भारत सरकार/Government of India
विधुत मंत्रालय/Ministry of Power
केन्द्रीय विधुत प्राधिकरण Central Electricity Authority
विधुत प्रणाली परियोजना प्रबोधन प्रभाग
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ISO. : 9001-2008

To,
(As per attached list)
Subject: Minutes of meeting taken by Chief Engineer(PSPM), CEA on 27.7.2016 to review the progress of transmission projects awarded through tariff based competitive bidding route

Sir,
Minutes of meeting taken by Chief Engineer(PSPM), CEA on 27.52016 to review the progress of transmission projects awarded through tariff based competitive bidding route is enclosed at annexure for information and necessary action.

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

Encl: as above.


1. Joint Secretary (Trans.), MOP, Shram Shakti Bhawan, Rafi Marg, New Delhi
2. Chief Engineer(EI), CEA
3. Chief Engineer(SETD), CEA
4. PPS to Chairperson/Member(PS), CEA

## Minutes of meeting taken by Chief Engineer(PSPM), CEA on 27.7.2016 to review the progress of transmission projects awarded through tariff based competitive bidding route

List of participant is attached at Annexure-I
2. Chief Engineer(PSPM) CEA welcomed participants. After brief introduction, CE(PSPM) informed that this meeting has been called to review the progress of transmission projects awarded through tariff based competitive route and also to discuss the issues of transmission projects awarded to M/s Adani and M/s Sterlite Grid as decided in last review meeting held on 17.06.2016 and invited M/s Adani transmission Ltd and M/s Sterlite Grid representative for discussion of their issues.
3. M/s Adani transmission Ltd representative informed as under;
(i) Issue of Power Line crossing of PGCIL line by STL, RRWTL and CWRTL (subsidiary of ATL) using D type tower only.

- M/s Adani representative informed that PGCIL is specifying that while crossing their lines " $D$ " type towers are must on both sides, whereas there is no such requirement in either electricity rules or any standards. Moreover, PGCIL in their proposal to cross Adani's Mundra Mahindragarh HVDC line in case of PGCIL's Bhuj - Banaskantha line have proposed "D" type tower on one side where as " $B$ " type on the other side. Further PGCIL in their TBCB projects namely Vemagiri and Nagapattnam also allowed "D" type tower on one side and any angle tower on the other side depending upon the crossing angle. Hence it is suggested that power line crossing may be allowed with one side "D" type tower and other side with any angle tower with adequate margin in deviation angle.
- Representative from M/s Sterlite Grid also opined that it is not essential to use "D" type tower on both sides as per any technical standards.
- Chief Engineer(EI), CEA informed that as per electricity rules, there is no mandate that power line crossings have to be done with "D" towers on both the sides, however there has to be sufficient margin in the crossing towers depending on the angle of crossing. He further mentioned that while addressing the issue, the security of the grid should be the prime focus.
- PGCIL representative mentioned that their management have now taken a view that any power line crossing has to be done with "D" type tower on both sides to avoid any kind of disruption of power due to mis-happening during stringing over their line and subsequently to minimise the probability of snapping of their line due to tower collapse of the other utility.
- Chief Engineer(SETD), CEA stated that in case of railway line crossing, Railways insist crossing to be done by DD type only. As 765 kV or 400 kV(Quad) transmission lines of carries more than 2000 MW power, crossing of these voltage class lines should be done only by DD type tower (dead end tower with 60 degree angle of deviation) considering loss of power in case of failure of tower.
- Representatives of M/s Adani, M/s Essel infra and M/s Sterlite grid were of the view that above issues of PGCIL can be very well handled by completing the
stringing work over the power line crossing in continuity to the adjacent span and keeping adequate margin in the angle towers. Hence "D" type tower is not essential on both sides.
- It was finally decided that Chief Engineer(EI), CEA would call another meeting at CEA shortly inviting representatives of PGCIL, Adani, Sterlite, Essel and state transmission utilities to discuss and standardise the requirement so that the same can be included in the electricity rules which is undergoing an amendment at present.
(ii) Issue of bay allocation at Warora, Bilaspur and Gwalior S/S of PGCIL:


## Bay position at Bilaspur S/S:

- M/s Adani Transmission Limited representative informed that as per the BPC line survey document, the bay position was indicated towards South side for termination of line at Bilaspur substation of PGCIL. However, PGCIL have allocated the bay position in North - East side. There is completely change in the orientation. Also, if ATL opt this route, the line will be crossed $2 M / C+1$ D/C line in single span. To avoid this, ATL requested PGCIL to allocate the available bay position in South or North - West side.
- As regards bay allocation at Bilaspur Substation of PGCIL for termination of Adani's Sipat-Bilaspur line, PGCIL reiterated that allocating the vacant bay towards North - West side of substation as being mentioned by Adani shall result in loading of generation on one side of the bus and their future program of splitting the bus shall not be feasible.
- Adani representatives opined that there is physically no space available to split the bay and install bus sectionalise. Moreover, this substation is mainly catering to power injection from Sipat TPS and hence once the Sipat-Bilaspur line is connected the load on other bays shall come down. Therefore, there is no technical constraint in allocating the said bay.
- Chief Engineer(PSPM), CEA informed that since bay position is relocated from South to North side, it may impact in increase of line length. If PGCIL will not allocate the bay position in North - West side, it will further increase the line length and ultimately increase in project cost. Hence, Chief Engineer(PSPM), CEA directed PGCIL to reconsider the proposal and take a decision quickly.


## Bay position at Warora S/S:

- As regards bay allocation at Worora substation of PGCIL for termination of Rajnandgaon-Warora line of Adani, PGCIL mentioned that the bay has already been identified. It was agreed by PGCIL to officially communicate the same to the Adani at the earliest.


## Bay position at Gwalior S/S:

- As regards the bay allocation at Gwalior substation of PGCIL for termination of Gwalior-Morena line of Adani, PGCIL mentioned that due to paucity of corridor availability for future requirements, it is suggested that the dead end tower need to be a Multi-circuit tower, where the cost can be shared by PGCIL. CEA advised PGCIL to hold a bilateral meeting and finalise the modalities of cost sharing and other issues with Adani.
(iii) Issue of bay allocation at Chandwa and Gaya S/S of PGCIL and North Karanpura TPS switchyard of NTPC for transmission line being implemented by M/s NKTL (ATL)
- As regards Bay allocation at Chandwa and Gaya substations of PGCIL for termination of Adani's lines under North Karanpura project, Adani representative mentioned that CTU have already been requested on $14^{\text {th }}$ June, 2016 with a reminder on $4^{\text {th }}$ July, 2016, but till date the location of the bays have not been intimated to them.

Since the end date for North Karanpura -Chandwa line is fixed as Sept 2017, bay location needs to be finalised immediately so that the detail survey work can be completed. CEA directed PGCIL to immediately intimate Adani on the exact location of the bays looking at the compressed implementation schedule.

- As regards the bay allocation by NTPC at their North Karanpura Plant switchyard, for termination of Adani's lines under North Karanpura project, NTPC representative mentioned that the same have been intimated to Adani.

4. M/s Sterlite Grid representative informed as under;
(i) Maheshwaram Transmission limited (A subsidiary of Sterlite Grid) have to construct 400 kV bays at Shankapally s/s and Mehboobnagar S/s of TSTRANSCO for termination of Maheshwaram - Mehboobnagar and Nizamabad - Shankarpalli 400 kV lines awarded through TBCB in July 2015 and TSTRANSCO has made following observations;

- "TSTRANSCO will depute their inspector for inspection of materials \& no material shall be dispatched from its point of manufacture before it has been satisfactory inspected, tested \& cleared for dispatched by TSTRANSCO ".
- TSTRANSCO is insisting for "third party NABL laboratory testing of energy meter, metering CT \& PT for ratio test \& phase angle error test before TS TRANSCO ".
- TSTRANSCO stating that "Works mentioned in the scheme approval letter shall be deemed to be the property of the TSTRANSCO after take over. TS TRANSCO can utilize the above works in any manner as required from time to time".
- TSTRANSCO will intimate the location of interface meters (Main, Check \& Standby) \& MTL have to adhere to that.
- TSTRANSCO is insisting to establish SCADA along with necessary communication system to communicate with ALDC / SLDC.

M/s MTL (sterlite grid) representative stated that TSTRANSCO specified clauses are not stipulated in the RFP and TSA of this project. Hence it can't be a binding on M/s MTL. It was also apprehended that it would delay the project progress and informed that MTL being a developer of this asset, they will proceed as per their best practice and intimate the same to TSTRANSCO time to time.

Chief Engineer(PSPM), CEA advised representative of M/s MTL to proceed as per the clauses stipulated in respective TSA/RFP.
(ii) Representative of RAPP Transmission Company Ltd (A subsidiary of Sterlite Grid) stated that as indicated in TSA they have completed termination of OPGW at Shujalpur gantry and RAPP gantry and termination of OPGW in a joint box at both end. Further laying of approach cable from joint box at dead end tower to FODP is not in their scope of work. PGCIL representative informed that this work is under their scope at both the substation.

1. Chief Engineer(PSPM), CEA review the progress of balance transmission projects and project authority submitted progress as under;
(i) Eastern Region system strengthening Scheme - VI by DMTCL(Essel)
$\mathrm{M} / \mathrm{s}$ DMTCL submitted the progress of line as under:
A. Muzaffarpur (PGCIL)-Darbhanga 400 kV D/C line

Line Length:
Tower Locations:
Foundations completed:
Towers erected:
Stringing completed:
Scheduled date of completion:
Expected date of completion :

126 ckm
178 Nos
178 Nos
175 Nos
110 ckm
June, 2016
Oct, 2016

It was further informed that construction work was basically affected due to the following key reasons:
a) Forest Stage II approval received recently on $22^{\text {nd }}$ July, 2016, which affected the work in forest stretches.
b) High density of trees in the line route affecting the construction work as lot of public resistance is being faced at site.
c) RoW at following locations/stretches is severely affecting the construction work:

| SN. | Location/ <br> Stretch Details | Block | District | RoW <br> Nature |
| :---: | :---: | :---: | :---: | :---: |
| 1 | $5 / 0$ | Kurhani | Muzaffarpur | Erection |
| 2 | $4 / 0-6 / 0(01 \mathrm{Km}$. <br> affected stringing $)$ | Kurhani | Muzaffarpur | Stringing |
| 3 | $44 / 0$ | Bahadurpur | Darbhanga | Erection |

d) Due to prohibition on sand mining in Bihar in Feb 2016, construction was affected.
e) Change in Gantry Co-ordinates at PGCIL Muzaffarpur S/S has involved crossing of 2 Nos. additional 400 kV D/C lines. The same involved design \& supply of gantries. The same has affected the project completion schedule.
B) LILO of Barh-Gorakhpur 400 kV D/C line at Motihari
Line Length : 152 ckm

Tower Locations: 210 Nos
Foundations completed: 207 Nos

Towers erected:
Stringing completed:
Scheduled date of completion:
Expected date of completion:

197 Nos
108 ckm
Aug, 2016
Oct, 2016

It was further informed that construction work was basically affected due to the following key reasons;
a) Forest approval is pending at Nodal Officer, Patna. Due to non-receipt of forest approval, as on date 12 Km . of stringing stretches are affected.
b) Railway crossing approval is pending since May 2015.
c) RoW at following locations/stretches is severely affecting the construction work:

| SN. | Location No. | Block | District | RoW Nature |
| :---: | :---: | :--- | :--- | :--- |
| Motihari CKT- I |  |  | Majha | Gopalganj |
| 1 | $14 / 3$ | Barharia | Siwan | Erection |
| 2 | $1 / 0$ | Barharia | Siwan | Erection |
| 3 | $8 / 1$ | Barharia | Siwan | Erection |
| 4 | $9 / 0$ | Majha | Gopalganj | Erection |
| 5 | $15 / 0$ | Barharia | Siwan | Erection |
| Motihari CKT- II |  |  |  |  |
| 1 | $10 / 1$ | $10 / 2$ | Barharia | Siwan |
| 2 | $11 / 1$ | Barharia | Siwan | Erection |
| 3 | $16 / 0$ | Majha | Gopalganj | Foundation |
| 4 | $17 / 0$ | Majha | Gopalganj | Foundation |
| 5 |  |  |  |  |

d) Due to prohibition on sand mining in Bihar in Feb 2016, construction was affected.
e) The construction work was affected due to unprecedented flood in Gandak River during May to July 2015.

DMTCL requested CEA to resolve row issues.
C) $2 \times 500$ MVA, $400 / 220 \mathrm{kV}$ GIS at Darbhanga

Land Acquired:
100\%
Civil work completed :
75\%
Material received :
Equipment erected :
Schedule date of completion :
Expected date of completion :

75\%
30\%
June, 2016
Oct, 2016

Representative of DMTCL informed that foundation for 400 kV and 220 kV GIS building, control room, towers, Transformer, reactor have been completed. Transformers and GIS material has already received at site. Transformers have already been placed at plinth and erection of accessories is going on. It was informed that civil work was affected upto some extent due to the prohibition on sand mining in State Bihar in Feb 2016.
D) $2 \times 200$ MVA, $400 / 132 \mathrm{kV}$ GIS substation at Motihari

Land Acquired: 100\%
Civil work completed : 55\%
Material received : $35 \%$
Equipment erected : 20\%
Schedule date of completion: Aug, 2016
Expected date of completion: Nov, 2016
Representative of DMTCL informed that foundation work of transformers, Reactors, GIS Buildings have been completed. For Control Room, $1^{\text {st }}$ Floor roof slab is casted. The 400 kV GIS is under dispatch and 132 kV GIS equipment has already received at port. 2 Nos. Transformers and 3 Nos. Reactors are placed at plinth and erection of accessories is going on.

It was further informed that construction work was delayed basically due to the following reasons;
a) Due to flooding at Motihari sub-station land in Aug/Sep 2015, the construction work was totally stopped during this period.
b) Due to Geotechnical surprise at Sub-station land, ground improvement was required to be done before start of construction work for safety of foundations. Accordingly, ground improvement was done and same has taken additionally 04-05 months' time.
c) Due to prohibition on sand mining in Bihar in Feb 2016, construction pace was affected.
(ii) Northern Region System Strengthening scheme, NRSS-XXXI (Part B) by M/S Essel Infraprojects Ltd.

M/s NRSS-31(B) submitted the progress of line as under:
(A) Kurukshetra - Malerkotla 400kV D/C line

| Line Length: | 267 ckm |
| :--- | :--- |
| Tower Locations: | 375 Nos |
| Foundations completed: | 65 Nos |
| Towers erected: | 316 Nos |
| Stringing completed: | 170 ckm |
| Scheduled date of completion: | Sept 2016 |

Regarding Transmission line project progress, it was informed that construction work was basically affected due to the following key reasons;
a) Forest Approval: For Punjab portion, Stage I proposal is under approval at RMOEF, Chandigarh since May 2016. Approval is withheld due to NGT order dated $19^{\text {th }}$ May 2016. Next hearing of NGT is scheduled on $5^{\text {th }}$ Aug 2016.The same is affecting as on date 28 Km . of stringing stretches.
b) RoW issue: RoW at following locations/stretches is severely affecting the construction work:

| SN. | Location No. | Tehsil/Block | District | RoW Nature | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 3/1 | Indri | Karnal | Foundation |  |
| 2 | 6/13 | Thanesar | Kurukshetra | Erection | Case in Distt. Court Kurukshetra from $28^{\text {th }}$ Jan-16 \& next scheduled date of hearing is $04^{\text {th }}$ Aug-16. |
| 3 | 18/7 | Pehowa | Kurukshetra | Foundation |  |
| 4 | 37/0 | Samana | Patiala | Erection |  |
| 5 | 38/0 | Samana | Patiala | Erection |  |
| 6 | 39/1 | Samana | Patiala | Foundation |  |
| 7 | 39/2 | Samana | Patiala | Foundation |  |
| 8 | 39/3 | Samana | Patiala | Foundation |  |
| 9 | 44/0 | Patiala | Patiala | Foundation |  |
| 10 | 66/0 | Malerkotla | Sangrur | Foundation |  |
| 11 | 67/0 | Malerkotla | Sangrur | Erection |  |
| 12 | 68/0 | Malerkotla | Sangrur | Foundation |  |
| 13 | 68/1 | Malerkotla | Sangrur | Foundation |  |
| 14 | 69/0 | Malerkotla | Sangrur | Foundation |  |
| 15 | $\begin{gathered} 42 / 0- \\ 44 / 0 \end{gathered}$ | Patiala | Patiala | Stringing | Affecting approximately stringing of 3.935 Km . We have also raised such issue before SDM (Patiala) vide our letter dated 20th July, 2017 in order to seek administrative support. |

c) Shutdown un-availability for crossing EHV power lines.

NTL has requested the shutdown of various Interstate/Intrastate Transmission lines for crossing for approval in $123^{\text {rd }}$ OCC meeting of Northern Region. However, no shutdown proposal was agreed out 5 nos. shutdown proposals.

Further, in $125^{\text {th }}$ OCC meeting of Northern Region, out of 5 nos. shutdown proposals, only 1 no. is agreed. The details are as under:

| SN. | Line details | Proposed <br> outage <br> schedule | Status |
| :---: | :---: | :---: | :---: |
| 1 | 220 kV Kurukshetra - Panipat Line (Ckt I) | 12th Aug 16 | Dis-agreed |
| 2 | 220 kV Dhulkote - Panipat Line (Ckt I\&II) | 12th Aug 16 | Dis-agreed |
| 3 | 220 kV Jamalpur - Sangrur Line (Ckt I\&II) | 29th Aug 16 | Dis-agreed |
| 4 | 400 kV Rajpura - Dhuri Line (Ckt I\&II) | 30th Aug 16 | Dis-agreed |
| 5 | 400 kV Rajpura - Bhiwani Line (Ckt I) | 26th Aug 16 | Agreed |

(B) Malerkotla-Amritsar 400 kV D/C line

Line Length :
Tower Locations:
Foundations completed:
Towers erected:

Stringing completed : 176 ckm
Scheduled date of completion: Sep 2016

Regarding Transmission line project progress, it was informed that construction work was basically affected due to the following key reasons;
a) Forest Approval: Stage I proposal is under approval at RMOEF, Chandigarh since May 2016. Approval is withheld due to NGT order dated $19^{\text {th }}$ May 2016. Next hearing of NGT is scheduled on $5^{\text {th }}$ Aug 2016. The same is affecting 48 Km . of stringing stretches.
b) RoW issue: RoW at following locations/stretches is severely affecting the construction work:

| SN. | Location <br> No. | Tehsi/Block | District | RoW <br> Nature | Remarks |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | $18 / 0$ | Mullanpur | Ludhiana | Stringing | Land-owner issued notice <br> through District Court <br> (Ludhiana) in the RoW <br> (Stringing) issue of Loc. <br> No. 18/0. The matter is <br> scheduled to be heard on <br> 17th Sept, 2016. |
| 2 | $19 / 0$ | Mullanpur | Ludhiana | Foundation | The Row matter at <br> Location Nos. 19/0 and <br> 20/0 is subjudice before <br> Hon'ble High court of <br> Punjab \& Haryana since <br> from 22/03/2016. <br> Next scheduled date of <br> hearing: <br> For 20/0: 22nd Nov,16. <br> For 19/0: 30th Aug,16 |
| 3 | $20 / 0$ | Mullanpur | Ludhiana | Foundation |  |
| 4 | $21 / 0$ | Mullanpur |  | Ludhiana | Foundation |

c) Shutdown un-availability for crossing EHV power lines.

NTL has requested the shutdown of various Interstate/Intrastate Transmission lines for crossing for approval in $123^{\text {rd }}$ OCC meeting of Northern Region. However, no shutdown proposal was agreed out 4 nos. shutdown proposals.

Further, in $125^{\text {th }}$ OCC meeting of Northern Region, out of 4 nos. shutdown proposals, only 3 nos. is agreed. The details are as under:

| SN. | Line details | Proposed outage <br> schedule | Status |
| :--- | :--- | :---: | :---: |
| 1 | 400 kV Nakodar- Makhu Line (Ckt I,II) | 01 st Aug 16 | Agreed |
| 2 | 400 kV Patiala - Malerkotla Line (Ckt I) | 04 th Aug 16 | Agreed |
| 3 | 400 kV Talwandi- Sabo - Nakodar and <br> Moga - Nakodar Line | 24 th Aug 16 | Dis- <br> agreed |
| 4 | 400 kV Jalandhar- Moga Line (Ckt I,II) | 29th Aug 16 | Agreed |

The delay is receipt of shutdown approvals will delay the completion of project.
d) Introduction of new 66 kV Tower Lines by PSPCL in Amritsar Transmission Line

PSPCL is converting some of its 66 kV Transmission Lines from Poles to Towers. The conversion from pole to tower line is being carried out even after completion of tower erection/ stringing of our Transmission line and without maintaining the required clearance as per IS. Such execution of work by PSPCL in an un-coordinated way has created hindrances in NTL line execution.

The details \& status of these 66 kV Transmission lines are as below table:

| SI. <br> No. | Location No. <br> of NTL 400 <br> kV Line | Status of <br> PSPCL 66 kV <br> Line | Status of NTL <br> Line | Remarks |
| :---: | :--- | :--- | :--- | :--- |
| 1 | $17 / 6$ and 18/0 | Stringing <br> completed | Stringing <br> completed | To maintain clearance, tower <br> type at loc. 17/6 changed from <br> DA+0 to DA+6. |
| 2 | $38 / 0$ and 38/1 | Stringing <br> completed | Stringing <br> completed | To maintain clearance, tower <br> type at loc. 38/0 changed from <br> DC+0 to DC+9 and at loc. 38/1 <br> from DA+0 to DA+9. |
| 3 | $46 / 2$ and 47/0 | Stringing <br> completed | Foundation <br> completed. <br> Tower erection at <br> 46/2 completed. | Clearance issue. |

$\mathrm{M} / \mathrm{s}$ NTL requested CEA to take up matter with PSPCL to resolve the issue.
(iii) Additional Inter regional AC link for import into Southern region i.e WaroraWarangal and Chilakaluripeta - Hyderabad - Kurnool 765 kV link- M/s WKTL(Essel Infra Ltd.)

The transmission project covers following works;
(A) Establishment of $765 / 400 \mathrm{kV}$ substations at Warangal (New) with 2X1500 MVA transformers and 2X240 MVAR bus reactors.

765 kV bay requirement (in Warangal)
Line bays: 06 No.
Transformer bays: 02 No.
Space for future line bays: 06 No.
400 kV bay requirement (in Warangal)
Line bays: 02 No.
Transformer bays: 02 No.

Space for future line bays: 08 No.
(B) Warora Pool - Warangal (New) 765 kV D/C line with 240 MVAR switchable line reactor at both ends
(C) Warangal (New) - Hyderabad 765 kV D/C line with 240 MVAR switchable line reactor at Warangal end of each circuit.
(D) Warangal (New) - Warangal (existing) 400 kV (quad) D/C line.
(E) Hyderabad- Kurnool 765 kV D/C line with 240 MVAR switchable line reactor at Kurnool end of each circuit.
(F) Warangal (New) - Chilakaluripeta 765 kV D/C line with 240 MVAR switchable line reactor at both ends of each circuit.
(G) 240 MVAR Switchable Line Reactors with Bays at Warora Pool end in each circuit of Warora Pool- Rajnandgaon 765kV D/c line with NGR (700 Ohm)

M/s WKTL representative informed that SPV has been acquired in July, 2016 and they have applied for transmission license.

## (iv) ATS for Tanda expansion TPS by TTCL(Essel infra Ltd.)

The transmission project covers following works;
(A) Tanda - Sohwal 400 kV D/C Line - 172.946 ckm
(B) Sohwal - Lucknow 400 kV D/C Line - 176.212 ckm

Representative from M/s Essel Infra informed that TSA is yet to be signed.
(v) System strengthening in Northern region (NRSS XXXVI) along with LILO of Sikar-Neemrana 400 kV D/C line at Babai (RVPNL) by NRSS XXXVI Transmission Company Limited (Essel infra Ltd.)

The transmission project covers following works;
(A) Koteshwar P. S. - Rishikesh 400 kV D/C (HTLS) Line - 172.946 ckm
(B) 2 Nos. of bays at $400 / 220 \mathrm{kV}$ Rishikesh $\mathrm{S} / \mathrm{s}$
(C) LILO of one ckt. Of Sikar(PG)-Neemrana(PG) line at Babai-2.922 Ckm
(D) Babai (RRVPNL)-Bhiwani(PG) D/C line-248.61 Ckm
(E) 4 nos. of bays at $400 / 220 \mathrm{kV}$ Babai $\mathrm{S} / \mathrm{s}$ (RRVPNL)

Representative from M/s Essel Infra informed that TSA is yet to be signed.
(vi) Connectivity lines for Maheshwaram 765/400 kV substation - M/s Maheshwaram Transmission Ltd (Sterlite Grid)

The transmission project covers following works and its progress is as under;
(A) Maheshwaram(PG) - Mehboobnagar 400 kV D/C line alongwith 2 nos 400 kV line bays at Mehboobnagar S/s of TSTRANSCO

| Tower Locations: | 252 nos |
| :--- | :--- |
| Foundation completed: | 62 nos |
| Tower erected: | 0 nos |
| Stringing completed: | 0 cKm |
| Scheduled date of completion: | $2^{\text {nd }}$ April, 2018 |
| Anticipated date of Completion: | Feb'2017 |

(B) Nizamabad-Yeddumailaram 400 kV D/C line alongwith 2 nos 400 kV line bays at Yeddumailaram(Shankarpalli)S/s of TSTRANSCO

| Line Length: | 277 ckm |
| :--- | :--- |
| Tower Locations: | 355 nos |
| Foundation completed: | 66 nos |
| Tower erected: | 0 nos |
| Stringing completed: | 0 cKm |
| Scheduled date of completion: | April, 2018 |
| Anticipated date of Completion: | Feb'2017 |

(vii) Part ATS for RAPP U-7 \& U-8 in Rajasthan by M/s RAPPTCL (Sterlite grid)

The representative from M/s RAPPTCL informed that RAPP-Shujalpur 400 kV D/C Transmission line work has been completed and 400 kV Bays at RAPP switchyard for termination of line is yet to be constructed by RAPP project authority.
(viii) Northern Region System Strengthening scheme- M/s NRSS-XXIX Transmission Limited (Sterlite Grid)

The transmission project covers following works and its progress is as under;
(A) Jullandhar-Samba 400kV D/C line:
Line Length: $\quad 270$ ckm

Tower Locations: 356 Nos
Foundations completed: 356 Nos
Towers erected: 356 Nos
Stringing completed: 270 ckm
Scheduled date of completion: 05.08.2018
Line commissioned on June, 2016.
(B) Samba-Amargarh 400 kV D/C

| Line Length: | 574 ckm |
| :--- | :--- |
| Tower locations: | 783 Nos. |
| Foundation completed: | 490 Nos. |
| Tower erected: | 242 Nos. |
| Stringing completed: | 94 ckm |
| Scheduled date of completion: 05.08 .2018 |  |
| Expected date of completion: | Oct, 2017 |

Representative of Sterlite Grid informed that forest clearance in Wildlife is pending with J\&K state Govt.
(C) $2 \times 315$ MVA 400/220 kV GIS at Amargarh

| Land acquired | $100 \%$ |
| :--- | :--- |
| Civil work completed: | $17 \%$ |
| Equipment supplied | $0 \%$ |
| Equipment erection | $0 \%$ |
| Scheduled date of completion: | 05.08 .2018 |
| Expected date of completion: | Oct, 2017 |

Representative of Sterlite Grid informed that work of boundry wall has started.
(ix) Common Transmission system for phase-II generation projects in Orissa and immediate evacuation system for OPGC project - M/s OGPTL (Sterlite Grid)

The transmission project covers following works and its progress is as under;
(A) Jharsuguda - Raipur 765 kV D/C (hexa) line
Line Length: 644 ckm

Tower Locations: 763
Foundation completed: 234 nos
Tower erected: 7 nos
Stringing completed: 0 cKm
Scheduled COD: July, 2017
(B) OPGC TPS- Jharsuguda 400 kV D/C (triple) line

Line Length: 110 ckm
Tower Locations:
Foundation completed:
Tower erected:
Stringing completed:
Scheduled completion:
July'2017
(x) Creation of new 400 kV GIS in Gurgaon area and Palwal as a part of ISTS M/s GPTL(Sterlite Grid)

The transmission project covers following works and its progress is as under;
a) Aligarh-Prithala 400 kV D/C HTLS line
b) Prithala-Kadarpur 400 kV D/C HTLS line
c) Kadarpur-Sohna road 400 kV D/C HTLS line
d) LILO of Gurgaon - Manesar 400 kV D/C (Q) line at Sohna Road
e) Neemrana(PG) - Dhanonda 400 kV D/C HTLS line
f) $2 \times 500 \mathrm{MVA}, 400 / 220 \mathrm{kV}$ GIS at Kadarpur (Gurgaon)
g) $\quad 2 \times 500$ MVA, $400 / 220 \mathrm{kV}$ GIS at Sohna Road (Gurgaon)
h) $\quad 2 \times 500$ MVA, $400 / 220 \mathrm{kV}$ GIS at Prithala(Palwal)

Representative from M/s GPTL (Sterlite Grid) informed that SPV acquired on 14.07.2016, work yet to start.
(xi) Eastern Region System Strengthening scheme-VII by M/s PKTCL (Sterlite Grid)

The transmission project covers following works and its progress is as under;
(a) Purulia(WB) - Ranchi (PGCIL) 400kV D/C line

| Line Length: | 370 cKm |
| :--- | :--- |
| Tower Locations: | 302 Nos |
| Foundations completed: | 289 Nos |
| Towers erected: | 266 Nos |
| Stringing completed: | 112 cKm |
| Scheduled date of completion: | 09.03 .2016 |
| Expected date of completion: | Sept, 2016 |

(b) Chaibasa- Kharagpur 400 kV D/C line

| Line Length: | 332 ckm |
| :--- | :--- |
| Tower Locations: | 426 Nos |
| Foundations completed: | 426 Nos |
| Towers erected: | 426 Nos |
| Stringing completed: | 332 ckm |
| Scheduled date of completion: | 09.03 .2016 |

Transmission Line work has been completed.
(xii) Additional system strengthening for Sipat STPS by M/s Sipat Transmission Ltd.(Adani Transmission Ltd)

The transmission project covers following works and its progress is as under;
(a) Sipat STPS - Bilaspur 765 kV D/C (Q) line

Length: 21 ckm
Locations: 62
Foundation completed: 21
Tower erected: 13
Stringing completed: $\quad 0 \mathrm{cKm}$
Anticipated completion 30.11.2017
(b) Bilaspur - Rajnandgaon 765 kV D/C (hexa) line

Length: 322 ckm
Locations: 419
Foundation completed: 193
Tower erected: 100
Stringing completed: 0 cKm
Anticipated completion 31.07.2018
(xiii) Additional system strengthening for Chhattisgarh (B) by M/s RRWTL (Adani Transmission Ltd)

The transmission project covers following works and its progress is as under;
(a) Raipur - Rajnandgaon 765 kV D/C (hexa) line

Length: 80 ckm
Locations: 105
Foundation completed: 81
Tower erected: 62
Stringing completed: 0 cKm
Anticipated completion 31.07.2018
(b) Rajnandgaon - Warora 765 kV D/C (hexa) line

| Length: | 532 ckm |
| :--- | :--- |
| Locations: | 689 |
| Foundation completed: | 191 |
| Tower erected: | 102 |
| Stringing completed: | 0 cKm |
| Anticipated completion | 31.07 .2018 |

(c) 765 kV Rajnandgaon switching station

Land acquired: 100\%
Civil works completed 5\%
Equipment supplied 0\%
Equipment erected 0\%
Anticipated completion 31.08.2017
(xiv) System strengthening for IPPs in Chhattisgarh and other generation projects in western region by M/s CWRTL(Adani Transmission Ltd)

The transmission project covers following works and its progress is as under;
(A) 400 kV interconnection at Gwalior $765 / 400 \mathrm{kV} \mathrm{s} / \mathrm{s}$
(a) Gwalior - Morena 400 kV D/C (Q) line

Line Length:
Tower Locations:
Foundation completed:
Tower erected:
Stringing completed:
Anticipated completion

98 ckm
152 nos
81nos
26 nos
0 cKm
31.01.2018
(b) $2 \times 315$ MVA, $400 / 220 \mathrm{kV}$ Morena substation

Land acquired:
Civil works completed
Equipment supplied
Equipment erected
Anticipated completion

100\%
0\%
0\%
0\%
30.04.2017
(B) Additional evacuation line from Vindhyachal-IV \& V STPP ( $3 \times 500$ MW)
(a) Vindhyachal STPS - IV \& V - Vindhyachal pool 400 kV D/C (Q) line

Line Length:
Tower Locations:
Foundation completed:
Tower erected:
Stringing completed:
Anticipated completion:

54 ckm
82 nos
39 nos
0
0 cKm
31.01.2018
(b) 400 kV bays (2 nos.) at Vindhyachal STPP switchyard

Land acquired: 0\%
Civil works completed 0\%
Equipment supplied 0\%

Equipment erected 0\%
Anticipated completion 30.04.2017

M/s APL representative informed that permission to start construction work at NTPC switchyard is awaited.
(C) Additional system strengthening scheme for Chhattisgarh IPP's (Pt-A)
(a) Sasan UMPP - Vindhyachal Pooling Station 765 kV S/C (Q) line
Line Length: 06 ckm

Tower Locations: 18 nos
Foundation completed: 4 nos
Tower erected: 0
Stringing completed: 0 cKm
Anticipated completion 31.01.2018
(b) Raigarh (Kotra) - Champa (Pool) 765 kV S/C (Q) line

| Line Length: | 94 ckm |
| :--- | :--- |
| Tower Locations: | 247 nos |
| Foundation completed: | 158 nos |
| Tower erected: | 80 nos |
| Stringing completed: | 0 cKm |
| Anticipated completion | 31.01 .2018 |

(c) Champa (Pool) - Dharamjaygarh 765 kV S/C (Q) line

Line Length: 49 ckm
Tower Locations: 143 nos
Foundation completed: 75 nos
Tower erected: 47 nos
Stringing completed: 0 cKm
Anticipated completion 31.01.2018
(d) LILO of one ckt of Aurangabad - Padghe 765 kV D/C line at Pune

Line Length: $\quad 128$ ckm
Tower Locations: 169 nos
Foundation completed: 18 nos
Tower erected: 03 nos
Stringing completed: 0 cKm
Anticipated completion 31.05.2018
(e) 765 kV bays at Sasan UMPP

Land acquired: 0\%
Civil works completed 0\%
Equipment supplied 0\%
Equipment erected 0\%
Anticipated completion 30.04.2017
$\mathrm{M} / \mathrm{s}$ APL representative informed that permission to start construction work at Sasan UMPP switchyard by Reliance Power is awaited.
(xv) Immediate evacuation for North Karanpura (3x660MW) generation project of NTPC(ERSS-XIX) by M/s NKTL (Adani Transmission Limited)

The transmission project has been awarded to M/s North Karanpura Transco Itd (A subsidiary of Adani Transmission Ltd). The LOI was issued on 24.5.2016 and SPV was acquired on 8.7.2016. Project Authority is yet to apply for transmission license and tariff adoption to CERC.
(xvi) Transmission System associated with IPPs of Nagapattinam/Cuddalore Area -Package-A by PNMTL(PGCIL)

PGCIL submitted the progress of line as under:
(a) Nagapattinam Pooling Station - Salem 765 kV D/C line

Length: 400 ckm
Tower locations:
Foundation completed:
543 Nos.
Tower erected:
535 Nos
Stringing completed:
515 Nos.
Schedule date of completion:
324 Ckm
Expected date of completion:
Dec, 2015
Aug, 2016
Representative of PGCIL informed that the progress has been affected due to severe row issues and court cases. However, efforts are being put for completion of line by Aug, 2016.
(b) Salem - Madhugiri 765 kV S/C line

Length:
219 ckm
Tower locations:
Foundation completed:
Tower erected:
Stringing completed:
Schedule date of completion:
Expected date of completion:

575 Nos.
340 Nos.
228 Nos.
35 ckm
Dec, 2015
Dec, 2016

Representative of PGCIL informed that there is severe ROW in Karnataka portion of the line (about 130 kms ) and also 1 tower locations are falling in wild life sanctuary, which was declared after commencement of work. PGCIL further stated that the proposal for approval is lying with Tamil Nadu Board of Wildlife, whose meeting has not been convened for long time. After clearance of State Wild Life Board, the proposal would go for approval of National Board for Wild life (NBWL).
(xvii)Transmission System associated with IPPs of Vemagiri Area - Package A by M/s Powergrid Vemagiri Transmission Ltd(PGCIL)

Representative of PGCIL informed that project has been scrapped as per the direction of CERC.
(xviii) Transmission system for system strengthening in SR for import of Power from ER by Powergrid Vizag Transmission Ltd(PGCIL)

PGCIL submitted the progress of line as under:
(a) Srikakulam PP - Vemagiri-II PS 765 kV D/C line

| Length: | 668 ckm |
| :--- | :--- |
| Tower locations: | 877 Nos. |
| Foundation completed: | 876 Nos |
| Tower erected: | 864 Nos. |
| Stringing completed: | 588 ckm |
| Schedule date of completion: | August, 2016 |
| Expected date of completion: | August, 2016 |

Representative of PGCIL informed that Vemagiri -II pooling station would be completed matching with line.
(b) Khammam (existing) - Nagarjuna Sagar 400 kV D/C line

Transmission Line commissioned in December, 2015.

## (xix) ATS of Unchahar TPS by M/s PUTL(PGCIL)

PGCIL submitted progress of Unchahar-Fatehpur 400 kV D/C line as under;

| Line Length | 106 Ckm |
| :--- | :--- |
| Tower Location | 145 Nos. |
| Foundation Completed | 143 Nos. |
| Tower erected | 142 Nos. |
| Stringing Completed | 100 Ckm |
| Schedule date of completion | Sept, 2016 |
| Anticipated date of completion | Sept, 2016 |

The representative of POWERGRID informed that as decided in the last review meeting held in CEA on 17.6.2016, NTPC has cleared the site and construction of last foundation (dead end tower) is under construction and line is expected to complete by its schedule date i.e September 2016.

## (xx) NR System Strengthening scheme - NRSS-XXXI (Part-A) by M/s PKATL (PGCIL)

PGCIL submitted progress of transmission works as under;
(a) $7 \times 105$ MVA, $400 / 220 \mathrm{kV}$ GIS at Kala Amb

| Land Acquisition: | $100 \%$ |
| :--- | :--- |
| Civil Work Completed: | $50 \%$ |
| Equipment Received: | $2 \%$ |
| Erection completed: | $0 \%$ |
| Schedule date of completion | July 2017 |
| Expected date of completion | July 2017 |

PGCIL representative informed that Supply and Erection Packages awarded to Siemens in August 2014 and Civil works package awarded to M/s Kashyapi in December 2015. CE(PSPM), CEA enquired about slow progress of substation. PGCIL representative stated that due to snow bound area the working period is less compare to plan area, however PGCIL confirmed to complete substation by its scheduled date i.e 12.07.2017.
(b) LILO of both circuit of 400 kV D/C Karcham Wangtoo - Abdullapur line at Kala Amb
Line Length: 2 km ,

Tower Locations: 4 No
Foundation completed Nil
Towers erected Nil
Stringing completed Nil
Schedule date of completion July 2017
Expected date of completion July 2017
PGCIL representatives informed that work has been awarded to M/s KEC. The length of LILO line is about 2 km and all 4 nos location fall in forest area. The proposal has been submitted and clearance would be received shortly.
(xxi) Transmission System associated with Gadarwara STPS (2x800 MW) of NTPC (Part-A) by M/s PWTL(PGCIL)

PGCIL submitted the progress as under:
(a) Gadarwara STPS -Jabalpur pooling station765 kV D/C line

Stage-1: 765 kV D/C LILO of Seoni-Bina at Gadarwara

Line Length:
31ckm
Tower Locations:
Foundation completed:
Tower erected: 43 No

Stringing completed: Scheduled date of completion: Nov'2016

Stage-2 Dismantle the LILO and extend Line upto Jabalpur S/S,
Line Length: 175 ckm
Tower locations:
Foundation completed: 46 Nos.
Tower erected:
Stringing completed:
Scheduled date of completion: May, 2017
(b) Gadarwara STPS- Warora P.S. (New) 765kV D/C line

| Line Length: | 638 ckm |
| :--- | :--- |
| Tower Locations: | 871 Nos |
| Foundation completed: | 101 Nos. |
| Tower erected: | 16 Nos. |
| Stringing completed: | 0 ckm |
| Scheduled date of completion: | Nov, 2017 |

PGCIL representative informed that construction work was awarded to M/s Simplex in Dec, 2015. PGCIL was advised to expedite construction work as progress is very slow.
(c) LILO of both ckt of Wardha - Parli at Warora (New) PS.

Line Length:
Tower Locations:
Foundation completed:

186 ckm 246 Nos. 8 Nos.

PGCIL representative informed that construction work was awarded to M/s Gammon in Jan, 2016 and submitted proposal for route approval u/s 164 in May, 2016. CE(PSPM) advised PGCIL to expedite u/s 164 approval at the earliest.
(d) $2 \times 1500$ MVA, $765 / 400$ kV Warora (New) Pooling Station

PGCIL representative informed that Land registry for substation has commenced and registry of 57 acre out of 103 Acre completed, balance is under progress. Substation Supply and Erection Package has been awarded to M/s Siemens in Sep'15 and engineering is complete. CE(PSPM) advised PGCIL to expedite the construction of substation to Complete sub-station by Nov'2017.

## (xxii)Transmission System associated with Gadarwara STPS (2x800 MW) of NTPC (Part-B) by M/s PPTL(PGCIL)

PGCIL submitted the progress as under:
(a) Warora PS - Parli (New) 765 kV D/C line

Line Length: 236 km
Tower Locations:
Foundation completed:
950 Nos.
Tower erected:
47 Nos.
Stringing completed:
0 Nos.
$\begin{array}{ll}\text { Stringing completed: } & 0 \mathrm{ckm} \\ \text { Scheduled date of completion: } & \text { Jan, } 2018\end{array}$
(b) Parli (New) - Solapur 765 D/C line

Line Length: 236 ckm
Tower Locations: 309 Nos
Foundation completed: 30 Nos.
Tower erected: 0 Nos.
Stringing completed: 0 ckm
Scheduled date of completion: Jan, 2018
(c) Parli (New) - Parli (PG) 400 kV D/C line

Line Length: 36 ckm
Tower Locations: 52 Nos.
Foundation completed: 3 Nos.
Tower erected: 0 Nos.
Stringing completed: 0 ckm
Scheduled date of completion: Jan, 2018
PGCIL representative informed that work awarded to M/s L\&T and M/s Bajaj on Feb' 16 and confirm that lines would be completed as per schedule.
(d) $2 x 1500 \mathrm{MVA}, 765 / 400 \mathrm{kV}$ Parli (New) substation

PGCIL representative informed that Distt Collector, Parli has ordered for acquisition of land for substation and confirmed that land would be acquired by PGCIL within 15 days.

## (xxiii) Transmission system strengthening associated with Vindhyachal- V by M/s PJTL(PGCIL)

PGCIL submitted the progress as under:
(a) Vindhyachal P.S - Jabalpur P.S. 765 kV D/C line

Line Length: 760 ckm
Tower Location:
Foundation completed:
Tower erected:
Stringing completed:
Scheduled date of completion:

1036 Nos 102 Nos. 0 Nos. 0 ckm June, 2018

PGCIL representative informed that work awarded to M/s Tata and M/ KEC in March, 2015 and confirmed that line would be completed as per schedule.

## (xxiv) Transmission system associated with beyond Vemagiri by M/s PSITSL (PGCIL)

PGCIL submitted the progress as under:
(a) Vemagiri - Chilakaluripeta 765kV D/C Line

Procurement activities initiated, Award placed in Mar'16 to M/s. KPTL.
Tower packages awarded
Line Length: 250 Kms. Approx.
Tower Locations: 660
Foundation completed 09
Towers erected 0
Schedule date of completion: Apr'19
(b) Chilakaluripeta - Cudappah 765kV D/C Line Award placed in Mar'16 to M/s. KEC, Tower packages awarded

Line Length:
Tower Locations:
303 Kms. Approx.
760
Foundation completed 12
Towers erected 0
Schedule date of completion: Apr'19
(c) Cudappah - Madhugiri 400 kV D/C (Quad Moose) Line

Award placed in Mar'16 to M/s. L\&T, Tower packages awarded Line Length: 238 Kms. Approx.
Tower Locations: 616
Foundation completed Nil
Towers erected Nil
Schedule date of completion: Apr'19
(d) Srikakulam - Garividi 400 kV (Quad Moose) D/C Line

Award placed in Mar'16 to M/s. Tata,Tower packages awarded.
Line Length: 143 Kms. Approx.
Tower Locations:
391
Foundation completed 02

## Towers erected

Schedule date of completion: Feb'19
(e) Chilkaluraipeta - Narasaraopeta 400 kV (Quad Moose) D/C Line Award placed in Mar'16, Tower packages awarded.
Line Length:
Tower Locations:
Foundation completed 0
Towers erected 0
Schedule date of completion: Feb'19
(f) $765 / 400 \mathrm{kV}$ Chilakularipeta Substation

Award under progress
Schedule date of completion: Apr'19
PGCIL representative informed that 90 acre pvt. land for Chilkaluraipeta S/S has been identified. Meetings convened at the level of Hon'ble Speaker, Joint Collector, Guntur with landowners. Joint Collector, Guntur has notified Social Impact Assessment committee constitution. Hon'ble Speaker has also briefed the land owners about the suitability of the land and Government's intent to acquire this land for the project.
(g) Satenapalli (Narasaraopeta) 400 kV Substation extension

Award under progress
Schedule date of completion: Apr'19
(h) Garividi 400 kV Substation extension Award under progress
Schedule date of completion: Feb'19
(xxv)Transmission System required for evacuation of Power from Kudgi TPS (3x800 MW in Phase-I) of NTPC Ltd by M/s KTCL(L\&T).

No representative of KTCL attended the meeting.
(xxvi) Transmission system associated with DGEN TPS(1200 MW) of Torrent Power Ltd. by M/s DGEN Transmission Company Ltd.(Instalaciones Inabensa SA Spain)

No representative from M/s DGEN Transmission Company Ltd attended the meeting. It was noted that project authority is yet to start construction of both line. The schedule date of completion of transmission project is May, 2018. Chief Engineer(PSPM) instructed to call project authority for meeting.
(xxvii) Transmission system strengthening in Indian system for transfer of power from new HEP's in Butan-by M/s Alipurduar Transmission Ltd.(A subsidiary of Kalptaru Power Transmission Ltd.)

The transmission projects covers following transmission lines as under-
(a) Alipurduar (PG) - Siliguri (PG) 400 KV D/C line-234 Ckm
(b) Kishanganj (PG) - Darbhanga (DMTCL) 400 KV D/C line-420 Ckm

M/s ATL representative informed that SPV has been acquired in Jan2016 and gazette notification done in April2016 as there was some discrepancies so corrigendum issued in Jun2016. The approval u/s 164 would be received soon. The scheduled date of completion for the scheme is March,2019.

## (xxviii) Transmission System for Patran 400kV S/S - by M/s PTCL(Techno electric)

No representative from M/s PTCL attended the meeting. It was noted that project authority has completed 400 kV LILO line and 400/220 kV substation in Jun,2016.

The meeting ended with thanks to the chair.

## List of Participants

## CEA

1. Shri B K Arya
2. Shri S K Ray Mohapatra
3. Shri Goutam Ray
4. Shri Irfan Ahmad
5. Shri R K Tiwari
6. Shri Farooque Iqbal
7. Shri Narsi Ram Meena
8. Shri C. N. Devrajan
9. Smt Kavita Jha
10. Shri Rajesh
11. Shri Ravi Kant

## PGCIL

1. Shri Vibhay Kumar

AGM
2. Shri P R PATI

AGM
3. Ms. Poonam Varshney
4. Shri A K Viash

AGM
Consultant

## NTPC LTD.

1. Shri Suveen Vyas
2. Shri Anand Mohan Gupta

DGM(PP\&M)
Sr. Manager (Proj. P\&M)

## ADANI TRANSMISSION LTD.

1. Shri L N Mishra
2. Shri Bipin B. Shah
3. Shri Jigar Thakkar
4. Shri Yogesh Agarwal

## KPTL

1. Shri Soumen Sinha

AGM

## PFCCL

1. Shri Sanzay Nayak

AVP

## RECTPCL

1. Shri Vivek Agarwal

Manager

## ESSEL INFRAPROJECTS

1. Shri Amit Kumar

GM
2. Shri Neeraj Verma

## STERLITE GRID

1. Shri TAN Reddy
2. Shri Bigyan Panja
3. Shri S G Mohanty
4. Shri Sandip Maity

Sr. V.P.
Sr. V.P.
AGM
Advisor

| SN | Address | Tele/Fax No./email |
| :---: | :---: | :---: |
| 1 | CMD, <br> NTPC Ltd. NTPC Bhawan, <br> Scope Complex, Institutional Area, Lodhi Road New Delhi-110003. | ```011-24360100, 24387000, 24387001(T) 011-24361018(F) info@ntpc.co.in``` |
| 2 | Chairman \& Managing Director, POWERGRID <br> Saudamini, Plot No.2, Sector 29, Near IFFCO Chowk, Gurgaon Haryana - 122001 | $\begin{aligned} & \text { 0124-2571700-19 } \\ & \text { 0124-2571760, } \\ & \text { 0124-2571762(Fax) } \\ & \text { isjha@powergridindia.com } \\ & \text { prpati@powergridindia.com } \end{aligned}$ |
| 3 | CMD <br> TSTRANSCO <br> Vidyut Soudha, Khairatabad Hyderabad 500082 | $\begin{aligned} & 04023317657(\mathrm{~T}) \\ & 040 \text { 23320565(F) } \\ & \text { cmd transco@telengana.gov.in } \end{aligned}$ |
| 4 | CEO <br> RECTPCL <br> Core-4, Scope Complex <br> 7, Lodhi Road, <br> New Delhi - 110003 | $\begin{aligned} & \text { 011-47964796 (4 Lines) } \\ & 011-47964747(\mathrm{~F}) \end{aligned}$ |
| 5 | CEO <br> PFC Consulting Ltd. First Floor, Urja Nidhi 1, Barakhamba Lane, Connaught Place, New Delhi - 110001 | $\begin{aligned} & \text { 011-23456100(T) } \\ & \text { 011-23456170(F) } \\ & \text { info@pfcclindia.com } \\ & \text { pfcconsulting@pfcindia.com } \end{aligned}$ |
| 6 | ED(TBCB) <br> POWERGRID <br> Saudamini, Plot No.2, Sector 29, <br> Near IFFCO Chowk, <br> Gurgaon (Haryana) - 122001 | $\begin{aligned} & 0124-2571700-19 \\ & 0124-2571760, \\ & 0124-2571762 \text { (Fax) } \end{aligned}$ |
| 7 | ED(CMG) <br> POWERGRID <br> Saudamini, Plot No.2, Sector 29, <br> Near IFFCO Chowk, <br> Gurgaon (Haryana) - 122001 | $\begin{aligned} & \text { 0124-2571700-19 } \\ & \text { 0124-2571760, } \\ & \text { 0124-2571762(Fax) } \\ & \text { sksharma@powergridindia.com } \end{aligned}$ |
| 8 | ED(Engg) <br> POWERGRID <br> Saudamini, Plot No.2, Sector 29, <br> Near IFFCO Chowk, <br> Gurgaon (Haryana) - 122001 | $\begin{aligned} & \text { 0124-2571700-19 } \\ & \text { 0124-2571760, } \\ & 0124-2571762 \text { (Fax) } \end{aligned}$ |
| 9 | CE(Transmission) <br> TSTRANSCO <br> Vidyut Soudha <br> Khairatabad <br> Hyderabad 500082 | $\begin{aligned} & 04023317657(\mathrm{~T}) \\ & 04023320565(\mathrm{~F}) \\ & \text { ce tr transco@telangana.gov.in } \end{aligned}$ |
| 10 | Chief Engineer (Transmission) Bihar State Electricity Board Vidyut Bhawan, Baily Road, Patna Bihar-800021 | 0612-2504655(F) 0612-2504937 Jp bseb@yahoo.co.in |
| 11 | Chief Engineer (TS) <br> Punjab State Transmission Corporation Ltd., The Mall, Mall road, Sheran Wala Gate, Patiala, Punjab- 147001 | $\begin{aligned} & 01752303676 \text { (T) } \\ & 0175-2301536 \text { (F) } \\ & \text { ce-tl@pstcl.org } \\ & \text { cmd@pstcl.org } \end{aligned}$ |


| 12 | T A N Reddy Vice President(CA\&BD) <br> Sterlite Grid Limited, <br> The Mira Corporate Suite, Plot No. 1 \& 2. C Block, $2^{\text {nd }}$ Floor, Ishwar Nagar, Mathura road, New Delhi -110065 | $\begin{aligned} & \text { 011-49962200 (T) } \\ & \text { 011-49962288 (F) } \\ & \text { tan.reddy@sterlite.com } \end{aligned}$ |
| :---: | :---: | :---: |
| 13 | Sr. Vice President Essel Infraprojects Limited $5^{\text {th }}$ Floor, 18 Ramnath house Community Center, Near Green park Metro Station Yusuf Sarai, New Delhi-110049 | $\begin{aligned} & \text { 011-46001198 (T) } \\ & \text { 011-46001185 (F) } \\ & \text { amit.kumar1@infra.esselgroup.com } \end{aligned}$ |
| 14 | Managing Director Techno Electric \& Engineering Co. Ltd 508-509. Skipper Corner, 88 Nehru Place New Delhi-110019 | 011-30542900 (T) $011-26446098(F)$ <br> 011-26446098 (F) <br> pp.gupta @techno.co.in shekhar.vasudev@techno.co.in omkar.gupta@techno.co.in |
| 15 | CEO (Transmission) Kudgi Transmission Limited \#38, Cubbon Road, Bangalore - 560 001, | $80-2502-0119(\mathrm{~T})$ 80-2559-6397 (F) <br> priyanka.bajpai@Intidpl.com |
| 16 | Director <br> Dgen Transmission Company Limited <br> (Inabensa Bharat Pvt. Ltd.) <br> Flat No. 305,306 <br> $9^{\text {th }}$ Floor, Eros Corporate Tower Nehru Place, <br> New Delhi - 110019. | $\begin{aligned} & \text { 011-41608168 (T) } \\ & \text { 011-46542484 (F) } \\ & \text { sachin.gupta@abengoa.com } \end{aligned}$ |
| 17 | Sh L N Misra, Senior Vice President(Transmission), Adani transmission Itd. 7A, Sambhaab House, Judges Bungalow Road, Dodakdev, Ahmadabad, Gujarat-380015 | Tele- 07925555166, Fax- 07925557216 Ln.mishra@adani.com |
| 18 | Sh Kausik Chowdhuri <br> Vice President (PPP Projects) <br> Kalpataru Power Transmission Ltd. <br> $7{ }^{\text {th }}$ Floor, Kalpataru Synergy <br> Opposite Grand Hyatt, vakola, santa Cruz(E) <br> Mumbai 400005 | Tele-02230642156 <br> Fax-02230645000 <br> Mob. 09833945444 <br> kchowdhuri@kalpatarupower.com |

