

AGENDA FOR THE 108th CENTRAL PTCC MEETING

Date: 10TH June 2019 (Monday)
Venue: Conference hall, 5th Floor, BSNL Bhawan,
 O/o CGM, Assam Telecom Circle,
 Pan Bazar ,
 Guwahati – 781001
Time: 10:30 Hrs.

A. CONFIRMATION OF MINUTES OF THE LAST MEETING

The Minutes of the 107th Central PTCC meeting held on 14/12/18 at Hyderabad were prepared and circulated by BSNL.

Members may like to confirm the minutes.

B. FOLLOW UP ACTIONS OF DECISIONS TAKEN IN THE LAST MEETING
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B.1 Ensuring 'Zero Level' on unguarded power crossings

<p>As per the discussion of the last meeting regarding unguarded power crossings, existence of aerial OFC with metallic support, if any, should be discussed in SLPTCC meetings. Report of the findings may be submitted to CLPTCC.</p>	<p>DE EZ: There is no existence of aerial OFC with metallic support in Eastern zone as report received from all Telecom circles of Eastern zone.</p> <p>DE, SZ : In south Zone, no existence of aerial OFC with metallic support is reported so far in SLPTCC meetings.</p> <p>DE, WZ: No such cases in West Zone.</p> <p>DE NZ: In north zone no case of Aerial OFC with metallice support reported by SSA so far.</p> <p align="center">Keeping in view, in present scenario this point as such is not required for discussions any more in CLPTCC meeting hence <u>item may be closed.</u></p>
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B.2 Computerization of PTCC Route Approval Process

<p>1. In the 106th CLPTCC meeting, Power Utilities had expressed difficulties regarding login to the portal, uploading of documents and slow speed. In the last meeting, CGM BSNL informed that high capacity servers have been procured and installation was under progress. He also informed that 8 GB RAM, 250 GB SSD HD PC was being used as server as an interim arrangement. The grievances regarding uploading of Topo sheets, system slowing during multiple logins etc. will be taken care in the version 2 of the software, following installation of high capacity servers. BSNL may inform about the progress.</p>	<p>DE SZ : New server already procured and migration is under progress, after which modification in the present version and version 2 will be developed.</p>
<p>2 . In the last meeting it has decided that Subcommittee should be continued and meeting should be held, when needed.</p>	
<p>3. RVPNL had raised grievances regarding accessibility of the portal and it was decided that RVPNL will arrange workshop in association with BSNL JTO concerned. Subsequently, RVPNL has offered to conduct the workshop</p>	<p>DE SZ: At present, JTO concerned is busy with migration work. Workshop is to be organised after completion of migration work.</p>

B.3 SLPTCC meetings:

In the last meeting 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.	PGM (EAST) Kolkata done modification in the existing format and modified format is enclosed as Annexure no.I . This para may be closed.
It was also brought up that no SLPTCC meetings were conducted in Maharashtra state since 12.05.2017 due to dispute between MSETCL and BSNL regarding organization of the meeting. It was decided that MSETCL would conduct the next meeting	(1) Total 30 meeting conducted during last year i.e 2018-19. (2) DE WZ: No meeting was conducted in Maharashtra by MSTCL. Action: By MSTECL, Mumbai.

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

In the last meeting, DET (PTCC) Kolkata informed that APDCL, Assam had not sent their nomination for SLPTCC Meeting. CE, CEA informed that CEA would write a letter to APDCL, Assam for nomination to SLPTCC meetings.	DE EZ Kolkata : APDCL has been nominated vide letter dated 18/12/2018 to Shri. Pranjit Handique,AGM, R-Apdrp cell, APDCL as DISCOM Member. Letter dt 18/12/18 is enclosed as Annexure no.II . ITEM MAY BE CLOSED
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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 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 IV calculation (Above 132KV) are awaited from CEA for 3 cases . In the last meeting, CEA informed that only 1 case had been received and asked PTCUL to submit the remaining cases.	CEA: CEA has so far received only 2 cases for which IV calculations have been forwarded to BSNL. DE NZ: Out of 12 no cases of PTCUL-RAC already have been issued for 5 cases , IV calculation has been received (up to 132KV) for 6 cases , but proposals are incomplete as NOC from Defence & Railways are not enclosed. IV calculation (Above 132KV) is awaited from CEA for 1 case . Action : PTCUL
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(ii) Other cases of non-submission of PTCC Proposals:

It was informed by BSNL that no PTCC cases have been received from the states of Himachal Pradesh, Bihar, Assam, Haryana and J&K for the last 4 years. It was also suggested that this issue may be discussed in SLPTCC meetings. CEA agreed to communicate once again with state Power utilities for seeking PTCC clearance.	(1).CEA: As per the discussion of the last CLPTCC, CEA has sent letter regarding non-submission of PTCC cases to various Power Utilities and SLDCs . In the 106th Meeting, CE, CEA offered to provide training to any Power Utilities for IV calculation and assured that CEA would help in all possible way, following which Bihar State Power Transmission Co. Ltd. has sought training and CEA has invited their officials (enclosed as Annexure-III & IV). (2).BSPTCL has informed by letter dated 13/05/19 that nomination of members for attending the training is under process.
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	<p>(3).DE EZ: - Till yet no offering is received from Bihar state electricity board and Assam power development corporation limited.. It is also learnt from Assam Telecom circle, that lot of power lines in Assam were constructed and energized by APDCL, without PTCC clearance.In this regard letters has been written dt 20/12/18 & 26/04/19 to the Chief Engineer PCD O/o CEA ND..</p> <p>(4).DE NZ: The proposal of PTCC cases from Haryana SEB is now being submitted but Himachal and J&K SEB are still not submitting the proposals. This issue was raised during last SLPTCC meeting of both states and they assured to submit the case in future.</p> <p style="text-align: center;">Members may deliberate.</p>
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B.6 Non-submission of proposal/ telecommunication details from Defense

<p>In the 106th 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.</p> <p>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 assured that in a months’ time information on Zones would be furnished</p> <p>Subsequently CEA followed up with Defense. Defense has replied vide letter dated 14/8/18 according to which “project NFS is being monitored centrally and all queries be addressed to this office as hitherto fore.”</p> <p>In the last meeting, representative from Defense side had not attended; hence no discussion in this regard was carried out.</p>	<p>BSNL: - No information about Nodal Officers from Defence has been received so far.</p> <p style="text-align: center;">Defense may furnish latest status.</p> <p style="text-align: center;">(Action: Defense)</p>
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B.7 Scrutiny report issued by CEA:

<p>In the last meeting, it was discussed that in order to avoid delay in processing of PTCC cases, Power Utilities shall respond to scrutiny reports of CEA and BSNL. It has been observed that Power Utilities are still not responding to CEA scrutiny report.</p>	<p style="text-align: center;">(Action: Power Utilities)</p> <p style="text-align: center;">Members may deliberate.</p>
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B.8 Pending PTCC proposals:

<p>In the last meeting, DE SZ informed that month-wise details of PTCC cases in South Zone for which BSNL Telecom details are pending are being sent by DGM A/T, Chennai to the concerned territorial circles (Chairman, SLPTCC) for follow-up. CE, CEA suggested that the same practice may be followed by other zones also.</p>	<p>In the last meeting 160 CLPTCC cases were reported pending, Out of 160 cases, 71 cases pending at BSNL side due to non submission of TD. Out of 71 cases, TD of 54 cases already submitted. Meanwhile 62 RAC has also been issued. Every Zonal DE PTCC is being monitored the cases regularly for which Telecom details are pending. They have maintained a communication through phone, correspondence or face to face interaction. Pending cases due to TD is discussed in SLPTCC meeting.</p> <p style="text-align: center;">ITEM MAY BE CLOSED.</p>
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B.9 PTCC approval of HVDC Earth Electrode

<p>Based on the decisions taken in 104th CLPTCC meeting a Sub-Committee comprising members from BSNL CEA and PGCIL under the chairmanship of PGM BSNL EZ was formed. The sub-committee held its first meeting on 13.04.2018 based on which, PGCIL submitted PTCC proposal for 33 km long 132 kV HVDC Earth Electrode line from Alipurduar to Mathabhanga. CEA would compute induced voltage.</p> <p>Further it was decided to include members from CPRI and PRDC in the sub-committee. The second meeting of sub-committee, including one member each from CPRI and PRDC, was held on 25.10.2018. In the discussions, CPRI suggested that transient DC fault current frequency of 50 Hz can be considered as the worst case which gives the maximum Induced Voltage (IV) magnitude using the formula being considered by CEA under normal cases. CPRI opined that the IV may be computed by considering 50 Hz (worst case) as was done in \pm 500 kV HVDC Mundra - Mahindergarh line.</p> <p>Following was decided:</p> <p>(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.</p> <p>(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.</p> <p>During the last CLPTCC meeting, it was decided that</p> <p>(1) Till the CPRI study report is received, PTCC proposals for HVDC lines would be sent in the same way as PTCC proposals for</p>	<p>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. NF Railway had also completed survey in Feb 19 and asked Power grid to collect the report from them for sending to CEA. In this regard DE (PTCC) ER Kolkata, has also intimated to CGM(Project) ER-II Kolkata vide letter dt 11/04/19.</p> <p>(1) CPRI study report has not been received till date. BSNL has forwarded CPRI letter dated 16.12.2018 (Enclosed as Annexure no. V) to the Chief Engineer PCD O/o CEA New Delhi. CPRI has written:</p> <p>“It was noted in the gist of meeting that CPRI will explore the possibility of carrying out simulation studies to compute the transient fault currents. As noted above and in gist of meeting, if the available PGCIL data is used for IV calculations, further study by CPRI is not required. However, if it is desired to have the fault study be conducted by CPRI, it is felt essential to have a meeting of all the concerned with our colleagues at Power System Division, CPRI Bangalore at a mutually convenient date and time at Bangalore to understand and discuss the scope, data required for modelling etc. and conclude on the matter. As far as</p>
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<p>(2) AC lines are being sent. PGCIL, SR-I was instructed to submit complete technical details of Raigarh-Pugalur HVDC line to the sub-committee for examination at the earliest.</p> <p style="text-align: center;">Members may deliberate.</p>	<p>exploring the possibility of conducting the study free of cost is concerned, kindly note that the matter cannot be decided by us and needs to be put up to the competent authority.”</p> <p>CEA suggests that an interim arrangement for IV calculation in case of HVDC lines shall be decided until final decision is taken.</p> <p>(2) Complete technical details of Raigarh-Pugalur HVDC line has not been submitted by PGCIL SR-I.</p> <p style="text-align: right;">A letter dt 24/04/2019 (Annexure no.VI) has been written by Shri.A.K.Sinha, chairman sub-committee to the PGCIL, AP for early submission.</p>
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B.10 Whether PTCC approval is needed for power Cables:

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

Accordingly, BSNL has issued the guidelines vide letter dated 13.03.2019 (**enclosed as Annexure-VII**). CEA has following suggestions:

As per BSNL letter	CEA's suggestions
<p>(1) Power Utilities shall forward Railway NOC to concerned zonal DE (PTCC) / SDE (PTCC) and BSNL SSAs</p>	<p>The IV on Railway telecom circuits are much less (about 20 %) than IV on BSNL telecom circuits. Hence, IV calculation may be waived off for Railway telecom circuits as decided for BSNL cables. CEA suggests that Railway & Defence NOC may be waived off for PTCC clearance of UG power cables of 33 kV and less.</p>
<p>(2) I. The power cables of capacity 33 kV DC and less will be laid at a minimum depth of 1.2 meters below the earth surface</p>	<p>Minimum depth of laying for power cables under 33 kV is already given at clause 6.3.2, page 137 of PTCC Manual (enclosed as Annexure-VII (A)). CEA opines that this may be considered in the guidelines</p>
<p>(2) II. The minimum separation between the bottom of telecom cables and power cable will be maintained as 0.6 meter for 33 kV Double circuit/ 0.3 meter for 33 kV Single circuit and less as case may be</p> <p style="text-align: right;">Members may deliberate.</p>	<p>Point no. (ii), page 171 of PTCC Manual (enclosed as Annexure-VII.B) states: "The value of minimum clearance for underground power cables to be kept as 0.3 meters for 33 kV and less and 0.6 meters for 33 kV and above." CEA opines that separation may be taken as 0.3 meters for 33 kV (both S/C and D/C) and below UG power cables</p>

B.11 Agenda raised with permission of Chair

As per PTCC Manual when the induced voltage is between 430 V and 650 V the protection cost is borne by BSNL. When the induced voltage is more than 650 V the protection cost is borne by the lateral entrant. The charging permission is given by BSNL after protection work is completed. KPTCL informed that there have been cases more than 4 years old where BSNL 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)

In the last meeting, it was decided that as per the clause 7 at page no. 145 of PTCC Manual, in case of Induced Voltage ranging between 430 V and 650 V, the energization of EHT power lines would not be held up for want of installation of GD tubes on telecom lines.	Members may deliberate
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Case-II (Induced voltage is beyond 650 V and protection cost is to be borne by Power Utility)

CGM BSNL Jabalpur vide letter dated 30.07.2018 had issued guidelines for protection works to be carried out in case Induced Voltage is beyond 650 V. In the last meeting, CE CEA stated that the letter should be modified as there are no time limits prescribed in the letter for issuing of RAC and Energization approval..	The letter dt 30/07/2018 has been modified and time limits has included in new letter dt 11/03/2019 and is enclosed at Annexure-VIII . This para may be closed.
It was brought to the notice that some railway zones do not adhere to PTCC time limits for furnishing telecom details and for issuing NOC. It was provisionally decided that in case Railway telecom details are not received within the time limit prescribed by PTCC Manual CEA/Power utilities would compute IV from the available railway details in the topo map and would be considered as deemed Railway details. If NOC is not issued by Railway as per time limit prescribed in PTCC manual then it will be considered as deemed NOC. CLPTCC observed that as these provisional decisions have been taken in the absence of any representative from Railways so it would be prudent that before implementation these provisional decisions are conveyed to Railway Board with the request to send the representative in the next CLPTCC meeting. CEA as follow up has written a letter to Railways on 23/7/18. Representative from Railway side has attended last meeting but no discussion carried out.	Members may deliberate

B.12 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. DGM EHT(C), OPTCL informed that cases are pending due to non receipt of NoC from Railway (ECR) Action : By OPTCL & ECR	DE East Zone Kolkata: Till yet no action has yet been taken by OPTCL therefore nos. of PTCC cases of 132KV are increased from 18 (Last meeting at Hyderabad) to 23. Out of these 23 cases, 1 case is pending since 2012, 2 cases since 2013, 2 cases since 2014, 2 cases since 2015, 5 cases since 2017, 9 cases since 2018 and 2 cases of current year. In this regard, DE EZ Kolkata has written letters dt 20/12/18 & 26/04/19, to Chief engineer, PCD, O/o CEA New Delhi.
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B.13 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 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.	DE EZ Kolkata: Action has already been taken so item may be closed.
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B.14. Private power utilities may be given power to offer online :

In the last meeting, it was decided that Since Private power parties are not 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 submit the proposal to SEBs, who in turn will scrutinize, authenticate the documents including the topo map and upload the proposal in the PTCC portal online. 2. For EHT power proposals of 220 kV and above, the present procedure of registering the cases as offline case by DET PTCC after getting scrutiny report from CEA, New Delhi will follow. 3. Creation of user id for private parties in the PTCC portal will be considered during the development of version 2 of the application. Members	(1) BSNL/SEBs may inform if this practice is being followed. (2) BSNL may inform the status/feasibility of inclusion of user id for private parties in version 2 software. Members may deliberate.
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B.15 PTCC cases having induced voltages greater than 650 Volts:

In the last meeting, it was decided each case involving induced voltages greater than 650 V, where payment for protection through GD tubes is to be made by Power Utility, should be discussed in the SLPTCC meetings.	BSNL: Such cases are discussed in SLPTCC meeting. Out of 13 cases, 9 cases have cleared and updated statuses of remaining 4 cases are enclosed at Annexure – IX.
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C. NEW AGENDA

AGENDA FROM BSNL (DE SZ CHENNAI) :

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

In MOM of 105th CLPTCC meeting held at Kochi, Kerala State on 10th Nov 2017, under item no. D2, it is mentioned that “ It was decided that the PTCC RAC where there is no requirement of protection would be considered as Deemed EA”.

Based on minutes of 105th CLPTCC meeting, on receipt of Induced Voltage values from SEB/CEA,ND in DE PTCC office, if the value of Induced Voltage is less than 430 volts, RAC is being issued from DEPTCC office with the recommendation of No GD tube protection and not mentioning of EA clause. In the recently conducted SLPTCC meeting held on 26/04/2019 at Chennai, Member Telecom SLPTCC, Tamilnadu Circle, Chennai insisted to mention about the EA clause i.e. it is to be stated in RAC that “Issuing of Energisation Approval is not required as there is no requirement of protection and hence RAC itself is considered as Deemed EA”. Suitable guideline may be issued.

Members may deliberate.

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

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

In South Zone, one EHT power line proposal of 230 KV is submitted by Private Power Utility to the all concerned including RAC & EA issuing Authority. On receipt of RAC, EA issuing authority while scrutinising proposal with RAC has found that the Route length & EPR zone value mentioned in RAC differs

with route length mentioned Questionnaire & topomap & EPR zone value which was received directly from private party in their office. Hence they have returned the RAC to DE PTCC as they could not process further for EA as the route length and EPR zone value differs.

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

Hence it is suggested that the same procedure may be considered for private power utility EHT cases of 220 KV and above also through SEBs so that the dispute in Questionnaire & topo map can be avoided and all EHT power line referred by Private Power Utility are registered as online and also the additional time consumption for PTCC clearance (Time consumption for getting scrutiny report etc) may be saved. Else suitable guidelines may be issued.

Members may deliberate.

AGENDA FROM CEA NEW DELHI:

C.3 EPR Calculation

As per PTCC Manual, EPR shall be calculated at maximum fault current. Presently it is calculated on Single Line to Ground fault. Maximum fault current can be either three phase or single phase. CEA opines that Power utility shall calculate EPR on maximum fault current and furnish, maximum fault, single phase and three phase fault currents at substation in the PTCC Proposal.

Members may deliberate.

C.4 Maps not being sent by certain Railway zone

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

Members may deliberate.

C.5 BSNL Telecom details

a) Western region has submitted BSNL details without any annexure. CEA received only the marked topo map without annexure. (copy enclosed at **Annexure- X**)

b) In some cases, the name of the line given in the annexure and cover letter do not match. (copy enclosed at **Annexure- XI**)

Members may deliberate

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

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

Members may deliberate.

D. CLPTCC CASES

D.1 Non Receipt of IV calculation from CEA:

DE EZ Kolkata (BSNL) and DE SZ Chennai has sent agenda for the meeting; a copy is enclosed at **Annexure- XII & XII.A**

Members may deliberate

D.2 Agenda received from MPPTCL:

Madhya Pradesh Power Transmission Company limited (MPPTCL) has sent agenda for the meeting, a copy is enclosed at **Annexure- XIII.**

Deliberation given in the Annexure itself

D.3 Agenda received from GETCO:

Gujarat Energy Transmission Corporation Limited (GETCO) has sent agenda for the meeting; a copy is enclosed at **Annexure- XIV.**

Deliberation given in the Annexure itself

D.4 Agenda received from KSEB:

Kerala State Electricity board has sent agenda for the meeting; a copy is enclosed at **Annexure- XV**

Deliberation given in the Annexure itself

D.5 Agenda received from CSPTCL:

Chhatisgarh state power Transmission Company Limited has sent agenda for the meeting; a copy is enclosed at Annexure - XVI. **Deliberation given in the Annexure itself**

D.6 MSETCL Agenda:

In the last meeting Maharashtra State Electric Transmission Company Limited was submitted agenda about pending PTCC cases (Total 15 cases).	DE WZ: (1). Out of 15 cases, CLPTCC cases were 3 only and SLPTCC cases were remaining 12 cases. (2). RAC has been for 2 cases and updated status of remaining 1 case is enclosed at Annexure- XVII.
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D.7 Agenda of PGCIL SRTS-II :

In the last meeting PGCIL, SRTS-II was submitted agenda about pending PTCC cases (Total 3 cases).	DE SZ: RAC has been issued for 2 cases and only 1 case is remaining. Updated status enclosed at Annexure- XVIII.
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Deliberation given in the Annexure itself

D.8 Agenda of PGCIL WRTS-II :

In the last meeting PGCIL, WRTS-II was submitted agenda about pending PTCC cases (Total 5 cases). Deliberation given in the Annexure itself.	DE WZ: RAC has been issued for 3 cases and only 2 cases are remaining. Updated status enclosed at Annexure- XIX.
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Deliberation given in the Annexure itself.

D.9 KPTCL Agenda:

In the last meeting Karnataka Power Transmission Corporation Limited was submitted agenda about pending PTCC cases (Total 18 cases).	DE SZ: RAC has been issued for 11 cases and only 7 cases are remaining. Updated status enclosed at Annexure- XX.
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Deliberation given in the Annexure itself.

D.10 TSTRANSCO Agenda :

In the last meeting Telangana State Power Transmission Company Limited (TSTRANSCO) was submitted agenda about pending PTCC cases (Total 15 cases).	DE SZ : RAC has been issued for 3 cases and updated status of remaining 12 cases is enclosed at Annexure- XXI.
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Deliberation given in the Annexure itself.

D.11 PSTCL, PATIALA Agenda :

In the last meeting Punjab State Transmission Corporation Limited (PSTCL) was submitted agenda about pending PTCC cases (Total 8 cases).	DE NZ: RAC has been issued for 6 cases and updated status of remaining 2 cases is enclosed at Annexure- XXII.
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Deliberation given in the Annexure itself.

D.12 RRVPNL, Jaipur Agenda:

In the last meeting Rajsthan Rajya Vidyut Prasaran Nigam Limited (RRVPNL) was submitted agenda about pending PTCC cases (Total 6 cases).	DE NZ: RAC has been issued for 5 cases and updated status of remaining 1 cases is enclosed at Annexure- XXIII.
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Deliberation given in the Annexure

Revised Standing agenda for SLPTCC meeting as per discussion in 107th CLPTCC meeting

Half Yearly Report regarding Energization of Power Transmission lines.

(Name of Power Utility.....)

(This proforma will have to be submitted by Power utilities on 30th September & 31st March of every year.)

1. Details of HT/EHT power lines Energized without PTCC clearance in the state as on....			
Sl.No	Name of the Power Line	Length of the power line	Date of Energization

2. Details of HT/EHT power lines referred for PTCC clearance and awaiting for Route Approval Certificate in the state as on ...				
Sl.No	Name of the Power Line	Length of the power line	Unique Registration number & Request number allotted in the PTCC Web portal	Remarks if any

3 . Details of HT/EHT power lines Energised with PTCC Route Approval Certificate(RAC),but without Energization approval in the state for financial year as on ...					
Sl.No	Name of the Power Line	Length of the power line	RAC particulars with date	whether RAC is issued with Deemed Energization certificate	Whether Energisation approval obtained from BSNL Territorial Circle . If obtained, Approval particulars with date

Signature :
Name & Designation of Power Utility:



ASSAM POWER DISTRIBUTION COMPANY LTD
CIN : U40109AS2003SGC007242
O/O THE CHIEF GENERAL MANAGER (PP&D), APDCL
6th Floor, Bijulee Bhawan,
Paltanbazar, Guwahati-781001

Annex - II

No. APDCL/ R-APDRP/ BSNL-PTCC/ 2018/ 3155

Date: 12.12.18

To

The Principal General Manager (East)
QA & Inspection Circle
QA Bhawan EP-GP Block, Sector-V, Salt Lake, Kolkata-91

Sub: Regarding PTCC clearance and nomination of DISCOM member thereof.

Ref: 1) Your letter no. QA & Insp/Kol/PGM/Tech/Cont/Genl/2018-19/57
Dtd at Kolkata the 11th December, 2018.

Sir,

With reference to the above, the undersigned would like to nominate the following officer as a member to PTCC from APDCL:

1. Sri Pranjit Handique, AGM, R-APDRP Cell, APDCL (Contact No: 94353 25552).

We are going to acquire the required PTCC Clearance Certificate from your end for the lines which are going to be commissioned by APDCL in future.

We will be much obliged for your kind advice.

This has the approval of MD, APDCL.

Yours faithfully,

J Borah
(J Borahakur) 12-12-18
Chief General Manager (PP&D), APDCL

Memo No. APDCL/ R-APDRP/ BSNL-PTCC/ 2018/ 3155 (a)

Date: 12.12.18

Copy To:

1. PS to the MD, APDCL, Bijulee Bhawan, Guwahati for kind information of MD, APDCL.
2. The Chief Engineer (LD&T), CEA, New Delhi for kind information.
3. The NO. R-APDRP, APDCL, Bijulee Bhawan, Guwahati for information and necessary action.
4. Sri Pranjit Handique, AGM, R-APDRP, APDCL for information and necessary action.

স্বাক্ষর
০২/১২
২০/১২

J Borah 12-12-18
Chief General Manager (PP&D), APDCL



Bihar State Power Transmission Company Limited, Patna

(A subsidiary company of Bihar State Power (Holding) company Limited, Patna)
CIN-U40102BR2012SGC018889

[Save Energy for Benefit of Self & Nation]

Head Office : 4th Floor, Vidyut Bhawan Bailey Road , Patna - 800001

Website: www.bsptcl.in

Email Id: telecom.bsptcl@gmail.com

Letter No. 105

Date 27/02/19

Tok/PTCC/06/2018

From,

G.K.Choubey
Chief Engineer (System Operation)
BSPTCL, Patna

To,

✓ The Chief Engineer, (PCD) & Co-chairman
CEA, New Delhi

Sub: - Proposal for conducting a training course on Power telecom co-ordination.

Sir,

With reference to the above, it is to say that BSPTCL officials (Telecom wing) are interested in attending a training course and workshop on PTCC for understanding the theoretical and practical aspects of co-ordination. Considering the fact that training will impart guidelines on PTCC clearance procedure and method of induced voltage calculation in the affected telecommunication section, we request you to kindly arrange a training program for BSPTCL.

Please acknowledge and confirm at the earliest so that nominee details will be furnished to you.

Yours faithfully,

G.K.Choubey
27/2/2019

(G.K.choubey)

Chief Engineer(System Operation)

26/04/2019

Gmail - Regarding proposal for conducting a training course on Power telecom co-ordination

Annex - IV



Chief Engineer LDNT <celdntcea@gmail.com>

Regarding proposal for conducting a training course on Power telecom co-ordination

Chief Engineer LDNT <celdntcea@gmail.com>
To: Telecom Dept <telecom.bsptcl@gmail.com>

Tue, Mar 26, 2019 at 3:31 PM

Sir

Vide reference Tele/PTCC/06/2018/105 dated 27.02.2019, your letter regarding PTCC procedural training to BSPTCL officials has been received in CEA. In this regard, it is to inform that the training duration will be of 3 days (10:00 AM to 04:30 PM) and there will be no charges for the same. However, no fooding/lodging facility shall be provided by CEA.

You are therefore requested to provide the list of officials and tentative date for the training.

Regards

Prateek Srivastava

Assistant Director

Central Electricity Authority

Ph. 8017006309

[Quoted text hidden]



DET PTCC EASTERN REGION <detptccer@gmail.com>

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

Pradeep Nirgude <pmnirgude@cpri.in>

Sun, Dec 16, 2018 at 12:06 PM

To: detptccer@gmail.com

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

Dear sir

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

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

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

With best regards

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

[Quoted text hidden]

--

3 attachments

O/o D.E.(PTCC), Eastern Zone,
Inspection & QA Circle,
QA Bhawan,EP-GP Block, Sector V,
Salt Lake, Kolkata-700091
Email-detptccer@gmail.com
Mob: 9433400096, Land no.033-23573724



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

QA&INSP/PTCC/KOL/TECH CORR/2018-19/74

Dated, at Kolkata, the 24.04.2019

To

Sri A.C. Sankaraih,
AGM(Engineering),PGCIL,
765/400 KV Kurnool S/S,
Andhrapradesh.

Sub:- Discussions on the 2nd meeting of subcommittee reg. HVDC cases held on 25th October'2018 at CEA,NewDelhi.

Ref. - Gist of discussion of the 2nd meeting of the subcommittee held on 25th October 2018 at CEA, NewDelhi letter no.CEA/PCD/PTCC/106_FOLLOW-UP/2363 dated 05.11.2018.

Sir,

With ref. to sub. above, regarding decision taken in the meeting held on 25.10.2018 at the conference room of CEA, NewDelhi to examine the induction affects of HVDC Transmission lines at nearby telecom circuits . Pl. refer the M.O.M. dated 05.11.2018.

In the meeting, PGCIL had 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-1 would submit complete technical details to the Sub-Committee for examination.

You are requested to do the needful regarding submission of complete technical details to the Chairman/ Co-Chairman of the Sub-Committee for examination.

The letter is issued with the approval of the chairman of the committee.

Divisional Engineer (PTCC) /Eastern Region,
QA & Insp. Circle, BSNL, Kolkata.

Copy for information to :-

- 1) The C.G.M., QA & Insp.Circle, Jabalpur.
- 2) The Chief Engineer(Co-Chairman), PCD Division, CEA, NewDelhi.

कार्यालय मुख्य महाप्रबंधक
गुणवत्ता आश्वासन एवं निरीक्षण परिमंडल
जबलपुर

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



भारत संचार निगम लिमिटेड
(भारत सरकार का उपक्रम)
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No. CGM/QA & I/LP-2015/107TH CLPTCC MEETING/41, Dated at Jabalpur, the 13/03/2019

To

All CGM BSNL Telecom circle,

All Power authority,

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

Ref No: Minutes of 107th CLPTCC meeting, held at Hyderabad on 14/12/2018.

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

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

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

- (1) Concerned Zonal DE (PTCC)/SDE (PTCC) and BSNL SSAs are to be intimated about the laying of any conversion/proposed UG power cable of capacity 33KV DC (Double circuit) and below along with the name of power cable, route length, Railway NoC, EPR values of the new substations and topomap so that telecom authorities can depute their representatives during digging and laying of power cables.
- (2) Also a self certificate as given below should be submitted by the concerned Power authority :
 - I. The Power cables of capacity 33KV DC and less will be laid at a minimum depth of 1.2 meters below the earth surface.

Annex VI
(Pg 2/2)

- II. The minimum separation between the bottom of telecom cables and power cable will be maintained as 0.6 meter for 33KV Double circuit/ 0.3 meter for 33KV SC (Single circuit) and less as case may be.
- III. Power cable will be painted in RED or a mark of spark in "red" will be made available on sheath of the cable for identification similar to the marking of the telephone handset emblem on outer sheath of telecom cable.
- IV. For identification of UG power cable, route markers will be provided.
- V. Non existence of any BSNL assets within the EPR zone of the proposed Substation will be ensured before energisation of the power cable in co-ordination with BSNL Authorities.
- VI. In case of occurrence of any damages to BSNL Personal or assets, after due energisation of the power cable, power authorities are liable to the charged for the compensation towards such damages to BSNL assets.

This is issued with approval of competent authority.

P. K. Jais
13/3/19
Asstt. General Manager (Technical)
Mobile No. 9425803008

Copy to :

- (1) All PGMs / GM , QA & Inspection circle for information pl ,
- (2) Chief Engineer, PCD Division & Co-chairman of 107th CLPTCC meeting, Central Electricity Authority, New Delhi for information pl ,
- (3) Director, PCD Division & Secretary (Power side) CLPTCC, Central Electricity Authority, New Delhi for information & with request to circulate this letter to all power utilities, and
- (4) All Zonal DE (PTCC), BSNL QA & Inspection circle for information & for circulation to all BSNL telecom circle and all State power company (Transmission & DISCOM) and Power Grid corporation, under their jurisdiction.

APPENDIX-VIII TO CHAPTER-1

(Refer Para 6.2.6)

Recommendations Based On the Minutes of the Meeting Held between Delhi Electric Supply Undertaking (DESU) and Department Of Telecommunications Held on 23rd March 1987

1. (i) **Para 6.3.2, Page 16 of IS: 1255/1983**
 Due to various practical difficulties, particularly the aspect of pushing up the cost of laying of cables in case of increased depths, depths as proposed by Telecommunication Department, are not accepted. The existing depths as provided on Page 16 of IS: 1255 may stay.
- (ii) **For Road crossing of all Cables.**
 The cable shall be laid through the adequate size of pipes crossing the road. Along the roadside concrete covers with marking on all cables of 11 kV and above shall be provided. (The present practice is that for 11 kV cables bricks are provided to cover the cable, which is considered not an efficient and durable arrangement).
2. (i) **Para 6.3.3 – Clearance**
 In Delhi it may be difficult to obtain proposed clearance of 0.6 meters between Power Cable and Telecommunication Cable due to pressure on space allocated for routes to provide various underground services, hence it may not be possible to achieve. However, in other places in India wherever it could be achieved should be provided. Accordingly, it was agreed that Para on Clearances should be reworded as under:
- Power Cable to communication cable Preferably 0.6 meters but not less than 0.3 meters at any point.
 - For identification of the underground cable provision for route markers should be made suitably to read as under
 - Route Markers - Suitable route markers/indicators indicating disposition of the cable be provided.

Note: Para 6.3.2 and 6.3.3 of IS: 1255/1983 is reproduced below for ready reference.

Annex VII
(Pg 2/2)**6.3.2 Depth**

The desired minimum depth of laying from ground surface to the top of cable is as follows:

High voltage cables, 3.3 kV to 11 kV rating	: 0.90 m
High voltage cables, 22 kV, 33 kV rating	: 1.05 m
Low voltage and control cables	: 0.75 m
Cables at road crossings	: 1.00 m
Cables at railway level crossings (measured from bottom of sleepers to the top of pipe)	: 1.00 m

6.3.3 Clearance

The desired minimum clearances are as follows:

Power Cable to power cables	:	Clearance not necessary; however larger the clearance, better would be current carrying capacity.
Power cables to control cables	:	0.20 m
Power cable to communication cable	:	0.30 m
Power cable to gas/water main	:	0.30 m

Inductive influence on sensitive control cable on account of nearby power cables should be checked.

Annex-VIII
(Pg 1/2)

Central Electricity Authority

APPENDIX-XVIII TO CHAPTER-1 .

(Refer Para 6.12.1)

Guidelines for Laying Underground Power Cables Greater Than 33 kV in Proximity with Telecom Cables**Para 2.11 of Minutes of 82nd Central PTCC Meeting held at Lucknow regarding power cables of more than 33 kV.**

The guidelines for laying of underground power cables greater than 33 kV in proximity with the telecommunication cables framed by the Central PTCC has been accepted by the Central Electricity Board in its 39th Meeting held in December 2002. The same are reproduced below for information and reference.

Sl.No.16

Agenda Item No. : 3.39.2002
 Name and address of the Proposer : Shri G. Kesava Rao
 Chief Engineer (LD & T) Division, CEA
 Existing Rule No. : 87-relating to PTCC

and

Sl. No. 22

Agenda Item No. : 9.39.2002
 Name and address of the Proposer : Shri P.K. Khindri
 Chief General Manager
 Department of Telecommunications
 Training & Development Circle, Jabalpur
 Existing Rule No. : 87- A (New Rule)

The above two proposals were clubbed for discussion. The proposers explained the reasons for the amendments and stated that the existing specification of the Bureau of Indian Standards covers cables only up to 33 kV rating. The PTCC (All India) was constituted in 1949 with joint participation of the Central Electricity Authority, Ministry of Communication, Ministry of Railways, Ministry of Defense, BSNL & SEB's and meets regularly at intervals of six months. It has constituted a sub-committee in which CEA is also a member. The sub-committee had approached the Bureau of Indian Standards for inclusion of "PTCC Guidelines" in the existing specification of BIS. However the BIS has not accepted.

Annex-VIII
(Pg 2/2)

Central Electricity Authority

Shri Mukherjee, BIS, Shri Ram Swarup, Director, Central Electricity Authority, Shri Panigrahi, DDG, Dept. of Telecommunications, Shri Subramanian, CEI to Government of Tamil Nadu, Shri Jain, Director(Technical), HVPNL, Shri Durairaj, Chief Engineer (Planning), TNEB, Shri Vaishnav, CEI to Government of Gujarat, and Shri Aggarwal, Chief Engineer(EI), CEA, participated in the detailed discussions and gave their view points. Shri Jain, Director (Technical), HVPNL has stated that clearance of 0.3m up to 33 kV rating shall be retained as per existing BIS. He also opined that 0.6 m clearance between power cables greater than 33 kV and telecom cables may be adopted and proposed amendment 87(b) can be covered under rule 87A. Subsequent to the discussions the following modifications to the proposed amendments are accepted;

- (i) Suitable coverage to underground power cables in the form of changed heading in the form of Rule 87A to be made.
- (ii) The value of minimum clearance for underground power cables to be kept as 0.3 meters for 33 kV and less and 0.6 meters for 33 kV and above.
- (iii) Power cables greater than 33 kV to be laid at a minimum depth of 1.2 meters.

कार्यालय मुख्य महाप्रबंधक
गुणवत्ता आश्वासन एवं निरीक्षण परिमंडल
जबलपुर
Technical Section
O/o The Chief General Manager,
QA & Inspection circle,
3rd Floor, Sanchar vikas bhawan,
Residency road, Jabalpur-482001
Off No- 0761-2628525
E-mail Id : agmsw@rediffmail.com



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No. TD/LP-2014/2018-19/60,

Dated at Jabalpur the, 11/03/2019

To

All DE (PTCC),
QA & Inspection Circle

Subject: Guidelines for issuing PTCC RAC, when IV is more than 650 Volts.

Ref: This office earlier letter no.TD/LP-2014/2017-18, Dated at Jabalpur, the 30/07/2018.

It is observed that with the ongoing practice of issuing PTCC RAC, the Power Authorities are energising the power line without getting the energization approval from the competent authority of BSNL, even when there is protection recommended in the Route Approval Certificate issued by the concerned DE(PTCC), when the voltage likely to be induced on the BSNL Telecom Lines/cables due to the proposed power line is greater than 650 volts. Such energization of power line without proper protection to Telecom assets is a violation from PTCC code of practice and is hazardous to Telecom assets & personnel and causes disruption in the service of BSNL and huge loss to BSNL. So it is decided that the following procedure is to be followed hence forth while issuing Route Approval certificate by the concerned DE(PTCC), for all cases where IV is more than 650 volts.

1. The concerned IV calculating authority i.e. CEA, New Delhi or the SEBs, as the case may be, may forward the Low Frequency (LF) Induction Comments intimating the voltage likely to be induced on the existing BSNL Telecom lines/cable due to any proposed power line.
2. DE(PTCC) concerned may scrutinize the LF comments so received and Issue Route approval certificate for the power line, only in cases where the voltage likely to be induced on the existing BSNL Telecom lines/cable due to any proposed power line is less than or equal to 650 volts, on receipt of NOCs from the concerned Railway authorities, Telecom Maintenance Region of BSNL (If IV for some telecom lines/cables is more than 430 V and up to 650 V) and Defence.
3. In case the voltage likely to be induced on the existing BSNL Telecom lines/cable due to any proposed power line is more than 650 volts (for the protection cost to be borne by Power utility), DE (PTCC) shall intimate to the concerned SSAs of BSNL informing the details of the Telecom lines/cables likely to be affected due to the proposed power line, along with the type of protection to be carried out on the Telecom lines/cables before energization of the power line.
4. BSNL SSAs shall immediately raise a demand note within the time limits prescribed in the PTCC Manual, towards the cost of expenditure for the protection work to be carried out on the Telecom lines/cables as per the recommendation of DE(PTCC) and send it to the concerned

Pran D.K. Jais
11/3/19

Annex IX
(Pg 2/2)

Power authorities, with a copy endorsed to DE(PTCC) and the BSNL authority competent to issue Energization approval for the power line.

5. The concerned Power authorities shall pay the amount as per the demand note raised by BSNL authorities within the time limits prescribed in the PTCC Manual and intimate to the concerned BSNL SSA.

6. BSNL authorities on receipt of payment from the Power authorities shall execute the protection work as recommended by DE(PTCC) vide para (3) above, within the time limits prescribed in the PTCC Manual. The intimation regarding completion of protection work carried out by BSNL SSAs shall be intimated to the concerned DE(PTCC), who in turn shall issue Route Approval certificate incorporating or enclosing the completion report received from BSNL SSAs, NOCs from the concerned Railway authorities, Telecom Maintenance Region of BSNL and Defence.

7. On receipt of Route Approval certificate from DE (PTCC) concerned, Energization approval shall be issued by the concerned competent authority of BSNL.

8. The line shall not be charged until receipt of energization approval from the concerned competent authority of BSNL. The concerned BSNL SSAs shall keep watch, and inform the concerned DE (PTCC) if flouted.

9. The date of energization of the power line shall be intimated to all concerned.

10. The time limits for various steps involved in PTCC clearance are given below.

- | | |
|--|-------------|
| a) For quoting the charges and furnishing estimate by BSNL SSAs | - 4 weeks. |
| b) Arrangement for payment by power utilities | - 4 Weeks. |
| c) Execution of protective works by BSNL and intimating to DE (PTCC) | - 10 Weeks. |
| d) Issue of Route Approval Certificate by DE(PTCC) after receipt of Completion report on GD Tube protection work from Field BSNL SSAs. | - 1 Week |
| e) Issue of Energisation Approval by the head of the Telecom circle after receipt of Route Approval Certificate by DE (PTCC). | - 2 Weeks. |

All the DE PTCC is requested to bring above in notice of all Territorial Telecom circle and Electricity authorities under their jurisdiction.

This letter supersedes the office earlier Ir. no.TD/LP-2014/2017-18, Dated at Jabalpur, the 30/07/2018, regarding "guidelines for issuing PTCC RAC, when IV is more than 650 Volts.

This is issued with approval of competent authority.

Ran I. K. Jain
11/3/19
Asstt. General Manager (Tech)
Mobile No: 9425803008

Copy to,

- (1) All PGMs/GM, QA & Inspection Circle, for kind information pl.
- (2) The Chief Engineer (PCD) O/o CEA, New Delhi for kind information PI, and
- (3) The Director, PCD & Secretary (Power) CLPTCC O/o CEA New Delhi for information and with request to circulate this letter among all power utilities..

Status of PTCC cases with Induced Voltage more than 650V.

Sr. no	CEA Case No.	Name of Power line	Name of Power Utility	Date on which Demand note issued	Date on which amount deposited by Power Utility	Remarks
1.	RAJ-590	400KV D/C super critical Suratgarh-Babai Transmission line.	RRVPL, Jaipur.	29/01/19	25/04/19	North Zone: Provisional RAC issued on 25.06.18, prior to C.O guidelines dtd 30-07-2018. Completion report for protection work is awaited.
2.	MRA - 1126	765KV D/C Rajnandgaon-Warora Transmission line.	Raipur-Rajnandgaon-Warora TX LTD.	Issued	19/12/18	West Zone: Completion report for protection work is awaited.
3.	TNG -40	220KV D/C line from Kalwakurthy to proposed Solar power plant M/S Azure power India Ltd under NTPC 400MW solar power project in Telangana state.	TSTRAN SCO	Not raised till now.		South Zone: RAC issued on 02-07-2018 prior to C.O guidelines dtd 30-07-2018. Mahaboobnagar SSA not issued D/N
4.	TN-667	230/33KV Chandragiri Windfarm S/S to 230/400KV Tirunelveli new GIS pooling station TX line.	SUZLON	23.01.19	27.02.19	South Zone: RAC issued on 20.6.18 prior to C.O guidelines dtd 30-7-2018. Revised RAC issued on 19-9-18 , due to change in nomenclature of the line. Protection work is in progress and will be completed within May 2019 informed by Tuticorin SSA.

ANNEX-XII
MRA-1133

O/o DET (PTCC), Inspection circle,
3rd Floor, D-Wing, BSNL Admin Bldg.
Juhu Tara Road, Santacruz (West)
MUMBAI-400 054.
Email-detptccmbi@gmail.com
Tele no.022-26611530



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NO. IC/MBI/PTCC/MRA-2386 /14

Dated at Mumbai, the 05 .02.2019

To,
The Chief Engineer
CEA,
New Delhi - 16

Sub: Forwarding of Telecom details for PTCC route approval for 220 KV LILO on
Paras- Balapur M/C Line for 220 KV Malkapur S/S.

Ref:- MSETCL/ CO/ PS /S-I /PTCC/B-549 /No. 8620 Date 02.08.2017.

Please find enclosed h/w Topo Map duly marked for the Telecom Details/ checklist in
respect of above mentioned PTCC proposal vetted with signature.

- 1) Whereas Telecom details regarding above mentioned proposed power line has been received from BSNL field/ MSETCL Mumbai office.
- 2) Railway telecom detail forwarded to your office by Central Railway vide letter No. N. 153/PTCC/220 KV/MAH-672 dtd-24.08.2017.
- 3) It is requested to convey your I.V. calculation to Railway authority under intimation to this office with EPR detail.

Encl:- Route Maps with
Telecom details marked



Rahane
मंडल (C) अभियंता
मालापोली, मुंबई-५४.
Divisional Engineer
PTCC, Mumbai-54.

Shri. Reddy, D.D.

2 मार्च 2019
08/02/19

श्री. क. व. र.
12/02

ANNEX - XIII
MP-434 (Pg 1/2)

O/o DET (PTCC), QA & Inspection circle,
3rd Floor, D-Wing, BSNL Admin Bldg.
Juhu Tara Road, Santacruz (West)
MUMBAI-400 054.
Email: detptccmbi@gmail.com
Tele no. 022-26611530



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Faster than your thoughts
2010

No. IC/MBI/PTCC/MP-552

Dated at Mumbai, the 16.02.2019

To:
The Chief Engineer,
Central Electricity Authority,
New Delhi-16.

Sub.: Forwarding of BSNL Telecom details for PTCC proposal of LILO of 2nd Circuit of 220KV DCSS line from Nagda (400KV) to Neemuch (220KV) at proposed 220KV S/s Daloda [RL- 8.264 KM].
Ref.: Chief Engineer (Procurement), MPPTCL, Jabalpur office letter No. 04-01/PTCC/2423/TR-1/2402; Dated 28/05/2018.

Sir,

One copy of Telecom Details along with Route Map as received from Telecom Field Authority (TOM Mandasaur) is sent herewith for further necessary action at your end.

You are requested to convey your comments regarding L.F. induction on paralleling lines/ Cables under worst fault condition on proposed power line to this office.

Encl.: As above

Copy to:-

- (1) The Chief Engineer (Procurement), MPPTCL, Jabalpur.
- (2) The SDE (PTCC), Bhopal.

Rathor
मंडल अभियंता
पीटीसी, मुंबई-५४.
Divisional Engineer
PTCC, Mumbai-54.

Sir Addy, DD
मध्य प्रदेश शासन
२५-०२-१९

SDE

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24/2



Annex XIII
(Pg 2/2)

CEA Office Case No.:		Map Scale: 1:50,000			
DET (PTCC) Office Case No.: IC/MBI/PTCC/MP-55/2		Route Length: 3.928 Kms			
Railway Office Case No.:		Average SR Value: Ohm cms			
Name of Power Line		Diversion of 220KV DCDS Ratlam – Daloda line from Tower No. 234 to 220KV S/s Daloda			
S. No.	Name of Telecom Line/ Cable	Length of Parallelism in Kms.	Mutual Coupling in Ohms	Fault Current in Amps	Induce Voltage in Volts
	MANDSAUR SSA				
	SDOT Mandsaur				
(1)	Daloda Exch to Pragati Chouraha – 800 Pair				
(2)	Pragati Chouraha to Dhamnod – 50 Pair				
(3)	Pragati Chouraha to Jain Mandir Pillar – 400 Pair				
(4)	Jain Mandir Pillar to MPEB Office – 20 Pair				
(5)	Rly Station Chouraha to Rlt Station – 100 Pair				
(6)	Daloda Exch to Post Office – 200 Pair				
(7)	Post Office Pillar to Mandi – 50 Pair				
(8)	Post Office Pillar to Police Chouki – 20 Pair				
(9)	Daloda Exch to Dall Mills – 20 Pair				
(10)	Dhamnar to Guliyana – 50 Pair				
(11)	Dhamnar to Hatunia – 50 Pair				
(12)	Kachnara to Lasudiya – 50 Pair				
(13)	Nimbod to Dehri to Mijora – 50 Pair				
(14)	Nimbod to Khajuriya – 50 Pair				
(15)	Nimbod Exch to Nimbod Local – 50 Pair				
(16)	Semliya Hira to Patera – 50 Pair				
(17)	Semliya Hira to Rakoda – 20 Pair				
(18)	Amlabad to Sijpuriya – 50 Pair				
(19)	Amlabad to Rajakhedi – 50 Pair				
(20)	Rajakhedi to Richha Bachha – 20 Pair				
(21)	Sirsod Exch to Sirsod Village – 100 Pair				
(22)	Richha Lalmuha to Daloda Sagra – 50 Pair				
(23)	Amlabad to Guridiya Lalmuhwa – 50 Pair				
(24)	Pandliya to Lalmuha – 20 Pair				

CLPTCC cases of Eastern region are pending from CEA , New Delhi :

Sl. no.	Circle	Route name	Pending since	BSNL REMARK	CEA REMARK
01	Assam	400 KV DC(Quad) SILCHAR – MISA T/L (Offered by NER-II,TR.Ltd, Hojai,Assam)	08.11.2018	IV report not received from CEA	
02	JKD	765 D/C (Hexa zebra) RANCHI – MEDNIPUR (Offered by Power Grid)	24.12.2018	IV report not received from CEA	
03	JKD	220 KV DC Ulijhari to Gua T/L (offered by JUSNL)	18.05.2018	IV report not received from CEA	Praposal not received.
04	Odisha	220 KV DC transline from 400/220KV GSS at Benapanjari of PGCL to 220/33 KV GSS at Puri (offered by OPTCL)	20.01.2017	IV report not received from CEA	Railway pending.
05	Odisha	220 KV DC T/L BHANJANAGAR to newly constructed 220/132/33 KV Grid S/S at ASKA	03.04.2019	IV report not received from CEA	
06	WB	765 KV DC RANCHI – MEDNIPUR in WestBengal (offered by PowerGrid)	05.01.2019	IV report not received from CEA	
07	WB	400 KV DC CHANDITALA- KHARAGPUR LILO at MEDNIPUR in West Bengal (offered by PGCL)	24.12.2018	IV report not received from CEA	
08	WB	220 KV NewMelli –Legship (Offered by Energy &Power Dept. Govt. of Sikkim)	03.05.2017	IV report not received from CEA	Defence pending
10	WB	400 KV DC(quad)Jigmelling – Alipurduar T/L –WB portion.(offered by PGCL)	22.05.2018	IV report not received from CEA	
11	WB	LILO line at new PPSP 400 KV GIS of DC LILO line of 400KV PPSP-Arambag(Offered by WBSETCL)	18.09.2017	IV report not received from CEA	Praposal not received.
12	WB	400 KV DC(quad)Jigmelling – Alipurduar T/L – Assam portion.(offered by PGCL)	05.04.2018	IV report not received from CEA	Under progress
13	WB	132 KV Earth Electrode line at Alipurduar HVDC S/S (Offeredby PGCL)	28.07.2018	IV report not received from CEA	
14	WB	220KV DC RANGPO- SAMARDONG in Sikkim (Offered by PowerGrid)	05.12.2018	IV report not received from CEA	
15	WB	220 KV DC SAMARDONG – DIKCHUPOOL in Sikkim (Offered by PowerGrid)	05.12.2018	IV report not received from CEA	
16	WB	400 KV DC(Twin Moose) Beherampur – Bheramara (India portion)T/L-II (Offered by PowerGrid) BSNL NOC sent to CEA on 30.01.2019 by DE/PTCC(ER) through email	30.01.2019	IV report not received from CEA	

Annexure- XII.A**CLPTCC cases of Southern region are pending from CEA New Delhi:**

Sr. no	BSNL NO	ROUTE_NAME	BSNL TD SENT	Railway TD/NoC Sent
1	AND-742	LILO of 220 KV DC line from VTS/Tallipally (Nellore) to the propoSED Rentachintala 220 KV SS	BSNL IV recd on 05-04-2010.	TD sent on 05.07.2011 by SC Rly and by DE (PTCC), Chennai on 19.04.2013. CEA has to send IV for Rly ccts.
2	AND-977	400 KV DC LILO line from 400 KV Kadapa - Kolar line to 400 KV NP Kunta SS	13/04/16	19/02/2016 (SC Rly NOC)

3	AND-710	220 KV LILO line from VTS/Narketpalli 220 KV line to Chilakallu 220 KV SS	05/08/15	22/04/2009 (SC rly details)
4	SAP-1114	Hyderabad(Maheswaram) to Nizamabad	23.06.17	19.05.2016(SC Rly)
5	SAP-2041	From 220kv Ongole-Nellore line LILO point to proposed 220/132kv SS IFFCO	19.04.18	16.10.2017(SC Rly)
6	SAP-2108	220 KV DC LILO line from loc No.339 of 220 KV DC line Podili-Nellore to prop. 220/132 KV SS at Atmakur	16.08.18	25.02.2019(SC Rly)
7	SAP-2175	220 KV DC line from 400/220 KV Kalikiri SSto the proposed 220KV Kalikiri SS in Chittoor Dist	22.09.18	14.08.2018(SC Rly)
8	SAP-2359	220KV DC line from 400/220 KV Rachagunneri SS to prop .220/132/33 KV SS Naidupeta MP SEZ	22.04.19	27.03.2017 (SC Rly)
9	TN-1708	230 KV SC line on DC towers from the proposed Velaappaneri 23033 KV SS to the existing TANTRANSCO Kayathar400/ 230/110 KV SS (being established by M/s. Suzlon Energy ltd under (10/1) of EA 2003.	19/04/17	23.02.2015 (RLY NoC)
10	STN-1664	Laying of 1x1200sq.mm, Alu.XLPE Cable from Ambattur Illrd Main road SS to 230KV Thiruverkadu GIS SS.	21.11.17	06.09.2017.(S Rly)
11	STN-1786	400KV DC line with Quad Moose ACSR from Rasipalayam 400KV SS to Palavady 400KV SS	12.06.18	30.10.2017.(S Rly)
12	STN-1861	400KV DC line with Quad Moose ACSR from Rasipalayam 400KV SS to Anaikadavu 400KV SS	17.05.18	NOC recd vide dtd.20.09.2017 & proposal sent date 30/08/2017) (S Rly)
13	STN-1863	LILO of 230KV K.R.Thoppur-Ingur line at the proposed Thingalur 230KV SS.	12.04.18	NOC recd.(vide Ir. dtd.20.09.2017 & proposal sent date 19/08/2017) (S Rly)
14	TG-22	765 KV DC line from Dichipalli GIS to Wardha GIS	13/10/16	27-03-2017 (SC RLY)
15	AND-831	i)220 KV DC/SC line from Regumanigudda 220 KV SS to proposed 220 KV SS Jonnaladuda (stage I to II) ii)220 KV DC/SC line from Regumanigudda 220 KV SS to proposed 220 KV SS Gudipalligattu (stage I to I	09/05/17	RLY NOC RECD ON 19-03-2012
16	TG-11	Erection of 220 KV LILO Line from 220 KV Second Circuit of existing Durshed-Siddipet line to the prop Mallaram 220/66 KV Switching station in Medak dist	27/11/17	31.07.2015 (RLY NoC)
17	TG-13	Erection of 220 KV DC Line from 400 KV Veltoor SS to prop 220 kv Switching station at Thimmajipeta in Mahaboobnagar District	27/08/17	
18	TG-26	400 KV DC line from Dichipalli to Nizamabad	20/07/16	19-05-2016 (RLY TD).
19	STS-1686	Erection of 220KV DC/SC line from 220KV Minpur substation to M/s.Renew Saur Shakthi Pvt Ltd solar power plant	11.07.17	Not sent
20	STS-2290	Stringing of 2nd circuit on 220 kv line of M/S Renew Spolar Power-I from Loc No.1 to 27(D+0) (i.e) from Veltoor Substation to Loc.NO 27 and 220 KV DC/SC line from Loc. No 27 (D+0) to M/S Renew Solar Power-II	11.01.19	10.01.2018 (SC Rly)

21	STS-1312	220 kV LILO to 400 kV Suryapet SS from Chillakallu-Narketpally line	03.01.17	Not sent
22	STS-2086	Erection of TMDC line from 400kV Tukkapur SS to 400kV Chandulapur SS	03.04.19	30.04.2018 (SC Rly)
23	STS-1837	220 KV DC line from existing 400/220 KV SS Dichpally to proposed 143 MW Solar Power to be set up by M/S Renew Solar Energy Private Limited near Kankal(V) in Nizamabad Dist.	21.02.18	Not sent
24	STS-1260	Erection of 220KV LILO to 400/220/33KV Suryapet SS from Loc.No.168 (B+0) circuit-2 of Khammam-Miryalaguda DC line in Nalgonda district-Revised proposals	03.01.17	Not sent
25	STS-1275	220KV LILO to 400 kV Suryapet at Loc.187 of Khammam-Miryalaguda	03.01.17	Not sent
26	STS-2144	Erection of 220 KV DC line from proposed 220/11 KV Rampur SS to proposed 220/11 KV Rajeshwararaopet SS in Karimnagar District	27.12.18	Not sent
27	STS-2148	Erection of 220 KV DC line from proposed 400/220 KV Ramadgu SS to proposed 220/11 KV Rampur SS in Karimnagar District	27.12.18	28.08.2018(SC Rly)
28	SKL-1925	220 KV DC line through Multicircuit Multi Voltage (220 and 110 KV) towers from proposed 220 KV SS Kothamangalam to a location Karukadom to connect the existing Moolamattom (Idukki) SS	18.04.2018	14.09.2017(S Rly)
29	SKT-2191	Proposed 400KV Double LILO line from existing 400KV Nelamangala-Hoody DC line to proposed 400/220KV SS at Devanahalli Hardware Park in Bangalore Rural District.	27.09.2018	06.12.2018(SW Rly)
30	SKT-2305	Proposed 220KV DC LILO line on MC Towers from existing Belagavi-Chikkodi 220KV DC line to the proposed 220/110/11KV SS of M/s AEQUS SEZ Pvt Limited at Hattargi Village in Hukkeri Taluk,Belagavi District.	29.04.2019	Not sent
31	SKT-1249	220/66kV SS at Ayyanahalli(Under-Construction) to 220/11kV SS BMM Ispat Limited (HKT Mining Pvt Limited)	23.1.2019 (No assets intimation)	8.9.2016(SW Rly)
32	SKT-2114	400kV D/C Pavagada Devanahalli Transmission Line	3.12.2018	26.7.2018(SW Rly)
33	SKT-1739	400 KV D/C (Twin) Hiriyyur-Mysore Transmission Line	10.8.2018	10.10.2017(SW Rly)
34	SKT-2243	Proposed 220KV DC line on MC Towers from existing 220/66KV SS at Devanahalli Hard Ware Park to proposed 400/220KV SS at Devanahalli Hard ware Park in Devanahalli Taluk,Bengaluru Rural District.	15.2.2019	11.12.2018(SW Rly)

MADHYA PRADESH POWER TRANSMISSION COMPANY LIMITED (MPPTCL) :

SR NO	Name of Power Line	Date of Reference	Mumbai case mark	Remark by DE PTCC Mumbai
A.1.	400KV DCDS line from 400KV S/s Ashtato 400KV S/s Ujjain	05.04.18	MP-542	RD/NoC from WR and IV from CEA awaited.
A.2.	400KV DCDS line from Shri Singaji (TPS-II) 400KV S/s to Pithampur 400KV S/s	12.06.18	MP-555	NOC from WR waited since 21.02.19.
A.3.	400KV DCDS line from 765/400KV S/s Indore (PGCIL) to proposed 400KV S/s Ujjain (MPPTCL)	13.08.18	MP-563	RD/NOC awaited from WR since 30.8.18. IV awaited from CEA since 31.1.19.
A.4.	400KV DCDS line from 400KV S/s Pithampur to proposed 400KV S/s Badnawar	01.10.18	MP-574	RD/NOC from WR waited since 01.11.2018. IV from CEA awaited since 17.01.19.
A.5.	LILO of one circuit of 400KV Satna (PGCIL) - Bina (PGCIL) DCSS line at proposed 400KV S/s Sagar	14.11.18	MP-598	TD from BSNL awaited
A.6.	400KV DCDS line from Nagda (400KV) to proposed 400KV S/s Mandsaur (Sitamau) under phase-I project of Green Energy Corridor Scheme of MNRE, Gol.	13.02.19	MP-600	TD from BSNL and RD/NOC from WR awaited since 15.05.19.
A.7.	LILO of 400KV DCDS Nagda - Rajgarh line at proposed 400KV S/s Badnawar.	26.02.19	MP-609	TD from BSNL & RD/NoC from WR awaited 7.3.19.
B.1.	220 kV DCSS Shujalpur-Narsingarh line from existing 220 kV S/s Shujalpur to 132 kV S/s Narsingarh	20.02.16	MP-441	NOC awaited from WR since 26.11.18.
B.2.	LILO of 220KV Malanpur to Mehgaon DCDS line at proposed 400/220KV S/s CWRTL Morena (Rithora).	29.11.17	MP-512	NOC awaited from NCR since 27.11.18.
B.3.	220-KV DCDS line from 220KV S/s Sabalgarh to proposed 400/220KV S/s Morena CWRTL (Rithora)	22.01.18	MP-525	NOC from NCR awaited since 24.01.19.
B.4.	LILO of 2nd Circuit of 220KV Birsinghpur-Amarkantak line at 220KV S/s Shahdol.	19.01.18	MP-521	NOC from SECR awaited since 25.04.19.
B.5.	220KV DCDS line from 400KV S/s Khandwa (PGCIL) to proposed 220KV S/s Chhanera.	05.02.18	MP-529	NOC from WCR/SCR/WR awaited since 05.12.18
B.6.	LILO of 2nd Circuit of 220KV Bansagar-I to Satna line at 220KV S/s Kotar.	09.02.18	MP-530	IV from CEA awaited since 25.07.18
B.7.	LILO of both Circuit of 220KV Badnagar-Ratlam DCDS line at proposed 400KV S/s Badnagar.	23.02.18	MP-538	IV from CEA awaited since 10.07.18.
B.8.	220KV DCDS line from 400KV S/s Julwania to proposed 220KV S/s Kukshi (132KV being upgraded to 220KV).	27.02.18	MP-539	TD from BSNL awaited
B.9.	LILO of both Circuit of 220KV Badod/Bhanpura/Kota/Modak DCDS line at 220KV S/s Suwasra.	6.03.18	MP-535	RAC issued on 08.05.19.
B.10.	Diversion of 220KV DCDS Ratlam-Daloda line from Tr. No. 234 to 220KV S/s Daloda	31.05.18	MP-554	RD/NOC from WR and IV from CEA awaited.
B.11.	LILO of 220KV line from Nagda (400KV) to Neemuch (220KV) at 220KV S/s Daloda	28.05.18	MP-552	NOC from WR awaited since 22.04.19.
B.12.	220KV DCDS line from Betul (220KV S/s) to proposed (220KV S/s) Gudgaon.	19.07.18	MP-567	TD from BSNL awaited
B.13.	220KV DCDS line from Sabalgarh (220KV S/s) to proposed (220KV S/s) Sheopur.	23.07.18	MP-562	TD from BSNL awaited.
B.14.	LILO of 220KV DCDS line from Indore-II (Jetpura S/s) to proposed 765/400KV S/s Indore (PGCIL)	20.08.18	MP-565	IV from CEA awaited since 30.10.18.

B.15.	2nd Circuiting of 220KV DCSS line from 220KV S/s Satna to 220KV S/s Chhatarpur	13.09.18	MP-569	RD/NOC from NCR awaited since 29.10.18. IV from CEA awaited 23.03.19.
B.16.	220KV DCDS line from proposed 40/220 KV S/s Badnagar to proposed 220KV S/s Kanwan under phase-I project of Green Energy Scheme of MNRE Gol	08.10.18	MP-575	NOC from WR awaited since 27.03.19.
B.17.	220KV DCDS line from Dhar to proposed 220KV S/s Kanwan under phase-I project of Green Energy Scheme of MNRE Gol	09.10.18	MP-576	RD/NOC from WR and IV from CEA awaited since 08.11.18 & 19.02.19.
B.18.	LILO of 220KV Jabalpur-Amarkantak DCDS line for proposed 220/132KV S/s Gorabazar	06.11.18	MP-588	RD/NOC from SECR and IV from CEA awaited since 17.11.18 & 19.01.19.
B.19.	220KV DCDS line from proposed 220KV S/s Sailana to 220KV S/s Ratlam (Nagra Switching Station) under Phase-I Project of Green Energy Scheme of MNRE Gol	20.11.18	MP-587	RD/NOC from WR awaited since 04.12.18. IV from CEA awaited since 05.04.19..
B.20.	LILO of 220KV Ratlam - Daloda DCDS line at Jaora 132KV S/s (Being upgraded to 220KV S/s) under Phase-I Project of Green Energy Scheme of MNRE Gol	17.11.18	MP-586	RD/NOC from WR awaited since 04.12.18. IV from CEA awaited since 06.04.19..
B.21.	220KV DCDS line from Rewa (UMPS) 400 KV Grid S/s to be created by PGCIL at Gurh to 220KV S/s Sidhi.	02.02.19	MP-595	TD from BSNL and RD/NOC from WCR awaited since 27.02.19.
B.22.	220KV DCDS line from Rewa (UMPS) 400 KV Grid S/s to be created by PGCIL at Gurh to Rewa 220KV S/s (Silpra)	04.02.19	MP-	TD from BSNL and RD/NOC from WCR awaited since 27.02.19.
B.23.	LILO of 220KV DCDS Nagda (400KV) - Neemuch (220) line from Loc. No. 228 to proposed 400KV S/s Mandsaur (Sitamau) under phase-I project of Green Energy Corridor Scheme of MNRE, Gol	11.02.19	MP-597	TD from BSNL and RD/NOC from WR awaited since 28.02.19.
B.24.	LILO of 2nd Circuit of 220KV DCDS Narsinghpur - Itarsi line at 220KV S/s Piparia.	11.02.19	MP-599	IV from CEA awaited since 08.05.19.
B.25.	LILO of 220KV DCDS Nagda (400KV) - Neemuch (220) line from Loc. No. 211 to proposed 400KV S/s Mandsaur (Sitamau) under phase-I project of Green Energy Corridor Scheme of MNRE, Gol	16.02.19	MP-610	TD from BSNL and RD/NOC from WR awaited since 28.02.19.
B.26.	220KV DCDS line from Neemuch (220KV) to Ratangarh (220KV) under phase-I project of of Green Energy Scheme of MNRE, Gol	19.02.19	MP-602	TD from BSNL and RD/NOC from WR awaited since 02.03.19.
B.27	220KV DCDS line from Nipaniya (220KV) to proposed 400KV S/s Mandsaur (Sitamau) under phase-I project of Green Energy Corridor Scheme of MNRE, Gol.	22.02.19	MP-606	TD from BSNL and RD/NOC from WR awaited since 06.03.19.

Annexure- XIV

GETCO, GUJRAT

SL NO	DETAILS OF POWER LINE	BSNL File no	CEA CASE	REMARKS
01.	220KV D/C Bhilad- PGCIL (Ambheti)*	1626	GUJ-607	IV AWAITED FROM CEA.TD &TOPOMAP SHEET SEND TO CEA Dtd:06.01.19
02.	220KV D/C Lilo to Kukma from Anjar- Panandhro ccts no 2	1797	GUJ-601	IV AWAITED FROM CEA
03.	220KV D/C Sankhari- Jangral line	1852	GUJ-703	IV AWAITED FROM CEA.TD &TOPOMAP SHEET RESEND TO CEA Dtd: 06.01.19.
04	220KV D/C Tharod -Deodar line	1868	GUJ-702	IV AWAITED FROM CEA.RESEND TD & TOPOSHEET TO CEA ON Dtd:06.01.2019

05	220 KV M/C & D/C tower line from Wind Farm of Inox renewable Ltd (IWISL)at S/S Sukhpar to 400 KV Amreli S/S.	2225	GUJ-696	IV waited from CEA.
06	220 KV D/C + 220 KV M/C tower line with AL-59 Conductor from 220 KV OPG Project Bhadeshwar - 400KV Varsana (Tappar)	2268	GUJ-667	NOC awaited from WR
07	400 KV LILO line from 1st CCT of 400 KV D/C Kosamba-Choraniya line at 400 KV Sanand II S/S (GIDC) with ACSR Twin Moose Conductor.	2462	GUJ-753	BSNL TD sent to CEA on 21/05/18.
08	220 KV D/C Gavasad - Bhayali Line	2547	GUJ-754	IV waited from CEA
09	220 KV LILO to Kawant S/s from 220 KV Vyankatpura - Achhaliya Line No.1	2549	GUJ-757	IV waited from CEA.
10	220 KV LILO LINE at220 KV Rajula S/S from 220 KV GPPC-Dhokadava line.	2640	GUJ-734	TD from BSNL Received and send to CEA Shortly.
11	400 KV LILO to Vav GIS from existing 400 KV Zanor - Navsari Line.	2729	GUJ-770	IV AWAITED FROM CEA
12	220KV LILO Vondh from 220KV Tappar-Hadala line	2421	GUJ-723	IV AWAITED FROM CEA
13	220 KV LILO at 400 KV Bhachunda S/S from 220 KV Akrimota TPS-Nakhatrana line.	2471	GUJ-735	IV AWAITED FROM CEA
14	400 KV D/C Bhachunda- Varsana line.	2472	GUJ-722	IV AWAITED FROM CEA
15	400 KV D/C Mudra-Zerda Line No.1	2473	GUJ-739	Bhuj SSA Portion TD received. Dessa SSA portion TD pending.
16	220 KV LILO of both circuit to proposed 220 KV Valenja S/s from 220 KV D/C KIM-GSEG-Mora Line.	2552	GUJ-744	IV AWAITED FROM CEA
17	400 KV LILO to 400 KV Veloda S/S from 400 KV Vadavi- Zerda Line	2457	GUJ-741	BSNL TD Sent on Dated: 21.5.18.IV awaited
18	220 KV D/C Radhanpur-sankhari(Veloda) line on D/C tower with D/C AL-59 Conductor	2494	GUJ-761	BSNL TD SENT 21.5.18.IV waited.
19	400 KV D/C Mudra-Zerda line -2 to LILO at 400 KV Charanka S/S Line-2 on D/C & M/C tower with Twin Moose Conductor	2495	GUJ-756	BSNL TD SEND 27.6.18.IV waited from CEA.
20	400 KV D/C Wanakbori TPS – Soja Line with AL-59 Conductor	2352	GUJ-720	IV awaited I from CEA.
21	220 KV D/C Vyankatpura - Waghodiya line	2548	GUJ-752	IV awaited I from CEA.
22	220 KV D/C Jamnagar – hadala with line AL-59 Conductor.	2292	GUJ-704	IV AWAITED FROM CEA
23	400 KV D/c LILO at Kalawad S/S from 400 KV Vadinar - Hadala line on Twin Moose Conductor.	2512	GUJ-738	TD sent to CEA,on Dated 20.02.19 IV Awaited.
24	220 KV D/C LILO at 400 KV Kalawad S/S from 220 KV Nyara-Tebha line with AL-59 Conductor.	2460	GUJ-731	TD sent to CEA,on Dated 20.02.19 IV Awaited.
25	220 KV LILO of both Circuit of 220 KV D/C Nyara - Tebhda line at 220 KV Motigop s/s with AL-59 Conductor on M/C tower.	2571	GUJ-742	TD sent to CEA,on Dated 20.02.19 IV Awaited.
26	220 KV D/C Motipaneli - sardargadh line	2535	GUJ-758	IV waited.
27	220 KV D/C Jambuva - waghodiya(765 KV PGCIL) line	2591	GUJ-760	IV awaited I from CEA.
28	220 KV Line from 220 KV Shri Maruti Wind Park India Ltd. S/s to 220 KV Sadla S/s with AL-59 Conductor.	2635	GUJ-733	IV awaited I from CEA.
29	220 KV LILO line from 220 KV Choraniya - Salejada line	2633	GUJ-730	IV awaited I from CEA.

30	400 KV LILO to Vav GIS from 400 KV Ukai - Kosamba line.	2724	GUJ-765	IV AWAITED FROM CEA
31	220 KV D/C Choraniya - Salejda line with AL-59 conductor	2728	GUJ-771	IV awaited I from CEA.
32	220 KV S/C line from Mokha to M/s Chromeni Steel Pvt. Ltd. On AL-59 Conductor.	2730	GUJ-772	TD sent to CEA 06.01.2019
33	220 KC D/C Botad - Choraniya line with AL-59 Conductor.	2731	GUJ-769	IV awaited I from CEA.
34	Kasor-Botad and 220kv S/C Karamsad(Now Dhuvaran220KV)-Vartej line LILO at 400KV Pachham	2661	GUJ-764	IV awaited I from CEA.
35	400 KV LILO at Dehgam from 400 KV Wanakbori- Soja Line	2488	GUJ-737	TD sent to CEA,on Dated 20.02.19 IV Awaited.
36	400 KV D/C Soja- Zerda line	2466	GUJ-732	BSNL TD Received. Send to CEA shortly.
37	220 KV LILO at one circuit of 220 KV D/C Gandhinagar - Chhatral line at 400 KV Vadavi S/S.	2564	GUJ-762	TD sent to CEA,on Dated 20.02.19 IV Awaited.
38	400 KV Vadavi- Halvad Line on AL-59 Conductor	2453	GUJ-727	IV awaited from CEA
39	220 KV Line from from 400 KV Kasor S/S to 220 KV DFCC Heranj Railway S/S.	2416	GUJ-725	IV waited from CEA.
40	220kv DC line from 400kv Vadavi ss to proposed 220kvDFCC Sanand Railway ss with ACSR zebra conductor,	2705	GUJ-746	TD sent to CEA,on Dated 20.02.19 IV Awaited.
41	220kv LILO line of sc. Of 220kv dc Karamsad-Ranasan line at Barejadi ss with ACSR Zebra conductor	2706	GUJ-747	BSNL TD Received. Send to CEA shortly.
42	400 KV D/C line from 400 KV Kosamba to 400 KV Choraniya S/S LILO at 400 KV Pachham S/S Village Fedra.	2719	GUJ-763	TD sent to CEA.21.05.18.IV awaited from CEA
43	400 KV D/C line from Wanakbori TPS Unit-8 to existing switchyard at wanakbori TPS(Inter link between Switchyard) with Twin AL-59 conductor.	2550	GUJ-751	TD sent to CEA,on Dated 20.02.19 IV Awaited.
44	220KV D/C Tower with OPGW Cable for evauation of 250 MW wind power generation from M/S- Opera Wind Pvt-Ltd-pooling station at village- Patan, Ta- Jamjodhpur, to 220KV Moti Paneli sub-station	2745	GUJ-773	TD sent to CEA on 06.01.2019.
45	220KV Bhilad-Sarigam line	2720	GUJ-766	IV waited from CEA.
46	220 KV LILO to 220 KV Wankaner S/s from 220 KV Hadala - Sartanpar Line	2514	GUJ-736	TD sent to CEA,on Dated 20.02.19 IV Awaited.
47	400 KV D/C Amreli-Vadinar line with ACSR TWIN MOOSE Conductor.	2606	GUJ-745	BSNL TD Received. Send to CEA shortly.
48	220 KV LILO at 220 KV Wankaner S/s from 220 KV S/C Lalpur - Sartanpur line.	2543	GUJ-750	TD sent to CEA,on Dated 20.02.19 IV Awaited.
49	220 KV LILO of both circuit to proposed 220 KV Amod S/s from 220 KV D/C Mobha-Mangrol Line.	2551	GUJ-743	IV waited from CEA.
50	220 KV D/C Hadala - Maruti Wind Park India Pvt. Ltd. Line on D/C Tower with AL-59 Conductor line.	2765		NoC Pending from MoD. (Defence).
51	220KV LILO to Virpur S/S from existing 220KV Ukai - Achhaliya line No.2			New case. BSNL has not registered.
52	400 KV D/C Hadala - Shapar line.			New case. BSNL has not registered.
53	220KV LILO to Kudiyana from 220KV D/C GSEB Kosamba & lahchhapore - Kosamba line.			New case. BSNL has not registered.

54	220KV LILO to Virpur S/S from existing 220KV Ukai - Achhaliya line No.3			New case. BSNL has not registered.
55	220KV DC Virpur - Ambheta line.			New case. BSNL has not registered.
56	220KV D/C Bhilad Dehli TSS (DFCCIL), U/G Power cable line.			New case. BSNL has not registered.

Annexure- XV

KERALA STATE ELECTRICITY BOARD :

Sr. No	Case NO .	Name of Power line	Present status
1.	KER - 329	220/110 kV line from Brahmapuram to Thuthyoor and 220 kV Cable from Thuthyoor to Kaloor	Provisional RAC issued on 28-03-2019 since NOC defence is Pending.
2.	KER - 330	220 kV D/C line through multi circuit Multi Voltage (220 kV and 110 kV) towers from proposed 220 kV substation Kothamangalam to a location Karukadam to connect the existing Moolamattom (Idukki) substation	KSEB submitted the proposal with revised nomenclature of the line on 07-11-2017. Case was registered on 23-11-2017 and BSNL TD sent to CEA/New Delhi on 18-04-2018 for IV computation. Also both BSNL and KSEB have been addressed on 19-04-2018, to ascertain the distance of the existing BSNL cables of Kothamangalam Exge from the Kothamangalam SS as the EPR zone of Kothamangalam SS furnished by KSEB is 1.238 Km for 650 volts range (SKL 1925) CEA comments awaited. Also since some BSNL cables of Kothamangalam SSA fall within the EPR zone of the Kothamangalam SS< KSEB has been addressed on 18.03.2019 to reduce the EPR zone by improving the resistance of the Earthmat.
3.	KER - 326	Construction of 220 kV DC line from 400 kV PGCIL Pallikkara substation to proposed 220 kV substation Aluva	Same status.(SKL-2082)- BSNL TD awaited from ERNAKULAM SSA. Discussed in the last SLPTCC Meeting.
4.		Up-gradation of 220kv Madakkathara-Areekode 220kv SC line to 440/220 kv MCMV line and Up-gradation of 110kv Kizhissery- Tapnallalam DC line to 220/110 kv MCMV line.	Same status. Since two proposals were combined in one request, KSEB was requested on 17-04-2018 to submit separate proposal for each case with correct nomenclature.
5.		Construction of 400KV DC line from 400 KV substation Madakkathara to Areecode substation .	Same status .This has reference to request no 104211 under Sl.no (4). KSEB submitted two separate proposals. Cases not yet registered due to discrepancies in the proposal. KSEB addressed on 14-11-2018.
6.		Construction of 220KV DC line from new HVDC substation Madakkathara to Nallalam substation via Malaparamba substation. .	Same status.This has reference to request no 104211 under Sl.no (4). KSEB submitted two separate proposals. Cases not yet registered due to discrepancies in the proposal. KSEB addressed on 14-11-2018.

7.		Up-gradation of Pallivasal-Aluva 66KV DC line to 220/110 KV multi circuit multi voltage line with one circuit LILO at Kothamangalam substation.	Same status. Original request raised by KSEB on 12-04-2018. Queries called from KSEB by DE(PTCC) on 28-04-2018. KSEB submitted revised documents on 05-11-2018. Case not yet registered due to discrepancies in the proposal. KSEB addressed on 14-11-2018.
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Annexure - XVI

CHHATISGARH STATE POWER TRANSMISSION COMPANY LIMITED (CSPTCL)

SR NO	CEA Case no	BSNL CASE NO	NAME OF Transmission Line	UPDATED STATUS
A1	CHH71	CG-130	LILO of 400KV Raita (Raipur) - Jagdalpur line at proposed 400/220KV S/s Kurud (Dhamtari) at Village-Thua.	IV from CEA awaited since 11.04.19
B1	CHH23	CG-51	220KV D/C line from Chhuri- Mopka	RAC ISSUED ON 22.5.19
B2		CG-91	220KV DCSS line from 220KV Siltara (Raipur) - M/s Corporate Ispat Pvt.Ltd.	IV awaited from CEA since 28.03.18.
B3		CG-103	220KV DCDS line from 400 / 220KV Jagdalpur (Parchanpal) s/s – NMDC Steel Plant at Nagarnar .	RD/NOC from ECoR awaited since 02.01.17. IV from CEA awaited since 28.03.18.
B4		CG-112	220KV DCDS line from Barsoor - Jagdalpur.	IV from CEA awaited since 28.03.18.
B5		CG-114	LILO OF 220 KV Gurur - Barsoor Line to Proposed 220 KV S/s Narayanpur	RD/NOC from SECR awaited since 11.09.17. IV from CEA awaited since 13.07.18.
B6		CG-117	220 KV DCDS line from 220/132 KV Mungeli to proposed 220/132 KV Gendpur(Kawarda) S/S	RAC ISSUED ON 27.5.19

Annexure - XVII

MAHARASTRA STATE ELECTRICAL TRANSMISSION COMPANY LIMITED (MSETCL) :

SR NO	CASE NO	NAME OF Transmission Line	UPDATED STATUS
1	2386	220KV D/C LILO line on Paras- Balapur line for 220KV Malkapur s/s.	IV waited from CEA.

ANNEXUR-XVIII

POWER GRID CORPORATION OF INDIA LIMITED, SOUTHERN REGION-II(PGCIL, SRTS-II)

SR NO	CASE NO	NAME OF POWER LINE	UPDATED STATUS
1	KNK-879	400 KV DC Hiraiyur-Mysore Line(Ultra Mega Solar Park Phase-2)	SKT-1739. Same status Pending at CEA/ND. (BSNL TD sent to CEA 10/08/2018. Rly TD sent to CEA on 10/10/2017. Both IV pending at CEA/ND)

ANNEXUR-XIX

POWER GRID CORPORATION OF INDIA LIMITED ,WESTERN REGION-II(PGCIL, WRTS-II)

SR NO	CASE NO	NAME OF POWER LINE	UPDATED STATUS
1	GUJ-728	400KV D/C Mundra-Bhuj (Triple) S/S	IV Received. GD tube installation completion report waited.
2	GUJ-749	LILO of 220 kV Vapi Khadoli transmission line at Vagchipa substation associated with the UT of dadar of Nagar Haveli	IV awaited from CEA

Karnatak Power Transmission Company Limited

SI No	Case No	Name of Power line	UPDATED STSTUS
1	F2468/S KT-1370	Proposed 220 KV LILO line from existing 220 KV Somanahalli-Yarandanahalli SC line to proposed 220/66 KV Jigani SS in Bangalore District.	IV comments received from CEA/ND on 06/12/2018. Recommendation of GD tube protection letter issued to BGTD from DE PTCC office on 10/12/2018. Completion report awaited from BGTD.
2	F2743/S KT- 2069	Proposed 20No's of 220KV DC Line from existing 220/66/11KV KPTCL SS at Puttenahalli (D.G.Plant) Yelahanka to proposed KPCL 220KV Gas Power Plant at Puttenahalli in Yelahanka Bangalore Urban Distric	IV Values received from CEA/ND on 28/03/2019. SW Rly. NOC pending.
3	F- 2747/SK T-2084	Proposed 220 KV DC LILO line on M/C towers from existing 220KV DC RTPS-Sedam line to proposed 220/66/11 KV Ram Samudra SS in Yadgir Taluk & District.	Same status i.e.IV Values awaited from CEA.BSNL TD sent to CEA on 19/06/2018. Rly & Defence NOC recd.
4	F1934/K NK/ AR-555	Regularisation of exiting 66KV DC line from existing 220/66KV Peenya station to existing 220/66 KV Hebbal SS in B'lore (U) district.	New Proposal received. BSNL IV recd. RC from SW Rly pending.
5	F2424/S KT-1249	Proposed 220 KV SC line on DC towers from the existing 220/66 KV SS at Ayyanahalli (under Construction) to the existing 220/11 KV SS at BMM Ispat Limited (HKT Mining Pvt Limited) in Hospet taluk, Bellary District.	No telecom assets exists intimation has already been sent to CEA on 23/01/2019. Rly TD sent to CEA on 08/09/2016. IV from CEA/ND pending.
6.	F2765/S KT-2141	Proposed 220KV DC line from proposed (Under Construction) 400 KV SS at Jagalur (Hiremellanahole) to the existing 220KV SS at Thallak in Chitradurga District.	On receipt of IV comments from CEA/ND recommendation of GD tube protection informed to Davanagere SSA. Completion report awaited.
7.	F2751/SK T-2090	Proposed 400 KV Double LILO line from existing 400 KV D/C UPCL Plant, PGCIL ,Shanthigrama line to proposed 400/220 KV Station at Hebbanahalli village (DC-4) for Yettinahole Integrated Drinking Water Supply Scheme in Hassan Disrict.	IV recd. From CEA/ND & RC from South Western Rly recd. On 29/04/2019.RAC is Under process

Telangana state Power Transmission company Limited (TSTRANSCO) :

S. No	UniqueReg .No	ROUTE_NAME	UPDATED STATUS
1	STS180520 182117	220KV DC line (22 Km) from proposed 400KV SS Asupaka to proposed 220/132KV SS Aswaraopeta in Khammam District	BSNL TD received from Khammam SSA on 25.04.2019 is under scrutiny for sending to CEA/New Delhi
2	STS190520 182124	Erection of 220kV DC line (82.956 KM) from 400/220kV SS Dichpally to proposed up-gradation of 220/132kV SS Banswada in Nizamabad District on Turnkey basis	Same status. BSNL TD awaited from Nizamabad SSA. Discussed in the SLPTCC meeting. Also DGM QA & INSP CIRCLE, Chennai has addressed letter to Member (Telecom), SLPTCC, Hyderabad on 23-08-18 and 24-10-18 for immediate submission of BSNL TD. Same status
3	STS260720 182176	Erection of 220KV DC Line (4.976 km) with multi circuit towers from the proposed 400/220KV Sub-station Nirmal to the existing 220 / 132KV Nirmal Sub-station in Adilabad District	Same status.BSNL TD awaited from Adilabad SSA. SC Rly NOC submitted on 29.08.2018. Discussed in the SLPTCC meeting. Also DGM QA & INSP CIRCLE, Chennai has addressed letter to Member (Telecom), SLPTCC, Hyderabad on 23-08-18 and 24-10-18 for immediate submission of BSNL TD.
4	STS240820 182187	Erection of 220 kV Single Moose DC line (44.50 km) from proposed 400 / 220 kV SS Julurupadu (Bommanapally) to proposed 220/132/33 kV SS Pedagopati in Khammam District	Same status.BSNL TD awaited from Khammam SSA. SC Rly NOC submitted on 10.09.2018. Discussed in the SLPTCC meeting. Also DGM QA & INSP CIRCLE, Chennai has addressed letter to Member (Telecom), SLPTCC, Hyderabad on 24-10-18 for immediate submission of BSNL
5	STS081020 182212	220kV DC line (67.70 KM) from the proposed 400/220kV SS Nirmal to upgraded 220/132/33kV SS Renjal in Nizamabad District.	Same status.BSNL TD awaited from Nizamabad SSA. SC Rly TD submitted on 28.08.18. DGM QA & INSP CIRCLE, Chennai has addressed letter to Member (Telecom), SLPTCC, Hyderabad on 24-10-18 for immediate submission of BSNL
6	STS270420 182098	Erection of 220KV DC line on Narrow based MC towers from 400/220/132KV Kethireddypally SS to 132/33KV Kanakamamidi SS in Ranga Reddy District	Same status .CEA comments awaited. TSTRANSCO may send copy of Defence NOC to CEA.
7	STS170520 182116	Erection of LILOs of 220KV Shamshabad – Yeddumailaram & Shadnagar – Shankerpally lines on Narrow based Multi Circuit towers to the 400/220/132KV Kethireddypally SS in Ranga Reddy District	Same status. BSNL TD awaited from Hyderabad SSA. SC RlyNOC submitted on 30.04.18. Discussed in the SLPTCC meeting . Also DGM QA & INSP CIRCLE, Chennai has addressed letter to Member (Telecom), SLPTCC, Hyderabad on 23-08-18 and 24-10-18 for immediate submission of BSNL TD.

8	STS230820 161260	Erection of 220KV LILO to 400/220/33KV Suryapet SS from Loc.No.168 (B+0) circuit-2 of Khammam-Miryalaguda DC line in Nalgonda district-Revised proposals	Same status .CEA comments awaited. No BSNL TD informed to CEA on 03.01.2017. SC Rly details to be sent to CEA by SC Rly
9	STS230920 161275	220KV LILO to 400 kV Suryapet at Loc.187 of Khammam-Miryalaguda	Same status .CEA comments awaited. No BSNL TD informed to CEA on 03.01.2017.
10	STS131020 161312	220 kV LILO to 400 kV Suryapet SS from Chillakallu-Narketpally line	Same status .Comments awaited from CEA. SC Rly NOC copy not received. TSTRANSCO may send copy of SC Rly NOC and Defence NOC to CEA
11	STS030520 171662	Erection of 220 KV DC/SC line from existing 400/220KV Veltoor substation to proposed Solar Power Plant which is being setup by M/s. SE Solar Ltd	CEA comments received on 23.04.2019. NOC from SC Rlys awaited.
12	STS070620 171686	Erection of 220KV DC/SC line from 220KV Minpur substation to M/s.Renew Saur Shalthe Pvt Ltd solar power plant	Same status .Comments awaited from CEA. SC Rly NOC copy not received. TSTRANSCO may send copy of SC Rly NOC and Defence NOC to CEA.

ANNEXURE-XXII

PUNJAB STATE TRANSMISSION CORPORATION LIMITED (PSTCL):

Sr.No	NAME OF TRANSMISSION LINE	UPDATED STATUS
1.	220KV line Talwandi saboo – Maiser Khana (Railway deposit works).	BSNL TD received from field unit and will be send to CEA shortly.
2.	220KV line from Sandhour to Kup Kalan.	BSNL TD received from field unit and will be send to CEA shortly.

ANNEXURE-XXIII

RAJSTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED (RRVPL)

S R no	NAME OF POWER LINE	UPDATED STATUS
1	220kV D/C Basni-NPH, Jodhpur line	IV values received, but NoC from Railway awaited.