



**Monthly progress Report of
Transmission Projects awarded
through
Tariff Based Competitive Bidding
(TBCB) Route
(As on 31.07.2017)**

**Govt. of India
Ministry of Power
Central Electricity Authority
New Delhi**

August 2017

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Total Transmission Projects	:	37
Transmission Projects Commissioned	:	12
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1. 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 Tr. Ltd. (A subsidiary of PGCIL)
Bid Process Coordinator (BPC)	:	Power Finance Corporation
Levelling 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	:	Mar' 18

- Applications filed on 04.04.12 before CERC and Tr. License granted in 20.06.13. A total of about 15 months' delay.
- On 16.04.14, CERC in their Order stated that project is to be executed within a period of maximum 30 months with effect from 20.6.2013 which works out to **Dec.'15** and for Cost overrun part commission may be approached subsequently by PNMTL, with other details.

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 ckm
 - Locations 575 nos.
 - Foundation completed 549 nos.
 - Towers erected 523 nos.
 - Stringing completed 112 ckm
 - Completion target: Mar' 2018

Constraints if any:

- a) **Forest/Wildlife clearance issue:** 2 locations in Wild Life proposal forwarded to National Wild Life Board, Delhi on 15.05.17. Committee decided that member of standing committee will inspect and submit their report by June'17 end for further consideration. Committee visited, report awaited
- b) **RoW issue:** Severe ROW being faced in Karnataka portion (130 kms) of the line and work almost at standstill since several months.
Work almost stalled in Ramnagar district (85 kms) and in Tumkur district (45 kms). Help urgently required for resolution of Right of Way
- c) **Court Cases:** 2 Nos. land owners in Tumkur District have filed petitions in Hon'ble High Court of Karnataka on 29.10.2015 and on 03.08.2016 seeking change of route alignment of the transmission line. Hearing and judgement on the matter is yet to be concluded.

2. 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 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 same is yet to be heard. Regulatory approval for the Project has been withdrawn by CERC. CERC may provide direction for taking over back the SPV by the BPC (RECTPCL).

3. Transmission system for Strengthening in Southern Region for import of Power from Eastern Region

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 Khamman 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
Levelling 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 on Sep-16

4. 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
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 Sept.'16**, however, Power flow could not take place due to non-readiness of bays at NTPC Unchahar. NTPC Unchahar bays completed in Dec.'16, power flow started.

Project Commissioned on Dec-16

5. 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 RoW. 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)	:	Powergrid Kala Amb Transmission Limited (A subsidiary of PGCIL)
Bid Process Coordinator(BPC)	:	Rural Electrification Corporation
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	:	01.08.2017

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
LOA placed on M/s KEC in Feb' 2016

- Length: 2 ckm,
- Locations: 4 nos.
- Foundation completed 4 nos.
- Towers erected 4 nos.
- Stringing completed 2 cKm

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

6. Transmission System associated with Gadarwara STPS (2x800 MW) of NTPC (Part-A)

Background

NTPC Limited (NTPC) is establishing coal based Gadarwara STPS (2x800 MW) generation project at Gadarwara, 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 Gadarwara 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. Gadarwara 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 Gadarwara 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 Gadarwara STPS – Jabalpur Pool 765 kV D/C line.

2. Gadarwara 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 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 Gadarwara 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
Levelling 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	:	Received on 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
Anticipated date of completion	:	Progressively by November 2017

Status of progress of transmission project

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

Awarded to M/s KEC on Dec'15.

Stage-1: Initially from Gadarwara to be LILO of Seoni-Bina 765kV S/C line,

- Length: 31 ckm
- Locations: 43 nos.
- Completion Target: Nov'2016

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: 175 ckm
- Locations: 227 nos.
- Completion target: May 2017

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

Awarded to M/s Simplex on Dec'15

- Length: 627 ckm
- Locations: 839 nos.
- Foundation : 671 nos.
- Erection: 542 nos.
- Stringing: 204 ckm
- Completion Target: Nov'2017

Constraints if any:

- a) Severe RoW being faced in Maharashtra
- b) Forest/Wildlife clearance issue: MP portion: Forest clearance received in May' 17. Maharashtra Portion: Stage-I received on 27.6.17, working permission received on 28.07.17
- c) Line is passing through SEZ area (MP) where RoW is being faced, 11 locations were held up due to court case. Recently cleared after court verdict.

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

Stage 1 awarded to M/s Gammon in Jan'16

- Length: 196 ckm
- Locations: 269 nos.
- Foundation: 240 nos.
- Erection 223 nos.
- Stringing 106 ckm

Scheduled Date of Completion: Nov'2017

4. 2x1500 MVA, 765/400 kV Warora (New) pooling station

Substation Supply and Erection Package Award to M/s Siemens in Sep'15

- Land : Acquired 100%(103 acre)
- Civil work completed : 80%
- Equipment Received : 55%
- Equipment Erection : 42%
- Completion target : Nov 17

Constraints if any:

- a) Work hampered in July' 17 due to heavy monsoons

7. 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
GUVN	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
Levelling 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	:	Newspaper republication done on 03/06/16. Gazette notification done in August'16. Application submitted to CEA. Meeting held. Compliance submitted, further observation raised on 31.01.2017, Compliance of all observation submitted on 15.05.17. Approval received from CEA in June' 17.
Execution plan submitted to CEA	:	Nov'16
NIT issued on	:	22.06.2015
EPC contract awarded on	:	Sept.'2015
Scheduled Date of Completion	:	January 2018
Anticipated Date of Completion	:	January 2018

Status of progress of transmission project

1. Warora Pooling Station - Parli (New) 765 kV D/C line- Awarded on M/s L& T & M/s. Bajaj on Feb'16.

- Length: 696 ckm
- Locations: 919 nos.
- Foundation completed 748 nos.
- Towers erected 607 nos.
- Stringing completed 163 ckm

a) Forest/Wildlife clearance issue: Forest Proposal submitted.

2. Parli (New) - Solapur 765 kV D/C line- Awarded on M/s L& T on Dec'15

- Length: 236 ckm
- Locations: 311 nos.
- Foundation completed 246 nos.
- Towers erected 176 nos.
- Stringing completed 18 ckm

a) Forest/Wildlife clearance issue: Not applicable

3. Parli (New) – Parli (PG) 400 kV D/C (Q) line- Awarded on M/s L& T & M/s. Bajaj in Feb'16.

- Length: 36 ckm
- Locations: 52 nos.
- Foundation completed 29 nos.

- Towers erected 26 nos.
- Stringing completed 0

a) Forest/Wildlife clearance issue: Not applicable

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

S/s package awarded to M/s Siemens. Transformer and Reactor Packages awarded.

- Land acquisition : Acquired 100%(103 acre)
- Civil work completed : 48%
- Equipment Received : 26%
- Equipment Erection : 15%
- Completion target : Jan'18

Constraints if any:

a) Work hampered in July' 17 due to heavy monsoons

8. 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 Transmission Limited (A subsidiary of PGCIL)
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	:	Received in 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	:	26.06.2018

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: 748 ckm
- Locations: 1007 nos
- Foundation completed 711 nos.
- Towers erected 303 nos.
- Stringing completed 26 ckm

Constraints if any:

- a) Work hampered in July' 17 due to heavy monsoons
- b) Forest/Wildlife clearance issue: Proposal submitted and under processing.

Status of statutory approvals:

1. Forest approval

Line is passing through three Forest divisions. Total route under forest is 35.983 km (241.009 hec.). Forest Proposal completed in all three division & submitted at APCCF, Bhopal on dated 30.05.2017

- (i) Singrauli Division : (length 22.597 km, 150.05 hec.)
- (ii) Sidhi Division : (length 7.750 km, 51.925 hec)
- (iii) Satna Division : (length 5.84 km, 39.128 hec)

2. Power line crossing details

Total	: 32 nos.
Proposal submitted	: All
Approval obtained	: 19

3. Railway crossing

Total	: 05 nos.
Proposal submitted	: All
Approval obtained	: 04

4. National Highway Crossing

Total	: 02 nos
Proposal submitted	: All
Approval awaited	: All

5. PTCC approval

Proposal submitted to BSNL/Railway/Defence/CEA on 23.04.2016

6. Defence/Civil Aviation Approval

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

Constarints where Project Authority requires intervention:

1. Forest Approval

- (i) The proposal was submitted online in the forest portal on 23.02.2016.
- (ii) Proposal sent to concerned Divisions online by Forest Dept, Bhopal on 30.03.2016.

- (iii) Forest Proposal completed in all three division & submitted at CCF, Rewa on dtd 24.03.2017.
- (iv) Forest Proposal forwarded to APCCF, Bhopal on dated 30.05.2017

Forest proposal is being regularly followed up by with the forest officials. Follow-up for expediting the process of obtaining FRA of Singrauli is being done.

2. Son-Ghariyal Sanctuary, Son River, Banas River

Son –Ghariyal Sanctuary, Son River : Total Area- 5.1389 hec.
Banas River : Total Area- 5.628 hec

Total area- 10.7669 hec (Affected loc. 04 nos.)
Proposal forwarded to APCCF Wild Life Bhopal by CCF on dtd. 31.03.2017.

3. Right of way

RoW problems are being faced in this line. Severe RoW problem is experienced in Maihar Tehsil of Satna District. Around 45 locations could not be taken up due to ROW problem and also around 11 nos. locations could not be done in Vaijayraghavgarh Tehsil of Katni District for the same ROW problem.

4. National Highway Proposal

1. Crossing section (AP 275-AP 276), NH12A : Proposal submitted on 28.07.2017 and approval is awaited.
2. Crossing section (AP 230-AP 231), NH 07 : Proposal submitted on 10/02/2017 and approval is awaited.

9. 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. Srikakulam 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.

Transformers bays : 2 nos.

Line bays: 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
Levellised 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		Initial Gazette notification done on 27th May 2016. Application submitted to CEA for grant of section 164 on 28 July 2016. After finalization of C'peta S/S location some more villages has been published newspaper 24.02.2017. Gazette publication of additional villages done.
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

Procurement activities initiated. Award placed in Mar'16 to M/s. KPTL. Tower packages awarded.

- Length: 552 cKm
- Locations: 729 nos.
- Foundation completed 451 nos.
- Towers erected 188 nos.
- Stringing completed 33 ckm
- Completion Target: Apr'19

Constraints

Severe RoW being faced. Work in about 110Kms portion in Krishna & Guntur Distt affected for want of increased compensation

2. Chilakaluripeta - Cudappah 765kV D/C Line

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

- Length: 610 cKm

- Locations: 763 nos.
- Foundation completed 508 nos.
- Towers erected 435 nos.
- Stringing 110 ckm
- Completion Target: Apr'19

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

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

- Length: 480 cKm
- Locations: 652 nos.
- Foundation completed 338 nos.
- Towers erected 194 nos.
- Stringing 14 ckm
- Completion Target: Feb'19

Constraint:

Severe RoW being faced in Karnataka portion of Line

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

Award placed in Mar'16 to M/s.Tata,Tower packages awarded.

- Length: 290 cKm
- Locations: 394 nos.
- Foundation completed 256 nos.
- Towers erected 195 nos.
- Stringing completed 23 ckm
- Completion Target: Feb'19

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

Award placed in Mar'16, Tower packages awarded.

- Length: 60 cKm
- Locations: 80 nos.
- Foundation completed 1 nos.
- Towers erected Nil
- Completion Target: Apr'19

6. 765/400kV Chilakularipeta Substation

Awarded to M/s GE T&D INDIA LTD

Land acquired : 100%

Civil work completed	:	12%
Equipment supplied	:	10%
Equipment erection	:	8%
Scheduled COD	:	Apr'19
Anticipated COD	:	Apr'19

7. Satenapalli (Narasaraopeta) 400 kV Substation extension

Awarded to M/s GE T&D INDIA LTD

Land acquired	:	100%
Civil work completed	:	10%
Equipment supplied	:	5%
Equipment erection	:	0%
Scheduled COD	:	Apr'19
Anticipated COD	:	Apr'19

Constraints if any: Nil

8. Garividi 400 kV Substation extension

Awarded to M/s GE T&D INDIA LTD

Land acquired	:	100%
Civil work completed	:	10%
Equipment supplied	:	5%
Equipment erection	:	0%
Scheduled COD	:	Apr'19
Anticipated COD	:	Apr'19

Constraints if any:

- a) **RoW issue:** Being resolved on case to case basis
- b) **Forest/Wildlife clearance issue:** Proposal submitted and under process.

10. Eastern Region Strengthening Scheme-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 (alongwith 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 PGCIL)
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	:	Application filed on 30-Mar-2017 before CERC
Tariff adoption by CERC	:	Application filed on 30-Mar-2017 before CERC
Contract Performance Guarantee	:	28-Mar-2017
Clearance u/s 164	:	Under Progress
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
- Completion Target: July'2020
- Length: 562 cKm
- Locations: 764 nos.

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

- Procurement activities initiated
- Award placed on 31.03.2017 to M/s. L&T
- Survey under progress
- Completion Target: July'2020
- Length: 300 cKm
- Locations: 401 nos.

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
- Completion Target: July'2020
- Length: 180 cKm
- Locations: 292 nos.

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

- Procurement activities initiated
- Award placed on 31.03.2017 to M/s. L&T
- Engineering under progress
- Completion Target: July'2020
- Length: 48 cKm
- Locations: 71 nos.

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

- Procurement activities initiated
- Award placed on 31.03.2017 to M/s. L&T
- Engineering under progress
- Completion Target: July'2020
- Length: 24 cKm
- Locations: 37 nos.

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

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

- Length: 168 cKm
- Locations: 237 nos.

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

- Award under progress
- Completion Target: July'2020

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

- Award under progress
- Completion Target: July'2020

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

- Award under progress
- Completion Target: July'2020

11. 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 be 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.(SGL)
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

12. 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 be 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 Grid 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 Sept 2015

13. 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 – Biharsharif 400 kV D/C line

General Details

Special Purpose Vehicle (SPV)	:	East-North Interconnection Company Ltd (A subsidiary of Sterlite Grid 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-Biharsharif 400 kV D/C (Q): Line commissioned on 09/2013

Transmission project commissioned on Nov, 2014

14. 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 Grid 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

Status of progress of transmission project

1. RAPP - Shujalpur 400kV D/C line

- Length: 402 cKm
- Locations: 521

Line Charged on 15th November 2016

Project Commissioned on Nov-16

15. 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 Grid 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
Anticipated Date of Completion	: Dec' 2016

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

16. Northern Region System Strengthening Scheme- NRSS-XXIX

Background

Presently the power supply to the valley is through Kishanpur – Wagoora 400 kV D/C line, Kishanpur- Pampore 220 kV D/C line and Udhampur – 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 Udhampur – 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 need 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 Grid 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) & 21.12.2015 (for Amargarh S/S)
Scheduled Date of Completion	:	04.10.2018

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: 562 Ckm .
- Locations: 760 nos
- Foundation completed 733 nos
- Towers erected 683 nos
- Stringing Completed 375 ckm
- Scheduled COD Oct'18
- Anticipated COD: Nov'17

Constraints/Approval if any:

- a) PTCC Clearance under process in CEA, PTCC Division.
- b) RoW Issue at Location No. 34/0 in Village Gazipur Kullian, Tehsil R.S. Pura, District Jammu. Help required from District Collector, Jammu for police protection so that work can be started.
- c) RoW Issue at Location Nos. 444, 445, 459 and 466 in District Budgam and Location Nos. 536, 542 and 543 in District Baramulla as land owners are asking for undue compensation and few land owners are not appearing in PNC Meetings. Help required from District Collector Budgam and Baramulla to resolve the issue at the earliest.
- d) Technical and Administrative Approval for felling of trees from Compartment No. Rb-16 in Shopian Forest Division and Felling of trees from Compartment No. 113 of Poonch Forest Division and also Marking of Trees is pending in Compartment No. Rb-15 in Hirpora wildlife Sanctuary and Rb-16 at Shopian Forest Division.
- e) Walnut tree assessment done for Tehsil Shopian, Pulwama, Khaansaheb, Beerwah, Khaagh & Kawarhama by Horticulture Officials. Delay in getting administrative approval for Walnut tree cutting permission for the above locations. Help required from District Collector Shopian, Pulwama, Budgam and Baramulla to expedite the process.
- f) Walnut tree assessment in Tehsil Chadoora and Chararishareef is under progress. Help required from District collector Budgam to expedite the process
- g) Aviation Clearance is pending with Air HeadQuarter, Vayu Bhawan, New Delhi
- h) Work is hampering due to unrest in Kashmir.

3. GIS at Amargarh 400/220 kV S/s

- Land acquired 100% .
- Civil wrk completed: 80%
- Equipment supplied 90%
- Equipment erection 17%
- Scheduled Date Oct'18
- Anticipated COD: Nov'17

Constraints/Approval if any:

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

- Length: 6 Ckm

- Locations: 23 nos.
- Foundation completed 14 nos.
- Towers erected 7 nos.
- Stringing Completed 0 nos.
- Scheduled Date Oct'18
- Anticipated COD: Sep'17

Constraints/Approval if any:

- RoW Issue at Location No. AP 2 as land owner is not allowing to construct a tower and at AP 9 & AP10 in Baramulla District as land owners are asking for undue compensation. Help required from District Collector, Baramulla to resolve the issue at the earliest.

17. 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 Grid Limited)
Bid Process Coordinator (BPC)	:	Rural Electrification Corporation
Estimated Cost (Rs. crs)	:	400
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

Status of progress of transmission project

1. Maheshwaram – Mahboobnagar 400 kV D/C line

- Length: 196.4 ckm
- Locations: 255 nos
- Foundation completed: 248 nos
- Tower erected: 244 nos
- Stringing completed: 169 cKm
- Scheduled COD Jun'18

- Anticipated COD July'17

Constraints/Approval if any:

- a) RoW issue: Yes (Facing Severe RoW Issue at Location no. 6/0, 7/0, 41/0, 42/0 and 43/0 in Tehsil Kandkoor, Pedamandadi and District Rangareddy, Wanaparthy)

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

- Length: 277.38 ckm
- Locations: 367 nos
- Foundation completed: 367 nos
- Tower erected: 367 nos
- Stringing completed: 276 cKm
- Scheduled COD Jun'18
- Anticipated COD: 12th July 2017

Constraints/Approval if any:

- a) Power Line crossing Approval pending with TSTRANSCO between location No. 51/0 – 52/0

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

- Land Acquired: 100%
- Civil work completed: 100%
- Equipment supplied: 100%
- Equipment erection: 92%
- Scheduled COD Jun'18
- Anticipated COD: July'17

Constraints/Approval if any:

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

- Land Acquired: 100%
- Civil work completed: 100%
- Equipment supplied: 100%
- Equipment erection: 100%
- Scheduled COD Jun'18
- Anticipated COD: Received Approval for Energisation certificate dated 15-05-2017

Constraints/Approval if any: nil

18. 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 Grid Limited)
Bid Process Coordinator (BPC)	:	Power Finance Corporation
Estimated Cost (Rs. crs)	:	1587
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 :	July'17

Status of progress of transmission project

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

- Length: 608 ckm
- Locations: 778 nos
- Foundation completed: 570 nos
- Tower erected: 460 nos
- Stringing completed: 124 ckm
- Scheduled COD: Aug'19
- Anticipated COD: Mar'18

Constraints/Approval if any:

- a)** RoW issue: Yes (Facing Severe RoW Issue in various Locations in District Durg, Baloda Bazar, Bhatapara, Janjgir, Champa Raigarh and Sundargarh)
- b)** Forest/Wildlife clearance issue: Yes (Forest Clearance proposal (94.656 Ha) pending with Nodal Officer, Govt. of Odisha, Bhubaneswar for non-availability of CA Land and Forest Clearance proposal (71.767 Ha) pending with Nodal Officer, Govt. of Chhattisgarh)
- c)** PTCC Clearance pending.

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

- Length: 102.5 ckm
- Locations: 152 nos
- Foundation completed: 152 nos
- Tower erected: 148 nos
- Stringing completed: 90 ckm
- Scheduled COD: Jul-17
- Anticipated COD: Aug-17

Constraints/Approval if any:

19. 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 Kadarpur, other at Sohna Road in Gurgaon area and 1 400kV substation at Prithala 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-Kadarpur 400 kV D/C HTLS line
3. Kadarpur-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 Kadarpur (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 Grid Limited)
Bid Process Coordinator (BPC)	:	Power Finance Corporation
Estimated Cost (Rs. crs)	:	1251
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	:	Sept'19 (38 months)
Anticipated Date of Completion	:	Mar'18

Status of progress of transmission project

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

- Length: 98.56 CKm
- Locations: 107 nos.
- Foundation completed: 7 nos.
- Tower erected: 0 nos
- Stringing completed: 0 nos
- Scheduled COD: May'19
- Anticipated COD: Mar'18

Constraints/Approval if any:

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

- Length: 54.9 Ckm
- Locations: 64 nos.
- Foundation completed: 0 nos
- Tower erected: 0 nos
- Stringing completed: 0 nos
- Scheduled COD: May'19
- Anticipated COD: Mar'18

Constraints/Approval if any:

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

- Length: 22.14 Ckm
- Locations: 30 nos.
- Foundation completed: 0 nos
- Tower erected: 0 nos
- Stringing completed: 0 nos
- Scheduled COD: Sep'19
- Anticipated COD: Mar'18

Constraints/Approval if any:

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'18

Constraints/Approval if any:

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

- Length: 93.26 Ckm
- Locations: 110 nos.
- Foundation completed: 72 nos.
- Tower erected: 19 nos.
- Stringing completed: 0 nos
- Scheduled COD: May'19
- Anticipated COD: Mar'18

Constraints/Approval if any:

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

- Land Acquired: Land acquisition under Process.
- Civil work completed:
- Equipment supplied:
- 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: 30%.
- Civil work completed:
- Equipment supplied:
- Equipment erection:
- Scheduled COD Sep'19
- Anticipated COD: Mar'19

Constraints/Approval if any:

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

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

Constraints/Approval if any:

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

- Land Acquired: Space is to be provided by HVPNL.
- Civil work completed:
- Equipment supplied:
- Equipment erection:
- Scheduled COD May'19
- Anticipated COD: Mar'18

Constraints/Approval if any:

20. 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 (SGL)
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 :	Acknowledgement Letter received on 08-06-2017
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 :	Feb 2018

Status of progress of transmission project

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

- Length: 13.556 CKm
- Locations: 20 nos.
- Foundation completed: 2 nos
- Tower erected: 0 nos
- Stringing completed: 0 nos
- Scheduled COD: Feb'18
- Anticipated COD: Feb'18

Constraints/Approval if any:

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/Approval if any:

3. System strengthening in WR

i. Khandwa Pool – Indore 765kV D/C line

- Length: 179.14 CKm
- Locations: 246 nos.
- Foundation completed: 74 nos.
- Tower erected: 14 nos.
- Stringing completed: 0 nos
- Scheduled COD: Jul'19
- Anticipated COD: Jul'18

Constraints/Approval if any:

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

- Length: 378.1 CKm
- Locations: 485 nos.
- Foundation completed: 82 nos.
- Tower erected: 19 nos.
- Stringing completed: 0 nos
- Scheduled COD: Jul'19
- Anticipated COD: Jul'18

Constraints/Approval if any:

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

- Land Acquired: 60%
- Civil work completed:
- Equipment supplied:
- Equipment erection:
- Scheduled COD Jul'19
- Anticipated COD: Jul'19

Constraints/Approval if any:

21. 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 (SGL)
Bid Process Coordinator	:	Rural Electrification Corporation
Estimated Cost (Rs. crs)	:	1260
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	:	

Execution plan submitted to CEA :
Scheduled Date of Completion : Mar/Jul/Nov 2020

Status of progress of transmission project

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

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

Constraints/Approval if any:

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

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

Constraints/Approval if any:

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

- Length:
- Locations:
- Foundation completed:
- Tower erected:
- Stringing completed:
- Scheduled COD: Jul'20
- Anticipated COD: Jul'19

Constraints/Approval if any:

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

- Length:
- Locations:
- Foundation completed:
- Tower erected:
- Stringing completed:
- Scheduled COD: Mar'20
- Anticipated COD: Jul'19

Constraints/Approval if any:

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

- Length:
- Locations:
- Foundation completed:
- Tower erected:
- Stringing completed:
- Scheduled COD: Mar'20
- Anticipated COD: Jul'19

Constraints/Approval if any:

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

- Length:
- Locations:
- Foundation completed:
- Tower erected:
- Stringing completed:
- Scheduled COD: Nov'20
- Anticipated COD: Jul'19

Constraints/Approval if any:

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

- Length:
- Locations:
- Foundation completed:
- Tower erected:
- Stringing completed:
- Scheduled COD: Mar'20
- Anticipated COD: Jul'19

8. Line bays

(a) 2 no. 400 kV line bays at Palatana GBPP switchyard for termination of Palatana - Surajmaninagar 400kV D/c line

- Land Acquired:
- Civil work completed:
- Equipment supplied:
- Equipment erection:
- 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:
- Civil work completed:
- Equipment supplied:
- Equipment erection:
- 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:
- Civil work completed:
- Equipment supplied:
- Equipment erection:
- 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 (Arunachal Pradesh)

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

Constraints/Approval if any:

22. Eastern Region System Strengthening Scheme-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

Status of progress of transmission project

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

Transmission Line successfully charged and presently in commercial operation.

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

- Length: 151.558 ckm
- Locations: 210 nos.
- Foundation completed: 210 nos.
- Tower erected: 210 nos.
- Stringing completed: 151.558 Ckm

Taping work for LILO of CKT II of 400 kV D/C Barh-Gorakhpur Transmission Line is completed and for CKT I is scheduled from 2nd Aug 2017.

Ckt II of 400 kV D/C Motihari – Gorakhpur Line charged on 31st July 2017 and Ckt II of 400 kV D/C Motihari – Barh Line will be charged on 1st 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.

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

- Land acquired 100%
- Civil work completed 100%
- Equipment supplied 100%
- Equipment erected 100%

400 kV GIS Substation charged on 31st July 2017.

23. 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	:	Mar 2017

Kurukshetra - Malerkotla 400 kV D/C line charged in Jan 2017.
Malerkotla-Amritsar 400 kV D/C line charged in Mar 2017.

Project Commissioned on Mar-17

24. 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	:	29.09.16
Tariff adoption by CERC	:	30.08.16

Contract Performance Guarantee	:	01.07.2016
Clearance u/s 164	:	Proposal for approval submitted to CEA on 27.02.2017.
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

Transmission Line:

- 1) Order for Transmission line tower package is awarded.
- 2) Designing work of 765 kV D/C Transmission Line is completed.
- 3) Transmission Line route alignment and detailed survey work is completed.
- 4) Contractor will mobilize at site in Aug 2017 for line execution work.
- 5) Online Forest Proposals of below transmission lines submitted on 27th July 2017:
 - a) 765 kV D/C Warora Pool - Warangal (New) Transmission Line.
 - b) 765 kV D/C Warangal (New) – C’Peta Transmission Line

Substation:

- 1) Land identified and registration for the same has started.
- 2) Order for Substation package is awarded.
- 3) Substation basic design & engineering work is in progress.

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

Land Acquired:	Land for S/s identified and land documents are being collected from land owners.
Civil work completed:	
Equipment supplied:	
Equipment erection:	
Scheduled COD:	Nov'19
Anticipated COD:	Nov'19

Constraints/Approval if any:

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

- Length:
- Locations:
- Foundation completed:
- Tower erected:
- Stringing completed:

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

Constraints/Approval if any:

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

- Length:
- Locations:
- Foundation completed:
- Tower erected:
- Stringing completed: Nov'19
- Scheduled COD:
- Anticipated COD: Nov'19

Constraints/Approval if any:

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

- Length:
- Locations:
- Foundation completed:
- Tower erected:
- Stringing completed:
- Scheduled COD: Nov'19
- Anticipated COD: Nov'19

Constraints/Approval if any:

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

- Length:
- Locations:
- Foundation completed:
- Tower erected:
- Stringing completed:
- Scheduled COD: Nov'19
- Anticipated COD: Nov'19

Constraints/Approval if any:

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

- Length:
- Locations:
- Foundation completed:
- Tower erected:
- Stringing completed:
- Scheduled COD: Nov'19
- Anticipated COD: Nov'19

Constraints/Approval if any:

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:
- Civil work completed:
- Equipment supplied:
- Equipment erection:
- Scheduled COD: Nov'19
- Anticipated COD: Nov'19

Constraints/Approval if any:

25. System strengthening in northern region (NRSS XXXVI) along with LILO of Sikar-Neemrana 400 kV D/C line at Babai (RRVNL)

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 RRVNL 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 (RRVNL) – Bhiwani (PG) D/C line – 248.61 ckm.
5. 4 Nos. of bays at 400 kV Babai (RRVNL) substation

General Details

Special Purpose Vehicle (SPV)	:	NRSS XXXVI Transmission Limited
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	:	Proposal submitted to CEA on 12.05.2017
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. Koteshwar Pooling Station - Rishikesh 400kV D/C (HTLS) line

The route alignment & detailed survey is completed.

- Length: 83.152 CKm

- Locations:
- Foundation completed:
- Tower erected:
- Stringing completed:
- Scheduled COD: Dec'19
- Anticipated COD:

Constraints/Approval if any: DGPS survey work in progress.

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:

Constraints/Approval if any:

3. LILO of one ckt of 400 kV D/c Sikar (PG) – Neemrana (PG) line at Babai

The route alignment & detailed survey is completed. LILO point & tapping arrangement confirmed by PGCIL on 17th May 2017. Tower Package contractor mobilized at site.

- Length: 2.922 CKm
- Locations: 06 nos.
- Foundation completed: 06 nos.
- Tower erected: 4 nos.
- Stringing completed: 0 nos.
- Scheduled COD: Dec'16
- Anticipated COD: Aug '17

Constraints/Approval if any: NOC from Forest Deptt received. Proposal submitted on 16th May 2017. Site visit done on 29th July 2017.

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

The route alignment & detailed survey is completed.

- Length: 248.61 CKm
- Locations:
- Foundation completed:
- Tower erected:
- Stringing completed:
- Scheduled COD: Jun'19
- Anticipated COD: Jun'19

Constraints/Approval if any: Haryana - Forest Proposal submitted on 15th May 2017. Rajasthan – DGPS survey work in progress.

5. 4 Nos. 400 kV bays at Babai (RRVPNL) substation

- Land Acquired: 100%
- Civil work completed: 90%
- Equipment supplied:
- Equipment erection: 90% gantry structures erected
- Scheduled COD Dec'16/Jun'19
- Anticipated COD:

Constraints/Approval if any:

26. 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	:	Mar'18

- Completion of associated 765kV bays at Bilaspur to be matched with line schedule.
- Heavy rain in Chhattisgarh area affecting progress.

Status of progress of transmission project

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

- Length: 24 ckm
- Locations: 73 nos
- Foundation completed: 68 nos
- Tower erected: 50 nos
- Stringing completed: 11.8 cKm
- Schedule completion: 22.11.2018
- Anticipated completion: Dec'17

Constraints if any:

- a) RoW issue: Severe ROW being faced and taken up on case-to-case basis.
- b) Forest/Wildlife clearance issue: Nil

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

- Length: 322 ckm
- Locations: 428 nos
- Foundation completed: 427 nos
- Tower erected: 378 nos
- Stringing completed: 231 cKm
- Schedule completion: 22.03.2019
- Anticipated completion: Mar'18

Constraints if any:

- a) RoW issue: Severe ROW being faced and taken up on case-to-case basis
- b) Forest/Wildlife clearance issue: Nil
- c) Delay in availability of 33KV & 11KV shutdown affecting stringing.

3. 765 kV Bay at Sipat s/s

- Schedule completion: 22.11.2018
- Actual completion: 30.05.2017 (charged)

Constraints if any:

27. 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 Transmission 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	:	Jun'18

- Completion of associated upstream Substation / Bay at Raipur and downstream Substation / Bay at New Warora to be matched with completion of lines.
- Heavy rain in Chhattisgarh & Maharashtra area affecting progress.

Status of progress of transmission project

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

- Length: 80 ckm
- Locations: 104 nos
- Foundation completed: 104 nos
- Tower erected: 104 nos
- Stringing completed: 79.4 cKm
- Schedule completion: 22.11.2018
- Actual completion: May'2017 (works completed)

Constraints if any:

- a) RoW issue: Nil
- b) Forest/Wildlife clearance issue: Nil
- c) PTCC proposal submitted on 13.09.2016 and approval awaited.

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

- Length: 532 ckm
- Locations: 687 nos
- Foundation completed: 536 nos
- Tower erected: 433 nos
- Stringing completed: 188.6 cKm
- Schedule completion: 22.11.2018
- Anticipated completion Mar'18

Constraints if any:

- a) RoW issue: Severe ROW being faced and taken up on case-to-case basis
- b) Forest/Wildlife clearance issue: Forest approval awaited
- c) Delay in availability of 33KV & 11KV shutdown affecting stringing.

3. 765 kV Rajnandgaon switching station

- Land acquired: 100%
- Equipment supplied 99%
- Construction 93%
- Schedule completion 22.11.2018
- Anticipated completion Nov'17

Constraints if any:

28. 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 Power 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	:	Jul'18

- Completion of associated Substation / Bay at Gwalior, Vindhyachal, Pune, Raigarh, Champa and Dharamjaigarh to be matched with line schedule.
- Heavy rain in Chhattisgarh, Maharashtra & Madhya Pradesh area affecting progress

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: 96 ckm
- Locations: 145 nos
- Foundation completed: 145 nos
- Tower erected: 145 nos
- Stringing completed: 94.4 cKm
- Schedule completion 22.05.2018
- Anticipated completion Oct'17

Constraints if any:

- a) RoW issue: Severe ROW being faced and taken up on case-to-case basis
- b) Forest/Wildlife clearance issue: Nil
- c) Delay in availability of 11 kV/33 kV shutdown affecting stringing.
- d) PTCC proposal submitted in Sep'16 and approval awaited.

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

- Land acquired: 100%
- Equipment supplied 55%
- Construction 42%
- Schedule completion 22.05.2018
- Anticipated completion Jan'18

Constraints if any:

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 ckm
- Locations: 87 nos
- Foundation completed: 85 nos
- Tower erected: 80 nos
- Stringing completed: 40.7 cKm
- Schedule completion 22.01.2019
- Anticipated completion: Jan'18

Constraints if any:

- a) RoW issue: Severe ROW being faced and taken up on case-to-case basis
- b) Forest/Wildlife clearance issue: Nil
- c) Delay in availability of 11 kV/33 kV shutdown affecting stringing.

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

- Schedule completion 22.01.2019
- Anticipated completion Jan'18

Constraints if any:

1. Permission to start construction work at NTPC Switchyard received on 29.09.2016.
2. Permission for Storage Area received on 05.09.2016.
3. Shutdown request submitted to NTPC on 03.06.2017, same was not approved. Revised shutdown request submitted on 24.07.2017 to NTPC; approval awaited.

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

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

- Length: 06 ckm
- Locations: 22 nos
- Foundation completed: 21 nos
- Tower erected: 12 nos
- Stringing completed: 1.45 cKm
- Schedule completion 22.11.2018
- Anticipated completion Dec'17

Constraints if any:

- a) RoW issue: Severe ROW being faced and taken up on case-to-case basis
- b) Approval of Reliance Power on the RoW for the line terminating at Sasan Switchyard received on 10.08.2016.
- c) Forest/Wildlife clearance issue: nil

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

- Length: 94 ckm
- Locations: 255 nos
- Foundation completed: 218 nos
- Tower erected: 194 nos
- Stringing completed: 54 cKm
- Schedule completion 22.11.2018
- Anticipated completion Mar'18

Constraints if any:

- a) RoW issue: Severe ROW being faced and taken up on case-to-case basis
- b) Forest/Wildlife clearance issue: Nil

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

- Length: 49 ckm
- Locations: 150 nos
- Foundation completed: 122 nos
- Tower erected: 112 nos
- Stringing completed: 19.45 cKm
- Schedule completion 22.11.2018
- Anticipated completion Mar'18

Constraints if any:

- a) RoW issue: Severe ROW being faced and taken up on case-to-case basis.
- b) Forest/Wildlife clearance issue: Nil

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

- Length: 128 ckm
- Locations: 179 nos
- Foundation completed: 83 nos
- Tower erected: 44 nos
- Stringing completed: 1 cKm
- Schedule completion 22.03.2019
- Anticipated completion Jul'18

Constraints if any:

- a) RoW issue: Severe ROW being faced and taken up on case-to-case basis.
- b) Forest/Wildlife clearance issue: Nil

(iv) 765 kV bays at Sasan UMPP

- Schedule completion 22.11.2018
- Anticipated completion Dec'17

Constraints if any:

- a) Work permit from Sasan UMPP received on 02.06.2016.
- b) Shutdown request as per earlier two requests not provided by Reliance; hence, submitted third proposal on dated: 30.06.2017 (Main Bus-II 11.08.2017 to 12.08.2017 and Main Bus-I from 16.08.2017 & 17.08.2017)

29. 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.
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	:	to be re-worked upon receipt of NOC

- NOC from Central Coalfield Ltd. / Ministry of Coal awaited which in turn is affecting survey and finalization of line route, Financial Closure, Forest Proposal and enabling works at site.

Status of progress of transmission project:

North Karanpura – Chandwa (Jharkhand) Pooling Station 400kV D/c line

- Length (as per original route): 63 Ckm
- Locations (as per original route): 112 nos
- Foundation completed: 04 nos
- Tower erected: 00 nos
- Stringing completed: 0 Ckm
- Schedule completion date: Sep 2017

Constraints if any:

- a) CCL & CMPDI disallowed construction on BPC route, hence work had to be stopped. CCL/CMPDI had suggested a route which involved multi-circuit towers and required pile foundations having huge time and cost overrun implications on the project. During meeting held by CEA on 12.05.2017; CMPDI/CCL had agreed to reevaluate the REC routes if NKTL gives an undertaking that line shall be decommissioned after 35 years. Undertaking has been submitted to CMPDI / CCL on 15.05.2017 and 16.05.2017. NOC still awaited continuing Force Majeure situation.

North Karanpura – Gaya 400kV D/c line

- Length (as per original route): 185 Ckm
- Locations (as per original route): 265 nos
- Foundation completed: 31 nos
- Tower erected:
- Stringing completed:
- Schedule completion date: Sep 2019

Constraints if any:

- a) CCL & CMPDI disallowed construction on BPC route, hence work had to be stopped. CCL/CMPDI had suggested a route which involved multi-circuit towers and required pile foundations having huge time and cost overrun implications on the project. During meeting held by CEA on 12.05.2017; CMPDI/CCL had agreed to reevaluate the REC routes if NKTl gives an undertaking that line shall be decommissioned after 35 years. Undertaking has been submitted to CMPDI / CCL on 15.05.2017 and 16.05.2017. NOC still awaited continuing Force Majeure situation.

Establishment of 400/220 kV, 2x500 MVA sub-station at Dhanbad

- Land acquired: 0%
- Civil works completed 0%
- Equipment supplied 0%
- Equipment erected 0%
- Schedule completion 07.05.2019

LILo of both circuits of Ranchi – Maithon-RB 400kV D/c line at Dhanbad

- Length: 2.4 Ckm
- Locations:
- Foundation completed:
- Tower erected:
- Stringing completed:
- Schedule completion date: 07.05.2019

30. 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

Status of progress of transmission project

1. Kudgi TPS – Narendra 400 kV 2xD/C line (I&II) - Line 1&2 completed 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 24th August 2016

Project Commissioned on Sep-16

31. 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 Conductor)

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)	:	540
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

Land acquired: 100%
Civil works completed 100%
Equipment supplied 100%
Equipment erected 100%
Actual date of commissioned May'17

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.

Project Commissioned on May 2017

32. 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
Request for Qualification	:	
Request for Proposal	:	
Letter of Intent	:	
Transmission Service Agreement	:	
SPV acquisition	:	7.1.2011
Transmission License	:	
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	:	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

Project commissioned on 30.06.2014

33. Trans. 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: 326
- Foundation completed: 98 (4 Nos Pile Locations Completed)
- Tower erected: 15

- Stringing completed: cKm
- Schedule Target date: Mar-19
- Anticipated Target date:

Constraints if any:

- 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.

Status of Statutory Clearance Proposals:

Type of Crossing	Nos. of Crossing	Proposal Status					
		Proposal Submission Status		Inspection Status		NOC Receipt Status	
		Submitted	Bal for Submission	Completed	Balance	Completed	Balance
Power Line	21	11	10	11	10	3	18
Railway Crossing	2	0	2	0	2	0	2
Highway Crossing	3	3	0	2	0		3
Gross Total	26	14	12	8	18	3	23

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

- Length: 418 ckm
- Locations: 542
- Foundation completed: 306 (4 nos pile done below ground level)
- Tower erected: 129
- Stringing completed: cKm
- Schedule Target date: Mar-19
- Anticipated Target date:

Status of Statutory Clearance Proposals:

Type of Crossing	Nos. of Crossing	Proposal Status					
		Proposal Submission Status		Inspection Status		NOC Receipt Status	
		Submitted	Bal for Submission	Completed	Balance	Completed	Balance
Power Line	9	0	9	0	9	0	9
Railway Crossing	3	0	3	0	3	0	3
Highway Crossing	5		5		5		5
Gross Total	17	0	17	0	17	0	17

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

- Land acquired:
- Civil works completed
- Equipment supplied
- Equipment erected
- Schedule COD Mar '19
- Anticipated COD

Constraints if any:

34. 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. Beri – 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, 2x500 MVA s/s at new Kohima

400 kV

ICTs: 400/220 kV, 2x500 MVA

ICTs bays: 2 nos.

Line bays: 4 nos.

Bus Reactor: 2x12 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	:	
Transmission Service Agreement (TSA)	:	
SPV acquisition	:	31.03.2017
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	:	Jul'20
Anticipated Date of Completion	:	Jul'20

Status of progress of transmission project

1. Establishment of 400/220 kV, 2x500 MVA s/s at new Kohima

- Land acquired:
- Civil works completed
- Equipment supplied
- Equipment erected
- Schedule COD Jul'20
- Anticipated COD

Constraints if any:

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

- Length:
- Locations:
- Foundation completed:
- Tower erected:
- Stringing completed:
- Schedule COD: Jul'20
- Anticipated COD

Constraints if any:

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

- Length:
- Locations:
- Foundation completed:
- Tower erected:
- Stringing completed:
- Schedule COD: Jul'20
- Anticipated COD

Constraints if any:

35. 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	:	16.05.2018

Status of Progress of transmission project

- EPC contract signed, detailed survey completed
- Received Sanction Letter for the senior debt from the lender (IDBI Bank).
- Engineering design completed
- Tower manufacturing started
- Proposal preparation ongoing for crossings (rail, road, power lines etc) in order to get its approval from applicable authority.
- Cadastral survey as required for starting the RoW activity is completed.
- Reviewing the execution plan to proceed as per the updated situation, as required before initiating any construction work at site
- 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.

36. 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 Karanpurahave 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 – Seoni400 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 19th July 2017.

37. 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-Behrapur- Gazuwaka 400 kV D/C line with series compensation and switching station at Behrapur 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 – Behrapur 400 kV D/C line
3. Behrapur- Gazuwaka 400 kV D/C line
4. 2x315 MVA, 400/220 kV Behrapur 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 – Behrapur 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 19th July 2017.

Transmission Projects under Bidding Process

1. 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

Bidding process under progress

2. Eastern Region Strengthening Scheme XXI

At the end of 13th plan period i.e. 2021-22 considering load demand of Bihar as 11000MW. The studies recommended establishment of two 400/220/132kV sub-stations in North Bihar at Sitamarhi and Saharsa and one 400/220/132kV sub-station in South Bihar at Chandauti (Gaya) along with augmentation of 400/132kV Motihari S/s of Essel Infra by 315MVA in the ISTS network.

Scope of transmission project

1. Establishment of 400/220/132 kV, 2x500 MVA + 2x200 MVA S/s at Sitamarhi (New)
2. Establishment of 400/220/132 kV, 3x500 MVA + 3x200 MVA S/s at Chandauti (New)
3. Establishment of 400/220/132 kV, 2x500 MVA + 2x200 MVA S/s at Saharsa (New)
4. Substation extension at Darbhanga S/s
5. Substation extension at Motihari S/s
6. Darbhanga - Sitamarhi (New) 400kV D/c line with Triple Snowbird conductor
7. Sitamarhi (New) - Motihari 400kV D/c line with Triple Snowbird conductor
8. LILO of both circuits of Nabinagar-II - Gaya 400kV D/c (Quad Moose) line of POWERGRID at Chandauti (New)
9. LILO of Kishanganj - Patna 400kV D/c (Quad Moose) line of POWERGRID at Saharsa (New)

General Details

Special Purpose Vehicle	:	ERSS XXI Transmission Limited
Bid Process Coordinator (BPC)	:	Rural Electrification Corporation
Estimated Cost (Rs. Crs)	:	1321
Request for Qualification	:	28.12.2016
Request for Proposal	:	28.03.2017
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

Bidding process under progress

3. 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 Details

Special Purpose Vehicle	:	WR-NR Power Transmission Limited
Bid Process Coordinator (BPC)	:	Rural Electrification Corporation
Estimated Cost (Rs. Crs)	:	916
Request for Qualification	:	28.12.2016
Request for Proposal	:	28.03.2017
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

Bidding process under progress

4. Additional 400kV Feed to Goa and Additional System for Power Evacuation from Generation Projects pooled at Raigarh (Tamnar) Pool

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
Request for Qualification	:	01.02.2017
Request for Proposal	:	01.05.2017
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	:	
NIT issued on	:	
EPC contract awarded on	:	
Scheduled Date of Completion	:	
Anticipated Date of Completion	:	

Status of progress of transmission project

Bidding process under progress

5. Transmission System for Ultra Mega Solar Park in Fatehgarh, Distt. Jaisalmer Rajasthan

Scope of transmission project

1. Establishment of 400kV Pooling Station at Fatehgarh (with a provision to upgrade at 765 kV level)
2. 765 kV Fatehgarh Pooling sub-station - Bhadla (PG) D/C line (initially 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
5. Space for future 220 kV (6 Nos), 400 kV (6 Nos) and 765 kV (4 nos.) line bays along with line reactors at Fatehgarh Pooling station
6. Space for future 220/400 kV transformers (2 nos.), 400/765 kV transformers (2 nos) along with associated transformer bays at each level
7. Space for future 765 kV bus reactor 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	:	
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

Bidding process under progress

6. Connectivity and Long Term Access (LTA) to HPPCL 450 MW from Shongtong Karcham HEP

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)	:	318
Request for Qualification	:	11.05.2017 ; Extended to 18.05.2017
Request for Proposal	:	09.08.2017
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

Bidding process under progress

7. 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)	:	245
Request for Qualification	:	01.10.2014
Request for Proposal	:	12.01.2015
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

LOI issued to Essel Infraprojects Ltd. but SPV could not be acquired due to non-signing of Transmission Service Agreement (TSA) by LTTCs.