

**Central Electricity Authority
Power Communication Development Division**

**Minutes of 101st Central PTCC meeting held in New Delhi on
9th October 2015**

The 101st Central PTCC meeting was held in New Delhi on 9th October 2015 in the NRPC Conference Hall, Katwaria Sarai, New Delhi. The meeting was hosted by CEA and inaugurated by Chief Guest, Shri S.D. Dubey, Member (PS), CEA. The lighting lamp ceremony was performed by Shri Dubey, Member (PS), CEA, along with Dr. Prabhat Mohan, Chief Engineer (PCD), CEA & Chairman of CLPTCC, Shri T. N. Shukla, Chief General Manager, BSNL, Inspection Circle, Jabalpur & Co-chairman, CLPTCC, Shri Naresh Bhandari Director (PTCC), CEA, & Secretary (Power), CLPTCC and Shri K.K. Sinha, Sr. General Manager, (HQ), Inspection Circle & Secretary (Telecom), CLPTCC. The meeting was attended by dignitaries from BSNL, CEA, Railways, Defence and State/ Central Power Utilities.

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

While inaugurating the meeting, Shri Dubey, Member (PS), CEA, said that in recent times there has been massive growth in Renewable Energy (RE) Sector and as a result more RE is being injected in to the grid. In view of this more telecommunication circuits (both Railway & BSNL) are being affected. For proper upkeep of power system, communication system should be adequately strong right down to 33 kV voltage level. He further added that CEA is working on provision of reliable communication system at 33 kV and 66 kV substations in the country. He mentioned that under Section 168 of Electricity Act 2003, CEA has started receiving online applications for Inspections of Electrical Installations and Detailed Project Report on Approval Process Monitoring System for Hydro Projects. He added that the role of Central PTCC has considerably increased on account of many fold increase in telecom installations, increase in demand for Power - both by the industry as well as by households- as also commissioning of new metro railway routes not only in the National Capital Region but also in other parts of the country. A very large increase in the number of situations of parallelism between the power lines and telecommunication circuits has resulted from this. He further said that keeping in tune with the times and in pace with the latest developments and in view of the growing number of cases for PTCC clearance, the ambitious project of digitization of PTCC route approval process has been taken up by Cabinet Secretariat, Govt. of India. It would further improve the efficacy in clearing PTCC cases.

Dr. Prabhat Mohan, Chief Engineer (PCD), CEA, while welcoming the participants said that for meeting the growing needs of the Indian economy, electric power generation capacity is to double itself every ten years for about next three decades. As such there is a need to develop large capacity projects at the national level to meet the requirement of different States. Development of Ultra Mega Power Projects (UMPPs) is one step in this direction. These are very large sized projects approximately 4000 MW each involving an estimated investment of about Rs. 30,000 crores. The projects will substantially reduce power shortage in the country. Developments in the power sector emphasize the need for accelerated implementation of national power grid. In view of above, nationwide synchronous power grid, interconnecting all the five regional grids, has been established with the commissioning of 765kV S/C Raichur — Sholapur Line on December 31, 2013. Keeping pace with the generation sector, the transmission sector has also been strengthened. Accordingly transmission sector in the country at the end of August 2015 including Central, State and JV/private put together is for \pm 500KV HVDC - 9,432 CKM, for 765kV - 20,792 CKM, for 400kV - 1,40,083 CKM, and for 220 kV - 1,52,247 CKM. He noted that representatives from Railways and Defence had graced the meeting and due to their

absence at the 100th CLPTCC meeting at Chandigarh, certain issues could not be settled. He expressed the hope that discussions in the 101st meeting would be fruitful.

Shri T.N. Shukla, Chief General Manager, BSNL, Inspection Circle, said that force behind growth of Indian economy is Electricity and Telecommunication. When Hudhud or other type of storm comes, both sectors, electricity and telecommunication, get most affected and within minimum time schedule both are to be normalized. To maintain and control both these sectors, human power is involved. Therefore, Policy makers of the country are trying to make these sectors self-sufficient. He informed that Cabinet Secretariat, Govt. of India, has initiated to digitalize the clearance of PTCC route approval process and the work of digitalization of the clearance of PTCC route approval has been given to BSNL. The soft launch of digital clearance of PTCC route approval portal has been done on 30th September, 2015. However, he mentioned that, nearly 400 PTCC cases (all voltage levels) are pending for clearance at various organizations. He requested all utilities to clear the pendency by end of October, 2015.

Shri Naresh Bhandari, Director (PTCC), CEA, heartily welcomed all the officers on the dais and other officers from BSNL, Railways, Defence and State/Central Power Utilities. He said that CLPTCC was constituted by the Government of India with the sole objective of ensuring the safety of telecommunication equipment and lives of personnel working in the concerned organizations and also those working on telecommunication circuits in the close vicinity of power transmission lines. Since its formation, the Central PTCC has been playing a vital role in facilitating according of PTCC route approval for the expansion of networks of Power, Telecommunication and Railway Sectors. In spite of the growing number of cases and other constraints, he was glad to say that the PTCC cases are being processed and granted permission without unwarranted delays. In view of tremendous capacity addition, and, as a result, growth in the Power Transmission Sector, large number of power proposals are being received and processed by CEA and route approvals are being issued by BSNL. Despite manpower crunch CEA is able to clear PTCC cases and try that no pendency exists. He said that utilities are being informed, if PTCC proposal is held up due to non-receipt of information from any utility. He further mentioned that in the year 2015-16 (up to September 2015), CEA have received approximately 64 cases and could clear 55 cases which come to about 6000 in terms of CKM.

A. Confirmation of Minutes of previous meeting

The Minutes of the 100th Central PTCC meeting held in Chandigarh on 26th May 2015 were taken up for confirmation and all the members confirmed the minutes.

B. Follow up action on decisions taken in the previous CLPTCC meeting

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

DET (PTCC), BSNL, NR, DET (PTCC), BSNL, WR and DET (PTCC), BSNL, SR, informed that there were no unguarded power crossings in their respective zones. DE (PTCC), Eastern zone, BSNL vide letter no. DET/PTCC/ER/15-16 dated 09/09/15 that no such cases reported in Telecom circle of East zone.

B.2 Computerization of PTCC Route Approval Process

Since BSNL issues final Route Approval Clearance (RAC) and energization approval, the work of digitization of PTCC route approval process has been assigned by Project Monitoring Group of the Cabinet Secretariat, Govt. of India, to BSNL.

BSNL informed that soft launch of on line tracking portal for PTCC route approval proposals has been done on 30th September 2015. A list (**Annexure-II**) of PTCC user profile data received from most power transmission utilities of the country was submitted by BSNL.

It was decided that soft launch of on line tracking portal for PTCC route approval proposals by BSNL shall be informed to Secretary (Power) of each State.

In the last CLPTCC meeting it was decided that CEA shall furnish details of power utilities initiating the powerline proposal from each State for the purpose of creating users. Chief Engineer (PCD), CEA, clarified this issue vide letter no. CEA/PCD/100 CLPTCC/1346 dated 28.08.2015 stating that after enactment of Electricity Act, 2003 transmission business has been unbundled and consequently number of private power transmission utilities have entered in the transmission sector and CERC and SERCs are issuing transmission licenses. In view of this, it may be difficult to prepare a list of users in advance. CEA proposed that mechanism may be such that new user is required to fill registration form online and after verification, user ID and password could be issued. Modalities of verification can be worked out by CLPTCC. This will help in achieving the goal of ease of business. CEA had also provided format of portal for online application for inspection of electrical installations.

B.2.2 Collection of Legacy Data for Computerization of PTCC Route Approval Process

Phase-I

1st phase of collection of legacy data is for armoured cables and their latitude and longitude details. CEA has already informed that since BSNL now is carrying out digitization of PTCC clearance, therefore, CEA does not require these details.

Phase-II

Under Phase-II, collection of balance legacy data is to be achieved. In this regard, CEA already informed that collection of legacy data was envisaged to create distinct GIS layers of Power, BSNL and Railways so that with available legacy data, induced voltage could be computed without getting the marked details from BSNL and Railways.

BSNL informed that it was decided in the last meeting that committee constituted for collection of legacy data may be suspended for time being and may be made active if required at a later stage depending on computerization process. BSNL while reiterating the same stand stated that legacy data is not needed at this stage and therefore process of collection of legacy data may be suspended as of now, the system is about on line tracking portal for PTCC route approval proposals.

Item Closed

B.3 SLPTCC meetings

In the last meeting, Chairman CLPTCC directed all zonal DET (PTCC) of BSNL to issue instructions to SDEs (PTCC), Inspection Circle, to follow the procedure of organizing the SLPTCC meetings, fix up the dates, prepare the agenda for the meeting and circulate to all concerned as per the procedure.

It was informed by DET (PTCC), BSNL, NR, DET (PTCC), BSNL, WR, and DET (PTCC), BSNL, SR, that SLPTCC meetings are being conducted regularly, however, DET(PTCC), NR, informed that UP(E), UP(W) and Haryana state power authorities are not conducting SLPTCC meetings. No information about SLPTCC meetings in Eastern zone was available as DET (PTCC), BSNL, ER, did not attend the meeting.

CEA informed that based on last CLPTCC meeting discussion, letters have been written to Secretary (Power) of defaulting States in this regard. BSNL informed that SDE (PTCC) of the respective circle shall keep informed CEA regarding defaulting power utilities so that CEA could take the matter with such utilities.

Action: BSNL/CEA

B.4 Nomination of members from DISCOMs for SLPTCC meetings

In the last meeting, the Committee decided that Secretary/Chairman SLPTCC shall inform all the DISCOMS in their jurisdiction about the dates of the SLPTCC meetings and invite them for the meetings. CEA will suitably direct all the DISCOMs for attending SLPTCC meetings if there is no participation from DISCOMs.

CEA informed that based on last CLPTCC meeting discussion, letters have been written to Secretary (Power) of defaulting States in this regard. BSNL informed that SDE (PTCC) of the respective circle shall inform CEA regarding defaulting power utilities so that CEA could take the matter with such utilities.

Action: BSNL/CEA

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

(i) Charging of transmission lines without PTCC Route Approval

In the last meeting, the Committee instructed DET (PTCC), Northern zone, to forward the details of incomplete cases and the correspondences between DET (PTCC), Northern zone, and PTCUL to CEA. Chairman, CLPTCC had insisted that CEA should take up this serious issue immediately with concerned authorities, as this is a gross violation of PTCC procedure. DET (PTCC), Northern zone, will also try to resolve the issues in next SLPTCC meeting and forward the status to CEA for further necessary action.

DET (PTCC), Northern zone, informed that, as per decision taken in 21st SLPTCC of Uttarakhand Circle held on 19.06.2015, the details of all remaining 13 cases were submitted to concerned officer of Uttarakhand Telecom Circle, BSNL, for marking of Telecom details and there after the same will be forwarded to DE(PTCC) New Delhi for further action. It was informed that DET (PTCC), NZ shall pursue the matter with Uttarakhand telecom circle to obtain telecom details and process the case for IV calculations & issue of RAC.

Action: DET (PTCC), NZ/CEA

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

In the last CLPTCC meeting, Chairman, CLPTCC, had requested CEA to take up this serious issue immediately with concerned authorities.

In was informed by CEA that as per information provided by BSNL, CEA had taken up this issue with Secretary (Energy) of Jharkhand, Sikkim, Assam, West Bengal, Bihar, Tamil Nadu, Uttarakhand, Himachal Pradesh, Haryana, Uttar Pradesh, Andhra Pradesh and Telangana for necessary action.

BSNL may monitor the situation and inform CEA of any non-compliance.

Action: Zonal DET (PTCC), BSNL

B.6 Conversion of portion of existing Overhead power line into Underground cable:

In the last meeting, it was informed that many proposals are being received from State power utilities seeking PTCC clearance for partly converting existing overhead power line into underground cable, due to various reasons like Metro railway work, local municipal works, etc.

In was informed by CEA in the CLPTCC meeting that matter was examined by CEA and it was concluded that whether conversion is done partly or fully, the case may be treated as a new PTCC case.

Item closed

B.7 Alternate Protection in place of GD Tubes:

GD tube protection is required for affected Telecom cable. It was informed in the last meeting that the BSNL field units are facing difficulty in mounting a lot of GD tubes in shorter span of underground cable. After detailed deliberations, it was decided that a Committee comprising of representatives from PGCIL / State Power Utilities, BSNL and CEA may be formed, for arriving at a solution for protection to telecom assets. The Committee comprises Sh. V Ganesan DGM NT, Inspection Circle, Chennai, as Convener; Sh. Naresh Bhandari, Director (PTCC), CEA, and Sh. S Balakumar, Chief Manager, Powergrid, Vadodara, as Members.

Committee Members had discussion on 29.09.2015 at Chennai. It was noted that in case number of locations of GD tubes as recommended in PTCC Manual 2010 is more than two i.e. at MDF (Main Distribution Frame) and Pillar only then difficulties are being experienced and one of the options is to erect dummy pillars to provide GD tubes. Various other options like change of copper cable with OFC, re-routing of telecom cable, shifting of power line in the affected span, earthing of screen of PIJF cable at an interval of 50 m etc. were discussed. Visit to Raj Bhawan Exchange and St. Thomas Mount Exchange was also made to understand mounting of IPM (Integrated Protection Module) at MDF. At the end of the meeting, it was agreed that one member from Railways, preferably from RDSO (Research Designs & Standards Organization), and one member from TEC (Tele-communication Engineering Centre), DOT, preferably from RTEC (SR), Bengaluru, may be co-opted and from TEC, DOT, following information may be gathered and sent to CEA:

- (i) Withstand capability of metallic screen of PIJF cable in respect of electromagnetic induction occurring from faulty powerline.
- (ii) What would be extent of electromagnetic induction passing through the metallic screen of PIJF cable?
- (iii) To confirm that screening factor of 0.5 from PIJF cable is on account of outer screening in the PIJF cable, relevant to the enclosed telecom copper conductor.
- (iv) Induced Voltage withstand capability of Telecom Copper Conductor.
- (v) Technical specification and diagram of GD tubes and IPM.
- (vi) Technical Specification and cross-section of PIJF cable being used in BSNL.
- (vii) Recommendations of TEC, DOT, on how to tackle high induced voltage on underground PIJF cable.

The Committee will further deliberate on the matter in due course.

It was informed by BSNL that BSNL Inspection & QA Circle shall take up the matter with TEC & RDSO for nomination of member in the Committee.

Action: BSNL Ins. & QA Circle JBP

B.8 Kerala SEB case regarding EPR values

In the last meeting, DET (PTCC), BSNL, Chennai, informed that for PTCC case submitted by KSEB, i.e. 220 KV MC Line from 400kV Mannukkad S/S (PGCIL) to 220kV Kanjikkode S/S, a

clarification from CEA is needed regarding whether single phase or three phase fault current is to be used for computation of EPR values.

CEA in this regard has made communication with BSNL and opined that fault current to be considered for EPR calculations and induced voltage calculations are not the same values. For EPR, three phase fault current and for induced voltage, single phase fault current are to be considered.

However, this point has been taken up in detail at new agenda points in C.7.

Action: CEA

B.9 Nomination of Member (POWER) from APTRANSCO and TSTRANSCO

In the last meeting, it was informed that due to recent bifurcation of Andhra Pradesh State into two States as Telangana and Andhra Pradesh, two separate Electricity utilities are functioning as APTRANSCO and TSTRANSCO with headquarters at Hyderabad. From Andhra Pradesh, proposals for clearance of EHT (Extra High Tension) lines are being submitted by Chief Engineers of APTRANSCO from Hyderabad viz, Chief Engineer 400 KV SS, Chief Engineer Lift Irrigation, Chief Engineer Construction-I, Chief Engineer Construction-II, etc. The proposals from TSTRANSCO are being submitted by Chief Engineer, TSTRANSCO/Hyderabad. It was suggested that a nodal officer is to be nominated as Member (Power) SLPTCC from both the Electricity Utilities, authorizing them to forward and process all the Power line PTCC cases for following a uniform procedure and for better coordination. Two separate SLPTCC meetings with APTRANSCO and TSTRANSCO were conducted recently under the Chairmanship of GM (NWO-CFA), BSNL, Andhra Telecom Circle.

CEA informed that it has requested Chief Engineer (Construction), TSTRANSCO for nomination of Member (Power) for SLPTCC who shall also be Nodal Officer for forwarding and processing PTCC cases of Telangana State. However nomination is still awaited.

It has been decided in CLPTCC meeting that CEA shall also request APTRANSCO for nominating Member (Power) for SLPTCC who shall also be Nodal Officer for forwarding and processing PTCC cases of Andhra Pradesh.

Action: CEA

B.10 Non-submission of proposal / telecommunication details from Defence

In the last meeting, the issue could not be deliberated, as no Defence representative attended the meeting.

It was informed by Defence representative in the 101st CLPTCC meeting that all long route telecom cables of Defence are OFC. However garrison areas have U/G copper cable. Defence representative confirmed that marking of Defence Telecom circuits on the topo maps will be done, if power proposals are sent by power transmission utilities.

Therefore it was decided in the CLPTCC meeting that Power proposals shall also be sent to Director General (Signals), Defence, Army Head Quarters, New Delhi, by power transmission utilities. CEA shall request Defence to inform about nodal officers of NR, ER, WR, SR and NER to whom the power proposals would be forwarded for marking of Defence Telecom circuits on the topo maps.

Action: CEA/ All Power Transmission Utilities

C. New Agenda points

C.1 Agenda received from MPPTCL (Madhya Pradesh Power Transmission Co. Ltd.)

C.1.1 Computerization / Digitalization of transmission line, marking of telecom details by BSNL/Railways on the digital map of Survey of India

The work of digitization of PTCC route approval process has been assigned by Project Monitoring Group of the Cabinet Secretariat, Govt. of India, to BSNL, since BSNL issues final RAC and energization approval.

BSNL informed that as of now, their system is on line tracking portal for PTCC route approval proposals. BSNL will decide in due course on the issue of digitization of transmission lines.

Item Closed

C.1.2 PTCC route approval cases

The status in this regard is summarised and placed at [Annex-III](#).

C.2 Agenda received from DET (PTCC), BSNL, Western Zone

The status in this regard is summarised and placed at [Annex-IV](#).

C.3 Agenda received from KSEB Ltd. (Kerala State Electricity Board Limited)

a. 220kV D/C line from 220kV SS Pothencode — 220kV SS Kattakkada — energization certificate pending for this line.

CGM, Inspection Circle, Jabalpur stated that this issue will be taken up with field office of BSNL at Chennai for early issue of energization certificate.

Action: BSNL

b. 220kV MC line from 400kV S/S (PGCIL) Mannukad — 220kV S/S Kanjikkode - 3kM — EPR related issue.

CEA has already issued instruction on the subject and this point has already been covered in B.8 & C.7

C.4 Agenda received from PGCIL, WR-II

The status in this regard is summarised and placed at [Annex-V](#).

C.5 Agenda received from DMRC (Delhi Metro Rail Corporation Limited)

1. Calculation of Induced voltages

DMRC stated that it has trained officers for the calculation of induced voltage. DMRC desired that it should be authorized for Induced Voltage calculations for DMRC cases pertaining to route approval.

CLPTCC accepted the proposal of DMRC for calculation of induced voltage below 220kV by DMRC itself

2. Waiver from PTCC clearance for underground section (Tunnel)

DMRC stated that for underground section of DMRC, since tunnel is isolated with concrete structure shielded and ground at regular intervals, there is no chance of any effect of induced

voltages on telecom cables. DMRC proposed that in such cases PTCC route approval and clearance should not be mandatory.

CLPTCC did not accept this proposal of DMRC. However, CLPTCC constituted a Sub-committee, to look into the matter. The Sub-Committee shall comprise of members from CEA, BSNL, DMRC and MTNL. DMRC representative shall be the Convener for the Sub-Committee. The Sub-committee, if wishes, may coopt a member from RDSO, Railways. The composition of the Sub-committee, as decided, is as under:

1. Sh. RP Pandey, Dy. Director, CEA
2. ShRanjit Kumar, DGM/Tele., and ShAshfaq Ahmad, Dy CEE/TR-11, from DMRC
3. Sh. S C Singh, DGM/CP, MTNL, New Delhi
4. DET, PTCC, NR, BSNL, New Delhi

CEA has already issued letter in this regard.

Action: DMRC

3. Pending cases of DMRC

3.1 Phase-3: Cases of 33kV U/G Cables

1. Janakpuri — Kalkaji
2. Bhikaji Cama Place to H. Nizamuddin
3. Azadpur- Netaji Subhas Place
4. Nazafgarh Ramp — Nazafgarh Station
5. Mandi House — ITO
6. ITO - K. Gate
7. Mukundpur- Shiv Vihar including Mukundpur and DholaKuan, Vinod Nagar and Yamuna Vihar

3.2 Cases of RSS

1. DTL S/S Vasant Kunj — DTL S/S RK Puram
2. HVPNL S/S Sec 46 Faridabad — DMRC RSS Faridabad

3.3 Phase-2: Cases of RSS (66kV U/G Cable)

1. DTL S/S at Mundka — DMRC S/S at Mundka
2. DTL S/S at Kanjhawala — DMRC S/S at Mundka
3. Sarita Vihar S/S — DMRC RSS at Sarita Vihar
4. Park Street DTL S/S — DMRC RSS Central Secretariat
5. DTL S/S at Mehrauli to DMRC RSS at Ambedkar Colony and to Chhatarpur
6. Park Street TSS/AMS - DMRC RSS Central Secretariat
7. UPPCL S/S Sec 45 Noida — DMRC RSS Bot Garden
8. DMRC RSS at Jahangirpuri — Jahangirpuri Station

DMRC informed that their cases for PTCC route approval and clearance are pending since 2009 for want of cable details from MTNL/BSNL. Pending cases were discussed in SLPTCC meeting held in March 2014 and August 2015. As per decisions in SLPTCC meeting, pending cases of Phase-2 are again submitted to MTNL/BSNL for giving cable details. DMRC requested that time frame of two months as per PTCC Manual must be strictly adhered. If cable details are not submitted within this period of two months, it should be assumed that no telecom networks of MTNL/BSNL/Railway exist in the vicinity of proposed power lines and in such cases DET/PTCC should be authorized to issue route approval and clearance to avoid any delay in projects.

CLPTCC deliberated on the proposal of DMRC. The Committee did not agree with DMRC's proposal that if cable details are not submitted within two months then it shall be assumed that no telecom networks of MTNL/BSNL/Railway exist in the vicinity of proposed

power lines and in such cases DET/PTCC should be authorized to issue route approval and clearance to avoid any delay in projects.

Justifying the non marking of details of their cables within 8 KMs radius on either side of proposed power line, MTNL/BSNL officers said that they are not able to mark details as Delhi/NCR has large number of telephone exchanges and telephone cables concentrated in very small area.

Keeping the practical difficulty being faced by MTNL/BSNL in Delhi and NCR Region, CLPTCC decided that the sub-committee formed above for 'Waiver from PTCC clearance for underground section (Tunnel)' would also look in to this matter and submit its report within one month time to CEA for taking suitable decision.

Director (PTCC), CEA and DET (PTCC), NZ shall coordinate with DMRC and MTNL for timely submission of the Committee report.

Action: CEA / DET (PTCC), NZ, BSNL

C.6 Agenda received from PSTCL (Punjab State Power Transmission Corporation Ltd.)

The status in this regard is summarised and placed at **Annex-VI**.

C.7 Agenda received from DET, Chennai, BSNL

Regarding fixing of limits for EPR zone values for the new substations, BSNL stated that Route Approval Certificates are being issued for any HT/EHT power line, incorporating the theoretical value of the EPR zone (in distances) of the proposed substations, mentioning the hazard zones w.r.t various type of Telecom equipments. The information in this respect given in PTCC Manual is reproduced as below:

| S.No. | Type of telecom plant | Voltage Limit |
|-------|---|---------------|
| 1 | Terminal Apparatus, joints, cabinets, pillars, manholes, pits, Roles. | 650 V |
| 2 | Telephone Exchanges | 430 V |
| 3 | Cables: Plastic insulated and plastic sheathed & PIJF | 7 KV |
| 4 | Solid Polythene insulated fully filled UG PCM Cable | 10 KV |

BSNL informed that due to expansion in Power system Network, the magnitude of hazard zone (theoretical value) for some new substations furnished by Power authorities are extremely high, i.e. upto nearly 5 Kms, which needs re-engineering of already existing telecom assets in this zone which may not be practically feasible in all cases. Also, it may prevent installation/expansion of any Telecom assets in this zone in future. Hence it may please be considered whether any limits may be fixed for this hazard zone of the substation while designing the earth mat of the substation, as in the case of induction values limited to 2000 volts.

CEA expressed the opinion that as the earthing system has to carry the earth currents, the maximum earth fault current likely to flow in the system is generally Single Line to Ground (S.L.G.) fault current and same is considered for designing the earthing. After detailed discussion in the matter, it was decided that a subcommittee shall be formed by taking members from CEA, Powergrid, Railway and BSNL. These meetings shall be held

in Northern Region. The Committee shall comprise of Shri Naresh Bhandari, Director (PCD), CEA, Shri P.K. Saraswat, SDE(PTCC), BSNL, Jaipur. Till the time findings of Subcommittee are tabled, for EPR calculation, three phase fault current shall be taken for EPR zone. CEA shall request Director (Telecom), Railway Board for member from Railway and to Powergrid for nomination of member from Powergrid.

Action: CEA

C.8 Agenda from RRVPNL, Rajasthan

C.8.1 RRVPNL informed that following PTCC cases are pending with DET (PTCC), BSNL, New Delhi for want of PTCC route approval certificate.

| S. No. | Name of Power Lines |
|---------------|---|
| 1 | 220 KV D/C Pindwara-M/s DFCC's TSS Pindwara |
| 2 | 220 KV D/C Jodhpur-Jhalamandline. |
| 3 | 132 KV S/C Kherwara-Bichhiwaraline. |
| 4 | 132 KV LILO to Deh from Nagaur-Ladnu line. |
| 5 | 132 KV S/C Bhadla-Khetusarline. |
| 6 | 132 KV S/C Karauli-Mandrayalline. |
| 7 | 132 KV S/C Asind—Bhim line. |

CLPTCC requested DET(PTCC) NR to issue RAC for these lines at the earliest.

Action: DET (PTCC), Northern Region, BSNL, New Delhi

C.8.2 RRVPNL further informed that Telecom details of the EHV power lines (**Annex-VII**) are awaited from the DET (PTCC), Northern Region, BSNL, New Delhi

CLPTCC requested DET(PTCC) NR to furnish BSNL details of above mentioned transmission lines (from Sr. no 1 to 6) to CEA office and BSNL details of above mentioned transmission lines (from Sr. no. 7 to 12) to RRVPNL, Jaipur for induced voltage calculation at the earliest.

Action: DET (PTCC), Northern Region, BSNL, New Delhi

C.8.3 Railway Telecom/Block circuit details/ comments of the EHV power lines (**Annex-VIII**) are awaited from the NWR, Jaipur/ NCR, Allahabad / WCR, Jabalpur

CLPTCC requested Railway to furnish Railway Telecom/Block circuit details of above mentioned transmission line (at Sr. no 1) to CEA office and Railway Telecom/Block circuit details of above mentioned transmission lines (from Sr. no. 2 to 4) to RRVPNL, Jaipur for induced voltage calculation at the earliest.

**Action: North Western Railway, Jaipur, / North Central Railway, Allahabad/
West Central Railway, Jabalpur**

C.8.4 The Induced Voltage calculations of the EHV power lines (**Annex-IX**) are awaited from DIR (PTCC), CEA, New Delhi.

CEA informed that all these six cases are under process for induced voltage calculation. BSNL telecom details in respect of line at Sr. No. 1 of the table have been received on 05/10/2015.

Action: CEA

The meeting ended with thanks to all participants.

Annexure-I

101st Central Level Power and Telecommunication Coordination Committee (CLPTCC) Meeting on 9.10.2015 at 1130 Hrs in NRPC Conference Hall

LIST OF PARTICIPANTS

| SL NO. | NAME | DESIGNATION | PH. NO/MOBILE NUMBER & MAIL ID |
|-------------|-------------------|--|---|
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| <u>HPPTCL, H.P.</u> | | | |
| | K.S. Pathania | Sr. Manager (Designs) | 09418028529 kspathania1961@gmail.com |
| <u>RVPN, Jaipur</u> | | | |
| 1 | D.D. Verma | Zonal Chief Engineer | 9414065559 |

| | | | |
|-------------------------|------------------------|---|--|
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| | A.K. Sahu | Executive Engineer | 9827114955 cecnp.csptcl@cseb.gov.in |
| <u>KPTCL</u> | | | |
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| 2 | M.N. Roopashree | Asst. Exec. Engineer (EI), PTCC, Bangalore | 09448998046 ceeldcptcc@gmail.com |
| <u>APTRANSCO</u> | | | |
| | Smt. A.J. Rajeswari | Asst. Divl. Engineer (EI), APTRANSCO | 09490153086 de3pmz@gmail.co |
| <u>PSTCL</u> | | | |
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| | S.C. Das | AGM (Ele) | 09438907587 ele.scdas@optcl.co.in |

PTCC User profile data received till date 06.10.2015,at 10.30 AM:-

| User Department | | North Zone | | East Zone | | West Zone | | South Zone | |
|----------------------|-------------|--|----|--|-----------|---|----|---|----|
| BSNL | Circle Head | UPE, Uttarakhand, J &K, RAJ, HP, PB, UPW, HR | | WB, A&N, BH, CTD, JHKD, OR, AS, NE-I, NE-II | | MP, MH, GJ, CG | | TN, CHTD, AP, Kerala, KTK | |
| | SSA Nodal | J&K | 5 | CTD-1 | WB-15 | MP | 34 | AP | 22 |
| | | HP | 6 | BH-19 | JHKD-6 | MH | 30 | TN | 11 |
| | | PB | 11 | OR-14 | AS-7 | GJ | 17 | Kerala | 11 |
| | | HR | 10 | NE-I - 3 | NE-II - 3 | CG | 6 | | |
| | | UPE | 11 | WB-14 | | | | | |
| | Uttarakh | 7 | | | | | | | |
| | Raj. | 21 | | | | | | | |
| BSNL Mtce Regions | | NTR JANAPATH NEW DELHI | | No data | | WTR AHM GJ (NODAL FOR MP, CG, GJ & MH) | | STR Chennai | |
| Power/Power grid/SEB | | <ol style="list-style-type: none"> 1. DTL (Power) Delhi, 2. PTCUL Uattarkhand Dehradun, 3. UP Power Corporation Sitapur, 4. REVPNL Jaipur, 5. Ajmer DISCOM, 6. Jodhpur DISCOM, 7. PGCIL Jaipur, 8. HPPTCL Hamirpur' 9. PSPTCL Patiala, 10. HPSEBL Hamirpur, 11. UP(west) MEERUT. 12. DGM PGCIL VANARAS UP 13. AGM PGCIL VANARAS UP 14. PGCIL NR-II- Punjab, Haryana, HP, J&K 15. Punjab SEB's 16. H P SEB's 17. J&K SEB's 18. Haryana SEB's HVPNL Panchula, UHBVNL | | <ol style="list-style-type: none"> 1. Powergrid Patna, 2. Powergrid Kolkatta, 3. TSC Dhanbad, 4. Odisha Power Transmission | | <ol style="list-style-type: none"> 1. Powergrid GJ VODODARA, 2. Powergrid CG RAIPUR. 6. MSTCL MH, MUMBAI. 7. GETCO GJ VADODARA, 8. MPPTCL Jabalpur MP, 9. CSPTCL Raipur 10. Goa Electricity Department | | <ol style="list-style-type: none"> 1. TRANSCO Hyd, KPTCL Bangalore, 2. KSEB Thiruvananthapuram, 3. TSTRANSCO Chennai, 4. SPDCCL 5. APEPDCL | |

MPPTCL agenda point no. C.1.2 – PTCC Route Approval Cases

| Name of Power line | Status | Action by |
|---|---|------------------|
| LILO of one circuit of 220kV DCDS Bhopal — Bina line at Ganjbasoda S/S | BSNL details received on 06/10/2015 and case under process | CEA |
| LILO of one circuit of 220kV DCDS Narsinghpur - Itarsi line at 220kV Chichli | Induced Voltage comments have been issued on 27/08/2015. BSNL intimated that NOC from Western Central Railway (WCR) is pending. | WC Railway |
| LILO of one circuit of 220kV Rewa-Bansagar (Tons) at proposed 220kV Sirmour S/S | South Eastern Railway details received on 05/06/2015, however BSNL details are awaited. | BSNL |

Status of PTCC Route Approval Cases - Agenda (C.2) received from DET (PTCC), BSNL, Western Zone

Chhattisgarh State:

| Name of Power line | Status | Action by |
|--|--|------------------|
| 400kV D/C line from M/S KSK Mahanadi Power Plant in Nariyara village to 765/400kV PGCIL S/S near Taga village Janjgir- Champa District, Chhattisgarh | IV (Induced Voltage) comments sent on 01/09/15 | BSNL |

Maharashtra State:

| Name of Power line | Status | Action by |
|---|------------------------------|------------------|
| 220kV D/C LILO on Padghe - Kambha line for Rajlaxmi S/S | BSNL details are awaited | BSNL |
| 400kV D/C line from Navsari - Boisar (MH Portion) | IV calculation under process | CEA |
| 220kV D/C line from 400kV PGCIL Solapur S/S to Bale (Solapur-II S/S | IV comments sent on 07/10/15 | BSNL |
| 220kV D/C LILO line on Pandharpur— Vita line for proposed 220kV Pandharpur-II (Bhalwani) S/S | Railway details awaited | Railways |
| 220kV D/C lines from 400kV PGCIL Talegaon S/S for 220kV Hinjwadi MIDC Phase-I S/S & 220kV Hinjwadi MIDC Phase-II S/S (One ckt for each) | IV calculation under process | CEA |
| 400kV D/C between 765kV Ektuni (Aurangabad) S/S & 400kV ThaptiTanda (Aurangabad) S/S | IV comments sent on 16/09/15 | BSNL |
| 400kV D/C LILO line on BabhaleshwarThaptiTanda (Aurangabad-II) line to 765 kV Ektuni(Aurangabad) S/S | IV comments sent on 16/09/15 | BSNL |
| 220kV D/C line from 400kV Lamboti S/S - 220kV Vairag S/S | Railway details are awaited | Railways |
| 220kV D/C line from 220kV Paranda S/S - 220kV Vairag | Railway details are awaited | Railways |
| 765kV D/C line Kudgi — Kolhapur line (Part-II for Maharashtra Portion) | IV calculation under process | CEA |
| 400kV D/C LILO line on 400kV D/C Kolhapur — Mapusa line for 400kV GIS Kolhapur (Part-II for Maharashtra Portion) | IV comments sent on 23/09/15 | BSNL |
| 220kV D/C LILO line on 220kV Pandharpur — Malinagar line for 220kV Co-Generation Plant S/S at Shri Vithal SSK Ltd. Venunagar | Railway details are awaited | Railways |

Gujarat State:

| Name of Power line | Status | Action by |
|--|------------------------------------|--|
| 220kV D/C Kansari-Thavar line | IV comments sent on 20/11/14 | BSNL |
| 220kV D/C Bhiladi-PGCIL (Ambheti) | Case not registered in CEA | Power Utility, BSNL and Railways |
| 400kV D/C Varsana-Hadala | IV comments sent on 30/06/11 | BSNL |
| 220kV D/C LILO to Kukma from AnjarPanandhro ckt no.2 | IV comments sent on 30/06/09 | BSNL |
| 220kV D/C Sankhari-Jangral line | BSNL details are awaited | BSNL |
| 220kV D/C Thorad-Deodar line | BSNL details are awaited | BSNL |
| 220kV D/C LILO from 220kV Navsari — 220kV Popada S/S | IV comments sent on 01/10/14 | BSNL |
| 400kV D/C Kosamba-Choraniya | IV comments sent on 16/06/14 | BSNL |
| 220kV D/C Charnaka-Jangral | IV calculation under process | CEA |
| 220kV D/C LILO to SSNL at Bhachau from existing 220kV Tappar-Shivlakhha line | IV comments sent on 18/06/15 | BSNL |
| 400kV D/C KAPP — Navsari line | IV comments sent on 18/06/15 | BSNL |
| L ILO of both circuits of 220kV Halvad - Bhimasar line at 400kV Halvad S/S | BSNL & Railway details are awaited | BSNL & Railway |

Status of PTCC Route Approval Cases - Agenda (C.4) received from PGCIL WR-II

| Name of Power line | Status | Action by |
|--|--|------------------|
| 400kV D/C Mauda-II to Betul Transmission Line | CEA informed that, both BSNL and Central Railway have sent details on 06/10/2015 and 27/05/2014 respectively. However, Central Railway have not enclosed marked route map of their telecom circuits. | Railway |
| 800 HVDC Bipole Champa - Kurukshetra WR-NR interconnector | BSNL informed that PTCC route approval for this has been issued. | No Action needed |
| KAPP Stage —III & IV Transmission System: 400kV D/C KAPP - Navsari Transmission Line | CEA informed that I. V. comments have been issued. However, RAC by BSNL could not be issued as NOC from Western Railway still awaited | Western Railway |
| 400kV D/C KAPP - Vapi Transmission Line | CEA informed that I.V. comments have been issued by on 04/06/2015 | BSNL |
| 220kV D/C Ringanwada-Magarwada Transmission Line. | Western Railway details received without marked topo map on 13/08/2015. BSNL details are still awaited | BSNL & Railway |

Status of PTCC Route Approval Cases - Agenda (C.6) received from PSTCL**PTCC cases pending for BSNL Clearance**

| No. | Name of Power line |
|------------|---|
| 1 | 220kV D/C Bottianwala-Mastewala line |
| 2 | 220kV BTI-Malout line LILO for Badal |
| 3 | 220kV D/C Bahaurgarh-Devigarh line |
| 4 | 220kV S/C Bhalwan-Nabha line |
| 5 | LILO of one circuit of 220kV Patran-Sunam line at Bangan |
| 6 | 220kV D/C GHTP LehraMohabbat — Mansa LILO for Dhanula line |
| 7 | 220kV D/C GHTP Lehra — Mohabbat — Mansa LILO for Talwandi Sabo line |
| 8 | 220kV D/C Mukatsar — Bazakhana line for Mukatsar (Sandhwan) |
| 9 | 220kV D/C Mukatsar— Kotakpura line (Sandhwan) |
| 10 | 220kV Dhuri — Bhaiwan Loop out D/C on D/C Tower |
| 11 | 220kV line from 400kV S/S Dhuri (Bhalwan) to Bangan D/C on D/C Tower |
| 12 | 220kV S/C line on D/C Towers from 400kV S/S Ludhiana - Doraha |
| 13 | 220kV D/C line on D/C Towers from 220kv S/S BaghaPurana to BazaKhana |
| 14 | 220kV Makhu to Rashiana D/C line |
| 15 | LILO of 220kV GHTP Mansa at 220kV Dhanaula |
| 16 | 220kV NakodarNurmehla D/C line |
| 17 | 66kV SC on DC MadhirKot Bhai line |
| 18 | 220kV Nakodar - kartarpur D/C line |
| 19 | 220kV D/C line from 400kV S/S Nakodar to 220kV S/S RehanaJattan |
| 20 | 220kV D/C line from 400kV S/S Makhu to 220kV S/S Algon |
| 21 | LILO of both ckts of 220kV Malarkotla - Pakhowal&Malarkotla - Barnala at 220kV Sandhaur |
| 22 | LILO of 220kV Moga - Jagraon line at Himmatpur |
| 23 | 220kV D/C Talwandi Bhai - Dharamkota line |
| 24 | LILO of 220kV Sunam - Mansa at Jhunir |
| 25 | 220kV S/C line from 400kV S/S Balachak - to 220kV S/S Nariangarh |
| 26 | 220kV D/C line from 220kV S/S Kanjli to 220kV S/S Science City |
| 27 | LILO of both ckts of 220kV Patiala - Gobindgarh at 400kV S/S Rajpura |
| 28 | LILO of 220kV Nakodar - RehanaJattan at 220kV S/s Hoshiarpur |

PTCC cases pending for Railway clearance

| No. | Name of Power line |
|-----|--|
| 1 | 220kV D/C line from Bottianwala- Mastewala line |
| 2 | 66kV line from 220kV S/S Mahalkalan to 66kV S/S Thikriwal |
| 3 | 220kV D/C GHTP Lehra - Mohabbat - Mansa LILO for Dhanula line |
| 4 | 220kV D/C Mukatsar - Bazakhana line for Mukatsar (Sandhwan This line has also been shown at Sr. no.3 of 'PTCC cases pending with DET(PTCC)', New Delhi |
| 5 | 220kV line from 400kV Dhuri (Bhalwan) to Bangan |
| 6 | 220kV Nakodar - kartarpur D/C line |
| 7 | 220 kV D/C line from 400kV S/S Makhu to 220kV Algon S/S |
| 8 | LILO of both ckts of 220kV Malarkotla - Pakhowal&Malarkotla - Barnala at 220kV Sandhaur |
| 9 | 220kV D/C Talwandi Bhai - Dharamkota line |
| 10 | 220kV S/C line from 400kV S/S Balachak - to 220kV S/S Nariangarh |
| 11 | 220kV D/C line from 220kV S/S Kanjli to 220kV S/S Science City |
| 12 | LILO of both ckts of 220kV Patiala - Gobindgarh at 400kV S/S Rajpura |
| 13 | LILO of 220kV Nakodar - RehanaJattan at 220kV S/s Hoshiarpur |

PTCC cases pending with DET (PTCC), New Delhi for RAC

| No. | Name of Power line |
|-----|--|
| 1 | 220kV D/C Bahadurgarh- Devigarh line This line has also been shown at Sr. no.3 of (PTCC cases pending for BSNL clearance) |
| 2 | 220kV Dhuri — Bhalwan Loop out D/C on D/C Tower (This line has also been shown at Sr. no10 of 'PTCC cases pending for BSNL clearance' |
| 3 | 220kV line from 400kV S/S Dhuri (Bhalwan) to Bangan D/C on D/C Tower (This line has also been shown at Sr. no.11 of 'PTCC cases pending for BSNL clearance' |
| 4 | 220kV S/C line on D/C Towers from 400kV S/S Ludhiana — Doraha (This line has also been shown at Sr. no.12 of 'PTCC cases pending for BSNL clearance' |

PSTCL has been requested to review the status report and intimate the concerned authorities.

Status of PTCC Route Approval Cases - Agenda (C.8.2) received from RRVPNL**Pending with BSNL**

| S. No. | Name of Power Lines | Case on date | Pending At |
|---------------|---|---------------------|--|
| | 220 KV Lines | | |
| 1 | LILO TO Badisid from Bap-Bhadla line | 30.03.2015 | AGM(Rural),Jodhpur/SDOT, Phalodi |
| 2 | D/C Phulera-DFCCIL Phulera line(Revised) | 24.06.2015 | DE,Sambhar/SDOT,Phulera |
| 3 | LILO to Goner from one ckt. of Jaipur(South)-Chaksu line. | 05.08.2015 | DE(Rural),Sanganeri gate telephone exchange,JPR/SDOT, Chaksu |
| 4 | D/C Rajgarh-Akal line. | 06.08.2015 | SDE(PTCC),Jaipur |
| 5 | D/C Jaipur(North) - Manoharpur & extending line upto LILO pt. of VKIA-Kukas line. | 10.08.2015 | DE,Shahpura/SDOT, Shahpura |
| 6 | LILO to Jodhpur (New) from Jodhpur-Pali line. | 14.08.2015 | DE,West Patel nagar,Jodh./ SDOT, West Patel Nagar,Jodh. |
| | 132 KV Lines | | |
| 7 | LILO to Mokhampura from Pratapgarh-Dalot line. | 18.05.2015 | AGM.Pratapgarh/SDO/JTO, Mokhampura |
| 8 | S/C Lalsot-Toonga line. | 19.05.2015 | DE,Dausa/AGM ,Jaipur/SDOT,Lalsot |
| 9 | LILO to Govindgarh from Ramgarh-Nagar line | 08.06.2015 | DET,Laxmangarh/SDOT,Govindgarh |
| 10 | S/C Bhawanimandi-RTM bhawanimandi line. | 16.07.2015 | DE,Jhalawar/SDOT,Bhawanimandi |
| 11 | S/C Chipabarod-Kolukheri line. | 20.07.2015 | DE, Baran/SDOT,Chhabra |
| 12 | S/C Bhinder-Joojhura line | 14.08.2015 | DE,Udaipur/DE,Chittorgarh/SDOT,Badi Sadri/SDOT,Fatehnaaar |

Status of PTCC Route Approval Cases - Agenda (C.8.3) received from RRVPNL

Pending with Railways

| S. No. | Name of Power Lines | Ref. vide which | Railway Authority |
|---------------|--|------------------------|--------------------------|
| | II] 220 KV Lines | | |
| 1 | LILO to Jodhpur New (400 KV GSS) from Jodhpur-Pali line. | D.212 dtd. 14.08.15 | NWR, Jaipur |
| | [II] 132 KV Lines | | |
| 2 | S/C Bhinder-Joojhpura | D.210 dtd. 14.08.15 | NWR, Jaipur |
| 3 | S/C Bhawanimandi-RTM, Bhawanimandi line. | D.167 dtd. 16.07.15 | WCR, Jabalpur |
| 4 | LILO to Govindgarh from | D.102 dtd.08.06.15 | NCR, Allahabad |

Status of PTCC Route Approval Cases - Agenda (C.8.4) received from RRVPNL**Pending with CEA**

| S. No. | Name of Power Lines | Case processed on dated | Details sent to DET(PTC C), BSNL, New Delhi | Case pending with Dir(PTCC), CEA for IV. computation |
|---------------|--|--------------------------------|--|---|
| 1. | 220 KV LILO to Udaipur from Debari-Chhitorgarh line. | 14.06.13 | 31.03.14 | |
| 2. | Upgradation of 132 KV S/C I.G. Nagar- Sitapura Line to 220KV D/C Line | 10.11.2014 | 05.05.2015 | |
| 3. | 220KV DC Chittorgarh (400KV GSS)-Pratapgarh line via one circuit to G S S Nimbahera. | 03.12.2014 | 05.06.2015 | |
| 4. | 220 KV S/C line from Loc. No. 45 B+0 of Bhainsada-Akal line to Moolana | 28.03.2014 | 01.06.2015 | |
| 5. | 220 KV SC Tahendesar-Badnu line. | 09.12.2014 | 22.07.2015 | |
| 6. | 220 KV D/C PGCIL's Kotputli(Khelana)-Bansur line. | 03.03.2015 | 09.09.2015 | |