



ISO: 9001-2008

**Monthly progress Report of
Transmission Projects awarded
through
Tariff Based Competitive Bidding
(TBCB) Route
(As on 30.09.2018)**

**Government of India
Ministry of Power
Central Electricity Authority
New Delhi**

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Total Transmission Projects	:	41
Transmission Projects Commissioned/Ready for commissioning	:	18
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Tr. Project where TSP has requested for closing of project	:	01
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(1) Name of transmission project - Transmission system associated with IPPs of Nagapattinam/ Cuddalore Area – Package A

Background

This transmission scheme has been planned for evacuation of power from various generating station being developed by IPPs in Nagapattinam/ Cuddalore area.

Scope of transmission project

1. Nagapattinam Pooling Station-Salem 765 kV D/C line
2. Salem - Madhugiri 765 kV S/C line

General Details

Special Purpose Vehicle (SPV)	:	Powergrid Nagapattinam-Madhugiri Transmission Limited (A subsidiary of PGCIL)
Bid Process Coordinator (BPC)	:	Power Finance Corporation
Levellised Tariff (Rs. Crs)	:	98.702
Request for Qualification	:	28.05.2011
Request for Proposal	:	20.09.2011
Letter of Intent	:	06.03.2012
Transmission Service Agreement (TSA)	:	02.02.2012
SPV acquisition	:	29.03.2012
Transmission License by CERC	:	20.06.2013
Tariff adoption by CERC	:	09.05.2013
Contract Performance Guarantee	:	29.03.2012
Clearance u/s 164 of EA2003	:	09.12.2013
Execution plan submitted to CEA	:	28.05.2011
NIT issued on	:	13.07.2012
EPC contract awarded on	:	16.05.2014
Scheduled Date of Completion	:	28.12.2015
Anticipated Date of Completion	:	Nov'18

Status of progress of transmission project

Work awarded on 16.5.2014 to M/s Gammon and M/s ICOMM.

1. Nagapattinam Pooling Station-Salem 765 kV D/C line
Line commissioned on 23.10.16.
2. Salem - Madhugiri 765 kV S/C line

Length	219 km
Locations	575 nos.
Foundation completed	574 nos.
Towers erected	573 nos.
Stringing completed	203 km
Scheduled COD	Dec'2015
Anticipated COD	Nov'2018

Constraints if any:

Forest/Wildlife clearance issue: 2 locations in Wild Life. Stage-I clearance has been received on 23.8.17. Demand note for NPV and CA received from forest deptt in June 2018.

RoW issue: Severe Right of Way has been faced throughout in Karnataka. Implementation of 765 kV S/C Salem – Madhuguri Line is severely affected due to acute RoW issues prevailing and mass agitation of villagers in the State of Karnataka.

- Construction works of the line in Ramnagara and Tumkur District were continuously resisted by local people
- Progress of works suffered due to delay in carrying out revenue survey needed to identify land owners for land under towers and corridor for assessment of compensation payments.
- Subsequent to order issued by D.C.Tumkur & DC Ramanagara for enhanced compensation for the land under towers and corridor, PNMTL agreed to pay the higher compensation, still there were statewide protests.
- Matter was highlighted in Hon'able PM review meeting PRAGATI held in July' 17 wherein it was requested to provide support i.r.o. following :
- Administrative support in resolving the ROW issues and providing police support in critical locations on need basis.
- The required support by administration has been extended recently and works also picked up momentum.

Court Cases: 4 Nos. land owners in Tumkur District have filed petitions in Hon'ble High Court of Karnataka seeking change of route alignment of the transmission line. 2 Cases are cleared and 2 cases are pending.

Status of statutory approvals:**Forest**

Details of Tr. Line Falling under Forest:- Locations: 5 nos. Length: 2.703km

Forest area affected (ha) : 15.61Ha

Papparappatti RF 6.42 Ha

Proposal submitted: 16.08.12, Stage-II received on 27.12.2016

Rampur KK RF

Proposal Submitted : 31.12.2016, Proposal forwarded to CF on 26.8.16, revised proposal with necessary documentation was uploaded by DCF on 29.11.2017 and Stage-I clearance obtained.

Tali RF 9.19Ha

Stage-I clearance received on 23.8.17. Compliance submitted and Stage-II received on 25.07.2018.

Power line crossing (66kV and above)

Total no. of crossings	:	25	nos.	
Proposal submitted	:	25	nos.	Date: 19/08/16
Approval obtained	:	16	done	

Railway crossing

Total no. of crossings	:	3	nos.	
Proposal submitted	:	3	nos.	Date: (20/02/16, & 25/02/16)
Approval obtained	:	3	nos.	Date: 02/02/17

National Highway Crossing

Total no. of crossings	:	5	nos.	
Proposal submitted	:	5	nos.	
				Date: [06/07/16, 03/08/16, 10/08/16, 17/08/16 (2 Nos.)]
Approval obtained	:	3	nos.	

River Crossings**NA****PTCC approval**

Proposal submitted to Defence on 20/10/2015

Proposal submitted to BSNL on 20/10/2015

Proposal submitted to Railways on 20/10/2015

Current status: Energisation approval obtained on 05/08/2017 for Karnataka portion and for Tamil Nadu portion on 17/05/2018.

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on 27/10/2015 & 30/12/2015

Current Status: clearance obtained on 05/02/2016 & 24/08/2016.

(2) Name of transmission project -Transmission System associated with IPPs of Vemagiri Package-A

Background

The transmission corridor covered under the present project has been evolved to evacuate power from the proposed IPP generation projects in the Vemagiri area, Andhra Pradesh. Vemagiri area in Andhra Pradesh has huge potential of Gas based generation projects due to availability of Gas in Krishna-Godavari basin. The availability of the Gas as fuel has attracted many IPP developers to establish power plants in the vicinity. In this regard, 4 nos. of IPP generation projects with the total installed capacity of about 5400 MW have been granted LTA for quantum of 5150 MW. Further, as per the connectivity applications made, there are few more generation capacities likely to be available in the vicinity.

In view of above, considering the huge generation potential in this area a comprehensive transmission system has been planned so as to take care of the evacuation needs of generation projects of Vemagiri area. For this a 765/400 kV pooling station at Vemagiri (GIS) is to be established through LILO of Gazuwaka – Vijayawada 400kV S/c with bypass arrangements. All the power from different power plants will be pooled at this pooling station through 400kV transmission lines. The power so pooled at Vemagiri Pooling Station shall be further dispersed through high capacity transmission corridors of 1xD/c 765kV lines towards Hyderabad via Khammam to supply target beneficiaries in Southern region through displacement.

Further the generation project has target beneficiaries in Western Region & Northern Region of about 1230MW & 450 MW respectively, for this power transfer a 765kV high capacity corridor have been planned viz. Hyderabad – Wardha – Jabalpur Pooling station 765 kV D/c lines. These high capacity transmission lines in conjunction with the already planned High Capacity Power Transmission Corridor – IX i.e. Jabalpur Pooling Station – Orai – Bulandshahr 765 kV S/c shall provide adequate transmission capacity for transfer of power to target regions.

Scope of transmission project

1. Vemagiri Pooling Station–Khammam 765 kV D/C line -I
2. Khammam - Hyderabad 765 kV D/C line-I

General Details:

Special Purpose Vehicle (SPV)	:	Powergrid Vemagiri Transmission Limited (A subsidiary of PGCIL)
Bid Processor Coordinator (BPC)	:	Rural Electrification Corporation (RECTPL)
Request for Qualification	:	Not Applicable as project scrapped
Request for Proposal	:	Not Applicable as project scrapped
Letter of Intent	:	Not Applicable as project scrapped
Transmission Service Agreement (TSA)	:	Not Applicable as project scrapped
SPV acquisition	:	18.04.2012
Transmission License by CERC	:	Not Applicable as project is scrapped
Tariff adoption by CERC	:	----do---
Contract Performance Guarantee	:	----do---
Clearance u/s 164	:	----do---
Execution plan submitted to CEA	:	----do---

NIT issued on	:	----do---
EPC awarded on	:	----do---
Scheduled Date of Completion	:	17.04.2015
Anticipated Date of Completion	:	Project scrapped

Status of Progress of transmission project:

Project has been scrapped Vide Order dated. 06.04.2015, CERC has directed that Project is not required to be implemented and ordered Generator/CTU to pay the cost of SPV to POWERGRID in 80:20 ratios. Generator has challenged the CERC order in Appellate Tribunal and outcome is still awaited. Regulatory approval for the Project has been withdrawn by CERC.

(3) Name of transmission project -Transmission system for Strengthening in Southern Region for import of Power from ER

Background

A Common High Capacity Transmission Corridor was planned for ISGS generations in Srikakulam area, which includes Srikakulam Pooling Station – Angul 765kV D/C line and Angul – Jharsuguda - Dharamjaigarh 765kV D/C lines. However, developments in coal regulation in Indonesia, Australia and other countries have resulted in slowing down of capacity addition based on imported coal. As a consequence, the Southern Region is expected to be a net importer of power from neighbouring regions. Under such uncertainty of generation projects and delay in implementation, the Southern Region may need to import huge quantum of power, which may need augmentation of existing / under implementation / planned inter-regional links. Under this transmission scheme, an additional inter-regional AC interconnection between Southern and Eastern regions is being established through Srikakulam Pooling Station to Vemagiri 765kV D/C line. This additional inter-regional link shall facilitate import of power to meet the requirement of power from other surplus regions. However, with the import through this link, beyond Khammam towards N'Sagar, critical loadings were observed and therefore, Khammam – N'Sagar 400kV D/C line is being envisaged to address such critical loadings. This line shall facilitate in dispersal of power to Southern Region constituents beyond Khammam.

Scope of transmission project

1. Srikakulam PP – Vemagiri-II Pooling Station 765kV D/c line.
2. Khammam – NagarjunaSagar 400 kV D/c line.

General Details:

Special Purpose Vehicle (SPV)	:	Powergrid Vizag Transmission Limited (A subsidiary of PGCIL)
Bid Process Coordinator (BPC)	:	Rural Electrification Corporation
Estimated Cost (Rs. Crs)	:	1180
Levellised Tariff (Rs. Crs)	:	231.134
Request for Qualification	:	26.10.2012
Request for Proposal	:	06.03.2013
Letter of Intent	:	31.07.2013
Transmission Service Agreement(TSA)	:	14.05.2013
SPV acquisition	:	30.08.2013
Transmission License by CERC	:	08.01.2014
Tariff adoption by CERC	:	23.01.2014
Contract Performance Guarantee	:	29.08.2013
Clearance u/s 164	:	21.05.2014
Submission of execution plan to CEA	:	Dec.'2013
NIT issued on	:	08.10.2013
EPC Contract awarded on	:	12.03.2014
Scheduled Date of Completion	:	29.08.2016

Status of progress of transmission project

Work awarded on 20.05.2014 to M/s TPL, M/s ICOMM, M/S L&T and M/s Gammon

1. Srikakulam PP – Vemagiri-II PS 765 kV D/C line

- Length 668 CKm, Locations: 877 nos.

Line completed on 30.09.16

2. Khammam (existing) – Nagarjunasagar 400 kV D/C line

- Length 145 ckm, Tower Locations 388 nos

Line commissioned on 31.12.15

Project Commissioned in Sep-16.

(4) Name of transmission project - ATS of Unchahar TPS

Background

Feroz Gandhi Unchahar TPP-I to III (5x210MW) in District Raebareli, Uttar Pradesh is an existing generation of M/s NTPC Limited. The generations are at 220kV and are being evacuated through 220kV lines. M/s NTPC has now proposed augmentation of generation capacity by developing 1x500 MW at Feroz Gandhi Unchahar TPP (FGUTPP-IV). The beneficiaries along with quantum as informed by M/s NTPC are UPPCL (167.38MW), UPCL (23.19MW), Delhi Discoms (72.39MW), Haryana Discoms (33 MW), Rajasthan Discoms (64.67 MW), HPSEB (18.91 MW), PDD (38.4MW), EDC (Union Territory of Chandigarh) (3.46MW). The step up voltage of the generator is at 400kV and the proposed generating station is 1km route length from existing generating station. M/s NTPC Limited had submitted application for connectivity and Long Term Access and was discussed during the Connectivity and Long Term Access meeting held on 19/12/2011. During the meeting, it was discussed and agreed to connect the new generation directly to Fatehpur 765/400kV Substation of POWERGRID through 400kV D/C. Fatehpur is a major substation in Northern Region. Beyond Fatehpur, there would be two numbers of 765kV Lines to Agra. Agra is also well connected with high capacity 400kV and 765kV lines. Hence, no constraint is envisaged in evacuation of power to its beneficiary.

Scope of transmission project

1. Unchahar – Fatehpur 400 kV D/C line

General Details

Special Purpose Vehicle (SPV)	:	Powergrid Unchahar Transmission Limited (A subsidiary of PGCIL)
Bid Process Coordinator (BPC)	:	Rural Electrification Corporation
Estimated Cost (Rs. Crs)	:	70
Levellised Tariff (Rs. Crs)	:	16.771
Request for Qualification	:	11.01.2013
Request for Proposal	:	17.10.2013
Letter of Intent	:	14.02.2014
Transmission Service Agreement(TSA)	:	20.12.2013
SPV acquisition	:	24.03.2014
Transmission License by CERC	:	21.07.2014
Tariff adoption by CERC	:	03.07.2014
Contract Performance Guarantee	:	20.03.2014
Clearance u/s 164	:	06.05.2015
Execution plan submitted to CEA	:	July'14
NIT issued on	:	25.07.2014
EPC contract awarded on	:	21.01.2015
Scheduled Date of Completion	:	24.09.2016

Status of progress of transmission project

1. Unchahar – Fatehpur 400 kV D/C line

- Length: 106 ckm, Locations: 145 nos.
- Line completed on 24th Sep'16. The power flow started only after completion of NTPC Unchahar bays in Dec.'16.

Project Commissioned in Dec-16.

(5) Name of transmission project- NR System strengthening Scheme-NRSS-XXXI (Part-A)

Background

Kala Amb/ Poanta/ Giri area is an existing load centre in Himachal Pradesh with a present power demand of about 350 MVA, which is likely to increase about 500 MVA. However, the available generation and transmission network in the area is not adequate to meet the present load. In order to meet the present and future load requirement of the area, this transmission scheme has been proposed. Further considering the issue of hilly terrain & scarcity of land in Himachal Pradesh, the substation shall be established as GIS station and the LILO would be carried out on Multi-Circuit Towers to conserve R-o-W. Karcham- Wangtoo-Abdullapur 400kV D/C line is an existing Quad conductor line and is connected in the grid in parallel to triple snowbird lines. In order to increase the loadability of this line for better sharing of load, 40% series compensation on 400 kV Karcham Wangtoo – Abdullapur D/c line is proposed under the scheme. This would not only improve the loadability of 400kV Karcham Wangtoo 400kV D/C line but also help in reducing the oscillations in the area.

Scope of transmission project

1. Establishment of a 7 x 105 MVA (1- ph.), 400/220 kV GIS substation at Kala Amb

400 kV

- Line Bays: 4 No.
- 400/220 kV ICT: 7 x 105 (1-ph)
- ICT bays: 2 no.
- Bus Reactor (80 MVAR): 2 no.
- Bus Reactor Bay: 2 no.
- Space for line/ICT bays: 4 no.
- Space for ICT: 1 no.

220 kV

- Line Bays: 6 no.
- ICT bays: 2 no.
- Space for line/ICT bays: 4 no.

2. LILO of both circuits of Karcham Wangtoo – Abdullapur 400 kV D/C (Quad Moose) line at Kala Amb (on multi Ckt towers)
3. 40% Series Compensation on 400 kV KarchamWangtoo – Kala Amb quad D/C line at Kala Amb ends

General Detail

Special Purpose Vehicle(SPV) Limited	:	Powergrid Kala Amb Transmission (A subsidiary of PGCIL)
Bid Process Coordinator(BPC)	:	Rural Electrification Corporation
Estimated Cost (Rs. Crs)	:	225
Levellised Tariff (Rs. Crs)	:	59.434
Request for Qualification	:	01.08.2013
Request for Proposal	:	09.12.2013

Date of Letter of Intent	:	26.02.2014
Transmission Service Agreement (TSA)	:	02.01.2014
SPV acquisition	:	12.05.2014
Transmission License by CERC	:	21.07.2014
Tariff adoption by CERC	:	03.07.2014
Contract Performance Guarantee	:	08.05.2014
Clearance u/s 164	:	27.04.2016
Execution plan submitted to CEA	:	Sept'14
NIT issued on	:	21.04.2014
EPC contract awarded on	:	09.12.2015
Scheduled Date of Completion	:	12.07.2017
Anticipated date of completion	:	12.07.2017

Status of progress of transmission project

1. 7x105 MVA, 400/220 kV GIS at Kala amb with 40% series compensation on 400 kV Karcham Wangtoo – Kala Amb D/C line at Kala Amb end

Work completed and DOCO declared w.e.f. 12.07.17

2. LILO of both ckt of Karcham Wangtoo - Abdullapur 400 kV D/C line at Kala Amb

Work completed and DOCO declared w.e.f. 12.07.17.

Project Commissioned in July 2017.

(6) Name of transmission project- Transmission System associated with Gadawara STPS (2x800 MW) of NTPC (Part-A)

Background

NTPC Limited (NTPC) is establishing coal based Gadawara STPS (2x800 MW) generation project at Gadawara, Narsinghpur District in the State of Madhya Pradesh. NTPC Limited has been granted LTA for 1586.51 MW as per the LTA application and the details of drawl of power is given below:

CSPDCL	63.46 MW,	MPTradeco	793.25MW
GUVNL	209.86 MW,	MSEDCL	261.49 MW
Goa	10.47 MW,	DNH	6.03 MW
DD	3.96 MW,	Unallocated	237.99 MW

Transmission Scheme was planned for the evacuation and supply of power from Gadawara STPS to the beneficiaries of the generation project. This transmission system strengthening shall facilitate immediate evacuation as well as supply of power to its beneficiaries with reliability and security. Beyond Solapur dispersal of power to the beneficiaries of the generation project shall be through existing/planned transmission network under inter-state Transmission System. The Transmission System has been split into two parts viz. Part A and Part B and both part-A and Part-B of Transmission scheme is to be implemented in the same time frame.

Scope of transmission project

1. Gadawara STPS – Jabalpur Pool 765 kV D/C line*
*Considering the time schedule of generation project, an interim arrangement through LILO of existing Seoni – Bina 765 kV S/C line shall be established at Gadawara STPP. At a later date, LILO portion would be de-linked from Seoni – Bina 765 kV S/C line to restore the Seoni – Bina 765 kV S/C direct line, and the LILO portion shall be extended to Jabalpur 765/400 kV pooling station to form Gadawara STPS – Jabalpur Pool 765 kV D/C line.
2. Gadawara STPS – New Pooling Station near Warora 765 kV D/C line.
3. LILO of both circuits of Wardha – Parli (PG) 400 kV D/C Quad line at Warora Pooling Station (Near Warora) (2 x D/C).
4. Establishment of 2x1500 MVA, 765/400 kV New Pooling Station near Warora.

765 kV

ICTs: 7 x 500 MVA, 765/400 kV (1 spare unit)

ICT bays: 2 no.

Line bays: 6 no.

Bus reactor: 3 x 110 MVAR

Bus reactor bay: 1 no.

Line reactors: 7 x 110 MVAR (1 unit spare) (for Gadawara line)

Line reactors switchable: 6 x 110 MVAR (for Parli line)

Space for future bays: 4 no.

400 kV

ICT bays: 2 no.

Line bays: 4 no.

Space for future 400 kV bays: 4 no.

General Details

Special Purpose Vehicle (SPV)	:	Powergrid Warora Transmission Ltd
Bid Process Coordinator (BPC)	:	Rural Electrification Corporation
Levellised Tariff (Rs. Crs)	:	290.147
Request for Qualification	:	14.08.2014
Request for Proposal	:	14.11.2014
Letter of Intent	:	11.03.2015
Transmission Service Agreement (TSA)	:	09.02.2015
SPV acquisition	:	24.04.2015
Transmission License by CERC	:	05.08.2015
Tariff adoption by CERC	:	23.06.2015
Contract Performance Guarantee	:	18.04.2015
Clearance u/s 164	:	22.04.2017
Execution plan submitted to CEA	:	July'15
NIT issued on	:	08.06.2015
EPC contract awarded on	:	Sept.'15 onwards
Scheduled Date of Completion	:	November 2017*
*Revised Schedule Agreed by LTTCs	:	January 2018
Actual Date of completion	:	July, 2018

Status of progress of transmission project

1. Gadarwara STPS - Jabalpur PS 765 kV D/C line

- Length: 15.5 km
- Locations: 43 nos.

Progress: Line completed on 23.11.2016 and DOCO declared on 30.11.2016

Stage-2 : Dismantle the LILO and extend Line upto Jabalpur S/S,

- Length: 87.5 ckm
- Locations: 227 nos.

Progress: Line completed on 23.05.2017 and DOCO declared on 31.05.2017

2. Gadarwara STPS- Warora P.S. (New) 765kV D/C line

Length 313.3 km
Locations 837 nos.

Progress: Line commissioned on 10.07.2018

3. LILO of both Ckts. of Wardha - Parli at Warora (New) Pooling Station

Length: 98 km
Locations: 269 nos.

Line commissioned in May'18.

4. 7x500 MVA, 765/400 kV Warora (New) pooling station

- COD : July' 18

Transmission Project commissioned on July, 2018.

(7) Name of transmission project - Transmission System associated with Gadawara STPS (2x800 MW) of NTPC (Part-B)

Background

NTPC Limited (NTPC) is establishing coal based Gadawara STPS (2x800 MW) generation project at Gadawara, Narsinghpur District in the State of Madhya Pradesh. NTPC Limited has been granted LTA for 1586.51 MW as per the LTA application and the details of drawl of power is given below:

CSPDCL	63.46 MW,	MPTradeco	793.25MW
GUVNL	209.86 MW,	MSEDCL	261.49 MW
Goa	10.47 MW,	DNH	6.03 MW
DD	3.96 MW,	Unallocated	237.99 MW

Transmission Scheme was planned for the evacuation and supply of power from Gadawara STPS to the beneficiaries of the generation project. This transmission system strengthening shall facilitate immediate evacuation as well as supply of power to its beneficiaries with reliability and security. Beyond Solapur dispersal of power to the beneficiaries of the generation project shall be through existing/planned transmission network under inter-state Transmission System. The Transmission System has been split into two parts viz. Part A and Part B and both part-A and Part-B of Transmission scheme is to be implemented in the same time frame.

Scope of transmission project

1. Warora (Pooling Station) – Parli (New) 765 kV D/C line.
2. Parli (New) – Solapur 765 kV D/C line
3. Parli (New) – Parli (PG) 400 kV D/C (Quad) line
4. Establishment of 2 x 1500 MVA 765/400 kV Parli (New) S/S

765 kV

ICTs: 7 x 500 MVA, 765/400 kV (1 spare unit)

ICT bays: 2 no.

Line bays: 4 no.

Bus reactor: 3 x 110 MVAR

Bus reactor bay: 1 no.

Line reactors: 7 x 110 MVAR (1 unit spare) (for Warora-Parli (new) 765kV D/c line)

Space for future bays: 4 no.

400 kV

ICT bays: 2 no.

Line bays: 2 no.

Space for future 400 kV bays: 4 no.

General Details

Special Purpose Vehicle (SPV)	:	Power grid Parli Transmission Ltd
Bid Process Coordinator (BPC)	:	Rural Electrification Corporation
Levellised Tariff (Rs. Crs)	:	256.727
Request for Qualification	:	07.08.2014

Request for Proposal	:	14.11.2014
Letter of Intent	:	11.03.2015
Transmission Service Agreement (TSA)	:	09.02.2015
SPV acquisition	:	24.04.2015
Transmission License by CERC	:	10.07.2015
Tariff adoption by CERC	:	23.06.2015
Contract Performance Guarantee	:	18.04.2015
Clearance u/s 164	:	June' 17.
Execution plan submitted to CEA	:	Nov'16
NIT issued on	:	22.06.2015
EPC contract awarded on	:	Sep'2015
Scheduled Date of Completion	:	January, 2018
Actual Date of completion	:	June, 2018

Status of progress of transmission project

1. Warora Pooling Station - Parli (New) 765 kV D/C line

Length: 347 km
Locations: 920 nos.

Line commissioned in June 2018.

2. Parli (New) - Solapur 765 kV D/C line

Length: 118 km
Locations: 311 nos.

Line commissioned, DoCo declared on 27.04.2018

3. Parli (New) – Parli (PG) 400 kV D/C (Q) line

Length: 18.2km
Locations: 52 nos.

Line commissioned, DoCo declared on 27.04.2018

4. 2x1500 MVA, 765/400 kV Parli (New) sub station

- Substation partly commissioned on 27.04.2018, Balance commissioned in June'18.

Transmission Project commissioned on June, 2018.

(8) Transmission Project- Transmission System Strengthening associated with Vindhyachal- V

Background

NTPC Limited (NTPC) is augmenting 1x500MW unit at Vindhyachal generation project at Vindhyachal, Dist. Singrauli in the State of Madhya Pradesh. NTPC Limited has been granted LTA for 495.78 MW as per the LTA application and the details of drawl of power is given below:

CSPDCL	32.90 MW,	MPTradeco	129.04 MW
GUVNL	110.34 MW,	MSEDCL	138.29 MW
Goa	5.47 MW,	DNH	3.24 MW
DD	2.09 MW,	Unallocated	74.41 MW

Transmission scheme was planned for the evacuation and supply of power from the Vindhyachal-V to the beneficiaries of the generation project. This transmission scheme shall facilitate supply of power to its beneficiaries with reliability and security. Beyond Jabalpur Pooling Station, dispersal of power to the beneficiaries of the generation project shall be through existing/planned transmission network under Inter-State Transmission System.

Scope of transmission project

1. Vindhyachal Pooling Station-Jabalpur Pooling Station 765kV D/c Line

General Details

Special Purpose Vehicle (SPV)	:	Powergrid Jabalpur Trans. Limited
Bid Process Coordinator (BPC)	:	Rural Electrification Corporation
Levelling Tariff (Rs. Crs)	:	210.998
Request for Qualification	:	20.08.2014
Request for Proposal	:	22.10.2014
Letter of Intent	:	10.02.2015
Transmission Service Agreement (TSA)	:	19.11.2014
SPV acquisition	:	26.02.2015
Transmission License by CERC	:	15.06.2015
Tariff adoption by CERC	:	28.05.2015
Contract Performance Guarantee	:	25.02.2015
Clearance u/s 164	:	Sep' 16
Submission of execution plan to CEA	:	July'15
NIT issued on	:	26.06.2015
EPC contract awarded on	:	23.03.2016
Scheduled Date of Completion	:	26.06.2018
Anticipated Date of Completion	:	Nov'18

Status of progress of transmission project

1. Vindhyachal Pooling Station - Jabalpur Pooling Station line 765 kV D/C line

Awarded on M/s Tata & M/s. KEC on Mar'15.

Length:	374.5 km
Locations:	1010 nos
Foundation completed	997 nos.

Towers erected	972 nos.
Stringing completed	300 km
Scheduled COD	Jun'18
Anticipated COD	Nov'18

Constraints where Project Authority requires intervention:

- a) Work hampered in July' 17 due to heavy monsoons.
- b) Forest/Wildlife clearance issue: Stage –I approval accorded on 10.11.17

Madhya Pradesh State Govt. has in May' 17 issued Land compensation order vide which it was instructed to all collectors to determine land compensation for POWERGRID constructed transmission lines as per Govt of India recommendation of 85% for tower base and 15% for line corridor.

Presently, major RoW being faced at 29 locations in District Satna. Farmers in association with organized gangs are creating hindrance in execution of foundation, tower erection and stringing works of the line at majority of remaining locations. POWERGRID has attempted, several times, to carry out works at these locations but could not succeed to complete works.

Petitions under Sec 16 (1) of Telegraph Act 1885 [read with Sec 164 of EA Act 2003] have been filed with the respective District Collectors for resolution of ROW holds and compensation settlement.

While DC Satna & DC Katni have issued general Orders on 04.09.2017 and 09.10.2017 respectively advising District Administration to support POWERGRID in continuing works of the transmission line, the local farmers are still objecting to the construction activities and posing hindrance. Need permanent police force for completion of work.

Support from State Government and District Administrative is, therefore, required for uninterrupted continuation of Foundation, Tower Erection and Stringing works in the Districts.

An incident of violence occurred on 03.02.2018 during stringing in Vijayraghavgarh Tehsil of Katni district for which FIR No 0049 dated 03/02/2018 has been filed in Vijayraghavgarh PS.

Project was highlighted to Prime Minister's review meeting PRAGATI on 28th Feb' 18 for Resolution of Issues and support of State Govt/ Administration. RoW still persists severely affecting the progress

In first week of August' 18, local goons and antisocial elements attached gangs and threatened to stop the work. FIR in this regard was lodged in local police station on 06.08.18 and matter highlighted to Senior Administration as well as police officials. However, work progress was still slow. On complaint of POWERGRID, one local goon, majorly responsible for stopping the work was arrested by police in Sep' 18 end.

Status of statutory approvals:

Forest (M P portion)

Details of Tr. Line Falling under Forest:- Locations: 85 nos. Length: 36 kms
Forest area affected (ha) : 241 hectare
Forest proposals submitted on 07.01.2016

Current status: Stage 1 clearance obtained on 20.11.2017. Tree cutting permission obtained for Singrauli division received on 26.03.18 (For tower base) and 07.06.18 (for corridor), Tree cutting permission of Sidhi division received on 21.02.18 (For tower base) and 17.05.18(for corridor) & Tree cutting permission of Satna division received on 03.04.18 (for tower base) and 28.06.18 (for corridor).

Power line crossing

Total no. of crossings	:	32 nos.
Proposal submitted	:	32 nos.Date: between 22.09.16 & 19.01.17
Approval obtained	:	32 nos.Date: between 11.11.16 & 27.07.17 & 20.03.2018

Railway crossing

Total no. of crossings	:	5 nos.
Proposal submitted	:	5 nos. Date: between 28.07.16 & 09.11.16
Approval obtained	:	5 nos. Date: between 13.10.16 & 10.03.17

National Highway Crossing

Total no. of crossings	:	2 nos.
Proposal submitted	:	2 nos. Date: 10.02.17
Approval obtained	:	2 nos.

River Crossings

Total no. of crossings	:	3 nos.
Proposal submitted	:	3 nos. Date: between 15.10.16 & 27.02.17
Approval obtained	:	3 nos. Date: between 08.12.16 & 14.07.17

PTCC approval

Proposal submitted to Defence on:
Proposal submitted to BSNL on : 17.03.2016
Proposal submitted to Railways on : 17.03.2016
Current status : Proposal submitted at PTCC, Delhi.

Defence/Civil Aviation

Proposal submitted to Defence/Airforce : 17.05.2017
Current Status: Approval awaited

Proposal submitted to Civil Aviation on : 12.09.2017
Current Status: Approval obtained on 07.11.17

(9)Transmission Project- Strengthening of Transmission System beyond Vemagiri

Background

Presently Southern Region is facing severe power shortage. As per Operational data, the region faced Power deficit of about 8.4% (i.e. about 3270MW) during 2014-15 (Apr'14-Feb'15). This power deficit situation has arisen mainly due to (i) delay/deferment of anticipated generation projects and (ii) also due to non-availability of gas for existing gas projects in Southern Region. Presently the existing/planned system can facilitate import of about 9000 - 10000 MW into Southern Region. However under certain scenarios of non-availability / delay in commissioning of some of the generation projects in Southern region expected power transfer requirement is about 16000 MW by 2018-19. In view of large deficit and requirement of transmission system to meet future power transfer requirements, high capacity Inter-regional strengthening schemes were identified. The Present Scheme is part of the above identified scheme.

To facilitate import of power from North-East-West (NEW) grid to Southern Region grid, Angul – Srikakulam – Vemagiri corridor was envisaged and is under implementation. Under present proposed scheme, a 765kV D/c from Vemagiri to Cuddapah via Chilakaluripeta, wherein a 765/400kV Substation has been proposed, which would facilitate dispersal of power beyond Vemagiri. Further High capacity 400kV D/c have been proposed from Vemagiri, Chilakaluripeta and Cuddapah for Injection/ dispersal of power.

Scope of transmission project

Transmission Lines

1. Vemagiri-II – Chilakaluripeta 765kV D/c line with 240 MVAR switchable line reactor at both ends.
2. Chilakaluripeta – Cuddapah 765kV D/c line with 240 MVAR switchable line reactor at both ends.
3. Chilakaluripeta – Narsaraopeta 400kV (quad) D/c line.
4. Cuddapah – Madhugiri 400kV (quad) D/c line with 80 MVAR switchable line reactor at both ends.
5. Srikaukulam Pooling Station – Garividi 400 kV (Quad) D/c line with 80 MVAR switchable line reactor at Garividi end.

Substation

1. Establishment of 765/400 kV substation at Chilakaluripeta with 7x500 MVA(one spare unit) transformers and 2x240 MVAR bus reactors each.
765/400kV Transformers bays at Chilakaluripeta: 2 nos.
765 kV
Line bays : 4 nos., Spare bays : 6 nos.
400 kV
Line bays : 2 nos., Spare bays : 8 nos.

General Detail

Special Purpose Vehicle (SPV)	:	Powergrid Southern Interconnector Transmission Limited (A subsidiary of PGCIL)
Bid Process Coordinator (BPC)	:	Rural Electrification Corporation
Levelling Tariff (Rs. Crs)	:	359.255

Request for Qualification	:	12.04.2015
Request for Proposal	:	10.07.2015
Letter of Intent	:	29.10.2015
Transmission Service Agreement (TSA)	:	31.08.2015
SPV acquisition	:	04.12.2015
Transmission License by CERC	:	14.03.2016
Tariff adoption by CERC	:	09.02.2016
Contract Performance Guarantee	:	26.11.2015
Clearance u/s 164		Received on 16.08.2017
Execution plan submitted to CEA:		Mar'16
NIT issued on	:	18.12.2015
EPC awarded on	:	19.03.2016
Scheduled Date of Completion	:	03.04.2019
Anticipated Date of Completion	:	03.04.2019

Status of progress of transmission project

1. Vemagiri - Chilakaluripeta 765kV D/C Line

Award placed in Mar'16 to M/s. KPTL

Length:	279 Kms
Locations:	748 nos.
Foundation completed	700 nos.
Towers erected	638 nos.
Stringing completed	200.6 km
Scheduled COD	Apr'19
Anticipated COD	Apr'19

Constraints where Project Authority requires intervention:

- Severe RoW being faced. Work in about 49 locations in East Godavari & Krishna district affected for want of increased compensation. POWERGRID met Pr. Secretary (Energy) A.P regarding the ROW issues in the above mentioned line, and AP government has assured to extend support in resolving the ROW issues.
- The Government of Andhra Pradesh issued G.O. dated 20.06.2017 fixing the compensation of 100% of tower base area and 10% of land value of Corridor. Notices under clause 11.5 of TSA and under clause 12.3 have been issued to all LTTC's for needful.

Further, POWERGRID met Principal Secretary (Energy) on 10.08.2018 and requested for expeditious clearance of ROW in A.P. Few locations cleared in Sitanagram after Administration support, however still around 30 locations held up at Nandigram

Status of statutory approvals:

Forest Nil

Power line crossing

Total no. of crossings	:	27	nos.
Proposal submitted	:	27	nos. Date: 07.11.16 – 19.06.17

Approval obtained	:	27	nos.	(Submitted on various dates) Jun'17
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Railway crossing

Total no. of crossings	:	3	nos.	
Proposal submitted	:	3	nos.	Date: 24.08.16 – 02.05.17 (Submitted on various dates)
Approval obtained	:	3	nos.	Date: Jun'17, Oct'17(2 nos.)

National Highway Crossing

Total no. of crossings	:	3	nos.	
Proposal submitted	:	3	nos.	Date: 10.05.17
Approval obtained	:	3	nos.	Date: Jun'17. Oct'17 (2 nos)

River Crossings

Total no. of crossings	:	3	nos.
Proposal submitted	:	3	nos.
Approval obtained	:	3	nos.

PTCC approval

Proposal submitted to Defence on 27.07.17
 Proposal submitted to BSNL on 27.07.17
 Proposal submitted to Railways on 27.07.17

Current status:

Proposal received at PTCC, New Delhi, final clearance awaited

Defence/Civil Aviation

Proposal submitted to Defence on 17.06.17.
 Proposal submitted to Civil Aviation on 16.06.17.

Current Status:

Civil aviation NOC received, defence NOC awaited.

2. Chilakaluripeta - Cudappah 765kV D/C Line

Award placed in Mar'16 to M/s. KEC,

Length:	288Km
Locations:	768 nos.
Foundation completed	757 nos.
Towers erected	750 nos.
Stringing	272 km
Scheduled COD	Apr'19
Anticipated COD	Apr'19

Constraints where Project Authority requires intervention: NIL

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest:- Locations: 28 nos. Length: 11.40km

Forest area affected (ha) : 74.846

Forest proposals submitted on 31.05.17

Current status:

Forest proposal

In the 26th REC Meeting held on 28.03.18 at Ro, MOEF, Chennai, forest proposal recommended for Stage – I clearance., clearance received on 05.04.2018.

Forest compensation paid, **Working permission accorded.**

Wild Life proposal:

NBWL meeting held on 07.09.2018 and proposal recommended. Minutes of meetings released on 26.09.2018. Copies of minutes submitted to RoMOEF, Chennai for issue of Stage-1.

Power line crossing

Total no. of crossings	:	17	nos.	
Proposal submitted	:	17	nos.	Date:24.08.16 - 02.04.17 (Submitted on various dates)
Approval obtained	:	17	nos.	Date: Jun'17

Railway crossing

Total no. of crossings	:	3	nos.	
Proposal submitted	:	3	nos.	Date: 28.01.17, 25.04.17,02.05.17
Approval obtained	:	3	nos.	

National Highway Crossing

Total no. of crossings	:	4 nos.	
Proposal submitted	:	4 nos.	Date:03.11.16,24.08.16, 25.04.17
Approval obtained	:	4 nos.	Date: Jun'17

River Crossings

Total no. of crossings	:	NIL	
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PTCC approval

Proposal submitted to Defence on 26.07.2017

Proposal submitted to BSNL on 26.07.2017, being submitted to DE, PTCC for Ongole, Nellore and Kadapa divisions.

Proposal submitted to Railways on 26.07.2017.

Current status:

CEA cleared the proposal & sent to DE, PTCC, Chennai.

Defence/Civil Aviation

Proposal submitted to Defence on 20.09.2017

Current Status: Civil Aviation Clearance received with Height restrictions on 13 no. Tower locations.

3. Cudappah - Madhugiri 400 kV D/C (Quad Moose) Line

Award placed in Mar'16 to M/s. L&T,

Length:	243 Km
Locations:	650 nos.
Foundation completed	625 nos.
Towers erected	614 nos.
Stringing	216 km
Scheduled COD	Feb'19
Anticipated COD	Feb'19

Constraint: Severe RoW issues are being faced in Karnataka portion of Line.

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest:- Locations: 12nos. Length: 4.65kms

Forest area affected (ha) : 21.42

Forest proposals submitted on : submitted.

Current status:

In the 26th REC Meeting held on 28.03.18 at Ro, MOEF, Chennai, forest proposal recommended for Stage – I clearance., clearance received on 05.04.2018.

Forest compensation paid, **Working permission accorded.**

Power line crossing

Total no. of crossings	:	31	nos.	
Proposal submitted	:	31	nos.	Date: 30.08.17
Approval obtained	:	25	nos.	

Railway crossing

Total no. of crossings	:	2	nos.	
Proposal submitted	:	2	nos.	Date: 07.06.17, 11.07.17, 28.08.17
Approval obtained	:	2	nos.	

National Highway Crossing

Total no. of crossings	:	4	nos.	
Proposal submitted	:	4	nos.	Date: 07.06.17, 30.08.17
Approval obtained	:	2	nos.	Date: Aug'17

River Crossings

Total no. of crossings	:	Nil	nos.	
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PTCC approval

Proposal submitted to Defence on 06.09.17

Proposal submitted to BSNL on 06.09.17, Kadapa, Anantapur proposals forwarded to DE, PTCC, Chennai. Tumkur proposal forwarded to o/o GM, BSNL, Bangalore

Proposal submitted to Railways on 06.09.17

Current status:

Proposals forwarded from DE, PTCC, Chennai to PTCC, New Delhi.

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation

Current Status: NOC received for Aviation proposal & defence proposal.

4. Srikakulam - Garividi 400 kV (Quad Moose) D/C Line

Length: 144Km
Locations: 393 nos.

- Line commissioned on 04.08.18 & put under commercial operation w.e.f. 06.08.18

5. Chilkaluripeta - Narasaraopeta 400 kV (Quad Moose) D/C Line

Length: 30 Km
Locations: 81 nos.

- Work on the line completed.

Constarints where Project Authority requires intervention:

Status of statutory approvals:

Forest NIL

Power line crossing

Total no. of crossings	:	2	nos.
Proposal submitted	:	2	nos.
Approval obtained	:	2	nos.

Date: Aug'17, Sep'17

Railway crossing Nil

National Highway Crossing Nil

River Crossings Nil

PTCC approval

Proposal submitted to Defence on 24.08.2017

Proposal submitted to BSNL on 24.08.2017.

Proposal submitted to Railways on 24.08.2017.

Current status: Proposal at CEA, New delhi

Defence/Civil Aviation

Proposal submitted to Civil Aviation on 30.08.17

Current Status: NOC issued on 11.09.2017

6. 765/400kV Chilakularipeta Substation

Awarded to M/s GE T&D INDIA LTD

Land acquired	:	100%
Civil work completed	:	92%
Equipment supplied	:	95%
Equipment erection	:	90%
Scheduled COD	:	Apr'19
Anticipated COD	:	Apr'19

- CEA Inspection completed for 400 kV portion in August 2018.

7. Satenapalli (Narasaraopeta) 400 kV Substation extension

Awarded to M/s GE T&D INDIA LTD

Land acquired	:	100%
Civil work completed	:	100%
Equipment supplied	:	100%
Equipment erection	:	100%
Scheduled COD	:	Apr'19
Anticipated COD	:	Apr'19

- CEA Inspection completed in August 2018.

8. Garividi 400 kV Substation extension

- S/s commissioned & under commercial operation w.e.f. 06.08.2018.

(10) Name of transmission project- Eastern Region Strengthening Scheme-XVIII (ERSS-XVIII)

Background

The major generation projects in ER in future are envisaged in the central and western part of the region (Odisha, Jharkhand and Bihar); however, no major generation addition is expected in the eastern part (West Bengal). Thus, in order to provide reliable and secure power supply within the region from various future generation sources and also to facilitate power exchange with the neighbouring regions under various operating conditions, it was felt necessary to build a strong transmission network interconnecting eastern and western part of ER.

Accordingly, implementation of high capacity Ranchi – Medinipur – Jeerat 765kV D/c line along with establishment of 765/400kV substations at Medinipur and Jeerat, was approved in the 17th Standing Committee Meeting on Power System Planning of ER to provide a strong East – West connection in the Eastern Region as well as to feed large load centres of West Bengal viz. Jeerat and Subhashgram area. For further dispersal of power from these 765/400kV sub-stations, various 400kV lines have been planned

Scope of transmission project

Transmission Lines

- Ranchi (New) – Medinipur 765kV D/c line with Hexa ACSR Zebra conductor along with 765kV, 240 MVAR switchable line reactor with 750Ω NGR in each circuit at Medinipur end (total: 765kV, 7x80 MVAR single phase units, 1 unit as spare).
- Medinipur - Jeerat (New) 765kV D/c line with Hexa ACSR Zebra conductor along with 765kV, 240 MVAR switchable line reactor with 600 Ω NGR in each circuit at Jeerat (New) end (total: 765kV, 7x80 MVAR single phase units, 1 unit as spare).
- LILO of both circuits of Chandithala – Kharagpur 400kV D/c line at Medinipur.
- Jeerat (New) – Subhasgram 400kV D/c line (ACSR Quad Moose)
- Jeerat (New) – Jeerat (WBSETCL) 400kV D/c line (ACSR Quad Moose)
- LILO of Jeerat (WBSETCL) – Subhasgram (PG) 400kV S/c section at Rajarhat (POWERGRID)

Substation

1) Establishment of 765/400kV, 2×1500MVA substation at Medinipur

765kV

- ICTs: 7×500 MVA, 765/400kV (1 spare unit)
- ICT bays: 2 no.
- Line bays: 4 no.
- Bus reactor: 7×110 MVAR single phase units including one (1) spare unit
- Bus reactor bay: 2 no.
- Space for future line bays (along with space for switchable line reactor): 4 no.
- Space for future ICT bays: 2 no.
- Space for future 765/400 kV ICT: (6x500MVA single phase units)

400kV

- ICT bays: 2 no.
- Line bays: 4 no.

- Bus reactor: 2×125 MVAR
- Bus reactor bay: 2 no.
- Space for future line bays (along with space for switchable line reactor): 6 no.
- Space for future ICT bays: 2 no.

2) Establishment of 765/400kV, 2x1500MVA substations at Jeerat (New)

765kV

- ICTs: 7×500MVA, 765/400kV (1 spare unit)
- ICT bays: 2 no.
- Line bays: 2 no.
- Bus reactor: 7×110 MVAR single phase unit including one (1) spare unit
- Bus reactor bay: 2 no.
- Space for future line bays (along with space for switchable line reactor): 4 no.
- Space for future ICT bays: 2 no.
- Space for future 765/400 kV ICT: (6x500MVA single phase units)

400kV

- ICT bays: 2 no.
- Line bays: 4 no.
- Bus reactor: 2×125 MVAR
- Bus reactor bay: 2 no.
- Space for future line bays (along with space for switchable line reactor): 4 no.
- Space for future ICT bays: 2 no.

2 no. 400kV GIS line bays at Jeerat (WBSETCL)

General Detail

Special Purpose Vehicle (SPV)	:	Powergrid Medinipur-Jeerat Transmission Limited (A subsidiary of POWERGRID)
Bid Process Coordinator (BPC)	:	Power Finance Corporation
Levellised Tariff (Rs. Crs)	:	498.652
Request for Qualification	:	14-Jun-2016
Request for Proposal	:	06-Oct-2016
Letter of Intent	:	21-Feb-2017
Transmission Service Agreement (TSA)	:	17-Nov-2016
SPV acquisition	:	28-Mar-2017
Transmission License by CERC	:	20-June-2017
Tariff adoption by CERC	:	12-June-2017
Contract Performance Guarantee	:	28-Mar-2017
Clearance u/s 164	:	15-Feb-2018
Execution plan submitted to CEA:	:	2-June-2017
NIT issued on	:	02-Nov-2016
EPC awarded on	:	31-Mar-2017
Scheduled Date of Completion	:	28-Jul-2020
Anticipated Date of Completion	:	28-Jul-2020

Status of progress of transmission project

1. Ranchi – Medinipur 765kV D/C line

Procurement activities initiated

Award placed on 31.03.2017 to M/s. L&T. Survey under progress

Length:	269Km
Locations:	716 nos.
Foundation completed	474 nos.
Towers erected	341 nos
Stringing done	37 Km
Scheduled COD	July' 2020
Anticipated COD	July' 2020

Status: Work under progress.

Status of statutory approvals: Survey under Progress

Forest:

Details of Tr. Line Falling under Forest:- Length: 10.40 kms
 Forest area affected (ha) : 69.7
 Forest proposals submitted on :
 ER-I portion: - 6.45 Km (43.26 ha.). Proposal submitted on 12.04.2018.
 ER-II portion: - 3.95 km (26.526ha.). Revised proposal has been submitted on 30.06.2018.

Power line crossing (66kV and above)

Total no. of crossings	:	14	nos.
Proposal submitted	:	07	nos. Date: 26.03.18
		06	nos. Date: 23.04.18
		01	no. Date: 10.07.18
Approval obtained	:	13	

Railway crossing

Total no. of crossings	:	04	nos. + 01 No. (Proposed line)
Proposal submitted	:	01	no. Date: 16.03.18
		02	no. Date: 26.03.18
		01	no. Date: 22.06.18
Approval obtained	:	01	no.

National Highway Crossing

Total no. of crossings	:	05	nos.
Proposal submitted	:	01	no. Date: 15.03.18
		02	nos. Date: 26.03.18
		01	no. Date: 21.06.18
		01	no. Date: 23.07.18
Approval obtained	:	02	nos..

River Crossings

NIL

PTCC approval	:	09.05.18 Online submission for Jharkhand 26.05.18 Online submission for West Bengal.
Defence/Civil Aviation	:	Online proposal submitted for Jharkhand. Online proposal submitted for West Bengal.

2. Medinipur - Jeerat (New) 765kV D/C line

Award placed on 31.03.2017 to M/s. L&T. Survey under progress

Length: :167Km

Locations: : 461 nos.
 Foundation completed : 147 nos.
 Towers erected : 67 nos.
 Scheduled COD : July' 2020
 Anticipated COD : July' 2020

Constarints where Project Authority requires intervention:

Status of statutory approvals: Survey under Progress

Forest: Nil

Power line crossing (66kV and above)

Total no. of crossings	:	17	nos.	
Proposal submitted	:	10	nos.	Date: 26.03.18
		03	nos.	Date: 13.04.18
		01	nos.	Date: 24.04.18
		01	nos.	Date: 12.05.18
		01	nos.	Date: 14.09.18

Approval obtained : 15

Railway crossing

Total no. of crossings	:	05	nos.	
Proposal submitted	:	05	nos.	Date: 26.03.18 & 27.03.18
Approval obtained	:	NIL(Comments received on 01 proposal to shift the crossing location, revised proposal also submitted thereafter).		

National Highway Crossing

Total no. of crossings	:	02	nos.	
Proposal submitted	:	01	nos.	Date: 26.03.18
		01	nos.	Date: 25.05.18
Approval obtained	:	NIL		

River Crossings : 01 No. Proposal to be submitted.

PTCC approval : Proposal submitted on 02.06.18.

Defence/Civil Aviation : Online Proposal submitted.

3. Jeerat (New) – Subhasgram 400kV D/C line

Procurement activities initiated

Award placed on 31.03.2017 to M/s. L&T. Survey under progress

Length: 108 Km

Locations: 303 nos.

Foundation completed 03 nos.

- Tower erection Not started.
- Stringing Not started.

Scheduled COD July' 2020

Anticipated COD July' 2020

Constarints where Project Authority requires intervention:

Status of statutory approvals: Survey under Progress

Forest: Nil

Power line crossing (66kV and above)

Total no. of crossings	:	10 nos.
Proposal submitted	:	03 nos
Approval obtained	:	03 nos.

Railway crossing

Total no. of crossings	:	03 nos.
Proposal submitted	:	NIL
Approval obtained	:	NIL

National Highway Crossing

Total no. of crossings	:	01 nos.
Proposal submitted	:	NIL
Approval obtained	:	NIL

River Crossings NIL

PTCC approval	:	Proposal to be submitted.
Defence/Civil Aviation	:	Proposal to be submitted.

4. Jeerat (New) – Jeerat (WBSETCL) 400kV D/C line

Award placed on 31.03.2017 to M/s. L&T Engineering under progress
Completion Target: July'2020

- Length: 25 Km
 - Locations: 81 nos.
 - Foundation completed: 22 nos.
 - Tower Erection 12 nos.
 - Stringing Not started.
- | | | |
|-----------------|---|------------|
| Scheduled COD | : | July' 2020 |
| Anticipated COD | : | July' 2020 |

Constarints where Project Authority requires intervention:

Status of statutory approvals: Survey under Progress
Forest: Nil

Power line crossing (66kV and above)

Total no. of crossings	:	07 nos.	
Proposal submitted	:	02 nos.	Date: 06.04.18
		01 nos.	Date: 13.04.18
		01 nos.	Date: 26.05.18
Approval obtained	:	04 nos.	

Railway crossing

Total no. of crossings	:	NIL
Proposal submitted	:	NIL
Approval obtained	:	NA

National Highway Crossing

Total no. of crossings	:	NIL
Proposal submitted	:	NIL
Approval obtained	:	NIL

River Crossings NIL

PTCC approval	:	Proposal submitted on 02.06.18.
Defence/Civil Aviation	:	Proposal to be submitted.

5. LILO of Jeerat (WBSETCL) – Subhasgram (PG) 400kV at Rajarhat

Award placed on 31.03.2017 to M/s. L&T. Engineering under progress.

Length:	:12 Km
Locations:	:37 nos.
Scheduled COD	:July' 2020
Anticipated COD	:July' 2020

Status: Scope Deleted vide CEA letter dated 04.04.18.

6. LILO of both circuits of Chandithala – Kharagpur 400kV D/C line at Medinipur

Award placed on 31.03.2017 to M/s. L&T
Completion Target : July'2020

• Length	:	73 Km
• Locations	:	198 Nos.
• Foundation completed	:	97 Nos.
• Towers erected	:	62 Nos.
• Stringing	:	8 Km
Scheduled COD	:	July' 2020
Anticipated COD	:	July' 2020

Status: Foundation work & Tower Erection work under progress.

Status of statutory approvals: Survey under Progress

Forest: 0.108 Km (0.497 ha.). The proposal had been submitted on 02.07.2018.

Power line crossing (66kV and above)

Total no. of crossings	:	02 nos.
Proposal submitted	:	02 nos. Date: 19.03.18
Approval obtained	:	02

Railway crossing

Total no. of crossings	:	NIL
Proposal submitted	:	NIL
Approval obtained	:	NIL

National Highway Crossing

Total no. of crossings	:	NIL
Proposal submitted	:	NIL

Approval obtained : NIL

River Crossings : NIL

PTCC approval : Proposal submitted on 02.06.18.
Defence/Civil Aviation : Proposal to be submitted.

7. 2x1500 MVA , 765/400 kV Substation at Medinipur

Award placed on 29.09.2017 to M/s BHEL

- Procurement activities initiated
- Tower foundation work under progress.

Land acquired : 100%
Civil work completed :
Equipment supplied :
Equipment erection :
Scheduled COD : July' 2020
Anticipated COD : July' 2020

8. 2x1500 MVA , 765/400 kV Substation at Jeerat (New)

Award placed on 29.09.2017 to M/s BHEL. Procurement activities initiated

Land acquired : 100%
Civil work completed :
Equipment supplied :
Equipment erection :
Scheduled COD : July' 2020
Anticipated COD : July' 2020

9. Extension of 400 kV Substation at Jeerat (WBSETCL)

Work being executed by WBSETCL.

Completion Target: July'2020

Land acquired : 100%
Civil work completed :
Equipment supplied :
Equipment erection :
Scheduled COD : July' 2020
Anticipated COD : July' 2020

Constraints if any:

- Severe RoW anticipated in most of Transmission lines.
Land Acquisition in West Bengal was tough.

(11) Name of transmission project - Eastern Region Strengthening Scheme(ERSS) XXI

Background

Demand of Bihar has touched 3717MW under unrestricted condition in FY 2016-17 and may go up to 8774MW by 2018-19 due to segregation of agricultural feeders. The demand is expected to reach about 11000 MW by the end of 13th plan (FY 2021-22). For meeting this demand, ISTS network including two (3) 400kV sub-stations at Sitamarhi, Saharsa and Chandauti (Gaya) (Total transformation capacity of 4900 MVA) along with augmentation of 400/132kV Motihari S/s and associated 400kV transmission lines (about 500 ckm) have been planned.

Scope of transmission project

Transmission Lines

1. Darbhanga – Sitamarhi (New) 400kV D/c line with Triple Snowbird conductor
2. Sitamarhi (New) – Motihari 400kV D/c line with Triple Snowbird conductor
3. LILO of both circuits of Nabinagar-II – Gaya 400kV D/c (Quad Moose) line of PGCIL at Chandauti (New)
4. LILO of Kishanganj – Patna 400kV D/c (Quad Moose) line of PGCIL at Saharsa (New)

Substation

1. Establishment of 400/220/132 kV, 2x500 MVA + 2x200 MVA S/s at Sitamarhi (New)

400 kV

- ICTs: 400/220 kV, 2x500 MVA
- ICTs bays: 2 no.
- Line bays with space for switchable line reactor: 4 no.
[2 no. for Darbhanga – Sitamarhi (New) 400kV D/c line with Triple Snowbird conductor and 2 no. for Sitamarhi (New) – Motihari 400kV D/c line with Triple Snowbird conductor]
- Bus reactor: 420kV, 2x125 MVAR
- Bus reactor bay: 2 no.
- Space for future line bays (including space for switchable line reactor): 6 no.
- Space for future ICT bays: 2 no.

220 kV

- ICTs: 220/132 kV, 2x200 MVA
- ICTs bays: 4 no.
- Line bays: 4 no.
[2 no. for Sitamarhi (New) – Motipur (BSPTCL) and 2 no. for Sitamarhi (New) – Motihari (New of BSPTCL) 220kV D/c lines]
- Space for future line bays: 4 no.

Space for future ICT bays: 4 no.

132 kV

- ICTs bays: 2 no.
- Line bays: 4 no.
[2 no. for Sitamarhi (New) – Sitamarhi 132kV D/c (Single Moose) line and 2 no. for Sitamarhi (New) – Pupri 132kV D/c line]
- Space for future line bays: 4 no.
- Space for future ICT bays: 2 no.
- Space for future 400/220 kV, 2x500 MVA ICTs

Space for future 220/132 kV, 2x200 MVA ICTs

2. Establishment of 400/220/132 kV, 3x500 MVA + 3x200 MVA S/s at Chandauti (New)

400 kV

- ICTs: 400/220 kV, 3x500 MVA
- ICTs bays: 3 no.
- Line bays with space for switchable line reactor: 4 no.
[4 no. for LILO of both circuits of Nabinagar-II – Gaya 400kV D/c (Quad Moose) line of PGCIL at Chandauti (New)]
- Bus reactor: 420kV, 2x125 MVAR
- Bus reactor bay: 2 no.
- Space for future line bays (including space for switchable line reactor): 6 no.
- Space for future ICT bays: 2 no.

220 kV

- ICTs: 220/132 kV, 3x200 MVA
- ICTs bays: 6 no.
- Line bays: 4 no.
[4 no. for LILO of Gaya (PGCIL) – Sonenagar 220kV D/c at Chandauti (New). Gaya (PGCIL) – Sonenagar shall be LILOed at Bodhgaya (BSPTCL) also, so as to form Gaya (PGCIL) – Bodhgaya (BSPTCL) – Chandauti (New) – Sonenagar 220kV D/c line]
- Space for future line bays: 4 no.
- Space for future ICT bays: 4 no.

132 kV

- ICTs bays: 3 no.
- Line bays: 4 no.
[2 no. for LILO of Chandauti (BSPTCL) – Rafiganj and 2 no. for LILO of Chandauti (BSPTCL) – Sonenagar 132kV S/c (HTLS conductor of 240MVA, ampacity - 1050A) lines at Chandauti (New)]
- Space for future line bays: 4 no.
- Space for future ICT bays: 2 no.
- Space for future 400/220 kV, 2x500 MVA ICTs

Space for future 220/132 kV, 2x200 MVA ICTs

3. Establishment of 400/220/132 kV, 2x500 MVA + 2x200 MVA S/s at Saharsa (New)

400 kV

- ICTs: 400/220 kV, 2x500 MVA
- ICTs bays: 2 no.
- Line bays with space for switchable line reactor: 4 no.

[4 no. for LILO of Kishanganj – Patna 400kV D/c (Quad Moose) line of PGCIL at Saharsa (New)]

- Bus reactor: 420kV, 2x125 MVAR
- Bus reactor bay: 2 no.
- Space for future line bays (including space for switchable line reactor): 6 no.

Space for future ICT bays: 2 no.

220 kV

- ICTs: 220/132 kV, 2x200 MVA
- ICTs bays: 4 no.
- Line bays: 4 no.
[2 no. for Saharsa (New) – Begusarai and 2 no. for Saharsa (New) – Khagaria (New) 220kV D/c lines]
- Space for future line bays: 4 no.
- Space for future ICT bays: 4 no.

132 kV

- ICTs bays: 2 no.
- Line bays: 2 no.
[2 no. for Saharsa (New) – Saharsa 132kV D/c line]
- Space for future line bays: 6 no.
- Space for future ICT bays: 2 no.
- Space for future 400/220 kV, 2x500 MVA ICTs

Space for future 220/132 kV, 2x200 MVA ICTs

4. Substation extension at Darbhanga S/s

- 400kV Line bays with space for switchable line reactor: 2 no.

[2 no. for Darbhanga – Sitamarhi (New) 400kV D/c line with Triple Snowbird conductor]

5. Substation extension at Motihari S/s

400kV

- ICTs: 400/132kV, 315MVA (3rd)
- ICT bays: 1 no.
- Line bays with space for switchable line reactor: 2 no.[2 no. for Sitamarhi (New) – Motihari 400kV D/c line with Triple Snowbird conductor]

132kV

ICT bays: 1 no.

General Detail

Special Purpose Vehicle (SPV)	:	ERSS XXI Transmission Limited
Bid Process Coordinator (BPC)	:	REC TPCL
Estimated Cost(Rs in crs)	:	Rs.1321 Cr
Levellised Tariff (Rs. Crs)	:	Rs.138.586 Cr
Request for Qualification	:	28.12.2016
Request for Proposal	:	11.08.2017
Letter of Intent	:	27.09.2017
Transmission Service Agreement (TSA)	:	22.12.2017
SPV acquisition	:	12.01.2018

Transmission License by CERC	:	Application on 16.01.2018
Tariff adoption by CERC	:	Application on 16.01.2018
Contract Performance Guarantee	:	Application on 11.01.2018
Clearance u/s 164	:	Application to be filed before CEA
Execution plan submitted to	:	29.01.2018
EPC awarded on	:	24.01.2018
Scheduled Date of Completion	:	12.03.2021
Anticipated Date of Completion	:	12.03.2021

Status of progress of transmission project

1. Darbhanga – Sitamarhi (New) 400kV D/C line

Procurement activities initiated

Award placed on 24.01.2018 to M/s. TATA. Survey under progress.

Length:	80.5Km
Locations:	215 Nos.
Foundation completed	37nos.
Towers erected	
Stringing	
Scheduled COD	March'2021
Anticipated COD	

2. Sitamarhi (New) – Motihari 400kV D/C line

Procurement activities initiated. Award placed on 24.01.2018 to M/s. TATA.
Survey under progress.

Length:	85.3 km
Locations:	225 Nos.
Foundation completed	20
Towers erected	
Stringing	
Scheduled COD	March'2021
Anticipated COD	

3. LILO of both circuits of Nabinagar-II – Gaya 400KV D/c (Quad Moose) line of PGCIL at Chandauti (New)

Procurement activities initiated

Award placed on 24.01.2018 to M/s. TATA. Survey under progress.

Length:	2.2 Km
Locations:	12 Nos.
Foundation completed	
Towers erected	
Stringing	
Scheduled COD	March'2021
Anticipated COD	

4. LILO of Kishanganj – Patna 400KV D/c (Quad Moose) line of PGCIL at Saharsa (New)

Procurement activities initiated. Award placed on 24.01.2018 to M/s. TATA.
Survey under progress.

Completion Target:	March'2021
Length:	75Km
Locations:	205 Nos.
Foundation completed	
Towers erected	
Stringing	
Scheduled COD	March'2021
Anticipated COD	

5. Establishment of 400/220/132 kV, 2x500 MVA + 2x200 MVA S/s at Sitamarhi (New)

Awarded on 27.02.2018. Engg. Under progress.

Land acquired	:
Civil work completed	:
Equipment supplied	:
Equipment erection	:
Scheduled COD	:
Anticipated COD	:

6. Establishment of 400/220/132 kV, 3x500 MVA + 3x200 MVA S/s at Chandauti (New)

Awarded on 20.03.2018. Engg. Under progress.

Land acquired	:
Civil work completed	:
Equipment supplied	:
Equipment erection	:
Scheduled COD	:
Anticipated COD	:

7. Establishment of 400/220/132 kV, 2x500 MVA + 2x200 MVA S/s at Saharsa (New)

Awarded on 20.03.2018. Engg. Under progress.

Land acquired	:
Civil work completed	:
Equipment supplied	:
Equipment erection	:
Scheduled COD	:
Anticipated COD	:

8. Substation extension at Darbhanga S/s

Awarded on 27.02.2018. Engg. Under progress.

Land acquired	:
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Civil work completed :
Equipment supplied :
Equipment erection :
Scheduled COD :
Anticipated COD :

9. Substation extension at Motihari S/s

Awarded on 27.02.2018. Engg. Under progress.

Land acquired :
Civil work completed :
Equipment supplied :
Equipment erection :
Scheduled COD :
Anticipated COD :

Status: Land acquisition under progress

(12) Name of transmission project - New WR-NR 765 kV Inter-Regional Corridor

Background

To enhance the power transfer capability between Western and Northern Regions, the following WR - NR Inter-regional corridor has been approved.

The corridor shall provide strong connectivity between NR and WR grids and facilitate reliable flow of power from various generation projects in WR to load centers in NR.

Scope of transmission project

1. 765 kV Vindhyanchal Pooling Station- Varanasi D/C line

General Detail

Special Purpose Vehicle (SPV)	:	WR-NR Power Transmission Limited
Bid Process Coordinator (BPC)	:	REC TPCL
Estimated Cost (Rs in crs)	:	Rs.916 Cr
Levellised Tariff (Rs. Crs)	:	Rs.92.733 Cr
Request for Qualification	:	19.12.2016
Request for Proposal	:	22.09.2017
Letter of Intent	:	01.03.2018
Transmission Service Agreement (TSA)	:	27.04.2017
SPV acquisition	:	27.03.2018
Transmission License by CERC	:	27.08.2018
Tariff adoption by CERC	:	Application to be filed before CERC on 5.4.18
Contract Performance Guarantee	:	Submitted on 27.03.2018
Clearance u/s 164	:	Application to be filed before CEA
Execution plan:	:	Submitted in Apr'18
EPC awarded on	:	Awarded 11.04.18
Scheduled Date of Completion	:	27.07.2021
Anticipated Date of Completion	:	27.07.2021

Status: Transmission Line awarded on 11.04.2018. Engineering under progress.

1. 765 kV Vindhyanchal Pooling Station- Varanasi D/C line

Line awarded on 11.04.2018

Length:	189.27 Km
Locations:	519 Nos.
Foundation completed:	18 Nos.
Towers erected:	
Stringing:	
Scheduled COD:	July'21
Anticipated COD:	

Forest:

Forest proposal's soft copy uploaded on Forest portal on 01.09.2018.
Hard copy in 06 sets submitted on 08.09.2018.

Power line crossing

Total no. of crossings	:	15 Nos.	
Proposal submitted	:	05 Nos	Date: 03.09.18

Railway Crossing

Proposal submitted	:	1 No.	Date: 12.09.18
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National Highway Crossing

Proposal submitted	:	1 No.	Date: 03.09.18
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(13) Name of transmission project- System strengthening for WR

Background

A large number of IPP projects totaling to an installed capacity of 35000 MW are proposed to come in Chhattisgarh, MP, Odisha, Jharkhand and West Bengal and scheduled to commissioned by 12th plan and targeted beneficiaries are constituents of NR & WR. For evacuating power from these IPPs and delivering it to the target beneficiaries a comprehensive system has been evolved. The evolved transmission system consists of (i) dedicated transmission system from generating station to pooling point and their interconnection (ii) System strengthening common to WR and NR (iii) System strengthening in WR (iv) System strengthening in NR. This scheme is part of High Capacity Power Transmission Corridor(HPTC)-I & V, which has been planned for evacuation of power from Phase-I generation projects in Odisha and system strengthening of WR respectively.

Scope of transmission project

1. Jabalpur-Bhopal 765 kV S/C line
2. Bhopal-Indore 765 kV S/C line
3. Bhopal-Bhopal (MP) 400 kV D/C line
4. Aurangabad-Dhule 765 kV S/C line
5. Dhule-Vadodara 765 kV S/C line
6. Dhule - Dhule(Mah) 400 kV D/C Line
7. 2x1500 MVA 765/400 kV s/s at Bhopal
8. 2x1500 MVA, 765/400 kV s/s at Dhule

General Details

Special Purpose Vehicle (SPV)	:	Bhopal Dhule Trans. Co. Ltd. (SPTL)
Bid Process Coordinator (BPC)	:	Power Finance Corporation
Estimated Cost (Rs. crs)	:	2900
Request for Qualification	:	02.03.2010
Request for Proposal	:	10.01.2011
Letter of Intent	:	19.01.2011
Transmission Service Agreement (TSA)	:	07.12.2010
SPV acquisition	:	31.03.2011
Transmission License by CERC	:	12.10.2011
Tariff adoption by CERC	:	28.10.2011
Clearance u/s 164	:	29.01.2013
Execution plan submitted to CEA	:	
Scheduled Date of Completion	:	30.03.2014
Actual Date of Completion	:	Jun'2015

Status of progress of transmission project

- | | | |
|--|---|------------------------------|
| 1. Jabalpur-Bhopal 765 kV S/C line | : | Line commissioned on 06/2015 |
| 2. Bhopal-Indore 765 kV S/C line | : | Line commissioned on 10/2014 |
| 3. Bhopal-Bhopal (MP) 400 kV D/C line. | : | Line commissioned on 07/2014 |
| 4. Aurangabad-Dhule 765 kV S/C line | : | Line commissioned on 10/2014 |
| 5. Dhule-Vadodara 765 kV S/C line | : | Line commissioned on 02/2015 |

- | | |
|---|------------------------------|
| 6. Dhule - Dhule(Mah) 400 kV D/C Line : | Line commissioned on 11/2014 |
| 7. 2x1500 MVA 765/400 kV s/s at Bhopal: | S/s commissioned on 07/2014 |
| 8. 2x1500 MVA, 765/400 kV s/s at Dhule: | S/s Commissioned on 11/2014 |

Transmission project commissioned on Jun-2015.

(14) Name of transmission project - System strengthening for WR and NR

Background

A large number of IPP projects totaling to an installed capacity of 35000 MW are proposed to come in Chhattisgarh, MP, Odisha, Jharkhand and West Bengal and scheduled to commissioned by 12th plan and targeted beneficiaries are constituents of NR & WR. For evacuating power from these IPPs and delivering it to the target beneficiaries a comprehensive system has been evolved. The evolved transmission system consists of (i) dedicated transmission system from generating station to pooling point and their interconnection (ii) System strengthening common to WR and NR (iii) System strengthening in WR (iv) System strengthening in NR. This scheme is part of High Capacity Power Transmission Corridor (HPTC)-II, which has been planned for strengthening of transmission system required for transfer of power from Generating projects in Jharkhand to NR/WR.

Scope of transmission project

1. Dhramjaygarh -Jabalpur 765 kV D/C line
2. Jabalpur-Bina 765 kV S/C line

General Details

Special Purpose Vehicle(SPV)	:	Jabalpur Transmission Company Limited (Sterlite Power Trans. Limited)
Bid Process Coordinator(BPC)	:	Power Finance Corporation
Estimated Cost (Rs. crs)	:	1720
Request for Qualification	:	
Request for Proposal	:	28.12.2010
Letter of Intent	:	31.01.2011
Transmission Service Agreement(TSA)	:	12.11.2013
SPV acquisition	:	31.03.2011
Transmission License by CERC	:	12.10.2011
Tariff adoption by CERC	:	28.10.2011
Contract Performance Guarantee	:	
Clearance u/s 164	:	2.07.2013
Execution plan submitted to CEA	:	
NIT issued on	:	
EPC contract awarded on	:	
Scheduled Date of Completion	:	30.03.2014
Actual Date of Completion	:	Sep' 2015

Status of progress of transmission project

1. Dhramjaygarh -Jabalpur 765 kV D/C lines - Line commissioned on 09/2015
2. Jabalpur-Bina 765 kV S/C line - Line commissioned on 06/2015

Transmission project commissioned on September, 2015.

(15) Name of transmission project - Scheme for enabling import of NER/ER surplus by Northern Region

Background

For meeting its power requirements in the XI plan and beyond, NR would need to import substantial amount of power from other regions. Most of this power would be imported from surplus ER and NER. For import of power by NR from generation projects proposed to come up in northern part of ER and NER, system strengthening would be required in the transmission corridors connecting from NER to ER and in the eastern part of ER. This transmission project has been proposed for strengthening of NER-ER transmission corridor. Though the scheme is physically located in North eastern and eastern region it has been conceived as an extension of NR network as this will be utilized mainly by NR for meeting its power import requirement from projects located in NER and Sikkim in ER. Substantial exportable power would be available in the NER after commissioning of Tripura Gas (740 MW), Bongaigaon TPS (9750 MW), Kameng HEP (600 MW). Subansiri HEP (2000 MW) would add further to the exportable surplus of NER. Power from hydro projects in Sikkim would also be imported by NR. The constituents of NR are likely to be allocated power from hydro projects of Kameng and Subansiri.

Scope of transmission project

1. Bongaigaon - Siliguri 400 kV D/C line
2. Purnea – Bihar Sharif 400 kV D/C line

General Details

Special Purpose Vehicle (SPV)	:	East-North Interconnection Company Ltd (A subsidiary of Sterlite Power Trans. Limited)
Bid Process Coordinator (BPC)	:	Power Finance Corporation
Estimated Cost (Rs. crs)	:	1700
Request for Qualification	:	
Request for Proposal	:	20.10.2008
Letter of Intent	:	07.01.2010
Transmission Service Agreement	:	10.08.2009
SPV acquisition	:	31.03.2010
Transmission License by CERC	:	28.10.2010
Tariff adoption by CERC	:	28.10.2010
Contract Performance Guarantee	:	
Clearance u/s 164	:	19.05.2011
Execution plan submitted to CEA	:	20.10.2008
NIT issued on	:	
EPC contract awarded on	:	
Scheduled Date of Completion	:	
Actual Date of Completion	:	Nov' 2014

Status of progress of transmission project

1. Bongaigaon-Siliguri 400 kV (Q) D/C: Line commissioned on 11/2014
2. Purnea-Bihar Sharif 400 kV D/C (Q): Line commissioned on 09/2013

Transmission project commissioned on November, 2014.

(16) Name of transmission project- Part ATS for RAPP U-7&8 in Rajasthan

Background

For evacuation of power from RAPP-5 to 8(1840 MW), RAPP-5&6 (440 MW) and RAPP-7&8 (2x700 MW), following composite system was evolved and planned to be developed in a phased manner matching with generation projects.

For RAPP -5&6 generation, following transmission system have been commissioned and are in operation;

- RAPP – Kankroli 400kV D/C line
- RAPP – Kota 400kV S/C line

For RAPP -7&8 generation, following transmission system have been planned

- RAPP – Jaipur 400kV D/C line with one ckt via Kota
- RAPP – Shujalpur 400kV D/C line

While element 1 is being taken by PGCIL, the element 2 is proposed under TBCB. This 400 kV line would also act as an inter-regional link between NR and WR. The link would also help in evacuation of power from the complex even in case of any grid constraints in NR.

Scope of transmission project

1. RAPP – Shujalpur 400 kV D/C line

General Details

Special Purpose Vehicle(SPV)	:	RAPP Transmission Company Limited (A subsidiary of Sterlite Power Trans. Limited)
Bid Process Coordinator(BPC)	:	Power Finance Corporation
Estimated Cost (Rs. crs)	:	310
Request for Qualification	:	10.01.2013
Request for Proposal	:	09.09.2013
Letter of Intent	:	17.09.2013
Transmission Service Agreement(TSA)	:	24.07.2013
SPV acquisition	:	12.03.2014
Transmission License by CERC	:	31.07.2014
Tariff adoption by CERC	:	23.07.2014
Contract Performance Guarantee	:	23.11.2013
Clearance u/s 164	:	07.01.2015
Execution plan submitted to CEA	:	30.06.2014
NIT issued on	:	08.11.2013
EPC contract awarded on	:	18.09.2014
Scheduled Date of Completion	:	28.02.2016
Actual Date of completion	:	November, 2016

Status of progress of transmission project

- (1) RAPP - Shujalpur 400kV D/C line : Line Charged on 15th November 2016
Transmission project commissioned on Nov-16.

(17) Name of transmission project - Eastern Region System Strengthening Scheme-VII

Background

In view of the growth of generation projects in different pockets of ER, it is felt desirable to strengthen the interconnection of the state grids with the regional grid to facilitate exchange of additional power between them. This scheme has been planned as the system-strengthening scheme for exchange of power between West Bengal grid and inter-state transmission system (ISTS).

Scope of transmission project

1. Purulia PSPP – Ranchi 400 kV D/C line
2. Kharagpur – Chaibasa 400 kV D/C line

General Details

Special Purpose Vehicle(SPV):	Purulia & Kharagpur Transmission Company Limited (A subsidiary of Sterlite Power Trans. Limited)
Bid Process Coordinator(BPC)	: Power Finance Corporation
Estimated Cost (Rs. Crs)	: 370
Request for Qualification	: 28.12.2012
Request for Proposal	: 06.09.2013
Letter of Intent	: 17.09.2013
Transmission Service Agreement(TSA)	: 06.08.2013
SPV acquisition	: 09.12.2013
Transmission License by CERC	: 30.05.2014
Tariff adoption by CERC	: 20.08.2014
Contract Performance Guarantee	: 22.11.2013
Clearance u/s 164	: 20.05.2015
Execution plan submitted to CEA	: 10.03.2014
NIT issued on	: 08.11.2013
EPC contract awarded on	: 02.12.2014 (For KC Line) & 27.05.2015 (For PR line)
Scheduled Date of Completion	: April 2016
Actual Date of completion	: January, 2017

Status of progress of transmission project

1. Purulia PSP (WB) – Ranchi (PG) 400 kV D/C line
 - Length: 223.4 Ckm .Line commissioned on 07-Jan-17
2. Chaibasa – Kharagpur 400 kV D/C line
 - Length: 323 Ckm Locations:426 nos

Line Completed on Jun-16, Project Commissioned on Jan-17.

(18) Name of transmission project - Northern Region System Strengthening Scheme(NRSS-XXIX)

Background

Presently the power supply to the valley is through Kishenpur – Wagoora 400 kV D/C line, Kishanpur- Pampore 220 kV D/C line and Udampur – Pampore 132 kV D/C line. Kishanpur -newwanpoh 400 kV D/C Line is under construction. All the existing and under construction line are routed through Udampur – Batote – Banihal – Pir Panjal pass. The common corridor of the transmission line is highly prone to snow storm, landslides and other natural calamities making power supply to the Kashmir valley vulnerable. There was a complete collapse of power supply to Kashmir valley on 6th and 7th Jan.'12 due to heavy snowfall and breakdown/tripping of all three existing links between Jammu region and Kashmir valley. Further power supply to Jammu and Kashmir is basically through 400/220 kV Kishanpur substation and there is an immediate need for providing an alternate route for transfer of power from Jammu region to Kashmir valley. Further to meet the high load growth anticipated in northern part of Kashmir and to cater to projected loads, a 400/220 kV substation at Amargarh in North Kashmir area is required. Accordingly, to mitigate above constraints present scheme has been proposed.

Scope of transmission project

1. Establishment of 7 x 105 MVA, 400/220 kV GIS substation at Amargarh
2. Jalandhar – Samba 400 kV D/C line
3. Samba – Amargarh 400 kV D/C routed through Akhnoor & Rajouri
4. LILO of both circuits of Uri – Wagoora 400 kV D/c line at Amargarh

General Details

Special Purpose Vehicle (SPV)	:	NRSS-XXIX Transmission Limited (Sterlite Power Trans. Limited)
Bid Process Coordinator (BPC)	:	Rural Electrification Corporation
Estimated Cost (Rs. crs)	:	2621
Request for Qualification	:	02.08.2013
Request for Proposal	:	09.05.2014
Letter of Intent	:	23.05.2014
Transmission Service Agreement (TSA)	:	02.01.2014
SPV acquisition	:	04.08.2014
Transmission License by CERC	:	14.11.2014
Tariff adoption by CERC	:	10.12.2014
Contract Performance Guarantee	:	26.06.2014
Clearance u/s 164	:	30.09.2015
Execution plan submitted to CEA	:	07.11.2014
NIT issued on	:	15.09.2014(For J-S Line), 05.03.2015(For S-A line) & 18.09.2014(For Amargarh S/S)
EPC contract awarded on	:	15.12.2014(for JS Line), 29.07.2015 (for SA Line) & 21.12.15 (for Amargarh S/S)
Scheduled Date of Completion	:	04.10.2018

Actual Date of completion : August, 2018

Status of progress of transmission projects

1. Jullandhar – Samba 400 kV D/C line

Length: 270 Ckm .

Line Commissioned on June-16.

2. Samba – Amargarh 400 kV D/C line

Length: 546.8 Ckm .

Locations: 761 nos

Line Commissioned in Aug'18.

3. 7x105 MVA, 400/220 kV Amargarh GIS

Substation commissioned in May'18.

4. LILO of both circuit of Uri – Wagoora 400 kV D/C line at Amargarh

Length: 13.64 ckm

Locations: 23 nos.

Line commissioned in Mar'18/Apr'18.

Transmission Project commissioned on Aug'18.

(19) Name of transmission project - Connectivity lines for Maheshwaram 765/400 kV Pooling Station

Background

Presently Southern Region is facing severe power shortage. This power deficit situation has arisen mainly due to (i) delay/deferment of anticipated generation projects and (ii) also due to non-availability of gas for existing gas projects in Southern Region. Presently the existing/planned system can facilitate import of about 9000 - 10000 MW into Southern Region. However, under certain scenarios of non-availability / delay in commissioning of some of the generation projects in Southern region expected power transfer requirement is about 16000 MW by 2018-19. In view of large deficit and requirement of transmission system to meet future power transfer requirements, high capacity Inter-regional strengthening schemes were identified. The Present Scheme is part of the above identified scheme.

Scope of transmission project

1. Maheshwaram (PG) – Mehboob Nagar 400 kV D/C line
2. Nizamabad – Yeddumailaram (Shankarpalli) 400kV D/c line
3. 2 No. of 400 kV line bays at Mehboob Nagar S/S of TSTRANSCO
4. 2 No. of 400 kV line bays at Yeddumailaram S/S of TSTRANSCO.

General Detail

Special Purpose Vehicle (SPV)	:	Maheshwaram Transmission Ltd. (Sterlite Power Trans. Limited)
Bid Process Coordinator (BPC)	:	Rural Electrification Corporation
Estimated Cost (Rs. crs)	:	534
Request for Qualification	:	21.08.2014
Request for Proposal	:	03.08.2015
Letter of Intent	:	21.07.2015
Transmission Service Agreement (TSA)	:	10.06.2015
SPV acquisition	:	20.08.2015
Transmission License by CERC	:	23.11.2015
Date of tariff adoption by CERC	:	24.11.2015
Contract Performance Guarantee	:	18.08.2015
Clearance u/s 164	:	23.09.2016
NIT issued on	:	02.11.2015
EPC contract awarded on	:	13.01.2016
Execution plan submitted to CEA	:	01.12.2015
Scheduled Date of Completion	:	20.06.2018
Actual Date of completion	:	December, 2017

Status of progress of transmission project:

1. Maheshwaram – Mahboobnagar 400 kV D/C line

- Length: 197.178 ckm
- Locations: 255 nos

Line commissioned on Dec'17.

2. Nizamabad – Yeddumailaram (Shankarpalli) 400 kV D/C line

- Length: 279.326 ckm
- Locations: 367 nos

Line commissioned on Oct'17.

3. 2 No. of 400 kV line bays at Mehboob Nagar S/S of TSTRANSCO

Bay commissioned on Dec'17

4. 2 No. of 400 kV line bays at Yeddumailaram S/S of TSTRANSCO.

Bay commissioned on Oct'17.

Transmission Project commissioned on Dec'17.

(20) Name of transmission project - Common Transmission system for phase-II generation projects in Orissa and immediate evacuation system for OPGC project (Orissa)

Background

Various IPPs, expected to be commissioned in Odisha, had applied for grant of connectivity and LTOA/LTA. Seven IPPs were considered under phase-I and transmission system for the same under implementation under HCTPC-I scheme. Further following 5 projects were considered under phase-II generation projects in Odisha;

Sterlite Energy Ltd (Ph-I project) (LTA of 1000 MW under Ph-II)	2400 MW
GMR Kamalanga Energy Ltd(Ph-II)	350 MW
OPGC	1350 MW
Darlipalli(NTPC)	1600 MW
NSL Nagapatnam Power & Infratech	1320 MW

and following transmission system has been finalized for evacuation of power from above mentioned generation projects;

(i) Immediate evacuation system for Ph-II generation projects in Odisha

- Sterlite TPP – Jharsuguda 400 kV D/C line
- GMR – Angul 400 kV D/C line
- OPGC – Jharsuguda 400 kV D/C line
- Darlipalli –Jharsuguda 400 kV D/C line
- NSL Nagapatnam – Angul 400 kV D/C line

(ii) Common transmission system associated with Ph-II generation projects in Odisha

- Angul – Jharsuguda – Dharamjaygarh 765 kV D/C line(2nd)
- Jharsuguda – Raipur pool 765 kV D/C line
- LILO of Rourkela – Raigarh 400 kV D/C line(2nd) at Jharsuguda
- Addition of 2x1500 MVA, 765/400 kV ICT at Jharsuguda
- Addition of 2x1500 MVA, 765/400 kV ICT at Angul
- Split bus arrangement at 400 kV and 765 kV bus in both Angul and Jharsuguda

Scope of transmission project

1. Jharsuguda – Raipur pool 765 kV D/C line
2. OPGC – Jharsuguda 400 kV D/C line

General Detail

Special Purpose Vehicle (SPV)	:	Odisha Generation Phase-II Trans. Limited (A subsidiary of Sterlite Power Trans. Limited)
Bid Process Coordinator (BPC)	:	Power Finance Corporation
Estimated Cost (Rs. crs)	:	2736
Request for Qualification	:	23.04.2015
Request for Proposal	:	15.12.2015
Letter of Intent	:	06.01.2016
Transmission Service Agreement	:	20.11.2015
SPV acquisition	:	08.04.2016

Transmission License by CERC	:	30.06.2016
Tariff adoption by CERC	:	31.05.2016
Contract Performance Guarantee	:	28.01.2016
Clearance u/s 164	:	07.03.2017
Execution plan submitted to CEA	:	14.07.2016
NIT issued on	:	10.01.2016
EPC contractor awarded on	:	23.06.2016
Scheduled Date of Completion	:	08.08.2019
Anticipated Date of Completion	:	Oct'18

Status of progress of transmission project

1. Jharsuguda – Raipur 765 kV D/C (hexa) line

Length:	608 CKm
Locations:	782 nos
Foundation completed:	782 nos
Tower erected:	782 nos
Stringing completed:	578 CKm
Scheduled COD:	Aug'19
Anticipated COD:	Oct'18

Constraints where Project Authority requires intervention:

1. Force Majeure & Change in law - Introduction of power line crossings Standardisation requirement by CEA which causes increase in cost, route diversion due to RoW issue by Videocon, Height extension of tower as directed by CEA in SKS plant area. Notices served to LTTC's.
2. Introduction of new guidelines for determination of Land & Corridor compensation in the state of Odisha and Chhattishgarh which has led to the increase in cost of the project. Notices served to LTTC's.

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest:-

Chattisgarh Portion-

Locations	:	27 nos.
Length	:	40 km
Forest area affected (ha)	:	71.76 ha
Forest proposals submitted on	:	13.09.2016
Current status	:	Stage-I Approval / tree cutting permission received

Odisha Portion-

Locations	:	31 nos.
Length	:	25 km
Forest area affected (ha)	:	94.65 ha
Forest proposals submitted on	:	03.10.2016
Current status:	:	Stage-I Approval / tree cutting permission received.

Power line crossing

Total no. of crossings	:	46	nos.
Proposal submitted	:	46	nos.
Approval obtained	:	46	nos.

Railway crossing

Total no. of crossings	:	6	nos.
Proposal submitted	:	6	nos.
Approval obtained	:	6	nos.

National Highway Crossing

Total no. of crossings	:	6	nos.
Proposal submitted	:	6	nos.
Approval obtained	:	6	nos.

River Crossings

Total no. of crossings	:	0	nos.
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PTCC approval (Chattisgarh Portion)

Proposal submitted to Defence on	:	23.06.2016
Proposal submitted to BSNL on	:	23.06.2016
Proposal submitted to Railways on	:	23.06.2016
Current status	:	Received

PTCC approval (Odisha Portion)

Proposal submitted to Defence on	:	23.06.2016
Proposal submitted to BSNL on	:	23.06.2016
Proposal submitted to Railways on	:	23.06.2016
Current status: Approval Obtained on	:	05.09.2017

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on	:	
Current Status	:	Obtained

2. OPGC TPS– Jharsuguda 400 kV D/C (triple) line

- Length: 102.5 ckm
- Locations: 152 nos

Line commissioned on Dec'17.

(21) Name of transmission project - Creation of new 400 kV GIS in Gurgaon area and Palwal as a part of ISTS

Background

HVPNL furnished district wise load projections of Haryana for 13th Plan (2021-22). Looking at the load growth in Prithala and around Gurgaon areas, new three-400kV substation one at Kadarapur, other at Sohna Road in Gurgaon area and 400kV substation at Prithla in Palwal area as a part of Inter State Transmission System (ISTS) has been proposed to cater the load demand of Gurgaon and Palwal. The first two S/S are to cater the load demand of sector 58 to sector 67 and sector 68 to sector 80 sectors of Gurgaon respectively. The creation of Prithala S/S would meet the power demand of the area to be developed under Prithala Development Plan. Beside this it will also act as a main feeding source to Palwal, Rangla Rajpur and Meerpur Kurli.

Scope of transmission project

1. Aligarh-Prithala 400 kV D/C HTLS line
2. Prithala-Kadarapur 400 kV D/C HTLS line
3. Kadarapur-Sohna road 400 kV D/C HTLS line
4. LILO of Gurgaon – Manesar 400 kV D/C (Q) line at Sohna Road
5. Neemrana(PG) – Dhanonda 400 kV D/C HTLS line
6. 2x500 MVA, 400/220 kV GIS at Kadarapur (Gurgaon)
7. 2x500 MVA, 400/220 kV GIS at Sohna Road (Gurgaon)
8. 2x500 MVA, 400/220 kV GIS at Prithala(Palwal)
9. 2 nos. of 400kV bays at Dhanonda S/S

General Detail

Special Purpose Vehicle (SPV)	:	Gurgaon Palwal Transmission Limited. (Sterlite Power Trans. Limited)
Bid Process Coordinator (BPC)	:	Power Finance Corporation
Estimated Cost (Rs. crs)	:	1759
Request for Qualification	:	15.10.2015
Request for Proposal	:	07.03.2016
Letter of Intent	:	17.03.2016
Transmission Service Agreement (TSA)	:	04.03.2016
SPV acquisition	:	14.07.2016
Transmission License by CERC	:	29.09.2016
Tariff adoption by CERC	:	06.09.2016
Contract Performance Guarantee	:	11.07.2016
Clearance u/s 164	:	31.03.2017
Execution plan submitted to CEA	:	09.11.2016
NIT issued on	:	24.06.2016 (For Transmission Line) 21.04.2016 (For S/s- Pre-Bid tie up)
EPC contract awarded on	:	25.11.2016 (For Transmission Line) 28.10.2016 (For Substation)
Scheduled Date of Completion	:	Sep'19 (38 months)
Anticipated Date of Completion	:	Mar'19

Status of progress of transmission project:

1. Aligarh-Prithala 400 kV D/C HTLS line

Length:	98.56 CKm
Locations:	107 nos.
Foundation completed:	94 nos.
Tower erected:	76 nos
Stringing completed:	10 nos
Scheduled COD:	May'19
Anticipated COD:	Mar'19

Constraints where Project Authority requires intervention: Nil

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest:-

Locations	:	0 nos. ; Length :	115 mtrs
Forest area (ha)	:	0.5332	
Forest proposals submitted on	:	UP – 11.11.2016 , HR – 25.04.2017	
Current status	:	UP-at RmoEF, HR – Stage-I approved	

Power line crossing

Total no. of crossings	:	3	nos.
Proposal submitted	:	3	nos.
Approval obtained	:	3	nos.

Railway crossing

Total no. of crossings	:	1	nos.
Proposal submitted	:	1	nos.
Approval obtained	:	1	nos.

National Highway Crossing

Total no. of crossings	:	2	nos.
Proposal submitted	:	2	nos.
Approval obtained	:	2	nos.

River Crossings

Total no. of crossings	:	0	nos.
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PTCC approval

Proposal submitted to Defence on	:	
Proposal submitted to BSNL on	:	
Proposal submitted to Railways on	:	
Current status	:	Received..

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on : 27.07.2017
Current Status: NOC from Defence received and Civil Aviation also received.

2. Prithala-Kadarpur 400 kV D/C HTLS line

Length:	54.9 Ckm
Locations:	64 nos.
Foundation completed:	44 nos
Tower erected:	33 nos
Stringing completed:	0 nos
Scheduled COD:	May'19
Anticipated COD:	Mar'19

Constraints where Project Authority requires intervention: nil

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest:-

Locations	:	7 nos.
Length	:	3188 mtrs
Forest area affected (ha)	:	14.6613
Forest proposals submitted on	:	
Current status	:	FDP pending at NODAL office.

Power line crossing

Total no. of crossings	:	4	nos.
Proposal submitted	:	4	nos.
Approval obtained	:	4	nos.

Railway crossing

Total no. of crossings	:	1	nos.
Proposal submitted	:	1	nos.
Approval obtained	:	1	nos.

National Highway Crossing

Total no. of crossings	:	1	nos.
Proposal submitted	:	1	nos.
Approval obtained	:	0	nos.

River Crossings

Total no. of crossings	:	0	nos.
Proposal submitted	:	0	nos.
Approval obtained	:	0	nos.

PTCC approval

Proposal submitted to Defence on	:	
Proposal submitted to BSNL on	:	
Proposal submitted to Railways on	:	
Current status	:	proposal submitted.

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on :
Current Status: NOC from Defence and civil aviation received.

3. Kadarpur-Sohna road 400 kV D/C HTLS line

Length:	22.14 Ckm
Locations:	29 nos.
Foundation completed:	7 nos
Tower erected:	1 nos
Stringing completed:	0 nos
Scheduled COD:	Sep'19
Anticipated COD:	Mar'19

Constraints where Project Authority requires intervention: Nil

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest:- Locations: 7 nos. Length: 3146 mtrs
 Forest area affected (ha) : 14.4716
 Forest proposals submitted on .04.10.17
 Current status: FDP submitted online. Pending at DFO.

Power line crossing

Total no. of crossings	:	3	nos.	
Proposal submitted	:	3	nos.	Date:
Approval obtained	:	2	nos.	Date:

Railway crossing

Total no. of crossings	:	0	nos.	
Proposal submitted	:	0	nos.	Date:
Approval obtained	:	0	nos.	Date:

National Highway Crossing

Total no. of crossings	:	1	nos.	
Proposal submitted	:	1	nos.	Date:
Approval obtained	:	0	nos.	Date:

River Crossings

Total no. of crossings	:	0	nos.
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PTCC approval

Proposal submitted to Defence on
 Proposal submitted to BSNL on
 Proposal submitted to Railways on
 Current status : Proposal Submitted

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on.....
 Current Status: Received Civil and Defence clearance..

4. LILO of Gurgaon – Manesar 400 kV D/C (Q) line at Sohna Road

Length:	0.78 Ckm
Locations:	2 nos.
Foundation completed:	0 nos
Tower erected:	0 nos
Stringing completed:	0 nos
Scheduled COD:	Sep'19
Anticipated COD:	Mar'19

Constraints where Project Authority requires intervention: Nil

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest:- Locations:0 nos. Length: 0 kms

Forest area affected (ha) : **Nil**

Forest proposals submitted on

Current status:

Power line crossing

Total no. of crossings	:	0	nos.	
Proposal submitted	:	0	nos.	Date:
Approval obtained	:	0	nos.	Date:

Railway crossing

Total no. of crossings	:	0	nos.	
Proposal submitted	:	0	nos.	Date:
Approval obtained	:	0	nos.	Date:

National Highway Crossing

Total no. of crossings	:	0	nos.	
Proposal submitted	:	0	nos.	Date:
Approval obtained	:	0	nos.	Date:

River Crossings

Total no. of crossings	:	0	nos.
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PTCC approval

Proposal submitted to Defence on

Proposal submitted to BSNL on

Proposal submitted to Railways on

Current status: **Proposal submitted**

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on.....

Current Status: **Received Civil and Defense clearance**

5. Neemrana(PG) – Dhanonda 400 kV D/C HTLS line

Length:	93.26 Ckm
Locations:	110 nos.
Foundation completed:	109 nos.
Tower erected:	109 nos.
Stringing completed:	80 ckm
Scheduled COD:	May'19
Anticipated COD:	Sep'18

Constarints where Project Authority requires intervention: NIL

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest:- Locations: **1** nos. Length: 453 mtrs
 Forest area affected (ha) : **2.0386**
 Forest proposals submitted on **20.10.16**
 Current status: Stage-2 Approved for Haryana and Rajsthan portion

Power line crossing

Total no. of crossings	:	10	nos.	
Proposal submitted	:	10	nos.	Date:
Approval obtained	:	10	nos.	Date:

Railway crossing

Total no. of crossings	:	2	nos.	
Proposal submitted	:	2	nos.	Date:
Approval obtained	:	2	nos.	Date:

National Highway Crossing

Total no. of crossings	:	1	nos.	
Proposal submitted	:	1	nos.	Date:
Approval obtained	:	1	nos.	Date:

River Crossings

Total no. of crossings	:	0	nos.
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PTCC approval

Proposal submitted to Defence on
 Proposal submitted to BSNL on
 Proposal submitted to Railways on
 Current status: **NOC Received.**

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on: **25.07.17**
 Current Status: **Civil Aviation NOC Received/Defence Received**

6. 2x500 MVA, 400/220 kV GIS at Kadarapur (Gurgaon)

Land Acquired:	100%.
Civil work completed:	16%
Equipment supplied:	55%
Equipment erection:	
Scheduled COD	May'19
Anticipated COD:	Mar'19

Constraints/Approval if any:

7. 2x500 MVA, 400/220 kV GIS at Sohna Road (Gurgaon)

Land Acquired:	100%.
Civil work completed:	17%
Equipment supplied:	23%
Equipment erection:	
Scheduled COD	Sep'19
Anticipated COD:	Mar'19

Constraints/Approval if any: NIL

8. 2x500 MVA, 400/220 kV GIS at Prithala(Palwal)

Land Acquired:	100%
Civil work completed:	51%
Equipment supplied:	70%
Equipment erection:	
Scheduled COD	May'19
Anticipated COD:	Mar'19

Constraints/Approval if any: NIL

9. 2 nos. of 400kV bays at Dhanonda S/S

Land Acquired:	100 % (Space provided by HVPNL.)
Civil work completed:	100%
Equipment supplied:	100%
Equipment erection:	100%
Scheduled COD	May'19
Actual COD:	Bays charged on 20-06-2018 and 14-07-2018

(22) Name of transmission project - Connectivity system for Khargone TPP (2x660 MW)

Background

NTPC Ltd. has planned to establish a 1320MW (2x660MW) thermal power project at Khandwa in the state of Madhya Pradesh. Accordingly, transmission system for evacuation of power from generation project has been evolved.

Scope of transmission project

1. LILO of one ckt of Khandwa - Rajgarh 400kV D/C line at Khargone TPP
(The LILO shall be used for start-up power and commissioning activities requirement. After commissioning of balance transmission system, the LILO would be bypassed at Khargone generation switchyard and may be utilized only under contingency condition)
2. Khargone TPP – Khandwa pool 400 kV D/C (Quad) line
3. System strengthening in WR
 - i. Khandwa Pool – Indore 765kV D/C line
 - ii. Khandwa Pool – Dhule 765 kV D/C line
 - iii. Establishment of 765/400kV, 2x1500MVA pooling station at Khandwa
765 kV:
 - ICTs: 7x500MVA, 765/400 kV (1 spare unit)
 - ICT bays: 2 no.
 - Line bays: 4 no. (2 no. for Khandwa pool – Indore 765 kV D/C & 2 no. for Khandwa Pool – Dhule 765 kV D/C)
 - Bus reactor: 3 X 80 MVar
 - Bus reactor bay: 1 no.
 - Switchable Line reactors: 7 X 80 MVar (1 unit is as a spare unit) for Khandwa Pool – Dhule 765 kV D/C (each 240 MVAR reactor with 800 Ω NGR along with its auxiliaries)
 - Space for line bays (future): 4 no.
 - Space for ICT bays (future): 3 no.
 - Space for 1500 MVA, 765/400 kV ICTs (future): 3 no.**400 kV:**
 - ICT bays: 2 no.
 - Line bays for termination of Khargone TPP– Khandwa PS 400 kV D/C line: 2 no.
 - Bus reactor: 1 X 125 MVar
 - Bus reactor bay: 1
 - Space for line bays (future): 6 no.
 - Space for ICT bays (future): 3 no.
 - 2 nos. of 765 kV line bays and 7 X 80 MVAR Switchable line reactors (1 unit as spare) along with 800 Ω NGR & its auxiliaries for Khandwa Pool – Dhule 765 kV D/C at Dhule 765/400 kV substation of M/s BDTCL.

General Details

Special Purpose Vehicle (SPV)	: Khargone Transmission Limited (SPTL)
Bid Process Coordinator (BPC)	: RECTPCL
Estimated Cost (Rs. crs)	: 2136.59 Crs
Request for Qualification	: 30.11.2015
Request for Proposal	: 11.02.2016
Letter of Intent	: 26.05.2016
Transmission Service Agreement (TSA)	: 14.03.2016
SPV acquisition	: 22.08.2016
Transmission License by CERC	: 17.11.2016
Tariff adoption by CERC	: 11.11.2016
Contract Performance Guarantee	: 08.07.2016
Clearance u/s 164	: 05.07.2017
Execution plan submitted to CEA	: 18.12.2016
NIT issued on	: 27.05.2016 (For Transmission Lines) 29.06.2016 (For Substation)
EPC contract awarded on	: 25.11.2016 (For Transmission Lines)
Scheduled Date of Completion	: July 2019
Anticipated Date of Completion	: July 2019

Status of progress of transmission project;

1. LILO of one ckt of Khandwa - Rajgarh 400kV D/C line at Khargone TPP

Length:	13.574 CKm
Locations:	21 nos.

Line Commissioned in Feb, 2018.

2. Khargone TPP – Khandwa pool 400 kV D/C (Quad) line

• Length:	49.423 CKm
• Locations:	70 nos.
• Foundation completed:	
• Tower erected:	
• Stringing completed:	
• Scheduled COD:	Jul'19
• Anticipated COD:	Jul'19

Constraints where Project Authority requires intervention:

1. Delay in getting clearance for carrier frequency from Ministry of Communication.
Proposal submitted on 13-3-2018.
2. Introduction of new guidelines for determination of Land & Corridor compensation in the state of Madhya Pradesh which has led to the increase in cost of the project.
Notices served to LTTC's

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest: Locations: 0 nos. Length: 1095.69 Mtr.

Forest area affected (ha): 0.828 (Barwah Division)

Forest proposals submitted on 16 Nov 2016

Current status: **Approval IN-PRINCIPLE (Working Permission Recieved) Stage-II Approval under progress**

Power line crossing

Total no. of crossings : 4 (EB), 2 (PG-KNW) nos.

Proposal submitted 4nos. (EB) Date: 28-09-20182 (PG-KNW) nos. Date: 21-02-17 (PG-KNW)

Approval obtained : 2 (PG-KNW) nos. Date: 28-06-17 (PG-KNW)

Railway crossing

Total no. of crossings : 0 nos.

Proposal submitted : 0 nos. Date:

Approval obtained : 0 nos. Date:

National Highway Crossing

Total no. of crossings : 0 nos.

Proposal submitted : 0 nos. Date:

Approval obtained : 0 nos. Date:

River Crossings

Total no. of crossings : 0 nos.

PTCC approval

Proposal submitted to Defence on 29-06-17

Proposal submitted to BSNL on 17-06-17

Proposal submitted to Railways on 19-06-17

Current status: NOC Recieved

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on 13-07-17 (DA) / NR (CA)

Current Status: NOC received vide letter no. AirHQ/S 17726/4/ATS(ty BM-DCCI) dated 16th Oct'17.

3. System strengthening in WR**ii. Khandwa Pool – Indore 765kV D/C line**

Length: 179.14 CKm

Locations: 243 nos.

Foundation completed: 240 nos.

Tower erected: 205 nos.

Stringing completed: 92 ckm

Scheduled COD: Jul'19

Anticipated COD: Oct'18

Constraints where Project Authority requires intervention:

1. Delay in getting clearance for carrier frequency from Ministry of Communication. Proposal submitted on 13-3-2018.
2. Introduction of new guidelines for determination of Land & Corridor compensation in the state of Madhya Pradesh which has led to the increase in cost of the project. Notices served to LTTC's

Status of statutory approvals:**Forest**

Details of Tr. Line Falling under Forest: Locations: 49nos. Length: 25847Mtr.
Forest area affected (ha): 112.672 {40.223 (Barwah Division) + 72.449 (Indore Div.)}
Forest proposals submitted on 16 Nov 2016
Current status: Tree cutting permission received vide letter No. F-11/2018/10-11/18
dtd 02.01.18. (Tree cutting Permission Recieved) Stage II Approval under progress

Power line crossing

Total no. of crossings : 10 (EB), 1 (PG-KNW), 3 (PG-IND) nos.
Proposal submitted : 10 (EB), 1 (PG-KNW), 3 (PG-IND) nos. Date: 29-06-17 (EB), 21-02-17 (PG-KNW), 03-01-17 (PG-IND)
Approval obtained : 10nos. (EB), 1no. (PG-KNW) dated 29-8-17, 3nos. (PG-IND) dated 03-06-2017

Railway crossing

Total no. of crossings : 2 nos.
Proposal submitted : 2 nos. Date: 23-05-2017
Approval obtained : **NOC Recieved**

National Highway Crossing

Total no. of crossings : 2 nos.
Proposal submitted : NH3 Date: 06-03-17, NH59A) Date: 27-07-17
Approval obtained : NH59A Date: 10-08-2018

River Crossings

Total no. of crossings : 1 no.
Proposal submitted : Not Required 1 no. Date:
Approval obtained: Not Required 1 no. Date:

PTCC approval

Proposal submitted to Defence on 20-05-17
Proposal submitted to BSNL on 12-05-17
Proposal submitted to Railways on 19-06-17
Current status: **NOC Recieved**

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on 13-07-17 (DA) / 01-06-17 (CA)
Current Status: NOC received vide letter no. AirHQ/S 17726/4/ATS(ty BM-DCCI) dated 16th Oct'17.(DA) / NOC RECIEVED 22-06-17 (CA)

ii. Khandwa Pool – Dhule 765 kV D/C line

Length:	378.1 CKm
Locations:	486 nos.
Foundation completed:	460 nos.
Tower erected:	372 nos.
Stringing completed:	170 ckm
Scheduled COD:	Jul'19
Anticipated COD:	Nov'18

Constraints where Project Authority requires intervention:

1. Delay in getting clearance for carrier frequency from Ministry of Communication.
Proposal submitted on 13-3-2018.

2. Introduction of new guidelines for determination of Land & Corridor compensation in the state of Madhya Pradesh and Maharashtra which has led to the increase in cost of the project. Notices served to LTTC's

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest: Locations: 62 nos. Length: 61144Mtrs.

Forest area affected (ha): 159.126 [KD-MP: 39.437 {11.866 (Barwah Division) + 27.571 (Sendhwa Division)} + KD-MH: 119.689 (Dhule Division)]

Forest proposals submitted on KD-MP: 30 Nov 2016 KD-MH: 03 Dec 2016

Current status: KD-MP: Stage I Recieved (Working Permssion Recieved) Stage II Approval under progress

KD-MH: REC meeting done, Stage I clearance recieved, Stage II Approval under progress

Power line crossing

Total no. of crossings : 9 (EB-MP), 1 (EB-MH), 2 (PG-KNW), 2(BDTCL), 1(KTL) nos.

Proposal submitted : 9 (EB-MP), 1 (EB-MH), 2 (PG-KNW) nos. Date: 29-06-17

(EB-MP), 30-05-17 (EB-MH), 21-02-17 (PG-KNW) , 01-07-17 (BDTCL) ;2Nos.

1Nos. Submission pending(For U/C line KTL)

Approval obtained : 7nos. (EB-MP) Date: 16-10-17, 20-11-17, 26-11-17, 29-11-17, 1no.

(EB-MH) Date: 19-07-17, 2nos. (PG-KNW) Date: 19-08-17, 2nos. (U/C EB-MP) Date: 26-02-18

Railway crossing

Total no. of crossings : 1 no.

Proposal submitted : 1 nos., 07-05-17 (NH3)

Approval obtained : In prinicipal approval received vide letter no. 770 dated 04.08.17

National Highway Crossing

Total no. of crossings : 1 nos.

Proposal submitted : 1 nos., 07-05-17 (NH3)

Approval obtained : In prinicipal approval received vide letter no. 770 dated 04.08.17

River Crossings

Total no. of crossings : 1 no.

Proposal submitted : Not Required 1 no. Date:

Approval obtained: Not Required 1 no. Date:.

PTCC approval

Proposal submitted to Defence on 20-05-17

Proposal submitted to BSNL on 12-05-17

Proposal submitted to Railways on 19-06-17

Current status: **NOC Recieved**

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on 13-07-17 (DA) / NR (CA)

Current Status: NOC received vide letter no. AirHQ/S 17726/4/ATS(ty BM-DCCI) dated 16th Oct'17.(DA).

iii. Establishment of 2x1500MVA, 765/400kV, pooling station at Khandwa

Land Acquired:	97%
Civil work completed:	45%
Equipment supplied:	51%
Equipment erection:	
Scheduled COD	Jul'19
Anticipated COD:	Jul'19

Constraints where Project Authority requires intervention:

1. Agitation from farmers for land acquisition.

iv. 2 No. of 765 kV line bays at Dhule S/S of BDTCL for Khandwa Pool – Dhule 765kV D/C Line

Land Acquired:	100%
Civil work completed:	100%
Equipment supplied:	100%
Equipment erection:	100%
Scheduled COD	Jul'19
Anticipated COD:	15-Oct-2018 (Electrical Inspection Done on 18-Sept-2018)

(23) Transmission project - Transmission system for NER System Strengthening Scheme-II (Part-B) and V (NER-IIB & V)

Background

This scheme has been planned to strengthen the interconnection between the states of Assam and Arunachal Pradesh and strong interconnection between northern and southern part of North Eastern Region and would also facilitate dispersal of power from central sector/private generation projects to various parts of NER.

Scope of transmission project

1. Establishment of 400/132 kV, 7x105MVA single phase (including one spare) S/s at Surajmaninagar

400kV

- ICTs: 400/132 kV, 7x105 MVA single phase (including one spare)
- ICTs: bays: 2 no.
- Line bays: 2 no.
[2 no. for Palatana – Surajmanigagar and 2 no. for Surajmaninagar – PK Bari 400 kV D/C Line]
- Bus reactor bays: 2x125 MVAR
- Bus reactor bays: 2 no.
- Space for future line bays (incl. space for sw. line reactor): 6 no.
- Space for ICT bays: 1 no.

132 kV

- ICTs bays: 2 no.
- Line bays: 2 no.
[2 no. for Surjmaninagar (TSECL) - Surajmaninagar (TBCB) 132 kV Line with high capacity/HTLS (equivalent to single moose)]
- Space for future line bays: 6 no.
- Space for ICT Bays: 1 no.
Space for future 400/132 kV, 315MVA ICT
TSP is free to choose the location of Surajmaninaagar S/s within a radius of 10 km from the Surajmaninagar (TSECL) S/s.

2. Establishment of 400/132 kV, 7x105 MVA Single phase (including one spare) S/s at P.K. Bari.

400 kV

- ICTs 400/132 kV, MVA single (including one spare)
- ICTs bays: 2 no.
- Line bays: 4 no.
[2 no. for Surajmaninagar – P. K. Bari and 2 no. for P. K. Bari – Silchar 400 kV D/C line]
- Bus reactor: 2x125 MVAR
- Bus reactor bays: 2 no.
- Space for future line bays (including space for sw. line reactor): 6 no.
Space of ICT bays: 1 No

132 kV

- ICTs bays; 2 no.
 - Line bays: 2no.
[2 no. for P.K. Bari (TSECL) – P. K. Bari (TBCB) 132kV D/C line with high Capacity/HTLS (equivalent of single moose)]
 - Space for future line bays: 6 no.
 - Space for ICT bays: 1 no.
Space for future 400/132 kV, 315 MVA ICT
3. Surajmaninagar - P. K. Bari 400 kV D/c line (Twin ACSR Moose)
4. AGTPP (NEEPCO) – P.K. Bari (TSECL) 132 kV D/c line with high capacity HTLS conductor (equivalent to single moose ampacity at 85°C)
5. Biswanath Chariyalli (POWERGRID) – Itanagar 132kV D/c (Zebra conductor) line
6. Silchar (POWERGRID) – Misa (POWERGRID) 400kV D/c (Quad) line.
7. LILO of one circuit of Biswanath Chariyalli (POWERGRID) – Itanagar 132kV D/c (Zebra conductor) line at Gohpur (AEGCL)
8. Line Bays:
- 2 no. 132 kV line bays for termination of AGTPP (NEEPCO) – P.K. Bari (TSECL) 132kV D/c line at AGTPP (NEEPCO) Switchyard:
 - 2 no. 132 kV line bays for termination of AGTPP (NEEPCO) – P.K. Bari (TSECL) 132kV D/c line at P.K. Bari (TSECL) S/s:
 - 2 nos. 132kV line bays for termination of Biswanath Chariyalli (POWERGRID) – Itanagar 132kV D/c (Zebra conductor) line at Itanagar S/s (Ar. Pradesh)
 - 2 no. 400 kV line bays at Palatana GBPP switchyard for termination of Palatana - Surajmaninagar 400kV D/c line.

General Details

Special Purpose Vehicle	:	NER II Transmission Limited (SPTL)
Bid Process Coordinator	:	Rural Electrification Corporation
Estimated Cost (Rs. crs)	:	2471.10
Request for Qualification	:	29.12.2015
Request for Proposal	:	18.01.2017
Letter of Intent	:	22.02.2017
Transmission Service Agreement (TSA)	:	27.12.2016
SPV acquisition	:	31.03.2017
Transmission License by CERC	:	20.06.2017
Tariff adoption by CERC	:	12.06.2017
Contract Performance Guarantee	:	27.03.2017
Clearance u/s 164	:	31.08.2018
Execution plan submitted to CEA	:	24.07.2017
Scheduled Date of Completion	:	Nov 2020

Status of progress of transmission project;

1. 2x315 MVA, 400/132 kV S/S at Surajmaninagar

Land Acquired:	20%
Civil work completed:	
Equipment supplied:	
Equipment erection:	
Scheduled COD	Jul'20
Anticipated COD:	Jul'19

Constraints/Approval if any:

- Land has been identified in Mouja/Tehsil - Purba Noagaon, Sub Division – Jirania, District – West Tripura & State – Tripura. Negotiation has been completed and advance has been given to land owners. Approval from Govt of Tripura for exemption from ceiling limit awaited.
- On the request of TSP to sort out the issue of land ceiling, a meeting was held in CEA and it was requested by Departement of Power, Tripura that land should be closer to their s/s to reduce the cost of interconnections. It was advised that matter may be discussed between Power Departement Tripura and TSP for arriving at amicable solution and report submitted to CEA.

2. 2x315 MVA, 400/132 kV S/S at P.K. Bari

• Land Acquired:	83%
• Civil work completed:	
• Equipment supplied:	
• Equipment erection:	
• Scheduled COD	Jul'20
• Anticipated COD:	Jul'19

Constraints/Approval if any:

- Land Acquisition is in progress and land has been identified in Village – Masauli, Tehsil - Kanchanbari, Sub-Division – Kumarghat, District – Unakoti & State – Tripura.
- On the request of TSP to sort out the issue of land ceiling, a meeting was held in CEA and it was requested by Departement of Power, Tripura that land should be closer to their s/s to reduce the cost of interconnections. It was advised that matter may be discussed between Power Departement Tripura and TSP for arriving at amicable solution and report submitted to CEA.

3. Surajmaninagar - P. K. Bari 400 kV D/C line

Length:	154.212 ckm
Locations:	211
Foundation completed:	31 nos
Tower erected:	
Stringing completed:	
Scheduled COD:	Jul'20
• Anticipated COD:	Jul'19

Constraints where Project Authority requires intervention: Nil.

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest:-

Locations	: 79 nos.
Length	: 36.63 Km
Forest area (ha)	: 139.931 ha
Forest proposals submitted on	: Submitted online on 09-Jan-18
Current status	: Forest Proposal at CCF level

Power line crossing

Total no. of crossings	:	4	nos.
Proposal submitted	:	4	nos.
Approval obtained	:	4	nos.

Railway crossing

Total no. of crossings	:	1	nos.
Proposal submitted	:	1	nos.
Approval obtained	:	0	nos.

National Highway Crossing

Total no. of crossings	:	1	nos.
Proposal submitted	:	1	nos.
Approval obtained	:	1	nos.

River Crossings

Total no. of crossings	:	0	nos.
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PTCC approval

Proposal submitted to Defence on – 17-Apr-18

Proposal submitted to BSNL on – 28-Apr-18

Proposal submitted to Railways on - 19-Apr-18

Current status: NOC received from Defence 20 Aug'18. IV calculation is under progress.

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on - Civil Aviation Submitted on 16 July'18, Aviation Defence submitted on 29-Aug'18

Current Status:

4. AGTPP (NEEPCO) – P.K. Bari (TSECL) 132 kV D/c line

Detailed Survey is completed.

Length:	166.85 ckm
Locations:	239 nos.
Foundation completed:	58 nos
Tower erected:	23
Stringing completed:	0
Scheduled COD:	Mar'20
Anticipated COD:	Jul'19

Constraints where Project Authority requires intervention: nil

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest:-

Locations: 20nos.

Length: 6.37km

Forest area affected (ha) : 17.569 ha

Forest proposals submitted on 10-01.18

Current status: REC meeting held on 10 Aug'18, Stage-I awaited

Power line crossing

Total no. of crossings	:	4	nos.
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Proposal submitted	:	4	nos.
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Approval obtained	:	3	nos.
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Railway crossing

Total no. of crossings	:	0	nos.
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Proposal submitted	:	0	nos.
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Approval obtained	:	0	nos.
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National Highway Crossing

Total no. of crossings	:	0	nos.
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Proposal submitted	:	0	nos.
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Approval obtained	:	0	nos.
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River Crossings

Total no. of crossings	:	0	nos.
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PTCC approval

Proposal submitted to Defence on - 17-Apr-18

Proposal submitted to BSNL on - Not yet submitted

Proposal submitted to Railways on - 19-Apr-18

Current status: PTCC clearance received on 22 Sep'18.

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on - Not yet submitted

Current Status:

5. Biswanath Chariyalli (PG) – Itanagar 132kV D/c (Zebra) line

Detailed Survey Completed

Length:	133.64 ckm
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Locations:	204 ckm
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Foundation completed:	32 nos
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Tower erected:	0
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Stringing completed:	0
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Scheduled COD:	Mar'20
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Anticipated COD:	Jul'19
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Constraints where Project Authority requires intervention: nil

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest:-

Locations	:	68nos.
Length	:	21.631km
Forest area affected (ha)	:	48.147
Forest proposals submitted on	:	31.07.2017(online submission date) Revised on 06.03.18
Current status	:	Submitted online. Assam state FDP at MoEF & Arunchal FDP at Nodal level.

Power line crossing

Total no. of crossings	:	2	nos.
Proposal submitted	:	2	nos.
Approval obtained	:	1	nos.

Railway crossing

Total no. of crossings	:	1	nos.
Proposal submitted	:	1	nos.
Approval obtained	:	0	nos.

National Highway Crossing

Total no. of crossings	:	2	nos.
Proposal submitted	:	2	nos.
Approval obtained	:	1	nos.

River Crossings

Total no. of crossings	:	0	nos.
Proposal submitted	:	0	nos.
Approval obtained	:	0	nos.

PTCC approval

Proposal submitted to Defence on - Not yet submitted

Proposal submitted to BSNL on - Not yet submitted

Proposal submitted to Railways on - Not yet submitted

Current status:

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on - Not yet submitted

Current Status:

6. Silchar (PG) – Misa (PG) 400kV D/c (Q) line

Detailed Survey Completed

Length:	349.44 ckm
Locations:	490 ckm
Foundation completed:	145 nos
Tower erected:	30 nos.
Stringing completed:	0 Ckm
Scheduled COD:	Nov'20
Anticipated COD:	Jul'19

Constarints where Project Authority requires intervention: nil

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest:-

Locations	:	62nos.
Length	:	24.24km
Forest area (ha)	:	108.162
Forest proposals submitted on:	4-Aug-17 (online submission date)	
Current status	:	Stage-1 & tree cutting permission received

Power line crossing

Total no. of crossings	:	19	nos.
Proposal submitted	:	16	nos.
Approval obtained	:	5	nos.

Railway crossing

Total no. of crossings	:	4	nos.
Proposal submitted	:	4	nos.
Approval obtained	:	0	nos.

National Highway Crossing

Total no. of crossings	:	4	nos.
Proposal submitted	:	4	nos.
Approval obtained	:	3	nos.

River Crossings

Total no. of crossings	:	0	nos.
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PTCC approval

Proposal submitted to Defence on - Submitted
Proposal submitted to BSNL on - Submitted
Proposal submitted to Railways on - Submitted
Current status: Site inspection pending

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on - Submitted
Current Status: At Vaayu Bhawan for approval.

7. LILO of one circuit of Biswanath Chariyalli (PG)) – Itanagar 132kV D/C (Zebra) line at Gohpur (AEGCL)

Detailed survey Completed.

Length:	17.028 ckm
Locations:	30 nos.
Foundation completed:	0
Tower erected:	0
Stringing completed:	0
Scheduled COD:	Mar'20
Anticipated COD:	Jul'19

Constraints where Project Authority requires intervention:nil

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest:-

Locations : 18 nos.

Length : 5.1km

Forest area (ha) : 23.782

Forest proposals submitted on - 31.07.2017(online submission date)

Current status: Presently at MoEF

Power line crossing

Total no. of crossings : 1 nos.

Proposal submitted : 1 nos.

Approval obtained : 0 nos.

Railway crossing

Total no. of crossings : 1 nos.

Proposal submitted : 1 nos.

Approval obtained : 0 nos.

National Highway Crossing

Total no. of crossings : 0 nos.

Proposal submitted : 0 nos.

Approval obtained : 0 nos.

River Crossings

Total no. of crossings : 0 nos.

PTCC approval

Proposal submitted to Defence on - Not yet submitted

Proposal submitted to BSNL on - Not yet submitted

Proposal submitted to Railways on - Not yet submitted

Current status:

Defence/Civil Aviation Proposal submitted to Defence/Civil Aviation on - Not yet submitted

Current Status:

8. Line bays

- ii. **2 no. 400 kV line bays at Palatana GBPP switchyard for termination of Palatana - Surajmaninagar 400kV D/c line**

Land Acquired: Space will be provided by OTPC

Civil work completed: 0

Equipment supplied: 0

Equipment erection: 0

Scheduled COD Jul'20

Anticipated COD: Jul'19

Constraints/Approval if any:

- b. 2 no. 132 kV line bays for termination of AGTPP (NEEPCO) – P.K. Bari (TSECL) 132kV D/c line at AGTPP (NEEPCO) Switchyard**

Land Acquired:	Space will be provided by NEEPCO
Civil work completed:	21%
Equipment supplied:	45%
Equipment erection:	0
Scheduled COD	Mar'20
Anticipated COD:	Jul'19

Constraints/Approval if any:

c. 2 no. 132 kV line bays for termination of AGTPP (NEEPCO) – P.K. Bari (TSECL) 132kV D/c line at P.K. Bari (TSECL) S/s

Land Acquired:	Space will be provided by TSECL
Civil work completed:	27%
Equipment supplied:	46%
Equipment erection:	0
Scheduled COD	Mar'20
Anticipated COD:	Jul'19

Constraints/Approval if any:

d. 2 nos. 132kV line bays for termination of Biswanath Chariyalli (PG) – Itanagar 132kV D/c (Zebra) line at Itanagar S/s (Ar. Pradesh)

Land Acquired:	Space will be provided by DoP, AP
Civil work completed:	0
Equipment supplied:	45%
Equipment erection:	0
Scheduled COD	Mar'20
Anticipated COD:	Jul'19

Constraints/Approval if any:

(24) Name of transmission project - Additional 400kV Feed to Goa and Additional System for Power Evacuation from Generation Projects pooled at Raigarh (Tamnar) Pool

Background

Scope of transmission project

1. LILO of one ckt. of Narendra (existing) - Narendra (New) 400kV D/c quad line at Xeldem
2. Xeldem - Mapusa 400kV D/c (quad) line
3. Establishment of 2x500MVA, 400/220kV substation at Xeldem
4. Dharamjaygarh Pool section B - Raigarh (Tamnar) Pool 765kV D/c line

General Details

Special Purpose Vehicle	:	Goa-Tamnar Transmission Project Limited
Bid Process Coordinator (BPC)	:	Power Finance Corporation
Estimated Cost (Rs. Crs)	:	863
Levelised Tariff(Rs. Crs)	:	
Request for Qualification	:	01.02.2017
Request for Proposal	:	01.05.2017
Letter of Intent	:	30.11.2017
Transmission Service Agreement (TSA)	:	28.06.2017
SPV acquisition	:	14.03.2018
Transmission License by CERC	:	13.07.2018
Tariff adoption by CERC	:	13.07.2018
Contract Performance Guarantee	:	05.01.2018
Clearance u/s 164	:	Applied – in process
Execution plan submitted to CEA	:	10.07.2018
NIT issued on	:	
EPC contract awarded on	:	
Scheduled Date of Completion	:	Nov'21
Anticipated Date of Completion	:	June'20

Status of progress of transmission project

SPV acquired by SPTL on 14.03.2018.

(25) Name of transmission project - Eastern Region System Strengthening Scheme-VI(ERSS-VI)

Background

Future demand projection given by Bihar indicates a power demand of about 5600 MW by the year 2016-17. Out of this 2100 MW power demand is in northern part and 3500 MW power demand is in southern part of the state. Regarding power availability, Bihar would have additional share of 2500 MW from Central generation project. Northern part of Bihar has only 2 nos. s/s (Purnea and Muzaffarpur) with total capacity of 1260 MVA as against projected demand of 2100 MW during 2016-17. Keeping in view the load growth requirement by 2016-17, this ISTS scheme has been proposed.

Scope of transmission project

1. Muzaffarpur(PG)- Darbhanga 400 kV D/C line with triple snowbird conductor
2. LILO of Barh –Gorakhpur 400 kV 2xD/C line at Motihari.
3. 2x500 MVA, 400/220 kV Darbhanga GIS with space for future extension
4. 2x500 MVA, 400/132 kV Motihari GIS with space for future extension

General Detail

Special Purpose Vehicle (SPV)	:	Darbhanga Motihari Trans. Company Ltd (A subsidiary of Essel Infraprojects Ltd)
Bid Process Coordinator	:	PFCCL
Estimated Cost (Rs. crs)	:	540
Request for Qualification	:	08.02.2013
Request for Proposal	:	27.05.2013
Letter of Intent	:	17.10.2013
Transmission Service Agreement (TSA)	:	06.08.2013
SPV acquisition	:	10.12.2013
Transmission License by CERC	:	30.05.2014
Tariff adoption by CERC	:	20.05.2014
Contract Performance Guarantee	:	05.12.2013
Clearance u/s 164	:	04.09.2014
Execution plan submitted to CEA	:	16.04.2014
NIT issued on	:	
EPC contract awarded on	:	04.03.2014
Scheduled Date of Completion	:	(Darbhanga Element – Jun 16, Motihari- Aug 16)
Anticipated Date of Completion	:	Mar-17/Aug-17
Actual Date of completion	:	August, 2017

Status of progress of transmission project

1. Muzaffarpur (PG) - Darbhanga 400 kV D/c line with triple snowbird conductor

- Length: 125.6 ckm
- Locations: 178

Transmission Line successfully Charged and Presently in Commercial Operation from **Apr 2017**.

2. LILO of Barh –Gorakhpur 400 kV 2xD/c line at Motihari

- Length: 151.558 ckm
- Locations: 210 nos.

Transmission Line successfully Charged and Presently in Commercial Operation from **Aug 2017**.

3. 2x500 MVA, 400/220 kV Darbhanga GIS with space for future extension

GIS Sub-station successfully charged and presently in commercial operation from **Apr 2017**.

4. 2x200 MVA, 400/132 kV Motihari GIS with space for future extension.

400 kV GIS Substation charged and presently in commercial operation from **31st July 2017**.

Transmission Project commissioned on August 2017.

(26) Name of transmission project - Northern Region System Strengthening Scheme(NRSS) - XXXI (Part-B)

Background

A 2x315 MVA 400/220kV substation of PGCIL is existing at Amritsar and connected to Jalandhar through a 400 kV S/C line. To meet growing power demand at Amritsar a 500MVA 400/220 kV ICT is under implementation. To augment supply of power to Amritsar S/s 400kV connectivity to Parbati Pooling station and Makhu (PSTCL substation) is under implementation. However, the power supply to Amritsar area would be mainly through Jalandhar 400kV substation as during winters the generation of hydro projects would reduce to very low level as well as in case of low generation at Talwandi Saboo TPS, Makhu S/s may also draw power from Amritsar. Hence there is a necessity that power supply arrangement to Amritsar S/s is augmented. A HVDC station at Kurukshetra is being established for supply of power from pit head generating station of Chhattisgarh. Accordingly, for augmenting power supply to Amritsar S/s, this transmission scheme has been proposed under NRSS-XXXI – Part-B.

Scope of transmission project

1. Kurukshetra – Malerkotla 400 kV D/C line
2. Malerkotla – Amritsar 400 kV D/C line.

General Details

Special Purpose Vehicle (SPV)	:	NRSS XXXI (B) Transmission Limited. (A subsidiary of Essel Infra projects Ltd.)
Bid Process Coordinator (BPC)	:	RECTPCL
Estimated Cost (Rs. Crs)	:	550
Request for Qualification	:	31.07.2013
Request for Proposal	:	09.12.2013
Letter of Intent	:	26.02.2014
Transmission Service Agreement (TSA)	:	02.01.2014
SPV acquisition	:	12.05.2014
Transmission License by CERC	:	25.08.2014
Tariff adoption by CERC	:	07.08.2014
Contract Performance Guarantee	:	18.03.2014
Clearance u/s 164	:	15.10.2014
Execution plan submitted to CEA	:	01.08.2014
NIT issued on	:	
EPC contract awarded on	:	17.09.2014
Scheduled Date of Completion	:	Sep 2016
Actual Date of Completion	:	April, 2017

Status of progress of transmission project

1. Kurukshetra – Malerkotla 400 kV D/C line

- Length: 278.4 ckm

Under Commercial Operation from **Jan 2017**

2. Malerkotla – Amritsar 400 kV D/C line.

- Length: 151.558 ckm
- Locations: 210 nos.

Under Commercial operation from **Apr 2017**.

Transmission Project commissioned on April 2017.

(27) Name of transmission project - Development of Additional Inter regional AC link for import into Southern region i.e Warora-Warangal and Chilakaluripeta – Hyderabad – Kurnool 765 kV link

Background

To facilitate import of 16000 MW power to Southern region by 2018-19 based on the pessimistic scenario of non-availability / delay in commissioning of some of the generation projects in Southern region, this 765 kV additional transmission link has been proposed in case of contingencies including total outage of an entire inter-regional link and other critical regional lines for reliability.

Scope of transmission project

1. Establishment of 765/400 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.

2. Warora (Pool) – Warangal (New) 765 kV D/C line with 240 MVAR switchable line reactor at both ends
3. Warangal (New) – Hyderabad 765 kV D/C line with 240 MVAR switchable line reactor at Warangal end of each circuit.
4. Warangal (New) – Warangal (existing) 400 kV (quad) D/C line.
5. Hyderabad- Kurnool 765 kV D/C line with 240 MVAR switchable line reactor at Kurnool end of each circuit.
6. Warangal (New) – Chilakaluripeta 765 kV D/C line with 240 MVAR switchable line reactor at both ends of each circuit.
7. 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)

General Detail

Special Purpose Vehicle (SPV)	:	Warora Kurnool Transmission Ltd. (A subsidiary of Essel Infraproj. Ltd)
Bid Process Coordinator (BPC)	:	PFCCL
Estimated Cost (Rs. crs)	:	4805
Request for Qualification	:	11.09.2015
Request for Proposal	:	30.11.2015
Letter of Intent	:	29.02.2016
Transmission Service Agreement (TSA)	:	06.01.2016
SPV acquisition	:	06.07.2016
Transmission License by CERC	:	29.09.2016
Tariff adoption by CERC	:	30.08.2016
Contract Performance Guarantee	:	01.07.2016

Clearance u/s 164	:	Gazette publication on 10.07.2017
Execution plan submitted to CEA	:	02.11.2016
NIT issued on	:	
EPC contract awarded on	:	30.08.2016
Scheduled Date of Completion	:	Nov-2019
Anticipated Date of Completion	:	Nov-2019

Status of progress of transmission project

1. Establishment of 765/400 kV substations at Warangal (New) with 2X1500 MVA transformers and 2X240 MVAR bus reactors.

Land Acquired:	100%.
Civil work completed:	30%
Equipment supplied:	
Equipment erection:	
Scheduled COD:	Nov'19
Anticipated COD:	Nov'19

Constraints/Approval if any:nil

2. Warora (Pool) – Warangal (New) 765 kV D/C line with 240 MVAR switchable line reactor at both ends

Length:	645.742 ckm
Locations:	827 nos.
Foundation completed:	660 nos.
Tower erected:	233 nos.
Stringing completed:	
Scheduled COD:	Nov'19
Anticipated COD:	Nov'19

Constarints where Project Authority requires intervention:

RoW issue: Severe RoW issue in the stretch of AP 5B - AP 6, AP 15 – AP 16, AP 27– AP 28 , AP 58, AP 99A – AP 102, AP 89 – AP 90 and AP 95 – AP 96 .

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest:-

Locations	:	22
Length	:	10.057 Kms
Forest area affected (ha)	:	19.793 ha (2.954 Kms) in Maharastra + 47.592 ha (7.103 Kms) in Telangana
Forest proposals submitted on	:	Maha – 4th Aug 17, Telengana – 23 Aug 17
Current status	:	Maharashtra – Recommendations of DFO- Central Chanda and CF –Chandrapur received and Currently, Proposal under approval of Nodal Officer – Nagpur.

Telangana - Recomendation awaited from DFO Mancherial but DFO (Pedapalli) & DFO Asifabad has already sent their recommendations to CF. Currently Proposal is

under approval of Nodal Officer - Hyderabad.

Wildlife Clearance

Details of Tr. Line Falling under Wildlife:-

Locations	:	01 No.	
Length	:	0.465 Kms	
Forest area affected (ha)	:	3.1142 ha (0.465 Kms) in Telangana	
Forest proposals submitted on	:	Telangana – 26th Feb 18	
Current status	:	Proposal recommended by DFO – Asifabad and CF – Adilabad. Currently proposal under purview of Chief Wildlife Warden –Hyderabad.	

Power line crossing

Total no. of crossings	:	27 nos.	
Proposal submitted	:	27 nos.	Date:
Approval obtained	:	8 nos.	Date:

Railway crossing

Total no. of crossings	:	5 nos.	
Proposal submitted	:	5 nos.	Date:
Approval obtained	:	nos.	Date:

National Highway Crossing

Total no. of crossings	:	06 nos.	
Proposal submitted	:	06 nos.	Date:
Approval obtained	:	nos.	Date:

River Crossings

Total no. of crossings	:	1 no.	(Major)
Proposal submitted	:	nos.	Date:
Approval obtained	:	nos.	Date:

PTCC approval

Proposal submitted to Defence on :
Proposal submitted to BSNL on :
Proposal submitted to Railways on :
Current status:

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on :
Current Status:

3. Warangal (New) – Hyderabad 765 kV D/C line with 240 MVAR switchable line reactor at Warangal end of each circuit.

Length:	265.218 ckm
Locations:	344 nos.
Foundation completed:	255 nos.
Tower erected:	120 nos.
Stringing completed:	
Scheduled COD:	Nov'19
Anticipated COD:	Nov'19

Constraints where Project Authority requires intervention:

RoW issue:

- Severe RoW issue at loc no. 2/6, on which stay order granted by Hon'ble High Court of Telangana.
- Land owner for the stretch between the location no. 30 to 31 of 765 kV D/C Warangal – Hyderabad has approached the District Court (Nalgonda) to accord permanent injunction.
- A FIR is already lodged for the ongoing RoW issue at loc. no. 47/2 and 47/3.
- Severe RoW is also existing in the stretch of AP 10 - AP 11, AP 34 - AP 35, AP 37- AP 38, and AP 41- AP 42.

Status of statutory approvals:**Forest : Nil**

Details of Tr. Line Falling under Forest:- Locations: nos. Length:

Forest area(ha) : Nil

Forest proposals submitted on

Current status:

Power line crossing

Total no. of crossings	:	15 nos.	
Proposal submitted	:	13 nos.	Date:
Approval obtained	:	3 nos.	Date:

Railway crossing

Total no. of crossings	:	01 nos.	
Proposal submitted	:	01 nos.	Date:
Approval obtained	:	nos.	Date:

National Highway Crossing

Total no. of crossings	:	01 nos.	
Proposal submitted	:	01 nos.	Date:
Approval obtained	:	nos.	Date:

River Crossings

Total no. of crossings	:	Nil
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PTCC approval

Proposal submitted to Defence on

Proposal submitted to BSNL on

Proposal submitted to Railways on

Current status:

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on.....

Current Status:

4. Warangal (New) – Warangal (existing) 400 kV (quad) D/C line

- Length: 94.94 ckm
- Locations: 130 nos.
- Foundation completed:
- Tower erected:

- Stringing completed:
- Scheduled COD: Nov'19
- Anticipated COD: Nov'19

Constarints where Project Authority requires intervention:nil

Status of statutory approvals:

Forest - Nil

Details of Tr. Line Falling under Forest:- Locations: nos. Length:

Forest area affected (ha) : Nil

Forest proposals submitted on

Current status:

Power line crossing

Total no. of crossings	:	04 nos.	
Proposal submitted	:	nos.	Date:
Approval obtained	:	nos.	Date:

Railway crossing

Total no. of crossings	:	01 no.	
Proposal submitted	:	nos.	Date:
Approval obtained	:	nos.	Date:

National Highway Crossing

Total no. of crossings	:	01 no.	
Proposal submitted	:	nos.	Date:
Approval obtained	:	nos.	Date:

River Crossings

Total no. of crossings	:	Nil
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PTCC approval

Proposal submitted to Defence on

Proposal submitted to BSNL on

Proposal submitted to Railways on

Current status:

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on.....

Current Status:

5. Hyderabad- Kurnool 765 kV D/C line with 240 MVAR switchable line reactor at Kurnool end of each circuit

Length:	331.58 ckm
Locations:	422 nos.
Foundation completed:	227 nos.
Tower erected:	137 nos.
Stringing completed:	
Scheduled COD:	Nov'19
Anticipated COD:	Nov'19

Constraints where Project Authority requires intervention:

Work hampered due to severe RoW issue in the stretch of AP 27 – AP 29, AP 60A– AP 60B and AP 66 – AP 67.

Status of statutory approvals:

Forest - Nil

Details of Tr. Line Falling under Forest:- Locations: nos. Length:

Forest area affected (ha) : Nil

Forest proposals submitted on

Current status:

Power line crossing

Total no. of crossings	:	21 nos.	
Proposal submitted	:	21 nos.	Date:
Approval obtained	:	04 nos.	Date:

Railway crossing

Total no. of crossings	:	Nil	
Proposal submitted	:	nos.	Date:
Approval obtained	:	nos.	Date:

National Highway Crossing

Total no. of crossings	:	01 nos.	
Proposal submitted	:	01 nos.	Date:
Approval obtained	:	nos.	Date:

River Crossings

Total no. of crossings	:	01 nos.	(Major)
Proposal submitted	:	nos.	Date:
Approval obtained	:	nos.	Date:

PTCC approval

Proposal submitted to Defence on

Proposal submitted to BSNL on

Proposal submitted to Railways on

Current status:

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on.....

Current Status:

6. Warangal (New) – Chilakaluripeta 765 kV D/C line with 240 MVAR switchable line reactor at both ends of each circuit

Length: 394.33 ckm

Locations: 565 nos.

Foundation completed: 363 nos.

Tower erected: 272 nos.

Stringing completed:

Scheduled COD: Nov'19

Anticipated COD: Nov'19

Constarints where Project Authority requires intervention:nil

Severe RoW issue existing in the stretch of AP 10 – AP 11, AP 14- AP 15, AP 25 – AP 28, AP 52- AP 53, AP 55 – AP 56, AP 76 – AP 78, AP 84- AP 85 & AP 89 – AP 90.

Status of statutory approvals:**Forest**

Details of Tr. Line Falling under Forest:-

Locations	:	07nos.	
Length:Forest area affected (ha)	:	18.442 ha (2.75 Kms)	in Andhra pradesh
Forest proposals submitted on	:	23.08.2017	
Current status	:	Proposal recommended by Nodal Officer – Guntur and forwarded to State Government (Andhra Pradesh).	

Power line crossing

Total no. of crossings	:	29 nos.	
Proposal submitted	:	27 nos.	Date:
Approval obtained	:	07 nos.	Date:

Railway crossing

Total no. of crossings	:	03 nos.	
Proposal submitted	:	02 nos.	Date:
Approval obtained	:	nos.	Date:

National Highway Crossing

Total no. of crossings	:	03 no.	
Proposal submitted	:	02 nos.	Date:
Approval obtained	:	nos.	Date:

River Crossings

Total no. of crossings	:	01 no.	(Major)
Proposal submitted	:	nos.	Date:
Approval obtained	:	nos.	Date:

PTCC approval

Proposal submitted to Defence on	:	
Proposal submitted to BSNL on	:	
Proposal submitted to Railways on	:	
Current status:		

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on	:	
Current Status:		

7. 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)

- Land Acquired: NA
- Civil work completed: 90%.
- Equipment supplied: 70%
- Equipment erection: 10%
- Scheduled COD: Nov'18
- Anticipated COD: Nov'18

Constarints where Project Authority requires intervention:nil.

(28) Name of transmission project - System strengthening in northern region (NRSS XXXVI) along with LILO of Sikar-Neemrana 400 kV D/C line at Babai (RRVPNL)

Background

400 kV AC link between Rishikesh and Koteshwar shall improve reliability. It shall improve the power supply to Uttarakhand and also obviate the power transfer constraint on 400 kV Roorkee -Muzaffarnagar line during low hydro generation condition. This link would provide additional outlet from Tehri/ Koteshwar generation complex and independent feed for providing reliable and quality power supply to Rishikesh area.

Babai 400/220 kV substation of RRVPNL is under construction and the substation is associated with power evacuation system of Suratgarh Super Critical TPS (2x660MW) and shall be connected to Suratgarh through 400kV D/c line. The 400 kV Sikar - Neemrana D/C line is crossing Babai S/s at a distance of approx. 1 Km. The proposal of LILO of one ckt of Sikar-Neemrana 400kV line at Babai would be helpful for enhancing the reliability of power supply. The proposed LILO would increase the flexibility in this area.

Scope of Transmission project

1. Koteshwar Pooling Station - Rishikesh 400kV D/C (HTLS) line – 83.152 ckm.
2. 2 Nos. of bays at 400 kV Rishikesh S/S
3. LILO of one ckt of 400 kV D/c Sikar (PG)-Neemrana (PG) line at Babai- 2.922 ckm.
4. Babai (RRVPNL) – Bhiwani (PG) D/C line – 248.61 ckm.
5. 4 Nos. of bays at 400 kV Babai (RRVPNL) substation

General Details

Special Purpose Vehicle (SPV)	:	NRSS XXXVI Trans.Ltd (ESSEL)
Bid Process Coordinator (BPC)	:	RECTPCL
Estimated Cost (Rs. Crs.)	:	437
Request for Qualification	:	25.08.2015
Request for Proposal	:	12.11.2015
Date of Letter of Intent	:	29.03.2016
Transmission Service Agreement (TSA)	:	13.01.2016
SPV acquisition	:	22.08.2016
Transmission License by CERC	:	07.12.2016
Tariff adoption by CERC	:	14.12.2016
Contract Performance Guarantee	:	11.08.2016
Clearance u/s 164	:	01.11.2017
Execution plan submitted to CEA	:	20.12.2016
NIT issued on		
EPC awarded on	:	20.01.2017
Scheduled Date of Completion	:	June 2019/Dec 2019
Anticipated Date of Completion	:	

Status of progress of transmission project

1. Koteswar Pooling Station - Rishikesh 400kV D/C (HTLS) line

The route alignment & detailed survey is completed.

Tower Package is awarded. Check survey is under progress.

Length: 81 CKm
Locations: 106 nos
Foundation completed: 02 nos
Tower erected:
Stringing completed:
Scheduled COD: Dec'19
Anticipated COD:

Constarints where Project Authority requires intervention:

Consent from Indian Drug and Pharmaceuticals Ltd. (IDPL) , Rishikesh for traversing 400 kV D/C Koteswar-Rishikesh line through IDPL premises is awaited.

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest:- Locations: nos. Length: 22.2 Km.

Forest area affected (ha) : 96.60 ha

Forest proposals submitted on 24th Oct 2017.

Current status: NOC from IDPL is awaited for the submission of hard copies of Forest Diversion Proposal.

Power line crossing

Total no. of crossings	:	08 nos.	
Proposal submitted	:	nos.	Date:
Approval obtained	:	nos.	Date:

Railway crossing

Total no. of crossings	:	01 no.	
Proposal submitted	:	nos.	Date:
Approval obtained	:	nos.	Date:

National Highway Crossing

Total no. of crossings	:	05 nos.	
Proposal submitted	:	nos.	Date:
Approval obtained	:	nos.	Date:

River Crossings

Total no. of crossings	:	01 no.	(Minor)
Proposal submitted	:	nos.	Date:
Approval obtained	:	nos.	Date:

PTCC approval

Proposal submitted to Defence on :
Proposal submitted to BSNL on :
Proposal submitted to Railways on :
Current status:

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on :
Current Status:

2. 2 Nos. 400 kV bays at Rishikesh S/S

Land Acquired:
Civil work completed:
Equipment supplied:
Equipment erection:
Scheduled COD Dec'19
Anticipated COD:

Constarints where Project Authority requires intervention:nil.

**3. LILO of one ckt of 400 kV D/c Sikar (PG) – Neemrana (PG) line at Babai
Deemed COD done on 30 Oct 2017.**

Length: 2.922 CKm
Locations: 06 nos.

Deemed COD of the Element is declared on 30th Oct 2017 due to non-readiness of RVPN System. Element charged on 16 Feb 2018 after readiness of RVPN System.

4. Babai (RRVNL) – Bhiwani (PG) D/C line

The route alignment & detailed survey is completed.
Tower Package is awarded.

Length: 221 CKm
Locations: 299 nos.
Foundation completed: 231 nos.
Tower erected: 68 nos
Stringing completed:
Scheduled COD: Jun'19
Anticipated COD: Jun'19

Constarints where Project Authority requires intervention:

Status of statutory approvals:**Forest**

Details of Tr. Line Falling under Forest:- 3.37 Km
Locations: 07 nos. (Rajsthan)
Length:

Forest area(ha) : 12.90 Ha (2.80 Kms) Rajsthan + 3.46 Ha (0.57 Kms) Haryana
Forest proposals submitted on : 15-05-2017 for Haryana and on 11.08.2017 for Rajasthan.

Current status: Haryana Proposal- Stage I approval received on 27 Mar 2018.
Rajashthan Proosal - Stage I approval received on 6th Jul 2018.

Wildlife Clearance

Details of Tr. Line Falling under Wildlife :-

Locations:

Length:

Wildlife area(ha) : 7.452 Ha (2.80 Kms) Khetri Bansyal Conversion Reserve

Wildlife proposals submitted on : 16-02-2018

Current status: Proposal recommended by Chief Minister, Rajasthan to NBWL
(Central Govt. MoEF & CC New Delhi).

Power line crossing

Total no. of crossings	:	20 nos.	
Proposal submitted	:	20 nos.	Date:
Approval obtained	:	09 nos.	Date:

Railway crossing

Total no. of crossings	:	01 no.	
Proposal submitted	:	01 nos.	Date:
Approval obtained	:	nos.	Date:

National Highway Crossing

Total no. of crossings	:	01 nos.	
Proposal submitted	:	01 nos.	Date:
Approval obtained	:	01 nos.	Date:

River Crossings

Total no. of crossings	:	Nil
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PTCC approval

Proposal submitted to Defence on

Proposal submitted to BSNL on

Proposal submitted to Railways on

Current status:

Defence/Civil Aviation

Proposal submitted : 13.03.2018

Current Status : Civil Aviation approval received on 31.05.18

Approval from Defence received on 06.06.18

5. 2 Nos. 400 kV bays at Babai (RRVPNL) substation for LILO Line

Deemed COD of the Element is declared on 30th Oct 2017 due to non-readiness of RVPN System. Element charged on 16 Feb 2018 after readiness of RVPN System.

6. 2 Nos. 400 kV bays at Babai (RRVPNL) substation for Bhiwani Line

Land Acquired: 100%

Civil work completed: 100%

Equipment supplied: 80%

Equipment erection:

Scheduled COD Jun'19

Anticipated COD:

Constraints/Approval if any:nil.

(29) Name of Transmission Project - Additional system strengthening for Sipat STPS

Background

To enhance redundancy in Sipat STPS power evacuation system, this transmission scheme has been evolved.

Scope of transmission project

1. Sipat – Bilaspur Pooling Station 765 kV 3rd S/C line
2. Bilaspur Pooling Station - Rajanandgaon 765 kV D/C line

General Detail

Special Purpose Vehicle (SPV)	:	Sipat Transmission Ltd (A subsidiary of Adani transmission Limited)
Bid Process Coordinator (BPC)	:	Power Finance Corporation
Estimated Cost (Rs. crs)	:	867
Request for Qualification	:	01.01.2015
Request for Proposal	:	07.04.2015
Letter of Intent	:	28.07.2015
Transmission Service Agreement (TSA)	:	24.06.2015
SPV acquisition	:	23.11.2015
Transmission License by CERC	:	07.03.2016
Tariff adoption by CERC	:	28.01.2016
Contract Performance Guarantee	:	30.10.2015
Clearance u/s 164	:	03.08.2016
Execution plan submitted to CEA	:	21.03.2016
NIT issued on	:	
EPC contract awarded on	:	
Scheduled Date of Completion	:	22.03.2019
Anticipated Date of Completion	:	

Status of progress of transmission project

1. Sipat STPS - Bilaspur 765 kV S/C (Q) line

Length: 24.22 ckm

Locations: 73 nos

Transmission line commissioned in Aug'18.

2. Bilaspur - Rajnandgaon 765 kV D/C (hexa) line

Length: 324.07 ckm

Locations: 428 nos

Foundation completed: 428 nos

Tower erected: 428 nos

Stringing completed: 324.07 ckm

Schedule completion: 22.03.2019

Anticipated completion: Mar'18 (works completed)

Constraints where Project Authority requires intervention:

- a) Completion of interconnection facility of bays at Bilaspur being constructed by PGCIL to be matched.

3. 765 kV Bay at Sipat s/s

Commissioned

Aug'18

Connection agreement signed on 28.06.2018. Project is ready for commissioning.

(30) Name of transmission project - Additional system strengthening for Chhattisgarh (B)

Background

The transmission corridor covered under present project has been evolved to provide reliable evacuation of power from various IPPs coming up in Chhattisgarh.

Scope of transmission project

1. Raipur(pool) – Rajnandgaon 765 kV D/C line
2. Rajnandgaon – Pooling station near warora 765 kV D/C line
3. Establishment of pooling station near Rajnandgaon

765 kV

- Line bays 6 nos
- Bus reactor 3x110 MVar
- Bus reactor bay 1 no.
- Line reactors 7x110 MVar(1 unit spare, switchable for warora line)
- Space for 765kV line bays 4 nos
- Space for 765 kV ICT bays 3 nos

400 kV

- Space for 400 kV ICT bays 3 nos
- Space for 400 kV line bays 4 nos

General Details

Special Purpose Vehicle(SPV)	:	Raipur- Rajnandgaon Warora Trans. Ltd (A subsidiary of Adani transmission Limited)
Bid Process Coordinator(BPC)	:	Power Finance Corporation
Estimated Cost (Rs. Crs)	:	823 Crs
Request for Qualification	:	01.01.2015
Request for Proposal	:	13.04.2015
Letter of Intent	:	28.07.2015
Transmission Service Agreement(TSA)	:	24.06.2015
SPV acquisition	:	23.11.2015
Transmission License by CERC	:	29.02.2016
Tariff adoption by CERC	:	29.01.2016
Contract Performance Guarantee	:	30.10.2015
Clearance u/s 164	:	15.06.2016
Execution plan submitted to CEA	:	21.03.2016
NIT issued on	:	
EPC contract awarded on	:	
Scheduled Date of Completion	:	22.11.2018
Anticipated Date of Completion	:	Nov'18

Status of progress of transmission project

1. Raipur - Rajnandgaon 765 kV D/C (hexa) line

- Length: 79.56 ckm
- Locations: 104 nos
- Foundation completed: 104 nos
- Tower erected: 104 nos

- Stringing completed: 79.56 cKm
- Schedule completion: 22.11.2018
- Actual completion: May'2017 (works completed)

Constraints where Project Authority requires intervention:

Status of statutory approvals:

Forest

NIL

Details of Tr. Line Falling under Forest:-

Locations:

nos.

Length:

Forest area affected (ha) :

Forest proposals submitted on

Current status:

Power line crossing

Total no. of crossings	:	2	nos.
Proposal submitted	:	2	nos.
Approval obtained	:	2	nos.

Railway crossing

Total no. of crossings	:	Nil
Proposal submitted	:	Nil
Approval obtained	:	Nil

National Highway Crossing

Total no. of crossings	:	Nil
Proposal submitted	:	Nil
Approval obtained	:	Nil

River Crossings

Total no. of crossings	:	Nil
Proposal submitted	:	Nil
Approval obtained	:	Nil

PTCC approval

Proposal submitted to BSNL in	Sept'2016
Proposal submitted to Railways in	Sept'2016
Current status:	approval received on 09.01.2018

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation in Jul'16	
Current Status:	approval received

2. Rajnandgaon - Warora 765 kV D/C (hexa) line

Length:	532 ckm
Locations:	688 nos
Foundation completed:	556 nos
Tower erected:	522 nos
Stringing completed:	216.7 cKm

Schedule completion: 22.11.2018

Anticipated completion Nov'18

Constraints where Project Authority requires intervention:

- a) Severe ROW issues are being faced in Maharashtra.
- b) Forest/Wildlife clearance issue: Force Majeure notice submitted to LTTC's on 31.01.2018 on account of Delay in Forest approval (MH portion). Stage I approval received on 26.03.2018, however, working permission and Stage II approval still awaited continuing Force Majeure. As per TSA provisions, LTTC's were once again requested on 12.06.2018 to assist in obtaining forest approval.
- c) Completion of interconnected upstream / downstream facilities being constructed by Essel Infra under Warangal project to be matched with completion of line.
- d) PTCC approval awaited.

Status of statutory approvals:

Forest

Chattisgarh Portion

Details of Tr. Line Falling under Forest:- Locations: 2 nos. Length: 2 Km

Forest area affected (ha) : 10

Forest proposals submitted on 15.04.2016

Current status: Stage I approval received on 07.07.2017. Stage II approval received on 02.06.2018.

Maharashtra Portion

Details of Tr. Line Falling under Forest:- Locations: 110 nos. Length: 48 Km

Forest area affected (ha) : 294.3352

Forest proposals submitted on 15.04.2016

Current status: Stage I approval received on 26.03.2018. Working permission & Stage II approval awaited.

Power line crossing

Total no. of crossings : 11 nos.

Proposal submitted : 11 nos.

Approval obtained : 11 nos.

Railway crossing

Total no. of crossings : 4 nos.

Proposal submitted : 4 nos.

Approval obtained : 4 nos.

National Highway Crossing

Total no. of crossings : 1 no.

Proposal submitted : 1 no.

Approval obtained : 1 no.

River Crossings

Total no. of crossings : Nil

PTCC approval

Proposal submitted to BSNL in Sep'2016
Proposal submitted to Railways in Sep'2016
Current status: Proposal is under process at CEA for IV calculation

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation in Sep'2016
Current Status: approval received

3. 765 kV Rajnandgaon switching station

- Land acquired: 100%
- Equipment supplied 100%
- Construction 100%
- Schedule COD 22.11.2018
- Actual completion Nov'17 (works completed)

Constraints if any:Nil

(31) Name of transmission project - System strengthening for IPPs in Chhattisgarh and other generation projects in western region

Background

The immediate evacuation of Vindhyachal STPP- IV & V consists of Vindhyachal-IV - Vindhyachal Pool station 400 kV D/C (Quad) line. NTPC requested to provide additional outlet from Vindhyachal-IV generation project in order to increase the reliability of power evacuation system for Vindhyachal STPP-IV & V project. With 765 kV and 400 kV interconnection there would be more flexibility in operation as well as utilization of the 765/400 kV transformation capacity.

Scope of transmission project

1. 400 kV interconnection at Gwalior 765/400 kV s/s
 - (i) Gwalior-Morena 400 kV D/C (Q) line
 - (ii) 2x315 MVA, 400/220 kV substation at Morena
2. Additional evacuation line from Vindhyachal-IV & V STPP (3x500 MW)
 - (i) Vindhyachal STPS - IV & V – Vindhyachal pool 400 kV D/C (Q) line
 - (ii) 400 kV bays (2 nos.) at Vindhyachal STPP switchyard
3. Additional system strengthening scheme for Chhattisgarh IPP's (Part-A)
 - (i) Sasan UMPP – Vindhyachal Pooling Station 765 kV S/C (Q) line
 - (ii) Raigarh (Kotra) – Champa (Pool) 765 kV S/C (Q) line
 - (iii) Champa (Pool) – Dharamjaygarh 765 kV S/C (Q) line
 - (iv) LILO of one ckt of Aurangabad – Padghe 765 kV D/C (hexa) line at Pune
 - (v) 765 kV bays at Sasan UMPP

General Detail

Special Purpose Vehicle (SPV)	:	Chhattisgarh-WR Transmission Ltd (A subsidiary of Adani Transmission Limited)
Bid Process Coordinator (BPC)	:	Power Finance Corporation
Estimated Cost (Rs. crs)	:	823
Request for Qualification	:	29.12.2014
Request for Proposal	:	13.04.2015
Letter of Intent	:	28.07.2015
Transmission Service Agreement(TSA)	:	24.06.2015
SPV acquisition	:	23.11.2015
Transmission License by CERC	:	29.02.2016
Tariff adoption by CERC	:	28.01.2016
Contract Performance Guarantee	:	30.10.2015
Clearance u/s 164	:	25.10.2016
Execution plan to CEA	:	21.03.2016
NIT issued on	:	
EPC contract awarded on	:	
Scheduled Date of Completion	:	22.03.2019
Anticipated Date of Completion	:	Dec'18

Status of progress of transmission project

1. 400 kV interconnection at Gwalior 765/400 kV s/s

(i) Gwalior - Morena 400 kV D/C (Q) line

Length: 95.6 ckm
Locations: 145 nos

Transmission line commissioned in **May'18**.

(ii) 2x315 MVA, 400/220 kV Morena substation

Substation commissioned in **May'18**.

2. Additional evacuation line from Vindhyachal-IV & V STPP (3x500 MW)

(i) Vindhyachal STPS - IV & V – Vindhyachal pool 400 kV D/C (Q) line

Length: 54.62 ckm
Locations: 87 nos

Line commissioned in **Mar'18**.

(ii) 400 kV bays (2 nos.) at Vindhyachal STPP switchyard

Commissioned in **Mar'18**.

3. Additional system strengthening scheme for Chhattisgarh IPP's (Part-A)

(i) Sasan UMPP – Vindhyachal Pooling Station 765 kV S/C (Q) line

Length: 5.892 ckm
Locations: 22 nos

Line commissioned in **Apr'18**.

(ii) Raigarh (Kotra) – Champa (Pool) 765 kV S/C (Q) line

Length: 97 ckm
Locations: 261 nos

Line commissioned in **Aug'18**.

(iii) Champa (Pool) – Dharamjaygarh 765 kV S/C (Q) line

- Length: 51.1 ckm
- Locations: 150 nos

Commissioned **Jul'18**.

(iv) LILO of one ckt of Aurangabad – Padghe 765 kV D/C (hexa) line at Pune

- Length: 130 ckm
- Locations: 179 nos
- Foundation completed: 160 nos
- Tower erected: 153 nos
- Stringing completed: 90.7 ckm
- Schedule completion: 22.03.2019
- Anticipated completion: Dec'18

Constraints where Project Authority requires intervention:

a) Severe ROW issues are being faced.

Status of statutory approvals:**Forest****Nil**

Details of Tr. Line Falling under Forest:- Locations: nos. Length:

Forest area affected (ha) :

Forest proposals submitted on

Current status:

Power line crossing

Total no. of crossings : 7 nos.

Proposal submitted : 7 nos.

Approval obtained : 7 nos.

Railway crossing

Total no. of crossings : Nil

Proposal submitted : Nil

Approval obtained : Nil

National Highway Crossing

Total no. of crossings : 1 no.

Proposal submitted : 1 no.

Approval obtained : 1 no.

River Crossings

Total no. of crossings : Nil

Proposal submitted : Nil

Approval obtained : Nil

PTCC approval

Proposal submitted to BSNL in Oct'2016

Proposal submitted to Railways in Oct'2016

Current status: approval received on 29.11.2017

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation in Oct'2016

Current Status: approval awaited

(v) 765 kV bays at Sasan UMPP

Bays Commissioned in Apr'18.

(32) Name of transmission project - Immediate evacuation for North Karanpura(3x660MW) generation project of NTPC(ERSS-XIX)

Background

NTPC Ltd. has planned to establish a 1980MW (3x660MW) thermal power project at North Karanpura in the state of Jharkhand. Accordingly, Immediate evacuation system for the same was finalized with following transmission system: (i) North Karanpura – Gaya 400kV D/c (Quad) (ii) North Karanpura – Jharkhand Pool (Chandwa) 400kV D/c (Quad) Further, under the 24x7 power for all scheme, Jharkhand has projected a requirement of about 1000MW in Dhanbad region. In view of the same it is proposed to establishment 400/220kV, 2x500 MVA sub-station at Dhanbad along with LILO of both circuits of Ranchi – Maithon-RB 400kV D/c line at Dhanbad. The same was agreed to be implemented as ISTS scheme to be built under TBCB. For drawl of power from Dhanbad, JUSNL would construct 2 no. 220kV D/c lines, one each to Govindpur and Jainamore 220 kV sub-stations.

Scope of transmission project:

1. North Karanpura – Gaya 400kV D/c line with quad moose conductor.
 2. North Karanpura – Chandwa (Jharkhand) Pooling Station 400kV D/c line with quad moose conductor.
 3. LILO of both circuits of Ranchi – Maithon-RB 400kV D/c line at Dhanbad
 4. Creation of 400/220 kV sub-station at Dhanbad(ERSS-XIX)
- (i) Establishment of 400/220 kV, 2x500 MVA sub-station at Dhanbad

400 kV

- ICTs: 400/220 kV, 2x500 MVA
- ICTs bays: 2 no.
- Line bays: 4 no.
- 400 kV bus reactor bays: 2 no.
- Bus reactor: 2x125 MVAR
- Space for future bays: 4 no
- Space for future 400/220 kV, 500 MVA ICT along with associated bay

220 kV

- ICTs bays: 2 no.
- Line bays: 4 no.
- Space for future bays: 4 no.

General Details:

Special Purpose Vehicle (SPV)	: North Karanpura Transco Ltd. (A subsidiary of M/s Adani Transmission Limited)
Bid Process Coordinator (BPC)	: RECTPCL
Estimated Cost (Rs. crs)	: 472 crore
Request for Qualification	: 30.11.2015
Request for Proposal	: 03.02.2016
Letter of Intent	: 24.05.2016
Transmission Service Agreement (TSA)	: 06.07.2016
SPV acquisition	: 08.07.2016
Transmission License by CERC	: 29.09.2016
Tariff adoption by CERC	: 06.09.2016
Contract Performance Guarantee	: 03.06.2016

Clearance u/s 164	:	submission delayed since NOC is awaited from Central Coalfield Ltd. (CCL) / Ministry of Coal (MoC) on the routes from North Karanpura – Chandwa and North Karanpura-Gaya. Newspaper publication completed on 15.10.2016. Re-publication completed on 30.10.2017.
Execution plan submitted to CEA	:	03.11.2016
NIT issued on	:	
EPC contract awarded on	:	
Scheduled Date of Completion	:	30.09.2019
Anticipated Date of Completion	:	Termination notice issued to LTTTCs on 13.04.2018

- TSA terminated on 13.04.2018 under Force Majeure clause due to non grant of NoC by CCL/MOC for construction of the lines over coal bearing area and LTTTCs are requested to return the CPBG. Further, in accordance with the provision of the TSA, NKTL has approached CERC for further course of action.

(33)Name of transmission project- Transmission System for Ultra Mega Solar Park in Fatehgarh, Distt. Jaisalmer Rajasthan

Background

Government of India has taken an initiative for development of Solar Power Parks in various parts of the country. As part of above initiative, Solar Power parks are being developed by various developers near Bhadla & Jaisalmer in Rajasthan.

MNRE has authorised M/s. Adani Renewable Energy Park Rajasthan Ltd. (AREPRL) (JVC of Govt. of Rajasthan and AREPL) as solar park developer for 1500 MW capacity at Fatehgarh, Distt. Jaisalmer, Rajasthan. Out of above generation capacity, M/s. AREPRL has applied for Connectivity & Long Term Access in ISTS for 1000 MW.

To evacuate power from the Fatehgarh UMSP (1000 MW), it was finalized to establish 400 KV Pooling Station at Fatehgarh along with 765 KV Fatehgarh Pool – Bhadla (PG) D/C line (to be operated at 400 KV). Also, in order to address reactive power management aspect including during low / no solar generation periods, 1x125 MVAR bus reactor (at 400 KV bus) at Fatehgarh Pooling Station is finalized.

Scope of transmission project

1. Establishment of 400 KV pooling station at Fatehgarh
2. 765 kV Fatehgarh Pooling sub-station - Bhadla (PG) D/C line (to be operated at 400 kV).
3. 2 nos of 400 kV line bays at Fatehgarh Pooling substation
4. 1x125 MVAR Bus reactor at 400kV Fatehgarh Pooling sub-station along with associated bay
5. Space for future 220 kV (12 Nos.) line bays.
6. Space for future 400 kV (8 Nos.) line bays along with line reactors at Fatehgarh Pooling station.
7. Space for future 220/400 kV transformers (5 nos.) along with associated transformer bays at each level.
8. Space for future 400 KV bus reactors (2 nos.) along with associated bays.

General Details

Special Purpose Vehicle	:	Fatehgarh-Bhadla Transmission Limited
Bid Process Coordinator (BPC)	:	Power Finance Corporation
Estimated Cost (Rs. Crs)	:	536
Request for Qualification	:	30.12.2016
Request for Proposal	:	30.04.2017
Letter of Intent	:	21.02.2018
Transmission Service Agreement (TSA)	:	10.01.2018
SPV acquisition	:	14.03.2018
Transmission License by CERC	:	27.08.2018
Tariff adoption by CERC	:	27.08.2018
Contract Performance Guarantee	:	12.03.2018

Clearance u/s 164	:	application submitted to CEA on 30.07.2018. under process
Execution plan submitted to CEA	:	09.07.2018
NIT issued on	:	
EPC contract awarded on	:	
Scheduled Date of Completion	:	30.09.2019
Anticipated Date of Completion	:	Sep'19

Status of progress of transmission project:

(i) 765 kV Fatehgarh Pooling sub-station - Bhadla (PG) D/C line (to be operated at 400 kV)

Length:	208 ckm
Locations:	262 nos
Foundation completed:	
Tower erected:	
Stringing completed:	
Schedule completion	30.09.2019

(ii) Establishment of 400 KV Pooling Station At Fategarh

Land acquired:	As per TSA, to be provided by Beneficiary. Yet to be handed over by Beneficiary to FBTL.
Equipment supplied:	
Constrcution:	
Schedule completion:	30.09.2019

(iii) 2 nos of 400 kV line bays at Fatehgarh Pooling substation

Schedule completion:	30.09.2019
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(iv) 1x125 MVAR Bus reactor at 400kV Fatehgarh Pooling sub-station along with associated bay

Schedule completion:	30.09.2019
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(34) Name of transmission project - Transmission System required for evacuation of power from Kudgi TPS (3x800 MW) Phase-I of NTPC

Background

NTPC Limited is establishing coal based Kudgi STPP (3x800 MW) generation project at village Kudgi, Bijapur District in the State of Karnataka. NTPC Limited has been granted LTA for 2392.49 MW as per the LTA application and details of drawl of power is given as under:

Karnataka Discoms	1196.24 MW	KSEB	119.18 MW
TANGEDCO	300.10 MW	AP Discoms	418.10 MW

Transmission scheme is planned for the evacuation and supply of power from the Kudgi TPS to the beneficiaries of the generation project. This transmission scheme shall facilitate immediate evacuation as well as supply of power to its beneficiaries with reliability and security. Beyond Madhugiri & Bidadi dispersal of power to the beneficiaries of the generation project shall be through existing/planned transmission network under Inter-State Transmission System.

Scope of transmission project

1. Kudgi TPS - Narendra (New) 400 kV 2 x D/C Quad lines
2. Narendra (New) - Madhugiri 765 kV D/C line (initially operated at 400 kV level)
3. Madhugiri - Bidadi 400 kV D/C (quad) line

General Details

Special Purpose Vehicle (SPV)	:	Kudgi Transmission Ltd. (L&T Infra)
Bid Process Coordinator (BPC)	:	Rural Electrification Corporation
Estimated Cost (Rs. crs)	:	1240
Request for Qualification	:	
Request for Proposal	:	12.03.2013
Letter of Intent	:	31.07.2013
Transmission Service Agreement (TSA)	:	14.05.2013
SPV acquisition	:	30.08.2013
Transmission License by CERC	:	07.01.2014
Tariff adoption by CERC	:	08.01.2014
Contract Performance Guarantee	:	22.08.2013
Clearance u/s 164	:	24.04.2014
Execution plan submitted to CEA	:	Submitted
NIT issued on	:	
EPC contract awarded on	:	21.02.2014
Scheduled Date of Completion	:	28.2.2015/29.12.2015
Actual Date of completion	:	September, 2016

Status of progress of transmission project

1. Kudgi TPS – Narendra 400 kV 2xD/C line (I&II) - Line 1&2 completed on 27.03.2015 and commissioned in Nov-15 & Jun-16 respectively
2. Narendra (New) – Madhugiri 765 kV D/C line (758 ckm) - Line Commissioned on 23.09.2016 at 400kV
3. Madhugiri (Tumkur) – Bidadi 400 kV D/C line (186 ckm) - Commissioned on 24.8.16

Transmission Project Commissioned on Sep-16.

(35) Name of transmission project - Transmission System for Patran 400kV S/S

Background

Patiala and Sangrur district of Punjab has a lot of agriculture load. A partial Grid Disturbance had taken place on 20th July 2011 and analysis of Grid disturbance had also indicated the requirement of a 400/220 kV Substation in this area. In the vicinity there are 5 nos of 220 kV grid stations, namely Mansa, Rajla, Sangrur, Sunam & Patran, having total transformation capacity of about 1180 MVA. In addition, 3 nos of 220 kV new substations are also coming up in the area, at Pasiana, Bangan & Kakarla. Accordingly, to meet the growing load a 400/220 kV substation at Patran has been proposed. The 400/220 kV S/s at Patran would be connected to the grid by LILO of Patial-Kaithal 400 kV D/C. To avoid unbalanced loading, LILO of both circuits is proposed. From these substations, 220 kV lines can be drawn to new Patran, Mansa, Pasiana etc. S/s. Looking into load growth potential it is expected that 800-900 MW load would be there in the vicinity. In view of the above 2x500 MVA transformers have been proposed. Considering the fact that the location of the substation is in a very fertile area of the Punjab where the acquisition of land is going to be a challenging task. Accordingly, it is proposed to develop this substation as Gas Insulated substation.

Scope of transmission project

1. LILO of both circuits of Patiala-Kaithal 400kV D/C line at Patran (Triple snow Bird)
2. 2x500 MVA, 400/220 kV substation at Patran

400 kV

- Line bays 4 nos
- Transformer bays 2 nos
- Space provision for 6 bays

220 kV

- Line bays 6 nos
- Transformer bays 2 nos
- Space provision for 6 bays

General Details

Special Purpose Vehicle(SPV)	:	Patran Transmission Company Ltd. (A subsidiary of Techno Electric and Engineering Company Ltd)
Bid Process Coordinator(BPC)	:	Power Finance Corporation
Estimated Cost (Rs. crs)	:	200
Request for Qualification	:	11.03.2013
Request for Proposal	:	10.09.2013
Letter of Intent	:	17.09.2013
Transmission Service Agreement(TSA)	:	12.05.2014
SPV acquisition	:	13.11.2013
Transmission License by CERC	:	14.07.2014
Tariff adoption by CERC	:	05.08.2014
Contract Performance Guarantee	:	04.09.2013
Clearance u/s 164	:	29.02.2016
Execution plan submitted to CEA	:	05.08.2014

NIT issued on	:	No NIT issued by PTCL
EPC contract awarded on	:	01.02.2014
Scheduled Date of Completion	:	11.11.2016
Actual Date of Commissioning	:	17.06.2016
Trial run completed (monitored by POSOCO)	:	18.06.2016
Actual COD	:	21.06.2016

Status of progress of transmission project;

1. LILO of both circuits of Patiala-Kaithal 400kV D/C at Patran (Triple snow Bird Conductor)

Length:	200 meter
Locations:	2

Line Completed on Jun-16

2. 2x500 MVA, 400/220 kV Patran substation

Transmission project completed in June 2016 and commissioned in May 2017. 220 KV downstream transmission lines from Patran S/S competed and commissioned by PSTCL in May 2017.

Transmission Project Commissioned on May 2017.

(36) Name of transmission project - Transmission System Associated with Krishnapattnam UMPP- Synchronous interconnection between SR and WR (Part-B)

Background

For evacuation of power from Krishnapattnam UMPP (4000 MW) and export of power from various IPPs coming up in SR to their target beneficiaries in WR and NR, synchronous integration of the Southern Region with the rest of Indian grid had been planned through two number of 765 KV S/C lines between Sholapur and Raichur. With this interconnection a synchronously connected all India Grid would come into existence. Out of the two 765 KV Raichur- Sholapur lines planned, the Raichur- Sholapur 765 KV line-1 is covered under the scheme "Synchronous interconnection between Southern Region and Western Region" which is to be implemented through tariff based competitive bidding route.

Scope of transmission project

1. Raichur-Sholapur 765 KV Single Circuit Line-1

General Details

Special Purpose Vehicle (SPV)	:	Raichur Solapur Trans. Company Limited. (A Consortium of Patel, Simplex infra and BS Transcomm)
Bid Process Coordinator (BPC)	:	Rural Electrification Corporation
Estimated Cost (Rs. crs)	:	440
SPV acquisition	:	7.1.2011
Scheduled Date of Completion	:	7.1. 2014
Actual Date of Completion	:	30.6.2014

Status of progress of transmission project

1. Raichur-Sholapur 765 kV S/C line-1 – 208 ckm

Transmission Project commissioned on 30.06.2014 .

(37) Name of transmission project - Transmission system strengthening in Indian system for transfer of power from new HEP's in Bhutan

Background

Punatsangchhu-I (1200MW), Punatsangchhu-II (990MW), Mangdechhu(720MW) and Wangchhu (570MW) Hydro Generation Projects in Bhutan are at various stages of development. Power from these generation projects would be transferred to India after meeting small local demand in Bhutan. Power from these generation projects is proposed to be brought to Alipurduar sub-station in West Bengal (India). This transmission scheme has been planned for power transfer from Alipurduar onwards to ER and towards NR, it shall be done through + 800 kV, 6000MW Bishwanath Chariyal (Assam) – Alipurduar (West Bengal) – Agra (Uttar Pradesh) HVDC bipole link.

Scope of transmission project

Transmission Lines:

1. Alipurduar - Siliguri 400 kV D/C line (2nd) with Quad moose conductor
2. Kishanganj - Darbhanga 400kV D/C line with Quad moose conductor

400 kV Bay Requirements:

1. 400 kV line bays at Darbhanga: 2 nos.
2. 80 MVAR switchable line reactors (400 Ohm NGR) in each circuit at Darbhanga end of Kishanganj - Darbhanga 400kV D/C (quad) line

General Details

Special Purpose Vehicle (SPV)	:	Alipurduar Transmission Ltd. (A subsidiary of Kalpataru Power Transmission Ltd.)
Bid Process Coordinator (BPC)	:	Rural Electrification Corporation
Estimated Cost (Rs. crs)	:	
Request for Qualification	:	16.04.2015
Request for Proposal	:	08.07.2015
Letter of Intent	:	29.10.2015
Transmission Service Agreement (TSA)	:	22.09.2015
SPV acquisition	:	06.01.2016
Transmission License by CERC	:	21.03.2016
Tariff adoption by CERC	:	22.03.2016
Contract Performance Guarantee	:	04.01.2016
Clearance u/s 164 in Gazette	:	20.10.2016
Execution plan submitted to CEA	:	05.05.2016
NIT issued on	:	N.A.
EPC awarded on	:	19.01.2016
Scheduled Date of Completion	:	05.03.2019
Anticipated Date of Completion	:	05.03.2019

Status of progress of transmission project

1. Alipurduar (PG) – Siliguri (PG) 400 KV D/C line

Length:	232 ckm
Locations:	321 nos
Foundation completed:	292 (9 Nos Pile Locations Completed)
Tower erected:	230 nos.
Stringing completed:	32.88 Ckm

Schedule Target date: Mar-19

Anticipated Target date:

Constraints where Project Authority requires intervention:

- 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.
- Matter has also been highlighted at DM/SDM/BDO level for early resolution.

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest:- Locations: **NA** Length: **NA**

Forest area affected (ha) : **NA**

Forest proposals submitted on **NA**

Current status: **NA**

Power line crossing

Total no. of crossings : 21 nos.

Proposal submitted : 21 nos.

Date: 17-Apr-17, 17-May-17, 4-July-17, 5-Aug-17, 17th Oct'2017

Approval obtained : 21 nos.

Date: 3 nos approval on 16th June'17
2 nos approval on 7th Oct'17
1 Nos approval on 11th Nov'17
3 nos on 16th Jan'18 & 2 nos on 25th Jan'18

Railway crossing

Total no. of crossings : 2 nos.

Proposal submitted : 2 nos.

Date: 13-Sept-17

Approval obtained : 1 nos.

Date: 1 no on 22nd Jan'18

National Highway Crossing

Total no. of crossings : 3 nos.

Proposal submitted : 3 nos.

Date: 25th May'17, 3rd June'17

Approval obtained : 3 nos.

Date:

River Crossings

Total no. of crossings : NA nos.

Proposal submitted : NA nos.

Date:

Approval obtained : NA nos.

Date:

PTCC approval –

Proposal submitted to Defence on

Proposal submitted to BSNL on

Proposal submitted to Railways on

Current status:

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on.....NA

Current Status: NA

2. Kishanganj (PG) – Darbhanga (DMTCL) 400 KV D/C line

Length:	209 ckm
Locations:	547 nos.
Foundation completed:	543 nos (13 nos pile completed above Ground level)
Tower erected:	533 nos
Stringing completed:	162.43 CKm
Schedule Target date:	Mar-19
Anticipated Target date:	

Constarints where Project Authority requires intervention:

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest:- Locations: NA nos. Length:NA
 Forest area affected (ha) : NA
 Forest proposals submitted onNA
 Current status:NA

Power line crossing

Total no. of crossings	:9	nos.	
Proposal submitted	:9	nos.	Date:25th & 27th July17,1st Aug'17
Approval obtained	:9	nos.	Date: Jan'2018

Railway crossing

Total no. of crossings	:3	nos.	
Proposal submitted	:3	nos.	Date:11-Aug-17
Approval obtained	:1	nos.	Date:

National Highway Crossing

Total no. of crossings	:5	nos.	
Proposal submitted	:5	nos.	Date:1st & 2nd Aug'17
Approval obtained	:5	nos.	Date: Jan'18

River Crossings

Total no. of crossings	:NA	nos.	
Proposal submitted	:NA	nos.	Date:NA
Approval obtained	:NA	nos.	Date:NA

PTCC approval

Proposal submitted to Defence on
 Proposal submitted to BSNL on
 Proposal submitted to Railways on
 Current status:

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on.....
 Current Status:

3. 2 nos 400 kV line bays at Darbhanga and 80 MVAR switchable line reactors

Land acquired	: 100% (Land provided by DMTCL)
Civil works completed	: 80%
Equipment supplied	: 98%
Equipment erected	: 90%

Schedule COD : Mar '19
Anticipated COD : Dec'18

Constraints if any:

1. Second redundant source of Auxiliary supply is not available at Darbhanga S/S. For successful Charging ATL require Auxiliary supply from Tertiary of ICT of DMTCL
2. Shut down for Bus Bar integration is not approved till date by ERLDC.
3. Mapping of S/S in ERLDC is pending
4. Energy Meter not approved by ERLDC

(38) Name of transmission project - North Eastern Region Strengthening Scheme (NERSS-VI)

Background

The expansion of 400 kV network in NER is planned through new 400 kV line and up gradation of existing 400 kV lines presently charged at 132 kV to its rated voltage of 400 kV. A 400 kV ring is being established in Assam and Meghalaya connecting Silchar – Misa – Balipara – Bongaigaon – Azara/Byrnihat - Silchar substations. Another 400 kV ring is being established interconnecting Assam and Tripura through Silchar – Palatana – Surajmaninagar – P. K. Bari – Silchar corridor.

The extension of 400 kV system to the states of Manipur and Nagaland by interconnecting them with Assam has been planned through a 400 kV ring connecting Silchar- Imphal – New Kohima – New Mariani – Misa – Silchar along with new 400 kV substation at New Mariani and charging the New Mariani – Misa line at its rated voltage of 400 kV. Additionally, the Silchar- Imphal – New Kohima- New Mariani – Misa corridor would be an alternate for Silchar – Misa line.

The present scheme will form the Imphal – New Kohima – New Mariani section of Silchar- Imphal – New Kohima – New Mariani – Misa – Silchar 400 kV ring along with establishment of new 400/200 kV substation at New Kohima. This would require up gradation of the New Mariani S/s of POWERGRID to 400 KV and LILO of the Kathalguri – Misa D/C line at New Mariani S/s along with charging of Misa – New Mariani section at rated voltage of 400 KV (under the scope of POWERGRID). The New Mariani – Kathalguri section would be kept charged at 220 KV.

The subject scheme has been approved in the 5th Standing Committee Meeting on Power System Planning of North Eastern Region held on 08-08-2015 at Imphal, 15th NERPC/TCC meeting held on 21-08-2015 at Guwahati and 35th Empowered Committee meeting on Transmission held on 14-09-2015 at New Delhi.

Scope of transmission project

1. Establishment of 400/220 kV, 7x167 MVA s/s at new Kohima

400 kV

ICTs: 400/220 kV, 7x167 MVA

ICTs bays: 2 nos.

Line bays: 4 nos.

Bus Reactor: 2x125 MVAR

400 kV bus reactor bays: 2 nos.

Space for future bays: 4 nos. (along with space for switchable line reactor)

220 kV

ICTs bays: 2 nos.

Line bays: 4 nos.

Space for future bays: 4 nos.

Space for 400/220 kV 500 MVA ICT along with associated bays

2. Imphal-New Kohima 400 kV D/C line (Twin Moose ACSR)
3. New Kohima -New Mariani 400 kV D/c line (Twin Moose ACSR)

General Details

Special Purpose Vehicle	:	Kohima-Mairani Trans. Ltd(Kalpataru)
Bid Process Coordinator (BPC)	:	Power Finance Corporation
Estimated Cost (Rs. Crs)	:	653
Request for Qualification	:	15.02.2016
Request for Proposal	:	25.11.2016
Letter of Intent	:	17.01.2017
Transmission Service Agreement (TSA)	:	02.09.2016
SPV acquisition	:	31.03.2017
Transmission License by CERC	:	10.07.2017
Tariff adoption by CERC	:	06.07.2017
Contract Performance Guarantee	:	07.03.2017
Clearance u/s 164	:	Obtained in Feb'18
Execution plan submitted to CEA	:	29.07.2017
NIT issued on	:	14.01.2016
EPC contract awarded on	:	28.06.2017
Scheduled Date of Completion	:	Jul'20
Anticipated Date of Completion	:	Jul'20

Status of progress of transmission project

1. Establishment of 400/220 kV, 7x167 MVA s/s at new Kohima
 - Land acquired: Under Progress
 - Civil works completed Yet to start
 - Equipment supplied Yet to start
 - Equipment erected Yet to start
 - Schedule COD Jul'20
 - Anticipated COD Jul'20

Constarints where Project Authority requires intervention: NA

2. Imphal-New Kohima 400 kV D/C line

Length:	134 Km approx.
Locations:	317 Nos approx.
Foundation completed:	16 nos
Tower erected:	
Stringing completed:	
Schedule COD:	Jul'20
Anticipated COD	Jul'20

Constarints where Project Authority requires intervention: NA

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest:-

Locations: 91 nos. Approx. ,

Length: 41.647 KM

Forest area affected (ha) : 191.62

Forest proposals submitted on 14.08.2017 (online) & 28.08.20017 (Hard copy).

Current status: FRA received from DC of Kangpokpi & Senapati districts. Tree Enumeration site visit by DFO Kangpokpi & Senapati completed. Both the DFOs have uploaded their reports in their respective portal and under review at Conservator's office. Tree enumeration report submitted by DFO has been reviewed & changed by CF resulting in reduction of number of trees by 8000 (from 20000 to 12000). Both the DFOs have uploaded their reports in their respective portal in their respective portal as well as Conservator has forwarded the report to Nodal Officer on 31st July' 18. After review by Nodal Office, the file forwarded to Secretariat on 9th August 2018 and after reviewed at Secretariat, the proposal forwarded to the office of Honourable Minister of Forest & Environment, Govt. of Manipur on 18.08.2018. The Note Sheet for Forest Proposal got signed on 20.08.2018 from Honourable Minister of Forest & Environment, Govt. of Manipur, Chief Secretary, Govt. of Manipur and the forest proposal file have been forwarded to Regional forest office Shillong on 06 Sept, 2018 and the proposal is under review at Shillong.

Power line crossing

Total no. of crossings	: 11	nos(submission targeted on 20.07.2018)
Proposal submitted	:	nos. Date:
Approval obtained	:	nos. Date:

Railway crossing

Total no. of crossings	: 0	nos.
Proposal submitted	:	nos. Date:
Approval obtained	:	nos. Date:

National Highway Crossing

Total no. of crossings	: 9	nos(submission targeted on 20.07.2018)
Proposal submitted	:	nos. Date:
Approval obtained	:	nos. Date:

River Crossings

Total no. of crossings	: 0	nos.
Proposal submitted	:	nos. Date:
Approval obtained	:	nos. Date:

PTCC approval

Proposal submitted to Defence on (Submission targeted by January 2020)
 Proposal submitted to BSNL on
 Proposal submitted to Railways on
 Current status:

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on...(Submission targeted by January 2019)
 Current Status:

3. New Kohima -New Mariani 400 kV D/c line

Length:	120 Km Approx.
Locations:	290 Nos Approx.
Foundation completed:	70 nos.
Tower erected:	0

Stringing completed:	0
Schedule COD:	Jul'20
Anticipated COD	Jul'20

Constarints where Project Authority requires intervention: NA

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest:-

Locations: 11 nos. Approx ,

Length: 4.3 Km

Forest area affected (ha) : 19.976

Forest proposals submitted on 09.08.2017

Current status: FRA NOC from Disrtict Collector received on 29.11.2017 and the same has been uploaded on MoEF website along with hardcopy submission to DFO Office- Golaghat. Forest proposal is approved from Nodal officer and subsequently submitted to DFO office. Tree enumeration done and duly signed list from Forester & Ranger submitted to DFO. Tree enumeration report submitted by Ranger on dated 2nd Apr'18 to DFO. Coordinates of the Double degraded forest area was provided by CF on 16.06.18. The CA Land estimate approved by the DFO, Golaghat and CF, Jorhat. Forest Diversion proposal was uploaded on MoeF website on 18.07.2018. CF site viste & CA land viste completed on 20.08.2018. The proposal has been uploaded in MoeF websit by CF, Jorhat on 18.09.2018 and the file was subsequently submitted at Nodel Office, Guwahati for further processing.

Power line crossing

Total no. of crossings	:	1	nos(submission targeted on 20.10.18)
Proposal submitted	:	nos.	Date:
Approval obtained	:	nos.	Date:

Railway crossing

Total no. of crossings	:	0	nos.
Proposal submitted	:	nos.	Date:
Approval obtained	:	nos.	Date:

National/state Highway Crossing

Total no. of crossings	:	5	nos(submission targeted on 20.10.18)
Proposal submitted	:	nos.	Date:
Approval obtained	:	nos.	Date:

River Crossings

Total no. of crossings	:	5	nos.
Proposal submitted	:	nos.	Date:
Approval obtained	:	nos.	Date:

PTCC approval

Proposal submitted to Defence on (Submission targeted by January 2020)

Proposal submitted to BSNL on

Proposal submitted to Railways on

Current status:

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation on....(Submission targeted by January 2019)

Current Status:

(39) Name of transmission project - Transmission system associated with DGEN TPS (1200 MW) of Torrent Power Ltd.

Background

This transmission scheme has been proposed for evacuation of power from DGEN TPS (1200MW) of Torrent Power Limited. DGEN Transmission Company Limited awarded through TBCB route shall implement the project.

Scope of transmission project

1. DGEN TPS – Vadodara 400 kV D/C line
2. Navsari - Bhesatan 220 kV D/C line

General Detail

Special Purpose Vehicle (SPV)	:	DGEN Transmission Company Ltd. (A subsidiary of M/s Instalaciones Inabensa, S.A. Spain)
Bid Process Coordinator (BPC)	:	Power Finance Corporation
Estimated Cost (Rs. crs)	:	275
Request for Qualification	:	30.10.2012
Request for Proposal	:	25.03.2014
Letter of Intent	:	19.05.2014
Transmission Service Agreement(TSA)	:	30.04.2014
SPV acquisition	:	17.03.2015
Transmission License by CERC	:	24.06.2015
Tariff adoption by CERC	:	10.06.2015
Contract Performance Guarantee	:	13.03.2015
Clearance u/s 164	:	22.04.2016
Execution plan submitted to CEA	:	10.07.2015
NIT issued on	:	-
EPC contract awarded on	:	30.06.2015
Scheduled Date of Completion	:	16.05.2018
Anticipated Date of Completion	:	DTCL requested to scrap project

Status of Progress of transmission project

- 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.
- Member(PS), CEA took a meeting on 26.04.2017 to review the progress of Tr. project wherein project authority informed to close the project due to financial constraints in parent company. CEA vide letter dated 14.06.2017 informed CERC to take appropriate action.

(40) Name of transmission project - System strengthening in NR for import of power from North Karanpura and other projects outside NR and system strengthening in WR for import of power from North Karanpura and other projects outside Western Region and also for projects within Western Region

Background

Transmission system for power evacuation from North Karanpurahas been evolved in a comprehensive manner along-with evacuation system for Maithon RB and other generation projects of DVC viz. Koderma, BokaroExtn, Mejia Extn, Durgapur and Raghunathpur and Maithon RB. The comprehensive system consists of common and generation specific transmission schemes. Corresponding to injection of power from North Karanpura and the other generation projects in ER, both NR and WR would require system strengthening. Out of the comprehensive plan of system strengthening, the elements identified for commissioning matching with North Karanpura have been covered under this scheme.

Scope of transmission project

1. Lucknow – Bareilly 765 kV D/C line
2. Bareilly – Meerut 765 kV D/C line
3. Agra – Gurgaon(ITP) 400 kV D/C line
4. Gurgaon(ITP) – Gurgaon (PG) 400 kV D/C line
5. Gurgaon (ITP) 400/220 kV GIS Substation
6. Sipat/Korba pooling station – Seoni 400 kV D/C line

General Details

Special Purpose Vehicle (SPV)	: North Karanpura Transmission Company Ltd. (A subsidiary of RPTL)
Bid Process Coordinator (BPC)	: Rural Electrification Corporation
Estimated Cost (Rs. Crs)	: 2700
Request for Qualification	: 06.10.2008
Request for Proposal	: 08.05.2009
Letter of Intent	: 18.12.2009
Transmission Service Agreement (TSA)	: 10.09.2009
SPV acquisition	: 20.05.2010
Transmission License by CERC	: 22.12.2010
Tariff adoption by CERC	: Matter was in CERC for revision of tariff
Contract Performance Guarantee	: 17.05.2010
Clearance u/s 164	: 12.08.2013
Execution plan submitted to CEA	: 13.10.2010 and 28.10.2010
NIT issued on	:
EPC awarded on	: 27.10.2010
Scheduled Date of Completion	: 20.11.2013
Anticipated Date of Completion	: Matter with APTEL

Status of progress of transmission project:

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). CERC notified an unfavorable order dated 09.05.2013, which was later challenged by NKTCL in Appellate Tribunal for Electricity (ATE). ATE allowed the appeal filed by company and set aside the unfavorable CERC order.

Pursuant to the ATE Order dated 02.12.2013, written requests were sent to the beneficiaries seeking following main reliefs to mitigate effect of Force Majeure in line with the prayers allowed in appeal:

- a) Re-fixation of implementation time of the Project as was originally envisaged considering zero date as issuance of section 68 approval from MoP.
- b) Tariff Increase to the tune of 160%.

Concerned utilities in Tamilnadu, Gujarat and Maharashtra have appealed against the order of ATE in the Supreme Court of India. First hearing was held on March 07, 2014 in case of Gujarat and April 21, 2014 in case of Maharashtra. The Tamilnadu petition has been merged with Gujarat. The matter is going in the Registrar court and notices are being served on all the beneficiaries. Once the servicing is complete the matter will be argued in Supreme Court. All the petitions filed by beneficiaries have been clubbed together by SC. The petition has been admitted and next hearing is awaited.

Further, on March 04, 2014, CERC reopened Power Grid Corporation of India Limited's (PGCIL) petition nos. 19 and 20 seeking revocation of license of the company and transferring the project to them on cost plus model and at the risk and cost of Reliance Power Transmission Limited (the Holding Company). CERC notified an order dated 02 Sep 2015, against the said petition for revocation of transmission license. NKTCL filed Appeal No. 200 of 2015 & IA-337 of 2015 in ATE challenging the above mentioned CERC order. ATE rejected the IA meant for stay but allowed the appeal. NKTCL filed a Civil Appeal number 9291 of 2015, in SC against ATE's order. Supreme Court has given a stay order directing no coercive action to be taken by CERC.

SC on 12th August has disposed of the appeal and directed ATE to decide on the appeal. Next hearing in ATE is due on 11.10.2018.

(41) Name of transmission project - Augmentation Talcher-II Transmission System

Background

Talcher-II (4x500 MW) generation project of NTPC is located in Orissa. All the units of the generation project are already in operation. Earlier total power from this project was allocated to the states of Southern Region. Subsequently in April 2007 power allocation of Talcher-II has been revised.

For power evacuation from this project to the Southern Region a +/- 500kV 200MW HVDC bi-polar line from Talcher in Eastern Region to Kolar in Southern Region and 400 kV lines beyond Kolar is in operation however, under contingency of outage of one pole of HVDC line, there is constraint in evacuation of power from Talcher-II to Southern Region. An outage of one pole also causes jerk in Eastern-Western-Northern Region, which are operating in synchronism and result in overloading on some of the transmission lines in Eastern and Western Regions. The Talcher- Behrampur- Gazuwaka 400 kV D/C line with series compensation and switching station at Behrampur and the Talcher - Rourkela 400 kV D/C Quad line have been evolved to augment the Talcher-II Transmission System so as to provide a backup system to meet the contingency outage of one pole and increase the reliability of the system. With this system, it would be possible to schedule the power flow on Talcher - Kolar HVDC and Gazuwaka HVDC back to back in such a manner that the reliable evacuation of power from Talcher-II would be ensured.

Scope of transmission project

1. Talcher II- Rourkela 400 kV D/C Quad line
2. Talcher II – Behrampur 400 kV D/C line
3. Behrampur- Gazuwaka 400 kV D/C line
4. 2x315 MVA, 400/220 kV Behrampur substation

General Details

Special Purpose Vehicle (SPV)	:	Talcher-II Transmission Company Ltd. (A subsidiary of RPTL)
Bid Process Coordinator	:	Rural Electrification Corporation
Estimated Cost (Rs. crs)	:	1400
Request for Qualification	:	06.10.2008
Request for Proposal	:	08.05.2009
Letter of Intent	:	18.12.2009
Transmission Service Agreement (TSA)	:	10.09.2009
SPV acquisition	:	27.04.2010
Transmission License by CERC	:	08.11.2010
Tariff adoption by CERC	:	Matter in CERC for revision of tariff
Contract Performance Guarantee	:	22.04.2010
Clearance u/s 164	:	12.08.2013
Execution plan submitted to CEA	:	13.10.2010 and 28.10.2010
Scheduled Date of Completion	:	27.10.2012
Anticipated Date of Completion	:	Matter with APTEL

Status of progress of transmission project

1. Talcher II – Rourkela 400 kV D/C (Q) line
2. Talcher II – Behrampur 400 kV D/C line
3. Behrampur – Gazuwaka 400 kV D/C line
4. 2x315 MVA, 400/220 kV Behrampur substation

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). CERC notified an unfavorable order dated 09.05.2013, which was later challenged by TTCL in Appellate Tribunal for Electricity (ATE). ATE allowed the appeal filed by company and set aside the unfavorable CERC order.

Pursuant to the ATE order dated 02.12.2013, written requests were sent to the beneficiaries seeking following main reliefs to mitigate effect of Force Majeure in line with the prayers allowed in appeal:

- a) Re-fixation of implementation time of the Projects as was originally envisaged considering zero date as issuance of section 68 approval from MoP.
- b) Tariff Increase to the tune of 90%.

Concerned utilities in Tamil Nadu have appealed against the order of ATE in the Supreme Court of India (SC). First hearing was held on August 1, 2014. The matter is still pending before Supreme Court. All the petitions filed by beneficiaries have been clubbed together by SC. The petition has been admitted and next hearing is awaited.

Further, on March 04, 2014, CERC has reopened Power Grid Corporation of India Limited's (PGCIL) petition nos. 19 and 20 seeking revocation of license of the company and transferring the project to them on cost plus model and at the risk and cost of Reliance Power Transmission Limited (the Holding Company).

CERC notified an order dated 02 Sep 2015, against the said petition for revocation of transmission license. TTCL filed Appeal No. 201 of 2015 & IA-338 of 2015 in ATE challenging the above mentioned CERC order. ATE rejected the IA meant for stay but allowed the appeal. TTCL filed a Civil Appeal number 13370 of 2015, in SC against ATE's order. Supreme Court has given a stay order directing no coercive action to be taken by CERC.

SC on 12th August has disposed of the appeal and directed ATE to decide on the appeal. Next hearing in ATE is due on 11.10.2018.

Transmission Projects under Bidding Process

1. Name of transmission project – Transmission scheme of evacuation of power from generation project in Kameng basin (Arunachal Pradesh)

Background

Arunachal Pradesh is endowed with large hydro potential of more than 50,328MW. Out of this, generation projects of about 49,206 MW are proposed to be developed in the state of Arunachal Pradesh in different river basins like Tawang, Kameng, Subansiri, Siang, Lohit and Dibang. For the same, CEA has already developed a master plan for power evacuation from the upcoming generation projects. Till date about 22 no. connectivity and LT(O)A application for about 12051MW and 4705.5MW respectively from various generation projects in Lohit, Siang, Tawang, Kameng and Dibang basins of Arunachal Pradesh have been received. However, only 4 generation projects in Kameng basin showed some significant progress. Accordingly, a transmission system for power evacuation for the same was approved in the 3rd Standing Committee Meeting on Power System Planning of North-Eastern Region held on 21st Dec 2011. Subsequently, Connectivity and LTA was granted to two generation projects developers in Kameng Basin viz. Dirang Energy Pvt. Ltd. and SEW Nafra Power Corporation Ltd.

Scope of transmission project

1. Dinchang - Rangia / Rowta Pooling Point 400 kV D/c (Quad) / HTLS.
2. LILO of both ckts of Balipara-Bongaigaon 400kV D/C (Twin Moose) line at Rangia / Rowta .
3. Establishment of 7x166 MVA 400/220 kV Pooling station (GIS) at Dinchang
 - 400 kV**
 - ICT single phase 7x166 MVA 400/220 kV (1spare)
 - ICT bays – 2 no.
 - Line bays – 2 no.
 - Bus Reactor 80 MVAR – 2 no.
 - Bus reactor bays – 2 no.
 - Space for line bays – 4 no.
 - Space for ICT bay – 2 no.
 - 220 kV**
 - ICT bays – 2 no.
 - Space for line bays – 18 no.
 - Space for ICT bay – 2 no.
 - Space for single phase 6x166 MVA 400/220 kV ICT
4. Establishment of 2x500 MVA 400/220 kV Pooling station at Rangia/Rowta in Upper Assam
 - 400 kV**
 - ICT 2x500MVA 400/220 kV
 - ICT bays – 2 no.
 - Line bays – 6 no.
 - Bus Reactor 125 MVAR – 2 no.
 - Bus Reactor bays – 2 no.
 - Switchable Line Reactor of 63 MVAR at Rangia /Rowta end for Dinchang-Rangia/Rowta Pooling Point 400 kV D/c (Quad) line- 2 no.
 - Space for line bays – 12 no.
 - Space for ICT bays – 2 no.
 - 220 kV**

- ICT bays – 2 no.
- Line bays – 4 no.
- Space for line bays – 4 no.
- Space for ICT bays – 2 no
- Space for 2x500MVA 400/220kV ICT
- Space for take-off of 6000/7000MW HVDC Bi-pole line.

General Details

Special Purpose Vehicle	:	Dinchang Transmission Limited
Bid Process Coordinator	:	Rural Electrification Corporation
Estimated Cost (Rs. Crs)	:	1124
Request for Qualification	:	04.01.2016
Request for Proposal	:	02.05.2017
Letter of Intent	:	
Transmission Service Agreement (TSA)	:	
SPV acquisition	:	
Transmission License by CERC	:	
Tariff adoption by CERC	:	
Contract Performance Guarantee	:	
Clearance u/s 164	:	
Execution plan submitted to CEA	:	
Scheduled Date of Completion	:	

Status of progress of transmission project

Project is put on hold by CEA due to negligible progress in HEP and no firm commitment of COD by developers.

2. Name of transmission project - Connectivity and Long Term Access (LTA) to HPPCL 450 MW from Shongtong Karcham HEP

Background

Scope of transmission project

- 1 Shongtong Karcham - Wangtoo 400 kV D/c Line (Quad HTLS Conductor Equivalent to about 3000MW on each ckt) (ISTS)
- 2 2 Nos 400kV Bays at Wangtoo S/s

General Details

Special Purpose Vehicle	:	Shongtong Karcham-Wangtoo Transmission Limited
Bid Process Coordinator (BPC)	:	Power Finance Corporation
Estimated Cost (Rs. Crs)	:	272
Request for Qualification	:	11.05.2017 ; Extended to 18.05.2017
Request for Proposal	:	09.08.2017; Extended to 17.11.2017
Letter of Intent	:	
Transmission Service Agreement (TSA)	:	
SPV acquisition	:	
Transmission License by CERC	:	
Tariff adoption by CERC	:	
Contract Performance Guarantee	:	
Clearance u/s 164	:	
Execution plan submitted to CEA	:	
NIT issued on	:	
EPC contract awarded on	:	
Scheduled Date of Completion	:	
Anticipated Date of Completion	:	

Status of progress of transmission project

Current Activity: Transfer of SPV to successful bidder by BPC.

3. Name of transmission project - ATS for Tanda expansion TPS

Background

This transmission scheme has been proposed for evacuation of power from Tanda TPS (2x660 MW) of NTPC Limited. The project shall be implemented by Tanda Transmission Company Limited.

Scope of transmission project

1. Tanda - Sohwal 400 kV D/C Line – 172.946 ckm
2. Sohwal - Lucknow 400 kV D/C Line – 176.212 ckm

General Detail

Special Purpose Vehicle (SPV)	:	Tanda Transmission Company Limited.
Bid Process Coordinator (BPC)	:	PFCCL
Estimated Cost (Rs. crs)	:	336
Request for Qualification	:	31.10.2014
Request for Proposal	:	11.09.2015
Letter of Intent	:	09.10.2015
Transmission Service Agreement (TSA)	:	Yet to be signed
SPV acquisition	:	Yet to be acquired
Transmission License by CERC	:	
Tariff adoption by CERC	:	
Contract Performance Guarantee	:	
Clearance u/s 164	:	
Execution plan submitted to CEA	:	
NIT issued on	:	
EPC contract awarded on	:	
Scheduled Date of Completion	:	
Anticipated Date of Completion	:	

Status of progress of transmission project

Current activity: Transfer of SPV to successful bidder by BPC.