

34/2A

**BHARAT SANCHAR NIGAM LIMITED**

**O/o CHIEF GENERAL MANAGER QA & INSPECTION CIRCLE JABALPUR**

**Minute of 107TH Central PTCC Meeting held at Hyderabad, Telangana State, on  
December 14, 2018**

The 107<sup>th</sup> CLPTCC meeting was held in Hyderabad, Telangana State on 14<sup>th</sup> Dec, 2018. The meeting was hosted by BSNL at conference hall, O/o Chief General Manager, Telangana Telecom circle, Hyderabad. The meeting started with Prayer. The lighting lamp ceremony was performed by Shri B.K.Jog CGM BSNL QA & Insp circle, Jabalpur & Chairman 107<sup>th</sup> CLPTCC meeting, Shri V.Sunder CGM BSNL Telangana Telecom circle Hyderabad & Chief guest 107<sup>th</sup> CLPTCC meeting, Shri Naresh Bhandari CE CEA New Delhi & Co- Chairman 107<sup>th</sup> CLPTCC meeting, Shri.T.V.Venkatram PGM(South) BSNL QA & Insp circle Bengaluru and Shri.Giriraj Singh GM(HQ INSP) O/o CGM QA & INSP circle Jabalpur & Secretary (Telecom) CLPTCC. The meeting was attended by dignitaries from BSNL, CEA, Railways and State/Central Power utilities.

The list of participants is enclosed at Annexure-1.

Shri.V.Ganesan DGM QA & INSP circle Chennai welcomed all officers on the dais and all other officers from BSNL, CEA, Railways, State and Central Power utilities. He thanked Shri V.Sunder CGM BSNL Telangana Telecom circle Hyderabad for his willingness to become the chief guest despite being busy.

Shri.Giriraj Singh GM (HQ INSP) O/o CGM QA & INSP circle Jabalpur & Secretary (Telecom) CLPTCC welcomed all the participants. He requested the participants to proceed with mutual consent so that the purpose of formation of CLPTCC would be achieved.

Shri Naresh Bhandari Chief Engineer CEA New Delhi & Co- Chairman 107th CLPTCC meeting welcomed all the participants. He stated that PTCC was formed in May 1949 and Central PTCC is an excellent multi sector unique forum wherein four big Government departments i.e BSNL, CEA, Defense & Railways are involved for PTCC approval procedure. Time limit has been reduced in PTCC approval time schedule, for Renewable energy PTCC cases. He also stated that CEA has started uploading month-wise calculated IV at its website ([www.cea.nic.in](http://www.cea.nic.in)) since August, 18. The path for the same is : Homepage/Wings/Power System/PCD/"Reports for IV calculation for PTCC Route Approval". He stated that computerization of PTCC process project launched in the year 2015, but is yet to be fully developed. He requested BSNL for early completion of computerization of PTCC project to make paperless PTCC process.

*Pran A.K. Jain*  
4.2.19

Shri B.K.Jog CGM BSNL QA & Insp circle Jabalpur & Chairman 107th CLPTCC meeting welcomed all the participants. He stated that two new high capacity servers have been purchased and installation is in progress. Now Slow connectivity and low speed problems will be resolved very soon. Meanwhile present server (working on PC) has been configured with a better configuration of 8 GB RAM and 250 GB SSD, as an interim arrangement. He expressed pleasure that meetings of SLPTCC becoming regular in this financial year which is a good Signe.

Shri V.Sunder CGM BSNL Telangana Telecom circle Hyderabad & Chief guest 107th CLPTCC meeting, welcomed all the participants He stated that Telangana telecom circle has extended cooperation in the works related to PTCC.

### A. CONFIRMATION OF MINUTES

The minutes of 106<sup>th</sup> CLPTCC meeting held at Mahabaleshwar Maharashtra on 25<sup>th</sup> May 2018 were taken up for confirmation and all the members confirmed the minutes.

### B. DISCUSION ON AGENDA POINTS

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

CEA: Basically, it is for overhead telephone lines.

BSNL: At present, overhead telephone lines do not exist. BSNL is using Underground cables for local & long distance telecommunications. However BSNL is using Aerial OF Cables (Over head) in some area but it is non-metallic. All dielectric self supporting OF Cable (ADSS OFC) used in NFS Project ( Network for spectrum) hilly area in Himachal Pradesh and some part of Jammu. ADSS OF cable is a non metallic cable which supports its own weight without the use of lashing wires or messenger cables. Standing agenda regarding unguarded power crossing already exists in SLPTCC meeting. In the SLPTCC meetings, existence of aerial OFC if any should be discussed.

Keeping in view, in present scenario this point as such is not required for discussions any more in CLPTCC meeting.

**However it is decided that this item will remain as agenda item till next CLPTCC meeting.**

**Action: SLPTCC POWER/Telecom**

#### B.2 Computerization of PTCC Route Approval Process:

Regarding use of existing ONLINE PTCC portal power utilities expressed difficulties. Many utilities informed that they were not able to login at the portal.

CGM BSNL expressed that some problems are being faced in the portal like processing speed limitation of uploading of certain documents like TOPO map etc. due to capacity constraints of the existing Server. The same would be taken care in the Version-2 of the software. For this, the High capacity servers has been procured and installation in progress. Once server comes into operation, then the feedback received from different Power utilities i.e

*Ben P.K. Jain*  
4.2.19

KPTCL, TSTRANSCO etc, may be implemented. It is not necessary to do subcommittee meeting now. As an interim arrangement, the present PC (Server) has been configured with a better configuration of 8 GB RAM and 250 GB SSD.

CEA stated that provision of IV uploading may be made available, and suggested BSNL that the home page of the portal may be made user friendly and all issues like procedure, flowchart, contact details of Nodal officers, etc may be made available at home page itself, to facilitate Power utilities.

**It has decided that Subcommittee should be continued and meeting should be held, when needed.**

**Action: By BSNL.**

EE RRVPNL Jaipur stated that they can register the case through Online but they cannot see case status through online. JTO A/T BSNL Hyderabad involved in the digitization of PTCC process informed that tracking system is available in online portal. Chief Engineer CEA stated that workshop should be conducted for familiarization of PTCC online portal.

**It was decided that workshop will be organized at Jaipur or Delhi, by RRVPNL, Jaipur.**

**Action: By RVPNL, Jaipur.**

### **B.3 SLPTCC meetings:**

Chief Engineer CEA stated that the existing format on which status of power lines already charged as well as power lines under construction along with their PTCC Route approval is being submitted by power authorities, should be modified. This shall be permanent agenda in every SLPTCC meeting. PGM (East) Kolkata also agreed.

**PGM (East) Kolkata will do modification in existing format.**

**Action: By PGM (East) Kolkata.**

No SLPTCC meeting is being conducted in Maharashtra state since last 18 months.. The last meeting was held on 12.05.2017. There is dispute between MSETCL & BSNL for organizing the next meeting.

**It was decided that MSETCL should conduct the next SLPTCC meeting first.**

**Action: By MSTECL, Mumbai.**

### **B.4 Nomination of members from DISCOMs for SLPTCC meetings**

DET (PTCC) Kolkata informed that APDCL, Assam has not sent their nominations. PGM Kolkata BSNL informed that letters were written but still the response is awaited. Matter was also discussed during SLPTCC meeting of Assam, but no nomination received so far.

*for J.K. Jain*  
*4.2.19*

Chief Engineer CEA stated that a letter will be issued to APDCL Assam, on this matter. CEA requested BSNL to furnish copies of earlier communications made with APDCL.

Action: By CEA & BSNL.

In the last meeting, DET (PTCC) Delhi informed that meetings were not convened in Punjab and UP. Punjab representative promised to conduct the meetings regularly.

DE PTCC Delhi has informed that PSTCL, Punjab & UP(E) circle have conducted SLPTCC meeting on 15.11.18 at Patiala, & on 24.10.18 at Lucknow respectively.

THIS PARA CLOSED.

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

**(i) Charging of transmission lines without PTCC Route Approval**

PTCUL has informed that IV calculations were done for 12 nos. cases and have forwarded the details to BSNL. BSNL confirmed the same and informed that the cases are being processed for issuing RAC.

DE PTCC Delhi informed that out of 12 no case of PTCUL -RAC already has been issued for 2 cases, IV calculation has been received (up to 132KV) for 7 cases, but proposals are incomplete as NOC from Defence & Railways are not enclosed. Informed to PTCUL and they are pursuing for NoC from Defence & Railways and IV calculation (Above 132KV) are awaited from CEA for 3 cases.

Chief Engineer CEA stated that only one case has been received so far and requested PTCUL to send the balance 2 cases (Above 132 KV) to CEA for IV calculation.

Action: By CEA, & PTCUL.

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

DET PTCC BSNL Northern Region informed that PTCC proposals have not been submitted by Power Transmission Company of Himachal Pradesh State, since 25/11/2016. Also Bihar state power transmission company limited (Bihar State Electricity) ,APDCL(Assam power development corporation Ltd), Haryana, and J&K state electricity board have not been submitted ,since the last 4 years. Rest SEBs is sending PTCC Cases.

CEA stated that matter may be raised at SLPTCC level and the concerned BSNL may communicate with such Power utilities. CEA agreed to communicate once again with state Power utilities for seeking PTCC clearance.

Action: By BSNL & CEA.

**B.6 Non-submission of proposal/ telecommunication details from Defense**

Pras J.K. - Jain  
4.2.19

In the last meeting Defense representative informed that seven zones have been identified. Each zone will have a nodal officer. He also 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. Once this project is completed Nodal officer will have the data of communication system in their respective zone. He assured that once this project is completed then PTCC cases would be disposed of at nodal level without being requires 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. Once the realignment project is completed then this issue would be solved as Nodal officers would have all the information regarding the communication systems.

Power utilities have expressed difficulty in contacting Defence department regarding PTCC cases. Defense representative informed that email id and official phone no. of the nodal officer would be given to all for contacting after formation of zones. He had assured that in a months' time information on Zones would be furnished.

Representative from Defense side has not attended this meeting hence no discussion carried out. However Defence has replied vide letter dated 14/8/18. According to this letter, "project NFS is being monitored centrally and all queries be addressed to this office as hitherto fore". The correspondence address is as below:

Directorate General of signals. Signal-7, General staff branch, Integrated HQ of MoD (Army),  
DHQ PO, New Delhi-110011.

**Action: By Defense**

**B.7 Improper Submission of BSNL Details:**

In last meeting, Chief Engineer CEA pointed out that telecom details received from DET North Zone are not in the prescribed format.

DE PTCC North zone informed that Meeting was held with Chief Engineer (PCD) O/o CEA Delhi and proper guidelines received. Now the proposals are being submitted in proper manner as per guidelines provided.

**ITEM CLOSED**

**B.8 Scrutiny report issued by CEA**

CEA is issuing scrutiny report of PTCC proposal received from power utilities and it was observed that the response to CEA scrutiny report was not encouraging. It was informed that if Power Utilities reply the queries raised by CEA in scrutiny report urgently then the delay in processing PTCC cases can be avoided.

DET (PTCC), SZ Chennai also informed that, they are receiving proposals with improper details like SR readings, non-furnishing of required certificate about the main line approval, EPR parameters especially fault current, non tallying of nomenclature of the line in the topo maps with questionnaire, non submission of survey of India maps etc. which amounts to delay in the registration of new proposals for further process. Proper submission of PTCC proposal may be ensured by Power utilities.

It was decided that the Power utilities would respond to scrutiny of CEA and BSNL expeditiously.

Action: Power Utilities

**B.9 Pending PTCC proposals:**

DET Mumbai told that the Topo sheets submitted by MSETCL are not proper for case no - 2356, 2351 and 2373.

**Dy.EE MSETCL has agreed to submit revised/new Top sheets as earliest.**

Action: By MSETCL

GM (West), BSNL Mumbai stated that in west zone, lot of improvement occurred in PTTC related work such as SLPTCC meeting, receipt of Telecom details from field units etc.

DE SZ Chennai informed that the details of PTCC cases in South Zone for which BSNL TD is pending, is being sent every month by DGM A/T, Chennai to the concerned territorial Circles (Chairman SLPTCC) for follow up.

Chief Engineer CEA desired that this may be followed by other zones also.

Action: BY BSNL

**B.10 PTCC approval of HVDC Earth Electrode**

Based on the decisions taken in 104<sup>th</sup> 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. It was decided that PGCIL would submit the PTCC proposal of 33 KM long transmission line constructed from Alipurduar HVDC station to the Earth Electrode station at Mathabhanga. CEA would compute induced voltage.

**DE EZ Kolkata :-**The telecom sur-vey of 132 KV Earth Electrode line at Alipurduar HVDC S/S in West Bengal was completed and sent to CEA New Delhi on 28.07.18 for IV calculation, as per the decision taken in 106<sup>th</sup> CLPTCC meeting.

In the 106<sup>th</sup> CLPTCC meeting, PGCIL,SRTS-I raised agenda of HVDC line i.e + 800KV Raigarh-Pungaur HVDC Transmission line under Bipole link between western region to southern region ,scheme-I and PGCIL,SRTS-I is seeking exemption from PTCC approval for said HVDC Transmission line . During discussions in last meeting, it was decided that the Sub-Committee would also look into the agenda of PGCIL SR-I. It was decided to include one representative each from CPRI/PRDC and PGCIL SR- I.

One representative each from CPRI/PRDC, and PGCIL SRTS-I have been included in the existing subcommittee by the CGM, QA&Insp. Circle, and Jabalpur. The Sub-Committee held its 2<sup>nd</sup> meeting on 25/10/2018. After detailed deliberations, 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 as such 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.

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 are being sent.

Forum has instructed to PGCIL, SR-I for submitting complete technical details of Raigarh-Pugalur HVDC line to the Sub-Committee for examination as earliest.

Action: CEA & PGCIL, SR-I

*Pran J. K. Jain*  
4.2.19

### B.11 Charging of 33kV Power line from Pulwai to PDCIL Gadwal Mahboobnagar Telangana

M/s Solar Arise Mumbai erected and energized 33kV transmission line from Pulwai to PDCIL Gadwal Mahboobnagar Telangana State on 26.06.2016 without PTCC clearance. The line was opened on 04/08/2017 on the order issued by District Collector of the district of Jogulamba (Gadwal) due to damage in nearby BSNL Telecom Exchange. Later on PTCC proposal was submitted by M/s Solar Arise and Induced voltage calculations were done by Southern Power Distribution Company of TS Limited and DET Chennai has issued Route Approval Certificate on 07/12/2017.

In the last meeting a Sub-Committee comprising CEA BSNL TS SPDCL and M/s Solar Arise was formed to ascertain the damage to Gadwal TE due to charging of the Power line. In the first meeting of the Sub-Committee TSSPDCL explained that many defects were noticed during a joint inspection of the 33kV line like defective insulators improper earthing improper laying of UG cables improper clearances etc. It was also informed by TSSPDCL that a meeting was conducted in the chambers of the District Collector Jogulamba Gadwal on 16/12/2017 with BSNL officials TSSPDCL officials and M/s Solar Arise officials and discussed in detail about PTCC approval induction effect to BSNL equipment. The District Collector Jogulamba Gadwal has instructed BSNL officials and M/s Solar Arise officials to coordinate check earth pits complete the work by 17/12/2017. District Collector Jogulamba Gadwal has instructed to charge the line. Accordingly the SE/OMC/TS Transco/Mahboobnagar charged the line on 25/12/2017 at 13:37 Hrs.

The 2nd subcommittee meeting was held on 03-08-2018 and the minutes of the meeting was sent to all members for signature, by e-mail on 17.08.2018(Annexure-V).

M/s Talettutayi Solar Projects Pvt. Ltd., owner of generation project has sent its comments vide letter dated 20/8/18 v (a copy enclosed at Annexure-VI).

**After detailed deliberations and going through the subcommittee report , CLPTCC forum concluded that**

1. The line was erected without PTCC approval and charged one year before.
2. Compensation has to be claimed by the concerned BSNL Telecom Circle from the respective DISCOM and DISCOM will pay the compensation.

**CEA does not confirm this decision. A letter in this regard is enclosed after page 21.**

**Action: BSNL**

In the last CLPTCC meeting it was decided that the DET (PTCC) BSNL Chennai would replace Sh. S. Balakrishnan SDE PTCC Chennai as convener of the Sub-Committee.

Smt.Chitra Suresh DET (PTCC) BSNL Chennai has attended the Sub-Committee meeting, in place of Sh. S. Balakrishnan.

**Item CLOSED.**

### B.12 Whether PTCC approval is needed for power Cables :

Regarding requirement of PTCC approval for Power Cables CE CEA informed about legal provisions. In the CEA Standards on Measures relating to Safety and Electric supply regulations the relevant clause is as under

#### Regulations-77:

“The owner of every overhead power line of voltage level 11kV or higher shall submit proposal for obtaining Power and Telecommunication Co-ordination Committee clearance to ensure safety of the personnel and telecom equipment.”

#### Regulations-76

(1) No underground power cable of voltage exceeding 33kV shall be laid without a minimum

- underground depth of 1.2 meters.
- (2) No underground telecommunication cable shall be laid without a minimum separation distance of .6 meters to the underground power cable of voltage exceeding 33kV.

So in CEA's Safety Regulations PTCC requirement is only for overhead lines.  
In CEA regulations for Technical Standards for construction of Electrical plants and Electric Lines Regulations 2010 the Section 88(5) is:

"The owner shall arrange all required consents and approvals including those from Power and Telecommunication Co-ordination Committee(PTCC) and for civil aviation road river canal or power line crossings way leaves and environmental & forest clearances etc. from the concerned authorities/agencies."

At page-172 of PTCC Manual the relevant extract is given below:

"Power cable should have the shortest length of parallelism with BSNL cables. When high voltage cables 11 kV and above has a parallelism exceeding 0.8 Km with BSNL cable should be marked in the topo map for suitable recommendation which implies power cables of length less than 0.8 Km need not be marked in the topo map. Hence for many power proposals of length less than 0.8 Km Telecom details need not be called for which considerably eases the work of both BSNL and EB authorities."

At page-170 - 171 guidelines for laying UG power cables is mentioned. It is also mentioned that BIS did not accept inclusion of PTCC Guidelines in their existing specifications of BIS. It is observed that in the guidelines PTCC requirement is not indicated and instead only required clearances are given.

In view of lack of clarity on the issue of requirement of PTCC approval for U/G power cables it was decided that a Sub-Committee comprising representatives from CEA BSNL Power utilities Manufacturers of cables and Discoms will be constituted to study the case further and report to CLPTCC.

CEA :1st meeting of the Sub-Committee was held on 12/11/18 at New Delhi. A copy of the gist of discussions is enclosed at **Annexure-VII**.

**CLPTCC decided that:**

Power cables are having double shielding. Considering this fact and the capacity of the power cable, for all 33 KV (Double circuit) and below capacity u/g cable power proposals, it is sufficient that the Power utilities will forward the self certificate mentioning the name of the power cable with route length, along with Railway NOC, EPR values of the new Sub stations 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 concerned zonal DE (PTCC)/SDE (PTCC) and BSNL SSAs by the Power Authority.

Action: CEA/Power Utilities/BSNL.

**B.13. Damodar Valley Corporation (DVC)**

RAC has been issued for both cases as per **Annexure-IX**

Item closed.

**B.14 APTRANSCO (Transmission Corporation of Andhra Pradesh Limited)**

APTRANSCO's agenda was about pending PTCC case (Only one case). The status at O/o DE PTCC Chennai is enclosed at **Annexure -X**. – **Energisation Approval also issued.**

Item closed

**B.15 Chhattisgarh State Power Transmission Company limited (CSPTCL)**

CSPTCL's agenda was about pending PTCC cases. The status is enclosed at **Annexure-XI**.

**Deliberation given in the Annexure itself**

**B.16 PGCIL SRTS-II**

PGCIL SRTS-II agenda was about pending PTCC cases. The status at O/o DE PTCC Chennai is enclosed at **Annexure-XIV**.

**Deliberation given in the Annexure itself.**

*Boonika, Jan  
4.2.19*



### B.17 PGCIL WRTS-II

PGCIL WRTS-II agenda was about pending PTCC cases. The status is enclosed at **Annexure-XV**.

**Deliberation given in the Annexure itself.**

### B.18 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 was 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.

After detailed discussions following was decided:

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

The Power Utility would wait till 6 months from date of issue of RAC and in case no charging permission is given by BSNL then it would be taken as deemed charging permission.	In view of clause-7 at page no-145 of PTCC manual , it was decided that waiting period of 6 months shall be <del>deleted</del> .
--	--

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

The Power Utility would wait till 6 months from date of deposit of money raised by BSNL demand note and in case no charging permission is given by BSNL then it would be taken as deemed charging permission.	As per the latest guidelines issued by CGM QA&INSP Circle, Jabalpur vide ltr dtd 30-07-2018, RAC is issued by DE(PTCC), only after receipt from BSNL about completion of protection work suggested for Telecom lines/cables for which IV is more than 650 volts. Ltr dt 30/07/18 Enclosed at Annexure-XVII. Chief Engineer CEA stated that there is no time limit prescribes for issuing of RAC & Energisation approval in the letter dt 30/07/2018. It should be mentioned and therefore above ltr dt 30/07/2018 may be modified. <b>Action: BSNL</b>
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 NOC is not issued by Railway as per time limit prescribed in PTCC manual then it will be considered as deemed NOC. CI/PTCC 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	CEA as follow up has written a letter to Railways on 23/7/18. Representative from Railway side has attended this meeting but no discussion carried out. (a copy is enclosed at Annexure-XVIII).

*Pran A.K. Jais*  
4.2.19

provisional decisions are conveyed to Railway Board with the request to send the representative in the next CLPTCC meeting.

Action: Railways

### C. NEW AGENDA

#### **C1. Non receipt of IV calculation from CEA New Delhi :**

PTCC cases are pending in Eastern Zone due to non receipt of IV calculation from CEA New Delhi. The status is enclosed at Annexure-XIX.

CEA intimated that proposals under SI No 1,5 & 8 in Annexure-XIX have not been received by them. IV values for rest cases will be issued shortly as and when details from Railways and Defense are received.

**ACTION: BY CEA.**

#### **C.2. Long Pending PTCC case of 132KV from OPTCL Odisha:**

18 no's PTCC case of 132KV are pending due to non receipt of IV calculation from OPTCL, Odisha since long time. Out of these 18 cases, 1 case is pending since 2012, 2 cases since 2013, 2 cases since 2014, 2 cases since 2015, 5 cases since 2017 and 6 cases of current year i.e. 2018 (Between the period from 7.3.18 to 27.9.18).

DGM EHT(C), OPTCL informed that cases are pending due to non receipt of NoC from Railway (ECR). DE East Zone Kolkata will write a letter to CEA about long pendency ,giving details about pending NoC from ECR.

**ACTION: BY CEA, OPTCL & DE EZ Kolkata.**

#### **C.3 No nodal officer for handling PTCC matters in JUSNL & Power Grid,ER- I,Patna :**

Since 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. So, the PTCC cases of their jurisdiction are not processed properly.

PGM (East) BSNL Kolkata intimated that matter will be settled with Power Grid,ER I,Patna and JUSNL through conversation.

**ACTION: BY PGM (East) Kolkata, Power Grid,ER I,Patna and JUSNL.**

#### **C.4. Private Power utilities may be given power to offer online:-**

It is observed in present scenario that when the private power utilities offer through offline, the offering is not registered by DE/PTCC. If the offering is 220 KV & above, the details are sent by DE to CEA for scrutinization and if it is 132 kv or less, details are sent to SEBs for scrutinization. After receipt of scrutinized report by DE/PTCC, if this is found O.K., then the case is registered by DE/PTCC and then after, further survey process of BSNL & Railways start. It takes lots of time, so if the private power utilities are allowed to offer as like as other Govt. power utilities, the additional time consumption for PTCC Clearance may be saved for them.

**CLPTCC forum decided that :**

**Since Private power parties are not authorised 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**

*Pranab K. Jais*  
3.2.19

submit the proposals to SEBS, who in turn will scrutinise, authenticate the documents including the topo map and upload the proposal in the PTCC portal online.

2. For EHT power proposals of above 220 KV, the present procedure of registering the cases as OFF line case by DE 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 development of version- 2 of the application.

**Action: SEBS**

**C.5. Absence of APDCL ( Govt.power utility of Assam)in SLPTCC meeting :**

It is observed that APDCL remained absent in the last SLPTCC meeting held in Guwahati on 28.11.2018. Since the last 5 to 6 years APDCL has not offered any power transmission line for PTCC clearance. It is also learnt from Assam Telecom circle, that lot of power lines in Assam were constructed and energized by APDCL, without PTCC clearance.

Chief Engineer CEA stated that a letter will be issued to APDCL, Guwahati.

**Action: By CEA.**

**C.6 Agenda Received From Odisha Telecom Circle :**

Odisha Telecom Circle, BSNL, Bhubaneswar. has claimed of amount Rs.2,45,08,376.00, against damage of U/G copper cable and OF cable to OPTCL. during laying of power cable. PGMTD Bhubaneswar has neither received any correspondence nor any claims from OPTCL. Letter dt 30.11.18 is enclosed at **Annexure-XIX.1**

**After detailed deliberations, it is decided that case is not coming under purview of CLPTCC. Hence Forum has decided that item can be closed.**

**C.7 PTCC proposal for O/H lines of length less than 0.8 KM**

As per page 172 of PTCC Manual 2010, BSNL Telecom details are not being collected and sent for IV computation in respect of power cables of length less than 0.8 Kms. Whether it is applicable for power line proposals of O/H lines of length less than 0.8 Kms ? If not applicable, upto what boundary, BSNL TD is to be considered for marking and IV computation. This has reference to item 6.17 in page 22 of PTCC Manual 2010. The boundary for marking of BSNL TD may be clarified capacity wise and lengthwise.

**After detailed deliberations, it is decided that BSNL /Rly TD to a stretch of 8 Kms on either side of the proposed O/H power line though less than 0.8 Kms, is to be submitted for IV calculation. Also CEA directed that , the note under item 6.17 in page 22 of PTCC Manual 2010, need not be considered while marking the telecom details.**

**Action: BSNL**

**C.8 Time limit for issue of Energisation approval by the concerned Telecom Circle heads after receipt of Route Approval Certificate:**

As per the latest guidelines issued by CGM QA&INSP Circle, Jabalpur vide lr dtd 30-07-2018, RAC is issued by DE(PTCC), only after receipt from BSNL about completion of protection work suggested for Telecom lines/cables for which IV is more than 650 volts. In such cases, time limit for issue

*Ban J.K. Jain*  
4.2.19

of Energisation approval by the concerned Telecom Circle heads after receipt of Route Approval Certificate may be suggested.

**Already covered in B.18 case-II hence it is removed from here.**

**C.9 Guideline for EHT Cases submitted by private parties.**

(a) At present EHT proposals of 220 KV and above are directly submitted by private parties. They are processed , after getting scrutiny report from CEA/New Delhi. EHT proposals of less than 220 KV of private parties are forwarded through the concerned SEBs with the documents viz questionnaire, topo map, SR data , EPR calculation etc signed by Private Parties only, which is not accepted by Energisation issuing authority.

**Refer item C.4 above for guidelines.**

(b) Issue of Energisation approval certificate may be made mandatory for all the power proposals submitted by private parties, irrespective of the capacity of the power line/cable and induced voltage range . This is to ascertain whether the private parties have erected the power line as per the topo map only and adhered to all the norms as per PTCC code of practise.

**Procedure followed for energisation approval for power proposals submitted by SEBs may be followed for power proposals submitted by private parties also.**

**C.10 Authority competent to calculate IV and issue Route Approval Certificate for 22kV SC & DC and 33kV SC category:**

As mentioned in page no 174 of PTCC Manual 2010, zonal DET(PTCC) of QA & INSP Circle(T&D) is issuing Route Approval Certificate for power proposals of 33 KV DC and above on behalf of CLPTCC. For power proposals 22kV SC & DC and 33kV SC category, it is mentioned that calculation of IV , processing and issue of RAC by SLPTCC . Authority competent to calculate IV and signing of RACs may be clarified for all cases including private party cases.

**CLPTCC forum decided that :**

- 1. All documents including topomap of a proposal submitted by private parties should be authenticated by SEBs/DISCOMs and forwarded through SEBs/DISCOMs**
- 2. Induced voltage calculation is to be done by co-ordinating Secretary of SLPTCC.**
- 3. Competent authority to issue Route approval certificate is Secretary (Telecom) SLPTCC Irrespective of the chairmanship of SLPTCC during that period.**

**Action: Power Utilities**

**C.11 Decision on closure of old EHT power line proposals submitted by power utilities .**

Many power line proposal submitted by SEBs prior to Mar 2016 are still pending for want of details like BSNL TD, Rly TD/NOC, IV comments from SEB/CEA as per details given below. Though they are discussed in every SLPTCC meetings, no progress is achieved and decision could not be arrived, as SEBs is not willing to close the cases. Instructions may be given to SEBs to close all such old cases and resubmit afresh ONLINE for further process.

A detail of such cases is enclosed at **Annexure-XX**.

**CLPTCC Forum has decided that old PTCC cases need not be closed and are still to be processed.**

**ITEM CLOSED.**

*Pran J.K. Jani*  
4.2.19

### C.12 PTCC proposals of below 220kV Transmission Lines by Private Parties

BSNL vide letter no. SR/PTCC/CM/2018-19/39 dated 23/08/2018 has sought guidelines for proposals of **22kV SC & DC and 33kV SC** Transmission Lines by private parties. BSNL has stated that the Clause 6.15 (page 21), Chapter 1 of PTCC Manual 2010 mentions the procedure for PTCC proposals of 220 kV and above voltage levels from Private Parties. However, the Manual does not mention about PTCC proposals of voltage levels less than 220 kV from Private Parties. BSNL has further informed that PTCC proposals for 33 kV DC to 132 kV voltage level of Private Parties are being forwarded and uploaded on PTCC portal by the concerned SEBs. Accordingly, these cases are being registered online and RACs are being uploaded on PTCC portal by DET, BSNL office. However, no such guidelines are present in the PTCC Manual. For 22 kV SC & DC and 33 kV SC category, as per PTCC Manual, the PTCC proposals are to be processed by SLPTCC.

CEA vide letter no. CEA/PCD/PTCC/2060-61 dated 31/8/18 has suggested an interim arrangement.

CEA has suggested that, as an interim arrangement, for private party cases of 22kV SC & DC and 33kV SC category, scrutiny report from the concerned Discoms/State Power Utilities may be taken with other procedure remaining same.

**This interim arrangement is made permanent, with additional condition that all documents viz questionnaire, topo map, SR data, EPR calculation etc be signed by SEBs/DISCOMS. Guidelines under C.10 may be referred for processing.**

### C.13 More than 2000 V Induced Voltage values

There were 2 Nos. of PTCC cases where calculated IV values in a few telecom cables were found to be more than 2000 Volts. BSNL letters dated 6/8/18 and 7/8/18 are enclosed at **Annexure-XXI & Annexure-XXII**. Page 138 of PTCC Manual 2010 gives procedures for protection of telecommunication circuits from high induced voltage using GD (Gas Discharge) tubes. For IV more than 2000V, there is 20 GD tube formula, which is applicable for overhead telecom lines only. For underground telecom cables, in case IV exceeds 2000 V, there is no mention of any procedure in the PTCC Manual. Under such conditions, CEA vide letter dated 5/9/18 had suggested two options to contain IV upto 2000 V, the options are as under:

#### Option-1:

To shift Telecom cable or power line at safe separation distance.

#### Option-2:

To physically verify Soil Resistivity (SR) which is one of the parameters used to compute Mutual Coupling, and thereafter IV.

CEA opines that Option-2 may be exhausted first before exercising option-1, particularly when SR values given in the proposal is high. It is proposed that BSNL under such conditions may constitute a Sub-Committee with members from CEA, BSNL and the concerned Power Utility for physical inspection of the site for physical checking of SR values.

**CLPTCC Forum decided that :**

#### Option -1

While submitting a proposal, all SEBs are furnishing Soil resistivity readings **physically** measured at every 2<sup>nd</sup> /3<sup>rd</sup> Km along the power line route. Normally **while** computing Induced voltage values, the Induced voltage calculating authority **is considering** the average soil resistivity value of the entire power line. It is **decided** that, in case when the voltage likely to be induced for any BSNL Telecom **cable** goes beyond 2000 volts, the SR readings furnished by the SEBs in that **particular** stretch where the BSNL cable exists may be considered for calculation of Induced voltage.

**Option -2**

Physical verification of soil resistivity shall be carried out.

**Option -3**

To shift Telecom cable or power line at safe separation distance even if the IV goes beyond 2000 volts as per Option-1 & 2

It would be at the discretion of IV calculation authority to decide among option 1 and option 2.

**C.14 PTCC cases having induced voltages greater than 650 Volts**

CEA vide letter dated 9/8/18, has asked BSNL to confirm whether the power utilities where IV was more than 650 V have deposited the required amount for protection of telecom circuits. BSNL may furnish the status indicating details like name of PTCC proposal, date on which demand note issued, amount deposited by power utility, etc. for the period 1/1/18 – 31/10/18. The current status is enclosed at **Annexure-XXIII**.

**CLPTCC forum decided that each case involving induced voltages greater than 650 Volts and payment made by power utilities should be discussed in every SLPTCC meeting.**

**Action : By BSNL & Power utilities.**

**C.15 Marking of telecom cables in respect of closed telephone exchanges**

DET, SR, BSNL formed a committee to verify the Soil Resistivity(SR) of 765kV Chilakalurpetta-Kadapa T/L, for which CEA has computed IV more than 2000 V for three cables. While verifying Soil Resistivity in connection to telecom cable namely Edara Exchange to Umamaheshwarapuram, it was found that Edara Exchange was already closed and its telecom cables were not in service anymore. CEA vide letter dated 5/10/18 (a copy enclosed at **Annexure -XXIV**) has informed BSNL about the same. It is a serious matter where same SDE, BSNL who has marked the telecom circuits informed during physical verification that these circuits do not exist.

**BSNL informed that no demand note has been raised for the protection in respect of telecom cable namely Edara Exchange to Umamaheshwarapuram. Further BSNL assured that the modifications if any done immediately after submission of Telecom detail will be intimated to DE (PTCC).**

**Item closed**

**C.16 Limit of length of BSNL cable for which marking is not required**

SDE, BSNL, Bhopal, in case of 765kV D/C Vindhyachal Pooling-Jabalpur transmission line of PGCIL intimated that marking of underground BSNL cables within 1.4 to 2 KM radius is not possible on route maps due to short length. CEA has communicated the same vide letter dated 19/9/18 (a copy enclosed at **Annexure -XXV**). BSNL may confirm.

**CLPTCC forum decided that all telecom cables, irrespective of length, within 8 Kms distance on either side of the proposed power line to be marked on the topo map for IV calculation.**

**Action : By BSNL**

**C.17 PTCC proposal for UG Power Cable of length less than 0.8 KM**

In the PTCC Manual, at Page-172, it is stated that for power cable of length less than 0.8 KM, BSNL telecom details are not required to be marked. It in turn means that RAC would be issued on the basis of inputs received from Railways and Defense.

It is to inform that on account of screening factor, the calculated IV for BSNL telecom circuits would be greater than Railways and Defense telecom circuits. Therefore, it is proposed that telecom details

*Boa. I.K. Jani*  
4.2.19

from Railways and Defense may also not be sought. It in turn means that there may not be any requirement of PTCC for power cables of length less than 0.8 KM.

**CLPTCC forum decided that,**

1. **Proposal for UG Power Cable of capacity 66 KV and above and of length less than 0.8 KM will be referred for PTCC clearance.**
2. **BSNL TD need not be called for.**
3. **RAC will be issued by DE (PTCC) incorporating the NOC received from Railways and Defence.**

**Action : By BSNL**

**C.18 PTCC cases pending for more than 2 years**

BSNL vide letter dated 10/10/18 (a copy enclosed at **Annexure -XXVI**) has informed KPTCL that cases pending for more than 2 years for want of pending clarifications are closed and fresh proposal are required to be submitted. KPTCL vide letter dated 25/10/18 (a copy enclosed at **Annexure -XXVII**) took cognizance of it.

**Already covered in Item C.11. Item closed**

**C.19 Guidelines for issuing PTCC RAC for cases where IV is more than 650 V**

BSNL vide letter dated 30/07/2018 (a copy enclosed at **Annexure -XVII**) formulated guidelines for issuing PTCC RAC for cases where IV is more than 650 V.

**Already covered in Item B.18 (case-II) . Item closed**

**C.20 Uploading of IV by CEA**

It is to inform that CEA has started uploading month-wise calculated IV at its website ([www.cea.nic.in](http://www.cea.nic.in)) since August,18. The path for the same is : Homepage/Wings/Power System/PCD/"Reports for IV calculation for PTCC Route Approval". This uploading activity would be in addition to ongoing practice of sending the IVs by post. It would ease out the issues related to delay / not receiving the IVs.

It is proposed that similar action may be taken by BSNL for RACs at its website: [www.tnd.bsnl.co.in](http://www.tnd.bsnl.co.in) till computerization of PTCC becomes fully operational.

**BSNL informed that Route Approval Certificates for EHT cases are being uploaded in the PTCC portal [www.ptcc.bsnl.co.in](http://www.ptcc.bsnl.co.in) by DE(PTCC) , which can be downloaded by the concerned Power utilities.**

**Item may closed**

**C.21 Revised 'Time Limit' for various steps involved in PTCC clearance for line/cable having length less than 5 KM**

In the last meeting, following time limits were finalised for Renewable generations and Traction circuits for all future cases.

**For 33 kV D/C and above up to 132 kV Power Lines (Central Cases)**

Furnishing telecom details by P&T/Railway/Army	3 weeks
Scrutinizing the details, preparing copies & forwarding to concerned Electricity Board by DET PTCC	1 week
Furnishing I.V. calculations by Electricity Board and endorsing copies to all concerned	3 weeks
Furnishing recommendations by Railway /Army	2 weeks
Final examination & Issue of certificate	1 weeks
<b>Total</b>	<b>10 weeks</b>

*Pran J.K. Jan'*  
*4.2.19*

**For Approval of Power Lines above 132 kV (Central Cases)**

Furnishing telecom details by P&T/Railway/Army	6 weeks
Scrutinizing the details, preparing copies & forwarding to concerned Electricity Board by DET PTCC	1 week
Furnishing I.V. calculations by Electricity Board and endorsing copies to all concerned	3 weeks
Furnishing recommendations by Railway /Army	2 weeks
Final examination & Issue of certificate	1 weeks
Total	13 weeks

It is proposed that the above time limits may be extended to all power lines / cables having length less than 5 KM.

**CLPTCC forum agreed with the proposal with the condition that Time limit of ONE WEEK for final examination and issue of Route approval certificate would be calculated after completion of protection work.**

**C.22 Review of clause 6.17 of PTCC Manual**

PTCC Manual at page-22 has clause 6.17 which states that in as per decision taken in 91<sup>st</sup> CLPTCC meeting held on 8/6/10, BSNL will not mark telecom details where telecom circuits are less than 5 KM in length and more than 2 KM away from the proposed power line.

The above clause may be relooked as in case where soil resistivity is high the above proposition would have induced voltage beyond safe limits.

**CLPTCC forum decided that the note under item 6.17 in page 22 of PTCC Manual 2010 need not be considered while marking the telecom details as already mentioned in item C.7.**

**Item is closed.**

**C.23 Agenda received from MSETCL**

**(1) Power lines length <0.8 kms :**

For PTCC proposals of Power lines/cables having < 0.8 kms, RAC should be issued directly by DE PTCC since construction work gets completed in short period. Though a copy of complete set of PTCC proposal will be sent to concern authorities i.e BSNL Field unit, CEA, Railways and Defense for intimation. As per PTCC manual 2010, TD are not to be called for power lines/cables having length < 0.8 kms, but DE insists RLY RD and Defense NoC, followed by IV calculation, RLY NoC on IV etc.

**Item C.7 may be referred for decision, for O/H lines and Item C.17 may be referred for decision, for U/G power cables.**

**Item closed**

**(2) IV <430 :**

For PTCC proposal of power lines/cables, for which IV as computed by CEA/MSETCL is within safe limit, PTCC RAC should be issued by DE PTCC without waiting for NoC on IV values from Railways.

**CLPTCC forum has not agreed with this proposal.**

**Item closed**

**(3) Clearance time limit :**

PTCC proposals of 132 KV & 220KV are pending as per annexure XXVIII Page 3. CEA may certify such cases for release of PTCC RAC by concerned DE PTCC.

CEA stated that BSNL WZ may expedite pending PTCC cases of MSTCL.

**DE PTCC WZ Mumbai has given assurance that within three months RAC will be issued as and when details from Railways & Defense and IV values are received.**

**Action: By DE WZ Mumbai.**

*Pranay K. Jani*  
4.2.19



**(4) Telecom details by DET :**

Of late, it is observed that PTCC cases are pending mostly for want of TD by DE PTCC Mumbai. At present the practice is that SDE from DE PTCC office visits field for each and every individual case for telecom marking causing delay in forwarding TD to CEA/MSETCL for IV computation. Rather, BSNL field offices should mark for telecom details and send it to DET PTCC Office for compilation and further processing as rightly depicted in PTCC Manual 2010.

It is therefore requested that CEA/DETs may impart a training session for BSNL fields offices for " how to mark telecom cables in Topo sheet as per the guidelines given in PTCC manual 2010 " i.e considering the soil resistivity, length of telecom cables separation distance etc.

**It was decided that BSNL would expedite TD marking and clear pendency of MSETCL Cases.  
Action: By DE WZ Mumbai**

**(5) Re-orientation of PTCC approved power lines :**

For already approved EHT lines with PTCC RAC, if there is re-orientation of same for various reasons which involves minor diversions in the existing route, the PTCC re-approval for re-orientation may be waived. The length of minor diversions should be fixed in this meeting.

**CLPTCC forum has rejected the proposal.**

**Item closed**

**(6) ONLINE REGISTRATION :**

MSETCL is trying to get registered online for the last 4 years or so for online processing of PTCC cases for better transparency.CEA is requested to look into matter personally in this regard.

JTO A/T BSNL Hyderabad involved in the digitization of PTCC process informed that online Case registration system is available in online portal.

CEA stated that for solution of any query related to online portal, contact to JTO A/T BSNL Hyderabad involved in the digitization of PTCC process.

**Item closed**

**(7) Correspondence :**

All concerned authorities i.e. CEA, DET, Railway.& Defense should make use of e-mail and rapid post acknowledgement due for any correspondence i.e. dispatching letters with power authorities.MSETCL is not receiving marked Topo sheets by Railways/DETs sent through normal post.

**CLPTCC forum has agreed with proposal.**

**Item closed**

**C.24 Agenda received from MPPTCL**

MPPTCL agenda was about pending PTCC cases. The status is enclosed at **Annexure -XXIX**.

**Deliberation given in the Annexure itself.**

**C.25 Agenda received from DVC**

It is case of 132KV line hence it should not be included.

**Item closed**

**C.26 Agenda received from GETCO**

Gujarat Energy Transmission Corporation Limited (GETCO) agenda was about pending PTCC cases. The status is enclosed at **Annexure -XXX**.

**Deliberation given in the Annexure itself.**

*Pran J.K. Jani*  
4.2.19

**C.27 Agenda received from KPTCL**

Karnataka Power Transmission Corporation Limited (KPTCL) agenda was about pending PTCC Cases. The status is enclosed at **Annexure –XXXI & Annexure –XXXII.**

**Deliberation given in the Annexure itself.**

**C.28 Agenda received from KSEB**

Kerala State Electricity Board Limited (KSEB) agenda was about pending PTCC Cases. The status is enclosed at **Annexure-XXXIII.**

**Deliberation given in the Annexure itself.**

**C.29 Agenda received from TSTRANSCO**

Telangana State Power Transmission Company Limited (TSTRANSCO) agenda was about pending PTCC Cases. The status is enclosed at **Annexure –XXIV.**

**Deliberation given in the Annexure itself.**

**C.30 Agenda received from PSTCL, PATIALA**

Punjab State Transmission Corporation Limited (PSTCL) agenda was about pending PTCC Cases. The status is enclosed at **Annexure -XXXV.** CEA informed that IV for case at sr no 1 and 5 have been issued on 19/12/18 and 11/05/18 respectively.

**Deliberation given in the Annexure itself.**

**C.31 Agenda received from RRVPNL, Jaipur**

Rajsthan Rajya Vidyut Prasaran Nigam Limited (RRVPNL) agenda was about pending PTCC Cases. The status is enclosed at **Annexure –XXXVI.** CEA informed that case at sr,no 1 has TD marking deficiencies. IV for case at sr.no 2 and 3 has been issued on 15/01/19 and 23/01/19 respectively.

**Deliberation given in the Annexure itself.**

The meeting ended with vote of thanks to the Chair.

*Prakash K. Jain*  
4.2.19  
असहायक महाप्रबंधक (तकनीकी)  
Asstt. General Manager (Tech)  
भा.सं.नि.लि./B.S.N.L.  
तकनीकी एवं विकास परिमंडल  
Technical & Development Circle  
संचार विकास भवन, जबलपुर-01  
Sanchar Vikas Bhawan, Jabalpur-01

@A.S Insp

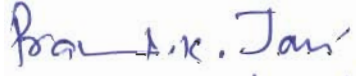
LIST OF PARTICIPANTS

SR NO	NAME OF PARTICIPANT	DESIGNATION	MOBILE NO	E-MAIL ID
	<b>BSNL</b>			
1.	Shri.V.Sundar	CGM, Telangana Telecom circle, Hyderabad & Chief Guest.	9440000195	cgmts@bsnl.co.in
2.	Shri.B.K.Jog	CGM, QA & Inspection circle, Jabalpur & Chairman.	9425801314	Cgm_tnd@bsnl.co.in
3.	Shri.T.V.Venkatram	PGM (South), QA & Inspection circle, Bengaluru.	9440010194	pgmsinqa@bsnl.co.in
4.	Shri. A.K.Sinha	PGM (East), QA & Inspection circle, kolkata.	9433000085	gmeastbsnl@gmail.com
5.	Shri.Kausar.Khan	PGM (North), QA & Inspection circle, Delhi.	9466000888	gmqaandinspectionnorth@gmail.com
6.	Shri.Deepak Tayal	PGM (CFA OP), Karnatak telecom circle, Bengaluru.	9483141555	deepaktayal12@gmail.com
7.	Shri.Giriraj.Singh	GM (HQ INSP), O/o CGM QA & Inspection circle, Jabalpur & Secretary (Telecom).	9425812800	gmhqjbp@gmail.com
8.	Shri. A.K.Jha	GM (West), QA & Inspection circle, Mumbai.	9425812800	gmwest@bsnl.co.in
9.	Shri.K.V.N.Rao	GM (operation), Hyderabad.	9440000204	kvnrao@bsnl.co.in
10.	Shri. V.Ganesan	DGM QA & Inspection circle, Chhennai.	9444000450	dgminspectacni@gmail.com
11.	Shri.P.K.Roy	DGM West Bengal telecom circle, Kolkata.	9433000166	wbtctrans@gmail.com
12.	Shri.Vijay.Kumar	DGM (Operation). O/o CGM AP Telecom circle, Vijaywada.	9440000249	Dgmopco.vj@gmail.com
13.	Shri.Ranjan.Hastu	DGM (CFA) J & K telecom circle, Jammu.	9419120444	addlgmcfajk@gmail.com
14.	Shri.Rakesh.Mishra	DGM (CFA) Assam telecom circle, Guwahati.	9435596454	gmhqjbp@gmail.com
15.	Shri.B.G.Venkatram	DGM QA & Inspection circle, Hyderabad.	9448451311	vrambg@gmail.com
16.	Shri.N.Koteswarudu	DGM.	9490189990	dgmnwoop@gmail.com
17.	Smt.Chitra .Suresh	DE PTCC (SZ-1), QA & Inspection circle, Chennai.	9444000441	deptecchi@gmail.com
18.	Smt.S.Sabiya.Beeve	DE PTCC (SZ-2), QA & Inspection circle, Chennai.	9444979768	deptecchi@gmail.com
19.	Shri.I.S.S.Mishra	DE PTCC (NZ), QA & Inspection circle, Delhi.	9868218082	issmdeptccnd@gmail.com
20.	Shri.A.R.Gavhale	DE PTCC (WZ), QA & Inspection circle, Mumbai.	9408706885	deptecmumbai@gmail.com
21.	Shri.A.Majumder	DE PTCC (EZ), QA &	9433400096	detptecer@gmail.com

		Inspection circle, Kolkata.		
22.	Shri.V.Rajasekhar	DE A/T QA & Inspection circle, Hyderabad.	9440000691	De2office.inspections@gmail.com
23.	Shri.D.V.S.Prakash Rao	AGM O/o CGM, Telangana Telecom circle, Hyderabad	9440000241	Prakashrao59@gmail.com
24.	Shri.P.K.Jain	AGM O/o CGM, QA & Inspection circle, Jabalpur.	9425803008	agmsw@rediffmail.com
25.	Shri.H.L.Badgainya	SDE PTCC O/o CGM, QA & Inspection circle, Jabalpur.	9425801083	agmsw@rediffmail.com
26.	Shri.K.M.V.S.Gupta	SDE PTCC O/o CGM AP Telecom circle, Vijaywada.	9490138428	sdemiscovj@gmail.com
27.	Shri.D.Sanathi	SDE PTCC O/o CGM, Telangana Telecom circle, Hyderabad	9490080977	-----
28.	Shri.A.Kotyaraik	JTO PTCC O/o CGM, Telangana Telecom circle, Hyderabad	9490000849	-----
29.	Shri.B.V.S.S. Bhujangaraju	SDE PTCC QA & Inspection circle, Vijaywada.	9490133177	-----
30.	Shri.G.Rajkumar	SDE PTCC QA & Inspection circle, Hyderabad.	9490000217	-----
31.	Shri.K.Raji Reddy	JTO A/T QA & Inspection circle, Hyderabad.	9440000355	rajireddy.in@gmail.com
	<b>CEA</b>			
1.	Shri. Naresh Bhandari	Chief Engineer, (PCD) & Co-chairman, Delhi.	9899061449	nbnareshbhandari@gmail.com
2.	Shri.Prateek.Srivastava	Asstt. Director, Delhi.	8017006309	pratikmin10@gmail.com
	<b>RAILWAYS</b>			
1.	Shri.P.Deena.Dayal	Dy.CSTE/Tele South Central RLY	9701370808	dayal007@gmail.com
2.	Shri.V.K.Sinha	STE/Tele EC RLY Hajipur	9771425849	ecrhqcug@gmail.com
	<b>TSTRANSCO</b>			
1.	Shri.N.Srinivasan	SE, Elec.	8985041699	ravisn06@gmail.com
2.	Shri.A.Saraswathi	SE, LI	9440811158	selivshyd@gmail.com
3.	Shri.M.Peddi.Rajan	DE, LI & Inst.	8985041729	-----
4.	Shri.K.Vedaprakash	DE, const.	9490153076	detstransco@gmail.com
5.	Shri.Satish.Kumar	ADE, const.	9491058604	ade2.const@tstransco.in
6.	Shri.B.Vinodkumar	ADE, LI & Inst.	9491058594	-----
	<b>POWER GRID</b>			
1.	Shri.PSN.Sarma	Sr.DGM	9440909189	psn@powergridindia.com
2.	Shri.Himadri.Bose	DGM, ER-II	9434742015	Himadri.bose@powergridindia.com
3.	Shri.Sujoy.Saha	Manager, ER-II	9560890356	Sujay.mnit@gmail.com
4.	Shri.Ravi.s.Pradhan	Jr.Engg	9723877868	Ravi.pradhan@powergridindia.com
<b>PTCUL, MSETCL, DVC, UPPTCL, TATA POWER DELHI DIST LTD, MPPTCL, DELHI TRANSCO.</b>				

*Pran P.K. Jain*  
4.2.19

1.	Shri.L.M.Bisht	SE , PTCUL	7088117619	Lm_bisht@ptcul.org
2.	MD.Ahfaz.Siddiqui	Dy.EE , MSETCL	9594079847	seprji@gmail.com
3.	Shri.D.R.Dharmadhikari	DGM, Tata power Delhi Distribution Ltd.	9818100634	Dr.dharmadhikari@ddl.com
4.	Shri.Robin.Mandal	SE (E), DVC	9903133058	Robin.mandal@dvc.gov.in
5.	Shri.S.P.Ram	SE , UPPTCL	9412711277	seelcmz@gmail.com
6.	Shri.A.K.Tiwari	EE , MPPTCL	9425805157	mptransco@gmail.com
7.	Shri.Dinesh.Singh	DGM (T)	9999533680	dineshsinghdt@gmail.com
<b>OPTCL, APTRANSCO, RRVPNL, GETCO, BSPTCL, &amp; WESCO UTILITY ODISHA.</b>				
1.	Shri.P.K.Dash	DGM EHT (C), OPTCL	9938907378	pkdashongle@gmail.com
2.	Shri.K.N.Narasimha.Rao	EE , APTRANSCO	9490153080	Selis.construction@gmail.com
3.	Smt.Sona.Shishodia	EE , RRVPNL	9414030303	xen@rvpnl.co.in
4.	Shri.S.R.Yadav	DE (Project), GETCO	9925208096	delaq.getco@gmail.com
5.	Shri.H.K.Singh	EE (Telecom), BSPTCL	9308940668	hkbsptcl@gmail.com
6.	Shri.Rajan.Behera	Dy.Manager. Wesco Utility.	9437150866	worksandplanning@wescoodisha.com
<b>PSTCL</b>				
1.	Shri.Rakesh.Sharma	Dy.CE, Trans, , PSTCL	9646117803	se_trd@pstcl.org
2.	Shri.Sanjay.Kumar	ASE , , STCL	9646124456	ase_ts2@pstcl.org
<b>KPTCL</b>				
1.	Shri.KVC Rairaiyaneyalre	CE(E) , KPTCL	9448471411	Sldc.kptcl@gmail.com
2.	Shri. Kumar. Muddavnavar	AEE (E) , KPTCL	9448998045	ceeldcptcl@gmail.com
<b>OTHERS</b>				
1.	Shri.James.V.Abrahim	Founder Director, Solar Arise.	9810304804	james.abraham@solararise.com
2.	Shri.Bipin.k.Singh	Manager, Solar Arise.	9999795570	bipin.singh@solararise.co.in

  
 4.2.19  
 सहायक महाप्रबंधक (तकनीकी)  
 Asstt. General Manager (Tech.)  
 भा.सं.नि.लि./B.S.N.L.  
 तकनीकी एवं विकास परिषद  
 Technical & Development Circle  
 संचार विकास भवन, जबलपुर-01  
 Sanchar Vikas Bhawan Jabalpur -01

QA/MS/P



सत्यमेव जयते

भारत सरकार  
Government of India  
विद्युत मंत्रालय  
Ministry of Power  
केन्द्रीय विद्युत प्राधिकरण  
Central Electricity Authority  
पावर कम्युनिकेशन डवलपमेंट प्रभाग  
Power Communication Development Division

No. CEA/PCD/PTCC/142-147

Date: 06/02/2019

CGM, Inspection Circle, BSNL,  
Residency Rd, Prestige Town,  
South Civil Lines,  
Jabalpur, Madhya Pradesh 482001

**Subject: Non Confirmation of Minutes of 107<sup>th</sup> CLPTCC meeting**

Sir,

The 107<sup>th</sup> CLPTCC meeting was hosted by BSNL and held on 14/12/18 at Hyderabad. The draft minutes were mailed to CEA on 14/1/19 for comments (a copy of cover page of email is enclosed at Annex-I). The extract of item B.11 as per original drafted minutes by BSNL is enclosed at Annex-II. CEA sent comments on 23/1/19, inter alia modifying minutes of item B.11, the extract is enclosed at Annex-III. BSNL has mailed the final minutes to CEA on 4/2/19, wherein CEA's comments in respect of item B.11 have not been considered. The extract of B.11 as per final minutes is enclosed at Annex-IV.

CEA in its comments has referred minutes of the 2<sup>nd</sup> Sub-committee meeting held on 3/8/18, a copy is enclosed at Annex-V. The 4<sup>th</sup> para, before conclusion is reproduced below:

**"After deliberations by all the members of the committee, shri. S.P.Abraham ,the honourable chairman of the sub committee informed that, he was of the opinion that this sub committee has been formed thinking that the damage to BSNL assets might have been due to induction effect from the 33 KV Power line from Pulwai to PDCIL, Gadwel, Mahaboobnagar, Telangana on the Telecom cables, which is ruled out now as per the Route Approval certificate. The issue of safety aspects should be brought to the notice of the Electrical Inspectorate."**

Regarding the above para, CEA has commented that it is quite significant finding in the sense that the Sub-committee, in view of post fact PTCC RAC issued by BSNL, has ruled out damage to BSNL asset due to induction effect of 33kV power line. The Sub-committee has related the damage to BSNL assets with safety aspects and stated that such aspects should have been brought to the notice of Electrical Inspectorate.

The Sub-committee has listed out conclusions, and the last conclusion is reproduced below:

"From the above deliberations it is clear that, the damage to BSNL equipment is only due to the 33KV line of Ms Solar arise erected in a non-standard manner and charged without prior PTCC clearance. Hence it is absolutely lawful, as per Section 160 of the Electricity Act 2003 that M/S Solar Arise should compensate to BSNL the loss suffered by them."

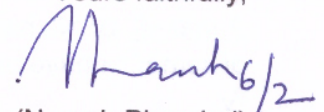
CEA in its comments has informed that the Sub-Committee has erred in making above conclusion on following grounds:

- (i) The Sub-Committee has already ruled out damage to BSNL assets due to induction, as in the post fact PTCC RAC the voltages were within safe limits and no protection was required. So, first sentence of above conclusion attributing damage to not taking prior PTCC is not correct.
- (ii) Section 160 (1) of the Electricity Act 2003 deals with effects at telecom circuits due to induction or otherwise. When the Sub-Committee has already ruled out damage to BSNL assets due to induction, then applicability of induction effects of Section 160 (1) of EA ceases. Regarding applicability of 'otherwise' of Section 160(1), the same is not in the purview of CLPTCC. This is the reason that the Sub-Committee has related the damage to BSNL assets with safety aspects and stated that such aspects should have been brought to the notice of Electrical Inspectorate. Hence, the second sentence of above conclusion is also not correct.

Keeping above into consideration, CEA in its comments has stated that since the damage to BSNL assets is not related to Induction, the case does not fall under the purview of CLPTCC. It is similar to agenda C.6, whose minutes have been rightly recorded, an extract is enclosed at Annex-VI.

**It is, therefore, requested that minutes recorded at B.11 may be corrected, otherwise this conclusion would set a precedence to bring all those cases where BSNL assets are damaged due reasons other than induction, under the ambit of CLPTCC. But the same is legally not tenable.**

Yours faithfully,



(Naresh Bhandari)  
Chief Engineer,  
Co-Chairman, CLPTCC

O/c

**Copy to:**

Sub-Committee Members



Naresh Bhandari <nbnareshbhandari@gmail.com>

---

**modified draft of minutes of 107th CLPTCC meeting - Reg**

2 messages

---


agm sw <agmsw@rediffmail.com>  
To: nbnareshbhandari@gmail.com  
Cc: sunnyp2.cea@gov.in

Mon, Jan 14, 2019 at 1:44 PM

R/S ,  
MODIFIED DRAFT MINUTES IS ATTACHED FOR YOUR VALUABLE COMMENTS. Sr.NO 2 OF POINT NO. B11 HAS  
REMOVED.

P K Jain  
DE (PTCC)  
O/o CGM QA & Inspection Circle  
Jabalpur  
Mob: 9425803008

---

 **107TH\_meeting\_-\_Modified\_Draft\_of\_minutes.docx**  
74K

---

Naresh Bhandari <nbnareshbhandari@gmail.com>  
To: agm sw <agmsw@rediffmail.com>

Wed, Jan 23, 2019 at 4:20 PM


Sir  
CEA's inputs have been incorporated and the revised draft minutes are attached.  
Regards,  
Naresh Bhandari  
CE

[Quoted text hidden]

--

With Regards  
Naresh Bhandari

---

 **107CLPTCC\_Minutes.docx**  
71K



**B.10 PTCC approval of HVDC Earth Electrode**

Based on the decisions taken in 104<sup>th</sup> 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. It was decided that PGCIL would submit the PTCC proposal of 33 KM long transmission line constructed from Alipurduar HVDC station to the Earth Electrode station at Mathabhanga. CEA would compute induced voltage.

**DE EZ Kolkata :-** The telecom survey of 132 KV Earth Electrode line at Alipurduar HVDC S/S in West Bengal was completed and sent to CEA New Delhi on 28.07.18 for IV calculation, as per the decision taken in 106<sup>th</sup> CLPTCC meeting.

In the 106<sup>th</sup> CLPTCC meeting, PGCIL, SRTS-I raised agenda of HVDC line i.e + 800KV Raigarh-Pungaur HVDC Transmission line under Bipole link between western region to southern region, scheme-I and PGCIL, SRTS-I is seeking exemption from PTCC approval for said HVDC Transmission line. During discussions in last meeting, it was decided that the Sub-Committee would also look into the agenda of PGCIL SR-I. It was decided to include one representative each from CPRI/PRDC and PGCIL SR-I.

One representative each from CPRI/PRDC, and PGCIL SRTS-I have been included in the existing subcommittee by the CGM, QA&Insp. Circle, and Jabalpur. The Sub-Committee held its 2<sup>nd</sup> meeting on 25/10/2018. After detailed deliberations, 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 as such 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.

**Forum has decided on basis of minutes and decision taken in subcommittee meeting that till the CPRI study report is received, like a proposal for AC line, the present practice will continue for HVDC line also.**

**Forum has instructed to PGCIL, SR-I for submitting complete technical details to the Sub-Committee for examination as earliest.**

**Action: CEA & PGCIL, SR-I**

**B.11 Charging of 33kV Power line from Pulwai to PDCIL Gadwal Mahboobnagar Telangana**

M/s Solar Arise Mumbai erected and energized 33kV transmission line from Pulwai to PDCIL Gadwal Mahboobnagar Telangana State on 26.06.2016 without PTCC clearance. The line was opened on 04/08/2017 on the order issued by District Collector of the district of Jogulamba (Gadwal) due to damage in nearby BSNL Telecom Exchange. Later on PTCC proposal was submitted by M/s Solar Arise and Induced voltage calculations were done by Southern Power Distribution Company of TS Limited and DET Chennai has issued Route Approval Certificate on 07/12/2017.

In the last meeting a Sub-Committee comprising CEA BSNL TS SPDCL and M/s Solar Arise was formed to ascertain the damage to Gadwal TE due to charging of the Power line. In the first meeting of the Sub-Committee TSSPDCL explained that many defects were noticed during a joint inspection of the 33kV line like defective insulators improper earthing improper laying of UG cables improper clearances etc. It was

also informed by TSSPDCL that a meeting was conducted in the chambers of the District Collector Jogulamba Gadwal on 16/12/2017 with BSNL officials TSSPDCL officials and M/s Solar Arise officials and discussed in detail about PTCC approval induction effect to BSNL equipment. The District Collector Jogulamba Gadwal has instructed BSNL officials and M/s Solar Arise officials to coordinate check earth pits complete the work by 17/12/2017. District Collector Jogulamba Gadwal has instructed to charge the line. Accordingly the SE/OMC/TS Transco/Mahboobnagar charged the line on 25/12/2017 at 13:37 Hrs.

The 2nd subcommittee meeting was held on 03-08-2018 and the minutes of the meeting was sent to all members for signature, by e-mail on 17.08.2018(Annexure-V).

M/s Talettutayi Solar Projects Pvt. Ltd., owner of generation project has sent its comments vide letter dated 20/8/18 v (a copy enclosed at Annexure-VI).

**After detailed deliberations and going through the subcommittee report , CLPTCC forum concluded that**

- 1. The line was erected without PTCC approval and charged one year before.**
- 2. Compensation has to be claimed by the concerned BSNL Telecom Circle from the respective DISCOM and DISCOM will pay the compensation.**

**Action: BSNL**

In the last CLPTCC meeting it was decided that the DET (PTCC) BSNL Chennai would replace Sh. S. Balakrishnan SDE PTCC Chennai as convener of the Sub-Committee.

Smt.Chitra Suresh DET (PTCC) BSNL Chennai has attended the Sub-Committee meeting, in place of Sh. S. Balakrishnan.

**Item CLOSED.**

#### **B.12 Whether PTCC approval is needed for power Cables :**

Regarding requirement of PTCC approval for Power Cables CE CEA informed about legal provisions. In the CEA Standards on Measures relating to Safety and Electric supply regulations the relevant clause is as under

##### Regulations-77:

“The owner of every overhead power line of voltage level 11kV or higher shall submit proposal for obtaining Power and Telecommunication Co-ordination Committee clearance to ensure safety of the personnel and telecom equipment.”

##### Regulations-76

- (1) No underground power cable of voltage exceeding 33kV shall be laid without a minimum underground depth of 1.2 meters.
- (2) No underground telecommunication cable shall be laid without a minimum separation distance of .6 meters to the underground power cable of voltage exceeding 33kV.

So in CEA's Safety Regulations PTCC requirement is only for overhead lines.

In CEA regulations for Technical Standards for construction of Electrical plants and Electric Lines

Regulations 2010 the Section 88(5) is:

“The owner shall arrange all required consents and approvals including those from Power and Telecommunication Co-ordination Committee(PTCC) and for civil aviation road river canal or power line crossings way leaves and environmental & forest clearances etc. from the concerned authorities/agencies.”

decided that PGCIL, SR-I would submit complete technical details to the Sub-Committee for examination.

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 are being sent. ~~the present practice will continue for HVDC line also.~~**

Forum has instructed to PGCIL, SR-I for submitting complete technical details of **Raigarh-Pugalur HVDC line** to the Sub-Committee for examination as earliest.

**Action: CEA & PGCIL, SR-I**

#### **B.11 Charging of 33kV Power line from Pulwai to PDCIL Gadwal Mahboobnagar Telangana**

M/s Solar Arise Mumbai erected and energized 33kV transmission line from Pulwai to PDCIL Gadwal Mahboobnagar Telangana State on 26.06.2016 without PTCC clearance. The line was opened on 04/08/2017 on the order issued by District Collector of the district of Jogulamba (Gadwal) due to damage in nearby BSNL Telecom Exchange. Later on PTCC proposal was submitted by M/s Solar Arise and Induced voltage calculations were done by Southern Power Distribution Company of TS Limited and DET Chennai has issued Route Approval Certificate on 07/12/2017.

In the last meeting a Sub-Committee comprising CEA BSNL TS SPDCL and M/s Solar Arise was formed to ascertain the damage to Gadwal TE due to charging of the Power line. In the first meeting of the Sub-Committee TSSPDCL explained that many defects were noticed during a joint inspection of the 33kV line like defective insulators improper earthing improper laying of UG cables improper clearances etc. It was also informed by TSSPDCL that a meeting was conducted in the chambers of the District Collector Jogulamba Gadwal on 16/12/2017 with BSNL officials TSSPDCL officials and M/s Solar Arise officials and discussed in detail about PTCC approval induction effect to BSNL equipment. The District Collector Jogulamba Gadwal has instructed BSNL officials and M/s Solar Arise officials to coordinate check earth pits complete the work by 17/12/2017. District Collector Jogulamba Gadwal has instructed to charge the line. Accordingly the SE/OMC/TS Transco/Mahboobnagar charged the line on 25/12/2017 at 13:37 Hrs.

The 2nd subcommittee meeting was held on 03-08-2018 and the minutes of the meeting was sent to all members for signature, by e-mail on 17.08.2018(**Annexure-V**).

M/s Talettutayi Solar Projects Pvt. Ltd., owner of generation project has sent its comments vide letter dated 20/8/18 v (**a copy enclosed at Annexure-VI**).

**After detailed deliberations and going through the subcommittee report , CLPTCC forum concluded that**

1. **The line was erected without PTCC approval and charged one year before.**
2. **Being a 33 KV line, the matter is to be taken care by SLPTCC regarding compensation.**
3. **Compensation has to be claimed by the concerned BSNL Telecom Circle from the respective DISCOM and DISCOM will pay the compensation.**

**Action: BSNL**

In the last CLPTCC meeting it was decided that the DET (PTCC) BSNL Chennai would replace Sh. S. Balakrishnan SDE PTCC Chennai as convener of the Sub-Committee.

Smt.Chitra Suresh DET (PTCC) BSNL Chennai has attended the Sub-Committee meeting, in place of Sh. S. Balakrishnan.

CEA stated that a copy of the minutes of 2<sup>nd</sup> Sub-Committee meeting held on 3/8/18 is placed at Annex-V (page 6-10) of the Agenda of 107<sup>th</sup> CLPTCC. The 4<sup>th</sup> para, before conclusion, at page-8 is reproduced below:

"After deliberations by all the members of the committee, shri. S.P.Abraham ,the honourable chairman of the sub committee informed that, he was of the opinion that this sub committee has been formed thinking that the damage to BSNL assets might have been due to induction effect from the 33 KV Power line from Pulwai to PDCIL, Gadwel, Mahaboobnagar, Telangana on the Telecom cables, which is ruled out now as per the Route Approval certificate. The issue of safety aspects should be brought to the notice of the Electrical Inspectorate."

The above para is quite significant in the sense that the Sub-Committee, in view of post fact PTCC RAC issued by BSNL, has ruled out damage to BSNL asset due to induction effect of 33kV power line. The Sub-Committee has related the damage to BSNL assets with safety aspects and stated that such aspects should have been brought to the notice of Electrical Inspectorate.

The Sub-Committee has list out conclusions, and the last conclusion given at page-10 is reproduced below:

"From the above deliberations it is clear that, the damage to BSNL equipment is only due to the 33KV line of Ms Solar arise erected in a non-standard manner and charged without prior PTCC clearance. Hence it is absolutely lawful, as per Section 160 of the Electricity Act 2003 that M/S Solar Arise should compensate to BSNL the loss suffered by them."

The Sub-Committee has erred in making above conclusion on following grounds:

- (i) The Sub-Committee has already ruled out damage to BSNL assets due to induction, as in the post fact PTCC RAC the voltages were within safe limits and no protection was required. So, first sentence of above conclusion attributing damage to not taking prior PTCC is not correct.
- (ii) Section 160 (1) of the Electricity Act 2003 deals with effects at telecom circuits due to induction or otherwise. When the Sub-Committee has already ruled out damage to BSNL assets due to induction, then applicability of induction effects of Section 160 (1) of EA ceases. Regarding applicability of 'otherwise' of Section 160(1), the same is not in the purview of CLPTCC. This is the reason that the Sub-Committee has related the damage to BSNL assets with safety aspects and stated that such aspects should have been brought to the notice of Electrical Inspectorate. Hence, the second sentence of above conclusion is also not correct.

CEA concluded that since the damage to BSNL assets is not related to Induction, the case does not fall under the purview of CLPTCC. It is similar to agenda C.6.

**Item CLOSED.**

#### **B.12 Whether PTCC approval is needed for power Cables :**

Regarding requirement of PTCC approval for Power Cables CE CEA informed about legal provisions. In the CEA Standards on Measures relating to Safety and Electric supply regulations the relevant clause is as under

### B.11 Charging of 33kV Power line from Pulwai to PDCIL Gadwal Mahboobnagar Telangana

M/s Solar Arise Mumbai erected and energized 33kV transmission line from Pulwai to PDCIL Gadwal Mahboobnagar Telangana State on 26.06.2016 without PTCC clearance. The line was opened on 04/08/2017 on the order issued by District Collector of the district of Jogulamba (Gadwal) due to damage in nearby BSNL Telecom Exchange. Later on PTCC proposal was submitted by M/s Solar Arise and Induced voltage calculations were done by Southern Power Distribution Company of TS Limited and DET Chennai has issued Route Approval Certificate on 07/12/2017.

In the last meeting a Sub-Committee comprising CEA BSNL TS SPDCL and M/s Solar Arise was formed to ascertain the damage to Gadwal TE due to charging of the Power line. In the first meeting of the Sub-Committee TSSPDCL explained that many defects were noticed during a joint inspection of the 33kV line like defective insulators improper earthing improper laying of UG cables improper clearances etc. It was also informed by TSSPDCL that a meeting was conducted in the chambers of the District Collector Jogulamba Gadwal on 16/12/2017 with BSNL officials TSSPDCL officials and M/s Solar Arise officials and discussed in detail about PTCC approval induction effect to BSNL equipment. The District Collector Jogulamba Gadwal has instructed BSNL officials and M/s Solar Arise officials to coordinate check earth pits complete the work by 17/12/2017. District Collector Jogulamba Gadwal has instructed to charge the line. Accordingly the SE/OMC/TS Transco/Mahboobnagar charged the line on 25/12/2017 at 13:37 Hrs.

The 2nd subcommittee meeting was held on 03-08-2018 and the minutes of the meeting was sent to all members for signature, by e-mail on 17.08.2018(Annexure-V).

M/s Talettutayi Solar Projects Pvt. Ltd., owner of generation project has sent its comments vide letter dated 20/8/18 v (a copy enclosed at Annexure-VI).

After detailed deliberations and going through the subcommittee report, CLPTCC forum concluded that

1. The line was erected without PTCC approval and charged one year before.
2. Compensation has to be claimed by the concerned BSNL Telecom Circle from the respective DISCOM and DISCOM will pay the compensation.

Action: BSNL

In the last CLPTCC meeting it was decided that the DET (PTCC) BSNL Chennai would replace Sh. S. Balakrishnan SDE PTCC Chennai as convener of the Sub-Committee.

Smt.Chitra Suresh DET (PTCC) BSNL Chennai has attended the Sub-Committee meeting, in place of Sh. S. Balakrishnan.

Item CLOSED.

### B.12 Whether PTCC approval is needed for power Cables :

Regarding requirement of PTCC approval for Power Cables CE CEA informed about legal provisions. In the CEA Standards on Measures relating to Safety and Electric supply regulations the relevant clause is as under

#### Regulations-77:

"The owner of every overhead power line of voltage level 11kV or higher shall submit proposal for obtaining Power and Telecommunication Co-ordination Committee clearance to ensure safety of the personnel and telecom equipment."

#### Regulations-76

- (1) No underground power cable of voltage exceeding 33kV shall be laid without a minimum

**Minutes of the 2<sup>nd</sup>Sub- Committee meeting to discuss the losses suffered by BSNL subsequent to charging of 33 KV Power line from Pulwai to PDCIL, Gadwel, Mahaboobnagar, Telangana held on 03-08-2018 at Hyderabad.**

The 2<sup>nd</sup>Sub- Committee meeting to discuss the losses suffered by BSNL subsequent to charging of 33 KV Power line from Pulwai to PDCIL, Gadwel, Mahaboobnagar, Telangana washeld on 03-08-2018 at the conference hall of % CGM Telangana Telecom circle, Hyderabad subsequent to the first meeting held at New Delhi On 18-05-2018. The following members were present in the meeting.

1. Shr.S.P. Abraham Director, PCD Division CEA, New Delhi - Chairman
2. Smt.Chitra Suresh, Divisional engineer (PTCC) QA&Insp circle, Chennai - Member
3. Shri.D.V.S Prakash Rao, AGM(USO&PTCC), %CGM Telangana Circle, Hyderabad - Member
4. Smt.Jyothi Rani DE, Telecom, TSSPDCL, Hyderabad - Member
5. Shri.Bipin Singh, Manager (Operations), M/S Talettutayi Solar Projects Pvt Ltd and M/S NVVogt Solar One Pvt Ltd . - Member

The meeting was attended by Sri.Chakrapani, Suptdg Engineer(OP), TSSPDCL, Gadwal.

Welcoming the members , Sri.S.P Abraham Director (PTCC), CEA/New Delhi and chairman of the Sub-committee briefed the minutes of the 105<sup>th</sup> CLPTCC Meeting held at Kochi and the purpose of this subcommittee meeting. He briefed about the charging of the said 33 KV Power line on 26-06-2016 without PTCC clearance , notification by BSNL about the damages caused to BSNL Telecom assets in Gadwel Exchange, de-energisation of the line on 04.08.2017 after intervention of Honourable District Collector of Gadwel and the initiative taken by CEA/New Delhi directing M/S Solar Arise to refer the proposal for PTCC approval. He also pointed out the defects intimated by Suptdg Engineer(OP), TSSPDCL, Gadwal in their letter dtd 27-12-2017 , after a joint inspection on the 33 KV DC line from Solar Power Plants Palwai to PDCIL, Gadwel and which were rectified by M/S Solar Arise later. Quoting the Route Approval Certificate issued by DE(PTCC), Chennai on 07.12.2017 for the said power line, he intimated that the issues of induction on the telecom cables due to the power line does not arise and the line was charged on 25.12.2017. He cited about the non occurrence of any incidents of damage or disturbance (which were intimated earlier ) to the Telecom cables, after the energisation of the power line 2<sup>nd</sup> time.

Shri. D.V.S. Prakasa Rao AGM(USO&PTCC), %CGM Telangana Circle, Hyderabad also described the chronology of the incidence right from charging of the power line on 26.06.2016 without PTCC

**Annexure-V (continue..)**

Approval , damages caused to Telecom assets and efforts taken by BSNL in restoring the BSNL services during 11 such occasions when damage occurred to BSNL due to the charging of this power line . He had also confirmed that no such damage to Telecom cables was reported during the period from 04-08-2017, the date on which the power line was kept open as per the instruction of the Honourable District Collector of Gadwelas well as timely intervention of CEA/New Delhi and till date, even after energising the power line on 25.12.2017 after getting the due PTCC route Approval Certificate and after M/S Arise attended to the defects pointed out by by Suptdg Engineer(OP), TSSPDCL, Gadwal in their letter dtd 27-12-2017 , after a joint inspection. He emphasised that the loss occurred by BSNL was only due to charging of the power line which was erected in a non standard manner and penalty has to be imposed to M/S Soalr Arise , the owner of the power line for charging the line without PTCC route approval.

After hearing the deliberations by Sri.D.V.S Prakasa Rao, Shri. S.P.Abraham emphasised that that M/S Soalr Arise have attended to all the defects in the power line only after the opening of the line on 04-08-2017 as per Collector's orders and after a notification from Suptdg Engineer(OP), TSSPDCL, Gadwel about the defects in the line. He insisted that this corrective action should have been taken by M/S Solar Arise before charging the power line on 26-06-2016 without PTCC Approval. He also insisted that the damages to BSNL assets because of the charging of this power line should have brought to the notice of Chief Electrical inspectorate as in the case of a fatal accident.

Smt.Chitra Suresh DET(PTCC), Chennai also after the deliberations by Shri.D.V.S Prakasa Rao quoted that "Section 160 of the Electricity Act 2003 ( as depicted in PTCC Manual 2010) says that ***"Every person generating, transmitting,distributing, supplying or using electricity(herein referred to as the "operator") shall take all reasonable precautions in constructing, laying down and placing his electric lines, electrical plant and other works and in working his system, so as not injuriously to affect, whether by induction or otherwise, the working of any line used for the purpose of telegraphic, telephone or electric signalling communication, or the currents in such wire or line."***

She suggested that the fact is clear that damages have been caused to BSNL Telecom assets only by the charging of the subject power line, though not by induction but by otherwise viz power line having been erected not to standards, vide inspection report of SE(OP), TSSPDCL Gadwel and also M/S Solar Arise has not taken reasonable precautions before charging the power line, though post facto route Approval certificate has been obtained on 07.12.2017.

**Annexure-V (continue..)**

Shri.Chakrapani SE(OP), TSSPDCL Gadwel informed about his visit to Gadwel Exchange and revamping of the exchange earth during the period when the power line was kept open from 04-08-2017. He also apprised to the committee about the loss incurred by M/S Solar Arise due to line kept open since 04.08.2017, for which the committee opined that the loss whatever suffered by them is at their own cost.

Shri Bipin Singh from M/S Solar Arise confirmed that the line was charged after the certificate issued by the Chief Electrical Inspectorate. Shri S.P. Abraham reminded that the approval was given without PTCC clearance.

Smt Jyothi Rani DE, Telecom, TSSPDCL, Hyderabad also apprised that rectification works on the power line by M/S Solar Arise has been carried out by them only after their inspection report and also as a follow up action after the meeting organised by honourable District Collector on 16-12-2017 with the BSNL, TSSPDCL and M/S Solar Arise.

After deliberations by all the members of the committee, Shri. S.P.Abraham, the honourable chairman of the sub committee informed that, he was of the opinion that this sub committee has been formed thinking that the damage to BSNL assets might have been due to induction effect from the 33 KV Power line from Pulwai to PDCIL, Gadwel, Mahaboobnagar, Telangana on the Telecom cables, which is ruled out now as per the Route Approval certificate. The issue of safety aspects should be brought to the notice of the Electrical Inspectorate.

**Conclusion:**

1. There was never any such damage like burning of cables, PCBs, MDF, equipment at Gadwal Exchange till the 33KV line of Ms Solar Arise was charged. The line was charged without PTCC Approval.
2. SE(Operation) TSSPDCL Gadwal has also pointed out in his letter dated 27.12.2017 that many defects were noticed during joint inspection on the 33 KV DC lines erected by M/S Soar Arise from Solar Power Plants Palwai to EHT Substation Gadwal, such as loose spans, leaning poles, leaning towers, leaning cross arms, defective insulators, improper earthing, improper laying of ug cables, improper clearances, improper erection of towers&supports, improper fixing of strut poles to main poles, strung panther conductor on DC line on Spun poles& M+6 Towers which are suitable upto Dog/100 Sq. mm conductors only etc.
5. Section 160 of the Electricity Act 2003 ( as depicted in PTCC Manual 2010) says that "Every person generating, transmitting, distributing, supplying or using electricity(herein referred to as the "operator") shall take all reasonable precautions in constructing, laying down and placing his electric lines, electrical plant and other works and in working his system, so as

**Annexure-V (continue..)**



not injuriously to affect, whether by induction or other wise, the working of any line used for the purpose of telegraphic, telephone or electric signaling communication, or the currents in such wire or line

6. M/S Solar Arise informed that they have charged the line after getting approval from the CEIG vide their letter dated 06.09.2017, who has not insisted for PTCC Route Approval certificate. M/S Solar Arise has confirmed vide their letter dated 17.12.2017 that they have completed a full assessment of the line and completed maintenance work required, including replacing some insulators, strengthening earth pits and straightening poles. This work on the power line erected by M/S Solar Arise has been carried out only after reporting of the defects by TSSPDCL as well as BSNL intimating the disturbance and damages caused to the Telecom Assets.
7. No GD tube protection has been recommended in the Route Approval certificate issued by PTCC, since the voltage likely to be induced on the BSNL cables due to the said power line is less than 430 volt. The logical conclusion based on factual experience is that, no damage is experienced ( what was experienced on 11 occasions when the line was kept charged) since 04-08-2017 the day when the said power line was opened after the intervention of the Honorable District Collector .
8. Hence it is opined that the loss suffered by BSNL is only due to the non-standard erection of the power line functioning so close to Telecom installations and charged without precautions and without getting PTCC approval .The damage might have been due to a rise in the earth potential of the nearby power poles. BSNL has claimed that the damage to BSNL assets is only due to the tripping of the power line momentarily. M/S Solar Arise in their letter dated 06-09-2017 have also intimated that such faults might be due to earthing issues or power surges. M/S Solar Arise have also intimated that they have also done maintenance work like improving earthing or re-earthing, changing the insulators at various points, straightening the insulators at various points etc. during July /August 2017 . This corrective works by M/S Solar Arise have been carried out after reporting by BSNL authorities about the damage caused to BSNL assets or after opening of the line on 04-08-2017.
9. No damage to BSNL assets has been reported, after the closing of the said power line on 25 -12-2017, after getting required PTCC approval dated 07.12.2017 . This is due to the fact that maintenance/improvement work has been undertaken by M/S Solar Arise on the power line/poles etc , as confirmed by M/S Solar Arise in their letter dtd 17-12-2017 .
10. Considering the close proximity of the power line with the Gadwal Telephone Exchange which may pose danger to BSNL Assets/Personnel at any time, BSNL may bring it to the notice of the Electrical inspectorate.
11. This aspect of subsequent changes in the power line and no incidence of induction can not in any way offset the facts prior to opening up the line to keep it dead for want of PTCC approval.

**Annexure-V (continue..)**

12. From the above deliberations it is clear that, the damage to BSNL equipment is only due to the 33KV line of Ms Solar arise erected in a non standard manner and charged without prior PTCC clearance. Hence it is absolutely lawful, as per Section 160 of the Electricity Act 2003 that M/S Solar Arise should compensate to BSNL the loss suffered by them..

Sd/.....

Shri.D.V.S Prakash Rao,  
AGM(USO&PTCC),  
%CGM Telengana Circle,  
Hyderabad

Smt.Chitra Suresh, Divisional  
Engineer(PTCC)  
QA&Insp circle, Chennai

Shr.S.P. Abraham Director,  
PCD Division CEA,  
New Delhi

Smt.Jyothi Rani DE,Telecom,  
TSSPDCI, Hyderabad

Shri.Bipin Singh, Manager  
(Operations) , MIS  
Talettutayi Sola Projects Pvt  
Ltd and MIS NVVogt Solar O

submit the proposals to SEBS, who in turn will scrutinise, authenticate the documents including the topo map and upload the proposal in the PTCC portal online.

2. For EHT power proposals of above 220 KV, the present procedure of registering the cases as OFF line case by DE 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 development of version- 2 of the application.

Action: SEBs

#### **C.5. Absence of APDCL ( Govt.power utility of Assam)in SLPTCC meeting :**

It is observed that APDCL remained absent in the last SLPTCC meeting held in Guwahati on 28.11.2018. Since the last 5 to 6 years APDCL has not offered any power transmission line for PTCC clearance. It is also learnt from Assam Telecom circle, that lot of power lines in Assam were constructed and energized by APDCL, without PTCC clearance.

Chief Engineer CEA stated that a letter will be issued to APDCL, Guwahati.

Action: By CEA.

#### **C.6 Agenda Received From Odisha Telecom Circle :**

Odisha Telecom Circle, BSNL, Bhubaneswar, has claimed of amount Rs.2,45,08,376.00, against damage of U/G copper cable and OF cable to OPTCL, during laying of power cable. PGMTD Bhubaneswar has neither received any correspondence nor any claims from OPTCL. Letter dt 30.11.18 is enclosed at **Annexure-XIX.1**

After detailed deliberations, it is decided that case is not coming under purview of CLPTCC. Hence Forum has decided that item can be closed.

#### **C.7 PTCC proposal for O/H lines of length less than 0.8 KM**

As per page 172 of PTCC Manual 2010, BSNL Telecom details are not being collected and sent for IV computation in respect of power cables of length less than 0.8 Kms. Whether it is applicable for power line proposals of O/H lines of length less than 0.8 Kms? If not applicable, upto what boundary, BSNL TD is to be considered for marking and IV computation. This has reference to item 6.17 in page 22 of PTCC Manual 2010. The boundary for marking of BSNL TD may be clarified capacity wise and lengthwise.

After detailed deliberations, it is decided that BSNL /Rly TD to a stretch of 8 Kms on either side of the proposed O/H power line though less than 0.8 Kms, is to be submitted for IV calculation. Also CEA directed that , the note under item 6.17 in page 22 of PTCC Manual 2010, need not be considered while marking the telecom details.

Action: BSNL

#### **C.8 Time limit for issue of Energisation approval by the concerned Telecom Circle heads after receipt of Route Approval Certificate:**

As per the latest guidelines issued by CGM QA&INSP Circle, Jabalpur vide Ir dtd 30-07-2018, RAC is issued by DE(PTCC), only after receipt from BSNL about completion of protection work suggested for Telecom lines/cables for which IV is more than 650 volts. In such cases, time limit for issue