



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत प्रणाली परियोजना प्रबोधन प्रभाग
Power System Project Monitoring Division

सं. के.वि.प्रा. / पीएस / पीएसपीएम /7/7/2017/

दिनांक: 20.06.2017

सेवा में / To,

(संलग्न सूची के अनुसार / As per attached list)

विषय : टैरिफ आधारित प्रतियोगी बोली (टीबीसीबी) के माध्यम से प्रदत्त ट्रांसमिशन परियोजनाओं की प्रगति की समीक्षा के लिए सदस्य (पीएस), के.वि.प्रा. द्वारा 02.06.2017 को ली गई बैठक का कार्यव्रत ।

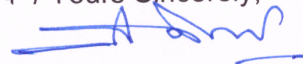
Subject: Minutes of the meeting taken by Member (PS), CEA on 02.06.2017 to review the progress of transmission projects awarded through Tariff Based Competitive Bidding (TBCB).

महोदय / Sir,

Minutes of the meeting taken by Member (PS), CEA on 02.06.2017 to review the progress of transmission projects awarded through Tariff Based Competitive Bidding (TBCB) is enclosed herewith for information and necessary action.

Encl: a/a

भवदीय / Yours Sincerely,


(बी के आर्य / B. K. Arya)

 मुख्य अभियंता / Chief Engineer

प्रति सूचनार्थः

1. Joint Secretary (Trans.), MOP, Shram Shakti Bhawan, Rafi Marg, New Delhi-110001
2. PPS to Chairperson, CEA
3. PPS to Member (PS), CEA

Minutes of the meeting taken by Member (PS), CEA on 02.06.2017 to review the progress of transmission projects awarded through Tariff Based Competitive Bidding (TBCB).

List of participants is attached at Annexure-I.

2. Member (PS), CEA welcomed the participants and emphasized on the need for timely completion of transmission projects awarded through TBCB route and requested Chief Engineer (PSPM) to brief on TBCB projects.
3. Chief Engineer(PSPM) stated that so far 37 transmission projects had been awarded through TBCB route. Out of which 11 projects had been completed. 01 transmission project was cancelled by CERC and construction of 02 transmission projects could not be started as matter is in supreme court due to litigation and Dgen TCL (TSP) has requested to close one project due to financial constraints. He further stated that 22 transmission projects were under various stages of construction.
4. Member(PS) reviewed progress of transmission projects utility-wise and brief of discussion were as under:

A. Power Grid Corporation of India Limited (PGCIL)

POWERGRID informed that 765kV D/C Gadawara STPS – Jabalpur Pooling Station line covered under “Transmission system associated with Gadawara STPP (2x800 MW) Part-A” had been completed and balance 3 nos elements would be completed by Nov’ 17.

POWERGRID stated that they were facing severe ROW problem in 765 kV S/C Salem – Madhugiri line covered under “Transmission System associated with IPPs of Nagapattinam/ Cuddalore Area- Package – A” scheme and progress of 130 km of line in Karnataka has been severely affected. Due to which the construction activity was totally stopped. Chief Engineer (PSPM), CEA, advised POWERGRID to put the line on Pragati Portal.

POWERGRID informed that a new transmission project i.e “765 kV System Strengthening Scheme in Eastern Region-ERSSXVIII” had been awarded to them on 21.02.2017. The SPV i.e, ‘Medinipur-Jeerat Transmission Limited’ was acquired on 28.03.2017. Scope of transmission project is as under:

1. Medinipur - Jeerat (New) 765kV D/c line with Hexa ACSR Zebra conductor along with 240 MVAR (765 kV, 3x80 MVAR single phase units) switchable line reactor with 600 Ω NGR in each circuit at Jeerat (New) end
2. LILO of Jeerat (WB)-Subhasgram (PG) 400 kV S/c section at Rajarhat (PG)
3. 2 no. 400 kV line bays at Haldia New (NIZ) (WBSETCL)
4. Establishment of 765/400kV, 2x1500MVA substation at Medinipur
5. Establishment of 765/400kV, 2x1500MVA substations at Jeerat (New)
6. Ranchi (New) – Medinipur 765kV D/c line with Hexa ACSR Zebra conductor along with 240 MVAR 765 kV (765 kV, 3x80 MVAR single phase units) switchable line reactor with 750 Ω NGR in each circuit at either ends
7. 2 no. 400 kV line bays at Jeerat (WBSETCL)
8. Medinipur – Haldia New (NIZ) (WBSETCL) 400kV D/c line [ACSR Quad Moose/ HTLS (equivalent to ACSR Quad Moose current rating at 85° C)]

9. LILO of both circuits of Chandithala – Kharagpur 400 kV D/c line at Medinipur
10. Jeerat (New) – Jeerat (WB) 400 kV D/c line [ACSR Quad Moose/ HTLS (equivalent to ACSR Quad Moose current rating at 85° C)]
11. Jeerat (New) – Subhasgram 400 kV D/c line (ACSR Quad Moose current rating at 85°C)

PGCIL submitted the progress of transmission projects as given at **Annexure-II**.

B. Adani Transmission Limited

Adani Transmission Limited (ATL) informed that as discussed in the last meeting held in CEA, the NOC by CMPDI/CCL for route of 400 kV line covered in “Immediate Evacuation for North Karanpura (3x660MW) generation project of NTPC (ERSS XIX)” scheme was under process and recommendation would be issued shortly by CCL. ATL informed that progress of transmission elements covered under other transmission projects were on track and facing no issue. ATL submitted progress of Transmission Schemes as given at Annexure-II.

C. Sterlite Grid Limited

Sterlite Grid Limited (SGL) informed that a new transmission project i.e “Transmission system for NER System Strengthening Scheme-II (Part-B) and V (NER-IIB & V)” had been awarded to them on 28.02.2017. The SPV i.e, ‘NER II Transmission Limited’ has been acquired on 31/03/2017. He further stated that they have applied to CERC for grant of transmission license and tariff adoption on 05/04/2017 and would apply to CEA for approval u/s 164 after completion of detailed survey. The scope of transmission project is as under:

1. 400/132 kV, 2x315 MVA Surajmaninagar s/s
2. 400/132 kV, 2x315 MVA S/s at P.K. Bari
3. Surajmaninagar - P. K. Bari 400 kV D/c line
4. AGTPP (NEEPCO) – P.K. Bari (TSECL) 132 kV D/c line
5. Biswanath Chariyalli (POWERGRID) – Itanagar 132kV D/c (Zebra conductor) line with 2 nos. 132kV line bays at Itanagar
6. Silchar (POWERGRID) – Misa (POWERGRID) 400kV D/c (Quad) line.
7. Establishment of 400/132 kV, 2x315 MVA S/s at Surajmaninagar 400 kV
8. Establishment of 400/132 kV, 2x315 MVA S/s at P.K. Bari 400 kV
9. Surajmaninagar - P. K. Bari 400 kV D/c line.
- 10.2 no. 400 kV line bays at Palatana GBPP switchyard for termination of Palatana - Surajmaninagar 400kV D/c line.
11. AGTPP (NEEPCO) – P.K. Bari (TSECL) 132 kV D/c line with high capacity HTLS conductor (equivalent to single moose ampacity at 85°C)

SGL informed that progress of transmission elements covered under other transmission projects were on track and facing no issue. SGL informed that they have started construction of LILO line (Delina-Zainkote at Amargarh) required for connecting Samba- Amargarh 400 kV line with state grid. SGL requested CEA to arrange a meeting to assess the progress of termination bays being constructed by PGCIL. SGL submitted the progress of transmission projects as given at Annexure-II

D. Essel Infraprojects Ltd

Essel Infraproject Ltd(EIL) representative stated that Motihari s/s alongwith associated line had been delayed due to severe RoW issues and work was stopped for few days at Motihari S/s which got started with intervention of district authority. He further stated that both transmission elements would be completed by Aug'17. EIL informed that progress of transmission elements covered under other transmission projects were on track and facing no issue. EIL submitted progress of transmission schemes as given at Annexure-II.

E. DGEN Transmission Company Ltd. / Reliance Power Transmission Ltd.

No representative attended meeting

F. Kalpataru Power Transmission Ltd.

Kalpataru Power Transmission Ltd.(KPTL) informed that a new transmission project i.e "North Eastern Region Strengthening Scheme (NERSS-VI)" had been awarded to them on 17/01/2017. The SPV i.e, 'Kohima-Mairani Transmission Limited' had been acquired on 31/03/2017 and the scope of transmission project is as under:

1. Establishment of 400/220 kV, 2x500 MVA s/s at new Kohima
2. Imphal-New Kohima 400 kV D/C line
3. New Kohima -New Mariani 400 kV D/c line

KPTL informed that progress of transmission elements covered under other transmission projects were on track and facing no issue. KPTL submitted progress of transmission schemes as given at Annexure-II.

5. Chief Engineer (PSPM), CEA advised POWERGRID, Sterlite Grid Limited and Kalpataru Power Transmission Ltd. to submit the execution plan of newly awarded transmission projects and also make a demo of execution plan.

The meeting ended with thanks to the chair.

List of Participants

Central electricity Authority(CEA)

- | | | |
|----------------------|-----------------------------|------------|
| 1. P.S. Mhaske | Member (Power System) | - in chair |
| 2. B. K. Arya | Chief Engineer (PSPM) | |
| 3. B.S. Bairwa | Director(PSPM) | |
| 4. R. K. Tiwari | Deputy Director(PSPM) | |
| 5. N.R. Meena | Deputy Director(PSPM) | |
| 6. Rajesh | Assistant Director-I(PSPM) | |
| 7. Ravikant | Assistant Director-II(PSPM) | |
| 8. Avinash Pathak | Assistant Director-II(PSPM) | |
| 9. Yadav Manoj Kumar | Assistant Director-II(PSPM) | |

Powergrid corporation of India Ltd.(PGCIL)

- | | |
|--------------------|------------|
| 1. Poonam Varshney | AGM (TBCB) |
| 2. A. K. Vaish | Consultant |

ADANI TRANSMISSION LTD.(ATL)

- | | |
|-----------------|-----------|
| 1. L.N. Mishra | SR. V. P. |
| 2. Sameer Ganju | GM |

STERLITE GRID LTD.(SGL)

- | | |
|------------------|---------------|
| 1. T.A.N. Reddy | V.P |
| 2. Bigyan Parija | AVP(PROJECTS) |
| 3. Rohit Gera | Engineer |

KALPATARU POWER TRANSMISSION LTD.(KPTL)

- | | |
|---------------------|---------|
| 1. Kausik Chowdhuri | V.P |
| 2. Ajay Tripathi | G.M |
| 3. Atul Duggal | MANAGER |

ESSEL INFRAPROJECT LTD.(EIL)

- | | |
|---------------|----|
| 1. Amit Kumar | GM |
|---------------|----|

General Review of Progress of Transmission Projects awarded through TBCB Route

POWERGRID

1 Transmission system associated with IPPs of Nagapattinam/ Cuddalore Area – Package A									
S. no.	Element Name	Km/	TL/	STC/	TE/	STG/	Sch. Date	Ant. Date	Remarks
		MVA	LA	CW	ES	EE			
A	Nagapattinam Pooling Station-Salem 765 kV D/C line	Commissioned 10/2016							
B	Salem - Madhugiri 765 kV S/C line	219	575	544	514	100	Dec'15	Mar'18	<p>a) Wildlife clearance issue: 2 location in Wild Life proposal forwarded to National Wild Life Board, Delhi on 15.05.17. Committee decided that member of standing committee will inspect and submit their report by June'17 end for further consideration.</p> <p>b) RoW issue: Severe ROW being faced in Ramnagara and Tumkur districts of Karnataka (130 kms) of the line. work progressing very slowly</p>
2 NR System strengthening Scheme-NRSS-XXXI(Part-A)									
A	7x105 MVA, 400/220 kV GIS at Kala amb	7x105	100%	95%	95%	80%	Jul'17	Jul'17	
B	LILO of both ckt of Karcham Wangtoo - Abdullapur 400 kV D/C line at Kala Amb	2	4	4	4	2	Jul'17	Jul'17	<p>• Work completed.</p> <p>a) Forest/Wildlife clearance issue: Stage I received</p> <p>b) LILO shutdown requested to OCC. Yet to be received. Critical</p>
3 Transmission System associated with Gadawara STPS (2x800 MW) of NTPC (Part-A)									
A	Gadarwara STPS - Jabalpur PS 765 kV D/C line	87.5	227	227	227	87.5	Nov'17	May'17	Line commissioned and declared under commercial operation w.e.f. 31.05.2017
B	Gadarwara STPS- Warora P.S. (New) 765kV D/C line	314	871	602	489	63.5	Nov'17	Nov'17	<p>a) Forest/Wildlife clearance issue: MP portion: Proposal submitted online as well as in hardcopy, Proposal under processing. Maharashtra Portion: Online proposal submitted on 09.09.16.</p> <p>b) There is a change in route alignment to avoid Mining area at Savner of Western Coalfields Ltd. which hampered the progress and also delayed submission of forest proposal</p> <p>c) Line is passing through SEZ area (MP) where RoW is being faced (19 locations held up, next court hearing on till 11.05.17)</p>

S. no.	Element Name	Km/ MVA	TL/ LA	STC/ CW	TE/ ES	STG/ EE	Sch. Date	Ant. Date	Remarks
C	LILO of both Ckts. of 400kV Wardha - Parli at Warora (New) Pooling Station	97	269	227	191	30	Nov'17	Nov'17	
D	2x1500 MVA, 765/400 kV Warora (New) pooling station	2x1500	100%	15%	0%	0%	Nov'17	Nov'17	
4	Transmission System associated with Gadarwara STPS (2x800 MW) of NTPC (Part-B)								
A	Warora Pooling Station - Parli (New) 765 kV D/C line	348	919	714	526	38.5	Jan'18	Jan'18	Forest clearance issue: Forest Proposal submitted.
B	Parli (New) - Solapur 765 kV D/C line	118	311	223	151	2	Jan'18	Jan'18	
C	Parli (New) – Parli (PG) 400 kV D/C (Q) line	18.2	52	28	23	0	Jan'18	Jan'18	Severe ROW being faced in Maharashtra. Being resolved on case to case basis.
D	2x1500 MVA, 765/400 kV Parli (New) sub station	2x1500	100%	15%	10%	0%	Jan'18	Jan'18	
5	Transmission System Strengthening associated with Vindhyachal- V								
A	Vindhyachal Pooling Station - Jabalpur Pooling Station line 765 kV D/C line	374	1008	652	229	3.5	Jun'18	Jun'18	Forest clearance issue: Proposal submitted and under processing.
6	Strengthening of Transmission system beyond Vemagiri								
A	Vemagiri - Chilakaluripeta 765kV D/C Line	251	674	377	147	0	Apr'19	Apr'19	Severe RoW being faced in Guntur and Krishna district. Work held up at 121 locations since last one month in Vemagiri –C' Peta Line.
B	Chilakaluripeta - Cudappah 765kV D/C Line	305	763	471	385	36.5	Apr'19	Apr'19	

S. no.	Element Name	Km/ MVA	TL/ LA	STC/ CW	TE/ ES	STG/ EE	Sch. Date	Ant. Date	Remarks
C	Cudappah - Madhugiri 400 kV D/C (Quad Moose) Line	240	652	250	129	0	Apr'19	Apr'19	
D	Srikakulam - Garividi 400 kV (Quad Moose) D/C Line	145	394	195	127	0	Apr'19	Feb'19	
E	Chilkalurapeta - Narasaraopeta 400 kV (Quad Moose) D/C Line	30	80	0	0	0	Apr'19	Apr'19	
F	765/400kV Chilakularipeta Substation	7x500	100%	2%	0%	0%	Apr'19	Apr'19	Work started
G	Satenapalli (Narasaraopeta) 400 kV Substation extension		0%	0%	0%	0%	Apr'19	Apr'19	
H	Garividi 400 kV Substation extension		0%	0%	0%	0%	Apr'19	Apr'19	

7	Eastern Region Strengthening Scheme-XVIII								
A	Ranchi – Medinipur 765kV D/C line						Jul'20	Jul'20	SPV acquired
B	Medinipur - Jeerat (New) 765kV D/C line						Jul'20	Jul'20	
C	Jeerat (New) – Subhasgram 400kV D/C line						Jul'20	Jul'20	
D	Jeerat (New) – Jeerat (WBSETCL) 400kV D/C line						Jul'20	Jul'20	
E	LILO of Jeerat (WBSETCL) – Subhasgram (PG) 400kV						Jul'20	Jul'20	
F	LILO of both circuits of Chandithala – Kharagpur 400kV D/C line at Medinipur						Jul'20	Jul'20	
	2x1500 MVA , 765/400 kV Substation at Medinipur						Jul'20	Jul'20	
H	2x1500 MVA , 765/400 kV Substation at Jeerat (New)						Jul'20	Jul'20	
I	Extension of 400 kV Substation at Jeerat (WBSETCL)						Jul'20	Jul'20	

S. no.	Element Name	Km/	TL/	STC/	TE/	STG/	Sch. Date	Ant. Date	Remarks
		MVA	LA	CW	ES	EE			

Sterilite Grid

8	Northern Regional System Strengthening Scheme, NRSS-XXIX									
A	Jullandhar – Samba 400 kV D/C line	Commissioned 06/2016								
B	Samba – Amargarh 400 kV D/C line	562	760	716	615	340	Oct'18	Sep'17	a) RoW issue: Yes, at AP 34/0 in Village Gazipur Kullian, Tehsil R.S. Pura, District Jammu. b) PTCC Clearance pending. c) Forest Clearance proposal (58.43 Ha) for diverted route is pending with Secretary, Forest for Forest Minister approval. d) Work is hampering due to unrest in Kashmir.	
C	GIS at Amargarh 400/220 kV S/s	7x105	100%	80%	84%	5%	Oct'18	Sept'17	Construction is in progress.	
D	LILO of both circuit of Uri – Wagoora 400 kV D/C line at Amargarh	6	23	4	0	0	Oct'18	Sept'17		
9	Connectivity lines for Maheshwaram 765/400 kV S/S									
A	Maheshwaram – Mahboobnagar 400 kV D/C line	196.4	255	247	238	138	Jun'18	July'17	a) RoW issue: Yes (Facing Severe RoW Issue at Location no. 5/3, 6/0, 7/0, 8/0, 9/0, 41/0, 42/0 and 43/0 in Tehsil Kandkoor, Pedamandadi and District Rangareddy, Wanaparthi) b) PTCC Clearance pending.	
B	Nizamabad – Yeddumailaram (Shankarpalli) 400 kV D/C line	277.38	367	367	366	275	Jun'18	June'17	a) RoW issue: Yes (Facing Severe RoW Issue at Location no. 40/0 in Tehsil Kandi and District Sangareddy) b) Power Line crossing Approval pending with TSTRANSCO between location No. 51/0 – 52/0	
C	2 No. of 400 kV line bays at Mehboob Nagar S/S of TSTRANSCO		100%	100%	100%	70%	Jun'18	June'17		
D	2 No. of 400 kV line bays at Yeddumailaram S/S of TSTRANSCO.		100%	100%	100%	100%	Jun'18	May'17	Received Approval for Energisation certificate by CEA, E.I. Division on 15-05-2017	

S. no.	Element Name	Km/	TL/	STC/	TE/	STG/	Sch. Date	Ant. Date	Remarks
		MVA	LA	CW	ES	EE			
10	Common Transmission system for phase-II generation projects in Orissa and immediate evacuation system for OPGC project (Orissa)								
A	Jharsuguda – Raipur 765 kV D/C (hexa) line	608	778	536	386	92	Aug'19	Mar'18	a) RoW issue: Yes (Facing Severe RoW Issue in various Locations in District Durg, Baloda Bazar, Bhatapara, Janjgir, Champa Raigarh and Sundargarh) b) Forest/Wildlife clearance issue: Yes (Forest Clearance proposal (94.656 Ha) pending with Nodal Officer, Govt. of Odisha, Bhubaneswar for non-availability of CA Land and Forest Clearance proposal (71.767 Ha) pending with Nodal Officer, Govt. of Chhattisgarh) c) PTCC Clearance pending.
B	OPGC TPS– Jharsuguda 400 kV D/C (triple) line	102.5	152	142	127	45	Jul'17	Jul'17	a) RoW issue: Yes (Facing Severe RoW Issue in Location No. 22/2, 24/0, 52/0 in Tehsil Jharsuguda and Lakhanpur in District Jharsuguda) b) Forest/Wildlife clearance issue: Yes (Tree Cutting Permission is pending) c) PTCC Clearance pending d) Delay in getting railway Crossing Approval from DRM, Chakradharpur between location No. 28/0 – 29/0.

11	Creation of new 400 kV GIS in Gurgaon area and Palwal as a part of ISTS								
A	Aligarh-Prithala 400 kV D/C HTLS line	98.56	107	1	0	0	May'19	Mar'18	Detailed survey completed.
B	Prithala-Kadarpur 400 kV D/C HTLS line	54.9	64	0	0	0	May'19	Mar'18	
C	Kadarpur-Sohna road 400 kV D/C HTLS line	22.14	30	0	0	0	Sep'19	Mar'18	
D	LILO of Gurgaon – Manesar 400 kV D/C (Q) line at Sohna Road	0.78	2	0	0	0	Sep'19	Mar'18	
E	Neemrana(PG) – Dhanonda 400 kV D/C HTLS line	93.26	110	52	9	0	May'19	Mar'18	
F	2x500 MVA, 400/220 kV GIS at Kadarpur (Gurgaon)	0	0	0	0	0	May'19	Mar'19	Land Acquisition is under progress.
G	2x500 MVA, 400/220 kV GIS at Sohna Road (Gurgaon)	0	0	0	0	0	Sep'19	Mar'19	Land Acquisition is under progress.
H	2x500 MVA, 400/220 kV GIS at Prithala(Palwal)	100	0	0	0	0	May'19	Mar'19	Land has been acquired.
I	2 nos. of 400kV bays at Dhanonda S/S						May'19	Mar'18	

S. no.	Element Name	Km/	TL/	STC/	TE/	STG/	Sch. Date	Ant. Date	Remarks
		MVA	LA	CW	ES	EE			

12	Connectivity system for Khargone TPP (2x660 MW)								
A	LILO of one ckt of Khandwa - Rajgarh 400kV D/C line at Khargone TPP	13.556	20	0	0	0	Feb'18	Feb'18	Detailed survey completed.
B	Khargone TPP – Khandwa pool 400 kV D/C (Quad) line	49.423	70	0	0	0	Jul'19	Jul'19	
System strengthening in WR in time frame of Khargone TPP									
C	i. Khandwa Pool – Indore 765kV D/C line	179.14	246	56	5	0	Jul'19	Jul'18	Detailed survey completed.
D	ii. Khandwa Pool – Dhule 765 kV D/C line	378.1	485	62	8	0	Jul'19	Jul'18	
E	iii. Establishment of 765/400kV, 2x1500MVA pooling station at Khandwa	60	0	0	0	0	Jul'19	Jul'19	Land Acquisition is under progress.
F	2 nos. of 765 kV line bays and 7 X 80 MVAR Switchable line reactors (1 unit as spare) along with 800 Ω NGR and its auxiliaries for Khandwa Pool – Dhule 765 kV D/C at Dhule 765/400 kV substation of M/s BDTCL						Jul'19	Jul'18	

13	Transmission system for NER System Strengthening Scheme-II (Part-B) and V (NER-IIB & V)								
A	400/132 kV, 2x315 MVA Surajmaninagar s/s						July'20		
B	400/132 kV, 2x315 MVA S/s at P.K. Bari						July'20		
C	Surajmaninagar - P. K. Bari 400 kV D/c line						July'20		
D	AGTPP (NEEPCO) – P.K. Bari (TSECL) 132 kV D/c line						Mar'20		
E	Biswanath Chariyalli (POWERGRID) – Itanagar 132kV D/c (Zebra conductor) line						Mar'20		

<i>S. no.</i>	<i>Element Name</i>	<i>Km/ MVA</i>	<i>TL/ LA</i>	<i>STC/ CW</i>	<i>TE/ ES</i>	<i>STG/ EE</i>	<i>Sch. Date</i>	<i>Ant. Date</i>	<i>Remarks</i>
<i>F</i>	Itanagar S/s (Arunachal Pradesh); 2 nos. 132kV line bays for termination of Biswanath Chariyalli (POWERGRID) – Itanagar 132kV D/c (Zebra conductor) line						Mar'20		1. SPV has been acquired. 2. Detailed Survey is under process. 3. Land Identification and Acquisition for Substation in under process.
<i>G</i>	Silchar (POWERGRID) – Misa (POWERGRID) 400kV D/c (Quad) line.						Nov'20		
<i>H</i>	LiLo of one circuit of Biswanath Chariyalli (POWERGRID) - Itanagar 132 kV D/C line at Gohpur (AEGCL)						Mar'20		
<i>I</i>	2 no. of 400kV line bays at Palatana GBPP switchyard for termination of Palatana - Surajmaninagar 400kV D/C line						July'20		
<i>J</i>	2 no 132kV line bays at AGTPP generation switchyard for termination of AGTPP (NEEPCO) - P.K. Bari (TSECL) 132kV D/C Line.						Mar'20		
<i>K</i>	2 no. 132 kV line bays at P.K. Bari (TSECL) S/s for termination of AGTPP (NEEPCO) - P.K. Bari (TSECL) 132 kV D/c line						Mar'20		

S. no.	Element Name	Km/	TL/	STC/	TE/	STG/	Sch. Date	Ant. Date	Remarks
		MVA	LA	CW	ES	EE			

Essel Infra

Eastern Region System Strengthening Scheme-VI									
14	Eastern Region System Strengthening Scheme-VI								
A	Muzaffarpur (PG) - Darbhanga 400 kV D/c line with triple snowbird conductor	Commissioned 04/2017.							
B	LILO of Barh –Gorakhpur 400 kV 2xD/c line at Motihari	151.36	210	210	206	138	Aug'16	Jun-17	RoW at Location No. 8/1, 11/0, 11/1 & 14/1 for Tower erection is severely affecting the construction work.
C	2x500 MVA, 400/132 kV Motihari GIS with space for future extension	2x500	100%	90%	95%	90%	Aug'16	Jun-17	
Development of Additional Inter regional AC link for import into Southern region i.e Warora-Warangal and Chilakaluripeta – Hyderabad – Kurnool 765 kV link									
A	Establishment of 765/400 kV substations at Warangal (New) with 2X1500 MVA transformers						Nov'19		Land acquisition under process.
B	Warora (Pool) – Warangal (New) 765 kV D/C						Nov'19		1) Transmission Line route alignment and detailed survey work is completed. 2) Designing work of 765 kV D/C Transmission Line is completed.
C	Warangal (New) – Hyderabad 765 kV D/C line						Nov'19		
D	Warangal (New) – Warangal (existing) 400 kV (quad) D/C line.						Nov'19		
E	Hyderabad- Kurnool 765 kV D/C line						Nov'19		
F	Warangal (New) – Chilakaluripeta 765 kV D/C line						Nov'19		
System strengthening in northern region (NRSS XXXVI) along with LILO of Sikar-Neemrana 400 kV D/C line at Babai									
A	Koteshwar Pooling Station - Rishikesh 400kV D/C (HTLS) line – 83.152 ckm.						Dec'19		
B	2 Nos. of bays at 400 kV Rishikesh S/S						Dec'19		
C	LILO of one ckt of 400 kV D/c Sikar (PG) – Neemrana (PG) line at Babai- 2.922 ckm.						Jul-17		

S. no.	Element Name	Km/	TL/	STC/	TE/	STG/	Sch. Date	Ant.	Remarks
		MVA	LA	CW	ES	EE		Date	

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17 Additional system strengthening for Sipat STPS									
A	Sipat STPS - Bilaspur 765 kV S/C (Q) line	24	73	62	48	10.5	Nov'18	Nov'17	a) RoW issue: Severe ROW being faced and taken up on case-to-case basis.
B	Bilaspur - Rajnandgaon 765 kV D/C (hexa) line	322	423	407	368	195.5	Mar'19	Dec'17	a) RoW issue: Severe ROW being faced and taken up on case-to-case basis b) Powerline Crossings: approval for crossing 2 nos of PGCIL lines in single span is awaited. c) Delay in availability for shutdown of 33KV & 11KV lines affecting stringing.
C	765 kV Bay at Sipat s/s						Nov'18	May'17	Charged on 30.05.2017
18 Additional system strengthening for Chhattisgarh (B)									
A	Raipur - Rajnandgaon 765 kV D/C (hexa) line	80	104	104	104	79.4	Nov'18	May'17	Line completed in May'17.
B	Rajnandgaon - Warora 765 kV D/C (hexa) line	532	689	526	417	168.3	Nov'18	Jul'18	a) RoW issue: Severe ROW being faced and taken up on case-to-case basis b) Delay in availability for shutdown of 33KV & 11KV lines affecting stringing. C) Forest approval awaited.
C	765 kV Rajnandgaon switching station		100%	88%	89%	89%	Nov'18	Nov'17	
19 System strengthening for IPPs in Chhattisgarh and other generation projects in western region									
A	Gwalior - Morena 400 kV D/C (Q) line	96	145	142	133	64.8	May'18	Jul'17	a) RoW issue: Severe ROW being faced and taken up on case-to-case basis b) NGT in the month of Oct'16 had directed that all the stone crushers and quarries be closed in Bilowa (District Gwalior), which in inturn is delaying foundation works due to non-availability of coarse and fines aggregate. c) Delay in availability for shutdown of 33KV & 11KV lines affecting stringing.
B	2x315 MVA, 400/220 kV Morena substation		100%	43%	23%		May'18	Jan'18	
C	Vindhyachal STPS - IV & V – Vindhyachal pool 400 kV D/C (Q) line	54	87	81	60	18.6	Jan'19	Dec'17	a) RoW issue: Severe ROW being faced and taken up on case-to-case basis b) Delay in availability for shutdown of 33KV & 11KV lines affecting stringing.
D	400 kV bays (2 nos.) at Vindhyachal STPP switchyard						Jan'19	Nov'17	
E	Sasan UMPP – Vindhyachal Pooling Station 765 kV S/C (Q) line	6	22	21	6	0.1	Nov'18	Dec'17	a) RoW issue: Severe ROW being faced and taken up on case-to-case basis b) Approval of Reliance Power on the RoW for the line terminating at Sasan Switchyard received on 10.08.2016.

<i>S. no.</i>	<i>Element Name</i>	<i>Km/ MVA</i>	<i>TL/ LA</i>	<i>STC/ CW</i>	<i>TE/ ES</i>	<i>STG/ EE</i>	<i>Sch. Date</i>	<i>Ant. Date</i>	<i>Remarks</i>
<i>F</i>	Raigarh (Kotra) – Champa (Pool) 765 kV S/C (Q) line	94	255	213	193	42.9	Nov'18	Dec'17	a) RoW issue: Severe ROW being faced and taken up on case-to-case basis
<i>G</i>	Champa (Pool) – Dharamjaygarh 765 kV S/C (Q) line	49	147	121	109	18	Nov'18	Dec'17	a) RoW issue: Severe ROW being faced and taken up on case-to-case basis
<i>H</i>	LILO of one ckt of Aurangabad – Padghe 765 kV D/C (hexa) line at Pune	128	178	65	32	0	Mar'19	July'18	a) RoW issue: Severe ROW being faced and taken up on case-to-case basis.
<i>I</i>	765 kV bays at Sasan UMPP						Nov'18	Aug'17	a) Shutdown confirmation awaited from Reliance. Request submitted on 30.05.2017 for shutdown from 14.07.2017 to 17.07.2017 & 19.07.2017 to 22.07.2017
20	Immediate evacuation for North Karanpura (3x660MW) generation project of NTPC(ERSS XIX)								
<i>A</i>	North Karanpura – Chandwa (Jharkhand) Pooling Station 400kV D/c line	63	112	4	0	0	Sep'17		a) CCL & CMPDI disallowed construction on BPC route; hence, work had to be stopped. NOC still awaited
<i>B</i>	North Karanpura – Gaya 400kV D/c line	185	265	31	0	0	Sep'19		a) NOC for the route has not been received from Ministry of Coal / CCL / CMPDI.
<i>C</i>	Establishment of 400/220 kV, 2x500 MVA sub-station at Dhanbad	2x500	0%	0%	0%	0%	May'19	May'19	
<i>D</i>	LILO of both circuits of Ranchi – Maithon-RB 400kV D/c line at Dhanbad	2.4	0	0	0	0	May'19	May'19	

S. no.	Element Name	Km/	TL/	STC/	TE/	STG/	Sch. Date	Ant. Date	Remarks
		MVA	LA	CW	ES	EE			
<u>KALPATRU</u>									
21	Transmission system strengthening in Indian system for transfer of power from new HEP's in Bhutan								
A	Alipurduar (PG) – Siliguri (PG) 400 KV D/C line	232	326	82	11	0	Mar'19	Mar'19	Severe ROW issues being faced on every location demanding high compensations. (majorly of political nature). Work is being done after clearing locations upon rigorous negotiations with landowners.
B	Kishanganj (PG) – Darbhanga (DMTCL) 400 KV D/C line	418	542	287	97	0	Mar'19	Mar'19	
<u>INABENSA S A SPAIN</u>									
22	Transmission system associated with DGEN TPS(1200 MW) of Torrent Power Ltd.								
A	DGEN TPS – Vadodara 400 kV D/C line						May'18	May'18	Project authority had not started construction activity as per execution plan. Matter was taken up with the project authority and notice served in August/Sept 2016 but project authority did not respond.
B	Navsari - Bhesatan 220 kV D/C line						May'18	May'18	
<u>RELIANCE POWER CO. LTD.</u>									
23	System strengthening in NR for import of power from North Karanpura and other projects outside NR and system strengthening in WR for import of								
A	Lucknow – Bareilly 765 kV D/C line						Nov'13		The Company had approached Central Electricity Regulatory Commission (CERC) for allowing tariff revision and Force Majeure due to delay in grant of clearance u/s 164 of Electricity Act (EA).The case is subjudice in Appellate Tribunal for Electricity (ATE). Next hearing in ATE is due on 19th July 2017.
B	Bareilly – Meerut 765 kV D/C line						Nov'13		
C	Agra – Gurgaon(ITP) 400 kV D/C line						Nov'13		
D	Gurgaon(ITP) – Gurgaon (PG) 400 kV D/C line						Nov'13		
E	Gurgaon (ITP) 400/220 kV GIS Substation						Nov'13		
F	Sipat/Korba pooling station – Seoni400 kV D/C line						Nov'13		
24	Augmentation Talcher-II Transmission System								
A	Talcher II- Rourkela 400 kV D/C Quad line						Oct'12		The Company had approached Central Electricity Regulatory Commission (CERC) for allowing tariff revision and Force Majeure due to delay in grant of clearance u/s 164 of Electricity Act (EA).The case is subjudice in Appellate Tribunal for Electricity (ATE). Next hearing in ATE is due on 19th July 2017.
B	Talcher II – Behrampur 400 kV D/C line						Oct'12		
C	Behrampur- Gazuwaka 400 kV D/C line						Oct'12		
D	2x315 MVA, 400/220 kV Behrampur substation						Oct'12		