



**Monthly progress Report of  
Transmission Projects awarded  
through  
Tariff Based Competitive Bidding  
(TBCB) Route  
(Under Construction Projects)  
(As on 31.12.2020)**

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

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<b>Total Transmission Projects</b>	<b>:</b>	<b>54</b>
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# 1) 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).
- Jeerat (New) – Subhasgram 400kV D/c line (ACSR Quad Moose)
- Jeerat (New) – Jeerat (WBSETCL) 400kV D/c line (ACSR Quad Moose)
- LILO of both circuits of Chandithala – Kharagpur 400kV D/c line at Medinipur.
- LILO of Jeerat (WBSETCL) – Subhasgram (PG) 400kV S/c section at Rajarhat (POWERGRID) [Line deleted from scope]

### **Substation:**

#### **(1) Establishment of 765/400kV, 2x1500MVA substation at Medinipur**

### **765kV**

- ICTs: 7x500 MVA, 765/400kV (1 spare unit)
- ICT bays: 2 no.
- Line bays: 4 no.
- Bus reactor: 7x110 MVAR single phase units including one (1) spare unit
- Bus reactor bay: 2 no.
- Space for future line bays (along with space for switchable line reactor): 4 no.
- Space for future ICT bays: 2 no.
- Space for future 765/400 kV ICT: (6x500MVA single phase units)

### **400kV**

- ICT bays: 2 no.

- Line bays: 4 no.
- Bus reactor: 2×125 MVAR
- Bus reactor bay: 2 no.
- Space for future line bays (along with space for switchable line reactor): 6 no.
- Space for future ICT bays: 2 no.

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

### **765kV**

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

Special Purpose Vehicle (SPV)	:	Powergrid Medinipur-Jeerat Transmission Limited (A subsidiary of POWERGRID)
Bid Process Coordinator (BPC)	:	Power Finance Corporation
Estimated Cost	:	₹ 3994 Cr
Levelling Tariff	:	₹ 498.652 Cr
Request for Qualification	:	14-Jun-2016
Request for Proposal	:	06-Oct-2016
Letter of Intent	:	21-Feb-2017
Transmission Service Agreement (TSA)	:	17-Nov-2016
SPV acquisition	:	28-Mar-2017
Transmission License by CERC	:	20-June-2017
Tariff adoption by CERC	:	12-June-2017
Contract Performance Guarantee	:	28-Mar-2017
Clearance u/s 164	:	15- Feb-2018
Execution plan submitted to CEA	:	2-June-2017
NIT issued on	:	02-Nov-2016
EPC awarded on	:	31-Mar-2017
Scheduled Date of Completion	:	28-Jul-2020
Anticipated Date of Completion	:	Feb-2021

## **Status of progress of transmission project:**

### **1. Ranchi – Medinipur 765kV D/C line**

Award placed on 31.03.2017 to M/s L&T

- Length : 269 Km
- Locations : 718 nos.
- Foundation completed : 718 nos.
- Towers erected : 718 nos.
- Stringing : 269 Km
- Scheduled COD : July' 2020
- Anticipated COD : Jan' 2021

**Line Anti theft charged from Ranchi end. However, commissioning matching with readiness of Medinipur S/S (ant. by Jan'21).**

### **Forest :**

Details of Tr. Line Falling under Forest: Length: 10.40 kms

Forest area affected (ha) : 69.7 km

Forest proposals submitted on:

**Jharkhand portion:** - 6.45 Km (43.26 ha.). The proposal had been submitted on 12.04.18. **Stage-I approval obtained on 22.08.2019. Working permission received in Dec'19.** Tree cutting permission received in Jan'20.

**West Bengal portion:** - 3.95 km (26.526 ha.). Revised proposal had been submitted on 30.06.2018. It was further found that there is an involvement of 2.66 km (17.87 Ha) forest land only & accordingly the compliance statement had been prepared and submitted to forest department on 25.08.18. Stage-I approval obtained on 16.01.19. **Working permission obtained on 14.03.19 & 18.03.19. Stage-II approval received on 06.03.2020.**

### **Power line crossing (66kV and above)**

Total no. of crossings	:	14	nos.	
Proposal submitted	:	07	nos.	Date: 26.03.18
		06	nos.	Date: 23.04.18
		01	no.	Date: 10.07.18
Approval obtained (WB+JH)	:	14	nos.	[7 nos (WB) on 19/6, 21/8, 27/7, 29/8, 8/5/18 & 2 nos. on 9/8/18]

### **Railway crossing**

Total no. of crossings	:	04	nos.	+ 01 No. (Proposed line)
Proposal submitted	:	01	no.	Date: 16.03.18
		02	no.	Date: 26.03.18
		01	no.	Date: 22.06.18
Approval obtained	:	04	nos.	[ 29/09/18, 5/11/18 & 31/12/18 ]

### **National Highway Crossing**

Total no. of crossings	:	05	nos.	
Proposal submitted	:	01	no.	Date: 15.03.18
		02	nos.	Date: 26.03.18

		01	no.	Date: 21.06.18
		01	no.	Date: 23.07.18
Approval obtained	:	05	no.	[06/08, 06/09 & 16/11/18]
<b>River Crossings</b>				NIL
<b>PTCC approval</b>	:			09.05.18 Online submission for Jharkhand Approved for West Bengal. Approval obtained 27.12.2019
<b>Defence/Civil Aviation</b>	:			Proposal submitted on 25.09.18. Approved with comments.

**Constraints being faced during execution:**

1. Work affected due to COVID-19 pandemic.
2. Work affected by Cyclone Amphan on in May'20.
3. Route diverted due to non felling of 3 Sarna (Puja) trees in Jharkhand portion of the line. Three new towers to be placed.

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

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

- Length: 169 Km
  - Locations: 461 nos.
  - Foundation completed 459 nos.
  - Towers erected 450 nos.
  - Stringing completed 144 Km
- Scheduled COD July' 2020  
Anticipated COD Jan' 2021

**Constraints where Project Authority requires intervention:**

**Status of statutory approvals:**

**Forest:** Nil

**Power line crossing (66kV and above)-**

Total no. of crossings	:	18	nos.	
Proposal submitted	:	10	nos.	Date: 26.03.18
		03	nos.	Date: 13.04.18
		01	nos.	Date: 24.04.18
		01	nos.	Date: 12.05.18
		01	nos.	Date: 14.09.18
Approval obtained	:	18	nos.	Approval obtained in Jun-Nov'18

**Railway crossing**

Total no. of crossings	:	05	nos.	
Proposal submitted	:	05	nos.	Date: 26.03.18 & 27.03.18.
Approval obtained	:	05	nos.	

**National Highway Crossing**

Total no. of crossings	:	02	nos.	
Proposal submitted	:	01	nos.	Date: 26.03.18

Approval obtained	:	01 nos. Date: 25.05.18
	:	02 nos. Date: {07/12/18 & 04/01/19 }
<b>River Crossings</b>	:	01 No. Proposal submitted on 22/01/19. Approved
<b>PTCC approval</b>	:	Approved.
<b>Defence/Civil Aviation</b>	:	Proposal submitted on 25.09.18. Approved with comments.

**Constraints being faced during execution:**

1. Work affected due to COVID-19 pandemic.
2. Work affected by Cyclone Amphan in May'20.

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

(Award placed on 31.03.2017 to M/s. L&T)

- Length: 107 Km
- Locations: 312 nos.
- Foundation 178nos .
- Tower erection 133 nos.
- Stringing 8kms

Scheduled COD	July'2020
Anticipated COD	Feb'2021

**Status of statutory approvals:**

**Forest:** Nil

**Power line crossing (66kV and above)**

Total no. of crossings	:	11 nos.
Proposal submitted	:	11 nos. Date: 3 nos. each in Jul & Nov'18
Approval obtained	:	09 nos. Date: 3 nos each in Sep & Nov'18

**Railway crossing**

Total no. of crossings	:	03 nos.
Proposal submitted	:	03.
Approval obtained	:	01

**National Highway Crossing**

Totalno. of crossings	:	01 nos.
Proposal submitted	:	01 nos.
Approval obtained	:	NIL (at final stage)

<b>River Crossings</b>	:	NIL
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**Constraints being faced during execution:**

1. Work affected due to COVID-19 pandemic
2. Work affected by Cyclone Amphan in May'20.

**Constarints where Project Authority requires intervention:**



1. **PTCC approval** :Submitted.
2. **Defence/Civil Aviation** :Online Proposal submitted.
3. Severe RoW being faced. Administration support required for clearance of fronts. Letter written to Chief Secretary, Govt of West Bengal seeking help in resolution of RoW

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

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

- Length: 25.58 Km
- Locations: 81 nos.
- Foundation completed: 81 nos.
- Tower Erection 81 nos.
- Stringing 25.41 Km
- Scheduled COD : July' 2020
- Anticipated COD : Jan' 2021

**Physical work of the line completed. Commissioning matching with the Completion of Jeerat Substation.**

**Status of statutory approvals:**

**Forest:** NIL

**Power line crossing (66kV and above)**

Total no. of crossings	:	07	nos.	
Proposal submitted	:	04	nos.	Date: 06.04.18
		01	nos.	Date: 13.04.18
		02	nos.	Date: 26.05.18
Approval obtained	:	04	nos.	Date: Jul'18
		01	nos.	Date: Aug'18
		02	nos.	Date: Dec'18

**Railway crossing** NIL

**National Highway Crossing** NIL

**River Crossings** NIL

**PTCC approval:** Proposal submitted on 02.06.18. Approval received.

**Defence/Civil Aviation:** Proposal submitted on 11.09.18. Approved with comments.

**Constraints being faced during execution:**

1. Work has been affected due to COVID-19 pandemic.
2. Work affected by Cyclone Amphan in May'20.

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

(Award placed on 31.03.2017 to M/s. L&T)

- Length : 12 Km
- Locations : 37 nos.
- Scheduled COD : Jul' 20

**Status:** Scope Deleted vide CEA letter dated 04.04.18.

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

(Award placed on 31.03.2017 to M/s. L&T)

- Length : 74 Km
- Locations : 199 Nos.
- Foundation completed : 199 Nos.
- Towers erected : 199 Nos.
- Stringing : 74 Km
- Scheduled COD : July' 2020
- Anticipated COD : Jan' 2021

**Physical work of the line completed, However final connection for Charging of 400kV D/C Chandithala-Kharagpur WBSETCL line shall be done after availing shutdown and readiness of the Medinipur substation by Jan'21..**

Status of statutory approvals:

**Forest:** 0.108 Km (0.497 ha.). The proposal had been submitted on 02.07.2018. Stage-I approval obtained on 16.01.19. Working permission obtained on 14.03.19 & 18.03.19. Stage-I compliances has been submitted on 16.07.19. Stage-II approval received on 06.03.2020.

**Power line crossing (66kV and above)**

Total no. of crossings	:	02	Nos.
Proposal submitted	:	02	Nos. Date: 19.03.18
Approval obtained	:	02	Nos. Date: 18/05, 3/8/18

**Railway crossing** : NIL

**National Highway Crossing** : NIL

**River Crossings** : NIL

**PTCC approval** : Approval received 27.12.19

**Defence/Civil Aviation:** Proposal submitted on 11.09.18. Approved with comments.

**Constraints being faced during execution:**

1. Work has been affected due to COVID-19 pandemic.
2. Work affected by Cyclone Amphan in May'20.

Issue faced -

The routes for 765 kV D/C Ranchi (New) - Medinipur Line and LILO of both ckt. of 400 kV D/C Chandithala - Kharagpur Line at Medinipur transmission lines are aligned maintaining the safe distance from the Air Force Station Kalaikunda located near Kharagpur in WestMedinipur District in West Bengal and the nearest Flight Rules as per the tower is located beyond 40.92 Kms distance from the Air Force Station which is more than the requirement of 20 Km for Visual Aviation Regulations.

Applications for issuance of NOC were again submitted to the Station Commander, KalaikundaAir Traffic Station on 21<sup>st</sup> February, 2019 and 30<sup>th</sup> April, 2019 for LILO of Chandithala - Kharagpur Line and Ranchi (New) - Medinipur Line respectively. Thereafter, CATCO Shillong office issued the NOCs vide their letters dated 10<sup>th</sup> May, 2019 and 28<sup>th</sup> June, 2019 with the conditions that Markers and Day/Night Aviation Obstruction Lights (in combination of medium & low intensity Type B) shall be installed on all towers.

The total number of towers in these two transmission lines is 916 nos. for 342 km combined route length. As installation of Markers and Day/Night Aviation Obstruction Lights is not mandated according to regulations due to the distance of the nearest tower from the airport being more than 40.95 kms.POWERGRID had submitted request for waiver of providing the day/night aviation obstruction light vide letter dated 19<sup>th</sup> August, 2019 & 13<sup>th</sup> June, 2019. However, CATCO Shillongofficevide letter dated 24<sup>th</sup> October, 2019 & 26<sup>th</sup> July, 2019 reiterated the already issued NOC letters.

Considering the fact that requirement being not mandatory as per regulation and the Cost implication/time required for entire line, the matter has been taken with Aviation Head Quarter, IAF, VayuBhawan, New Delhi vide letter dated 05.06.2020 for necessary direction in this regard and is being followed up regularly.

Vide letter dated 06.08.2020 CATCO shillong informed that the issue wrt provisioning of Cable markers and Medium Intensity type B lights on transmission line towers was taken up with Air head quarters (VayuBhawan) New Delhi. Air HQ intimated that Cable Markers and Day/Night aviation obstruction light to be placed on all towers, even beyond 10 kms from the Air force station.

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

(Award placed on 29.09.2017 to M/s BHEL)

Land acquired	:	100 %
Civil work completed	:	95 %
Equipment supplied	:	98 %
Equipment erection	:	97 %
Scheduled COD	:	July' 2020
Anticipated COD	:	Jan'2021

#### **Constraints being faced during execution:**

1. Work has been affected due to COVID-19 pandemic.
2. Work affected by Cyclone Amphan in May'20.
3. Work was stalled from Nov'19 to Dec'19 due to agitation by local tribals. Restarted slowly from 10.12.19.
4. Work is being affected due to political unrest since Dec'19.

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

(Award placed on 29.09.2017 to M/s BHEL)

Land acquired	:	100 %
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Civil work completed	:	65 %
Equipment supplied	:	90 %
Equipment erection	:	27 %
Scheduled COD	:	July' 2020
Anticipated COD	:	Feb' 2021

**Commissioning matching with associated Jeerat-Subhashgram(TBCB) line (ant. by Feb'21).**

**Constraints being faced during execution:**

1. Work affected due to COVID-19.
2. Work affected by Cyclone Amphan in May'20
3. Work is being affected due to political unrest since Dec'19.

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

(Work being executed by WBSETCL.)

Civil work completed	:	95 %
Equipment supplied	:	96 %
Equipment erection	:	90 %
Scheduled COD	:	July' 2020
Anticipated COD	:	Jan' 2021

**Constraints being faced during execution:**

1. Work affected due to COVID-19.
2. Work affected by Cyclone Amphan in May'20..

## 2) Eastern Region Strengthening Scheme-XXI

### Background:

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

### Scope of transmission project:-

#### Transmission Lines:

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

#### Substation

1.	<p>Establishment of 400/220/132 kV, 2x500 MVA + 2x200 MVA S/s at Sitamarhi (New)</p> <p><b>400 kV</b></p> <ul style="list-style-type: none"> <li>• ICTs: 400/220 kV, 2x500 MVA</li> <li>• ICTs bays: 2 nos.</li> <li>• Line bays with space for switchable line reactor: 4 nos. [2 nos. for Darbhanga – Sitamarhi (New) 400kV D/c line with Triple Snowbird conductor and 2 nos. for Sitamarhi (New) – Motihari 400kV D/c line with Triple Snowbird conductor]</li> <li>• Bus reactor: 420kV, 2x125 MVAR</li> <li>• Bus reactor bay: 2 nos.</li> <li>• Space for future line bays (including space for switchable line reactor): 6 nos.</li> <li>• Space for future ICT bays: 2 nos.</li> </ul>
	<p><b>220 kV</b></p> <ul style="list-style-type: none"> <li>• ICTs: 220/132 kV, 2x200 MVA</li> <li>• ICTs bays: 4 no.</li> <li>• Line bays: 4 no. [2 no. for Sitamarhi (New) – Motipur (BSPTCL) and 2 no. for Sitamarhi (New) – Motihari (New of BSPTCL) 220kV D/c lines]</li> <li>• Space for future line bays: 4 nos.</li> <li>• Space for future ICT bays: 4 nos.</li> </ul>

	<p><b>132 kV</b></p> <ul style="list-style-type: none"> <li>• ICTs bays: 2 no.</li> <li>• Line bays: 4 no. [2 no. for Sitamarhi (New) – Sitamarhi 132kV D/c (Single Moose) line and 2 no. for Sitamarhi (New) – Pupri 132kV D/c line]</li> <li>• Space for future line bays: 4 nos.</li> <li>• Space for future ICT bays: 2 nos.</li> <li>• Space for future 400/220 kV, 2x500 MVA ICTs</li> <li>• Space for future 220/132 kV, 2x200 MVA ICTs</li> </ul>
2.	Establishment of 400/220/132 kV, 3x500 MVA + 3x200 MVA S/s at Chandauti (New)
	<p><b>400 kV</b></p> <ul style="list-style-type: none"> <li>• ICTs: 400/220 kV, 3x500 MVA</li> <li>• ICTs bays: 3 no.</li> <li>• Line bays with space for switchable line reactor: 4 no. [4 no. for LILO of both circuits of Nabinagar-II – Gaya 400kV D/c (Quad Moose) line of PGCIL at Chandauti (New)]</li> <li>• Bus reactor: 420kV, 2x125 MVAR</li> <li>• Bus reactor bay: 2 nos.</li> <li>• Space for future line bays (including space for switchable line reactor): 6 no.</li> <li>• Space for future ICT bays: 2 nos.</li> </ul>
	<p><b>220 kV</b></p> <ul style="list-style-type: none"> <li>• ICTs: 220/132 kV, 3x200 MVA</li> <li>• ICTs bays: 6 nos.</li> <li>• Line bays: 4 nos. [4 no. for LILO of Gaya (PGCIL) – Sonenagar 220kV D/c at Chandauti (New). Gaya (PGCIL) – Sonenagar shall be LILOed at Bodhgaya (BSPTCL) also, so as to form Gaya (PGCIL) – Bodhgaya (BSPTCL) – Chandauti (New) – Sonenagar 220kV D/c line]</li> <li>• Space for future line bays: 4 nos.</li> <li>• Space for future ICT bays: 4 nos.</li> </ul>
	<p><b>132 kV</b></p> <ul style="list-style-type: none"> <li>• ICTs bays: 3 nos.</li> <li>• Line bays: 4 nos. [2 no. for LILO of Chandauti (BSPTCL) – Rafiganj and 2 no. for LILO of Chandauti (BSPTCL) – Sonenagar 132kV S/c (HTLS conductor of 240MVA, ampacity - 1050A) lines at Chandauti (New)]</li> <li>• Space for future line bays: 4 no.</li> <li>• Space for future ICT bays: 2 no.</li> <li>• Space for future 400/220 kV, 2x500 MVA ICTs</li> <li>• Space for future 220/132 kV, 2x200 MVA ICTs</li> </ul>
3.	Establishment of 400/220/132 kV, 2x500 MVA + 2x200 MVA S/s at Saharsa (New)

	<p><b>400 kV</b></p> <ul style="list-style-type: none"> <li>• ICTs: 400/220 kV, 2x500 MVA</li> <li>• ICTs bays: 2 no.</li> <li>• Line bays with space for switchable line reactor: 4 no.[4 no. for LILO of Kishanganj – Patna 400kV D/c (Quad Moose) line of PGCIL at Saharsa (New)]</li> <li>• Bus reactor: 420kV, 2x125 MVAR</li> <li>• Bus reactor bay: 2 no.</li> <li>• Space for future line bays (including space for switchable line reactor): 6 no.</li> <li>• Space for future ICT bays: 2 no.</li> </ul>
	<p><b>220 kV</b></p> <ul style="list-style-type: none"> <li>• ICTs: 220/132 kV, 2x200 MVA</li> <li>• ICTs bays: 4 no.</li> <li>• Line bays: 4 no. [2 no. for Saharsa (New) – Begusarai and 2 no. for Saharsa (New) – Khagaria (New) 220kV D/c lines]</li> <li>• Space for future line bays: 4 no.</li> <li>• Space for future ICT bays: 4 no.</li> </ul>
	<p><b>132 kV</b></p> <ul style="list-style-type: none"> <li>• ICTs bays: 2 no.</li> <li>• Line bays: 2 no. [2 no. for Saharsa (New) – Saharsa 132kV D/c line]</li> <li>• Space for future line bays: 6 no.</li> <li>• Space for future ICT bays: 2 no.</li> <li>• Space for future 400/220 kV, 2x500 MVA ICTs Space for future 220/132 kV, 2x200 MVA ICTs</li> </ul>
4.	<p><b>Substation extension at Darbhanga S/s</b></p> <ul style="list-style-type: none"> <li>• 400kV Line bays with space for switchable line reactor: 2 no. [2 no. for Darbhanga – Sitamarhi (New) 400kV D/c line with Triple Snowbird conductor]</li> </ul>
5.	<p><b>Substation extension at Motihari S/s</b></p> <p><b>400kV</b></p> <ul style="list-style-type: none"> <li>• ICTs: 400/132 kV, 315 MVA (3rd)</li> <li>• ICT bays: 1 no.</li> <li>• Line bays with space for switchable line reactor: 2 no.[2 no. for Sitamarhi (New) – Motihari 400kV D/c line with Triple Snowbird conductor]</li> </ul> <p><b>132kV</b></p> <p>ICT bays: 1 no.</p>

**General Detail:**

Special Purpose Vehicle (SPV)	:	ERSS XXI Transmission Limited
Bid Process Coordinator (BPC)	:	REC TPCL
Estimated Cost	:	₹ 1321 Cr
Levellised Tariff	:	₹ 138.586 Cr
Request for Qualification	:	28.12.2016
Request for Proposal	:	11.08.2017
Letter of Intent	:	27.09.2017

Transmission Service Agreement (TSA) :	22.12.2017
SPV acquisition :	12.01.2018
Transmission License by CERC :	24.04.2018
Tariff adoption by CERC :	25.04.2018
Contract Performance Guarantee :	Submitted on 11.01.2018
Clearance u/s 164 :	14.05.19
Execution plan submitted to :	29.01.2018
EPC awarded on :	24.01.2018
Scheduled Date of Completion :	12.03.2021
Anticipated Date of Completion :	12.03.2021

## **Status of progress of transmission project:**

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

(Award placed on 24.01.2018 to M/s TATA)

- Locations: 221 Nos.
- Length 80 Km
- Foundation completed: 221 Nos.
- Tower Erected: 219 Nos.
- Stringing: 62 Km
- Scheduled COD : Jan'21
- Anticipated COD : Jan'21

#### **Power line crossing**

Total no. of crossings	:	07	Nos.	
Proposal submitted	:	07	Nos.	Date: 30.09.2018, 29.07.2019
Approval obtained	:	7/7	Nos.	

#### **Railway crossing**

Total no. of crossings	:	02	Nos.	
Proposal submitted	:	02	Nos.	Date: 04.01.2019
Approval obtained	:	02/02	Nos.	

#### **National Highway Crossing**

Total no. of crossings	:	02	Nos.	
Proposal submitted	:	02	Nos.	Date: 30.09.2018
Approval obtained	:	02	Nos.	

**Forest:** 0.95 ha (2 divisions i.e; DBG, SMH)

Compliance for Stage-I clearance send by NO to MoEF, Ranchi. **Stage-I approval received on 09.11.2020.**

**PTCC:** Submitted on 04.01.2019. Approval received 28.09.2020.

### **Constraints being faced during execution:**

1. Work has been affected due to COVID-19 pandemic.
2. Work progress severely affected due to RoW and waterlogging.



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

Award placed on 24.01.2018 to M/s. TATA

- Length: 85.6 Km
- Locations: 230 Nos.
- Foundation completed: 230 Nos.
- Tower Erected: 230 Nos.
- Stringing 85.6 Km

Scheduled COD : Jan'21

Anticipated COD : Jan'21

### **Work Progress severely affected due to waterlogging**

#### **Power line crossing**

Total no. of crossings : 03 Nos.  
Proposal submitted : 03 [ 2 Nos. on 30.09.2018 & 1 no. on 24.12.2018 ]  
Approval obtained : 03/ 03 Nos.

#### **Railway crossing**

Total no. of crossings : 02 Nos.  
Proposal submitted : 02 No. Date: 04.01.2019  
Approval obtained : 02/ 02 Nos.

#### **National Highway Crossing**

Total no. of crossings : 05 Nos.  
Proposal submitted : 05 Nos. Date: 30.09.2018  
Approval obtained : 05 Nos.

**Forest:** 0.186 ha (3 divisions i.e; E. Chap, Sheohar, Sitamarhi)

Proposal submitted on 16.10.2018. Presently at PCCF, Patna.

**Stage-I approval received in July'2020.**

### **Constraints being faced during execution:**

1. Work affected due to COVID-19.
2. Work Progress severely affected due to waterlogging.

### **Constraints where Project Authority requires intervention:**

**PTCC:** Submitted on 30.09.2018. Approval obtained on 28.09.2020.

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

Award placed on 24.01.2018 to M/s. TATA

- Length: 2.9 Km
- Locations: 9 Nos.
- Foundation completed: 9 Nos.
- Tower Erection : 9 Nos.
- Stringing : 2.9 Km

Scheduled COD : Mar'21  
Anticipated COD : Mar' 21

**Status of statutory approvals:**

**Crossings:** NIL  
**Forest:** NIL  
**PTCC:** Approved.

**Status:** LILO of Nabinagar - Gaya 400 KV Line at Chandauti charged at rated voltage in Jun'20 through cross Jumpering as contingency measure. Power flow approx 150 MW in each circuit. However, commissioning matching with readiness of Chandauti S/S, expected by Mar'21.

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

Award placed on 24.01.2018 to M/s. TATA

- Length: 74.9Km
- Locations: 211 Nos.
- Foundation completed: 174 Nos.
- Tower Erected: 164 Nos.
- Stringing: 39.18 Km
- Scheduled COD : Mar'21
- Anticipated COD : Mar'21

**Status of statutory approvals:**

**Power line crossing**

Total no. of crossings : 8 nos.  
Proposal submitted : 8 nos. Date: 26.03.2019  
Approval obtained : 08/08 Nos.

**Railway crossing**

Total no. of crossings : 2 nos.  
Proposal submitted : 2 nos. Date: 12.03.2019  
Approval obtained : 02/02 Nos.

**National Highway Crossing**

Total no. of crossings : 6 nos.  
Proposal submitted : 6 nos. Date: 26.03.2019  
Approval obtained : 06/06

**Forest: 2.9 Ha in Saharsa.** Proposal submitted on 08.03.2019.

Joint verification done. Report is with PCCF, Patna. Stage-I approval received on 16.03.2020.

**Constraints being faced during execution:**

1. Work affected due to COVID-19.
2. Work Progress severely affected due to waterlogging.

**Constraints where Project Authority requires intervention:**

1. **PTCC:** Submitted on 09.02.19. Presently at CEA.

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

- Awarded on 27.02.2018 to M/s KEC

Land acquired	: 98%
Civil work completed	: 88 %
Equipment supplied	: 95 %
Equipment erection	: 90 %
Scheduled COD	: Jan'21
Anticipated COD	: Jan'21

**Constraints being faced during execution:**

1. Work affected due to COVID-19.

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

- Awarded on 20.03.2018 to M/s ABB

Land acquired	:	100 %
Civil work completed	:	95 %
Equipment supplied	:	98 %
Equipment erection	:	98 %
Scheduled COD	:	Mar'21
Anticipated COD	:	Mar'21

**Constraints being faced during execution:**

1. Work affected due to COVID-19.
2. Work Progress was affected due to rain & floods.

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

- Awarded on 20.03.2018 to M/s ABB.

Land acquired	:	97%
Civil work completed	:	42 %
Equipment supplied	:	66 %
Equipment erection	:	10 %
Scheduled COD	:	Mar'21
Anticipated COD	:	Mar'21

**Constraints being faced during execution:**

1. Work affected due to COVID-19.

## **8 Substation extension at Darbhanga S/s**

- Awarded on 27.02.2018 to M/s KEC

Civil work completed	:	95 %
Equipment supplied	:	95 %
Equipment erection	:	95 %

Scheduled COD	:	Jan'21
Anticipated COD	:	Jan'21

### **Constraints being faced during execution:**

1. Work affected due to COVID-19.

## **9 Substation extension at Motihari S/s**

- Awarded on 27.02.2018 to M/s KEC

Civil work completed	:	90 %
Equipment supplied	:	95 %
Equipment erection	:	95 %

Scheduled COD	:	Jan'21
Anticipated COD	:	Jan'21

### **Constraints being faced during execution:**

1. Work affected due to COVID-19.

### 3) New WR- NR 765 kV Inter-Regional corridor

#### **Background**

The transmission scheme has been approved in the 38th Standing Committee on Power System Planning of Northern Region held on 30th May, 2016 and 40th Standing Committee Meeting on Power System Planning in WR held on 01.06.2016. The corridor shall provide strong connectivity of NR and WR grid and would facilitate flow of power under various contingencies.

#### **Scope of transmission project:**

- 765 kV D/C Vindhyachal Pooling Station- Varanasi D/C Transmission Line

#### **General Detail:**

Special Purpose Vehicle (SPV)	:	WR-NR Power Transmission Limited
Bid Process Coordinator (BPC)	:	REC TPCL
Estimated Cost	:	₹ 916 Cr
Levellers Tariff	:	₹ 92.733 Cr
Request for Qualification	:	19.12.2016
Request for Proposal	:	22.09.2017
Letter of Intent	:	01.03.2018
Transmission Service Agreement (TSA)	:	27.04.2017
SPV acquisition	:	27.03.2018
Transmission License by CERC	:	27.08.2018
Tariff adoption by CERC	:	05.09.2018
Contract Performance Guarantee	:	Submitted on 27.03.2018
Clearance u/s 164	:	14.03.2019
Execution plan	:	Submitted in April'18
EPC awarded on	:	Awarded 11.04.2018
Scheduled Date of Completion	:	27.07.2021
Anticipated Date of Completion	:	27.07.2021

#### **Status of progress of transmission project:-**

- 1) 765 kV D/C Vindhyachal Pooling Station- Varanasi D/C Transmission Line  
Line awarded on 11.04.2018 to M/s KPTL.

• Length	:	189.5 Km
• Locations	:	522Nos.
• Foundation completed	:	469Nos. (NR : 228, WR: 241)
• Tower Erection	:	426 Nos. (NR : 197, WR: 229)
• Stringing	:	101km (NR : 43.42km, WR: 57.976km)
Scheduled COD	:	July' 2021
Anticipated COD	:	July' 2021

#### **Status of statutory approvals:**

#### **Western Region portion:**

##### **Forest :**

Forest proposal's soft copy uploaded on Forest portal on 01.09.2018.

Hard copy in 06 sets submitted on 08.09.2018.

**Stage-I approval obtained on 27.05.19.**

Demand note for CA scheme, NPV & Medicinal scheme obtained from all three division i.e Singrauli, Sidhi and Rewa .

Working Permission of Rewa forest division obtained on 25.06.2019

Demand Note for tree vidohan for Rewa division obtained on 10.07.2019 and subsequently amount deposited on 18.07.2019 .

Stage one working permission for Singrauli Forest also obtained on 30.07.19.

Working permission for singrauli forest (where trees are not there ) obtained on 30.08.2019 .

Permission for tree cutting (affected under tower area only) for Rewa obtained on 30.08.2019 .

Working Permission of Sidhi forest division obtained on 05.09.2019.

Demand Note for tree vidohan from Sidhi Forest obtained on 09.09.2019. tree vidohan amount deposited to Sidhi on 24.09.2019.

**Wildlife (Son Ghariyal wildlife sanctuary):** Letter regarding permission for construction of T/L over Son & Gopad river submitted on 14.03.19.

Part-I & Part-II of Son Ghariyal wildlife sanctuary crossing over Son & Gopad river submitted online on 23.05.19 and hard copy of the proposal submitted on 26.05.19.

Further, part-III of the proposal has been filled and hard copy of the proposal forwarded to APCCF Bhopal on 26.06.19.

Proposal got clearance from State Wild life Board on 11.10.2019. Proposal cleared in the NBWL meeting held on 17.12.19 and minutes issued on 21st Jan'20. . Letter from APCCF (Wildlife) , MP Govt Bhopal has been sent to CCF Sanjay Tiger Reserve Sidhi on 30.01.2020 and same was forwarded to POWERGRID on 29.02.2020.

PCCF (WL), Bhopal through letter dated 24.02.2020 asked POWERGRID to submit route alignment and estimated projects cost for further processing. Vide letter dated 12.03.2020 POWERGRID wrote a letter seeking relaxation from condition imposed (use of insulated cable for over the ground / underground crossing). In return to this PCCF(WL), Bhopal vide letter dated 19.03.2020 said that relaxation in condition is out of his jurisdiction and suggested to appeal before competent authority (NBWL, New delhi). Vide letter dated 28.04.2020 POWERGRID again requested to PCCF(WL), Bhopal that there is no such technology (Insulated cable for 765KV) available globally. Now PCCF (WL) through letter dated 29.04.2020 to Principle secretary, Ministry of Forest(MP) and Additional General of Forest (WL division), MoEFCC, New Delhi, is seeking guidance in this matter.

MOEF(Wildlife Division), New Delhi vide letter Dt 17<sup>th</sup> June 2020 agreed with the POWERGRID proposal for crossings to use towers to enhance clearance & international high speed protection scheme in absence of underground cable technology at 765kV Voltage level.

Vide letter of even no dt 23.06.2020, final clearance accorded to POWERGRID from the office of Chief Wildlife Warden, Govt of MP, Bhopal.

Working Permission Son Ghariyal wildlife sanctuary issued by Letter Ref No 13-1/(18.7)/4392 Dt 28th July 2020. Tree Cutting in forest stretches by Forest Deptt. is in progress.

**Power line crossing**

## Railway Crossing

## National Highway Crossing

PTCC

PTCC clearance for MP Portion issued by CEA vide letter of even No Dt 15th July 2020.

Proposal submitted : Submitted on 20.06.19. Resubmitted on 16.07.19  
Civil aviation approval received on  
03.09.2019 ( for two parts ) and 11.09.2019  
for three parts ).\*Application was split into  
five parts\*

Proposal submitted : Proposal sent in hard copy on 26.06.19.  
Defence Aviation NOC obtained on  
04.10.2019 .

**Constraints being faced during execution:**

1. Work has been affected due to COVID-19 pandemic.
2. Working Permission from Wild life obtained very recently. Tree cutting by Forest Deptt in forest area is also in progress. Because of lockdown and COVID-19 after effect completion may be extended further.

**Northern Region portion:**

**Forest proposal (30 Km, Mirzapur : 210 Ha, Varanasi : 0.28 Ha) :**

NoC received from PWD, Irrigation, Railway & NHAI.

Forest proposal was initially uploaded on Forest portal on 17.09.2018. Subsequently, due to change in forest area of NHAI crossing, total forest area changed. Accordingly, revised forest proposal has been uploaded on 05.08.2019. Further, NOCs have been obtained from PWD, Irrigation, Railways and NHAI.

**Present status:** Stage –I approval obtained on 14.09.2020. Further, working permission for Mirzapur division obtained on 29.10.2020.

**Power line crossing**

Total no. of crossings	:	13 Nos.	
Proposal submitted	:	13 Nos	Date: 16.10.18
Approval obtained	:	13 Nos.	[Date: 13.12.18, 21.12.18, 07.05.19, 12.06.19,02.08.19]

**Railway Crossing**

Total no. of crossings	:	2 Nos.	
Proposal submitted	:	2 No.	Date: 30.10.18
Approval obtained	:	2 No.	Date: 16.04.19 Date: 26.06.20

**National Highway Crossing**

Total no. of crossings	:	2 Nos.	
Proposal submitted	:	2 Nos.	Date: 04.10.18
Approval obtained	:	2 Nos.	Date : 30.08.19 & 04.10.19

**River crossing (Ganga): (1 Pile & 2 RC)**

Pile foundation:- 46/48 nos.of pile completed.

**PTCC: PTCC clearance for UP Portion issued by CEA on 19.11.2020.**

**Aviation (Civil):** NOC obtained.

**Constraints being faced during execution:**

Work was kept under abeyance due to corona virus pandemic & complete lockdown imposed by Govt. of India on 25.03.2020. Due to lockdown/restrictions imposed by Govt. of India/State Governments to contain spread of Covid-19, transmission line work was completely stopped including supplies of line materials as well as construction materials such as cement, sand, aggregate etc., mobilization of manpower, machineries and other resources at site. Presently work is under progress with available manpower. However, non-availability of construction materials such as sand, aggregate etc., difficulty in getting construction gangs/ manpower, various restrictions at site e.g. social distancing, gang size etc. are still putting serious constraints on progress of the work.



## 4) Transmission system associated with LTA applications from Rajasthan SEZ Part-C

### Background

India has set a target for establishing 175 GW renewable capacity by 2022, which includes 100 GW Solar, 60 GW Wind generation capacity. To identify ISTS connectivity of renewable energy projects from potential solar energy zones (SEZs) and potential wind energy zones (WEZs) of about 50 GW and 16.5 GW respectively, MNRE vide its order dated 08.06.2018 had constituted a Sub-Committee. SEZs and WEZs envisaged in 7 RE rich states (Tamil Nadu, Andhra Pradesh, Karnataka, Gujarat, Rajasthan, Maharashtra and Madhya Pradesh) were identified by SECI in association with MNRE in consultation with RE power developers. To ease the implementation of transmission infrastructure, it has been proposed to bifurcate these requirements in two phases. A total of 20GW solar & 9 GW wind projects has been planned in Phase-I (up to Dec. 2020) and 30 GW solar & 7.5 GW wind has been planned for Phase-II (December 2021)

### Project Description

Transmission system for 8.9 GW of solar RE projects from Bhadla (3.55 GW), Fatehgarh (3.5 GW), Bikaner (1.85 GW) complexes in Rajasthan was technically agreed in the 2<sup>nd</sup> meeting of NRSCOT held on 13.11.2018. The scheme is required for evacuation of power from balance 6050 MW of RE potential out of total quantum of 8.9 GW (2.850 GW LTA already granted)

### Scope of Transmission Project-

#### Transmission Lines

1. Khetri – Sikar (PG) 400kV D/c line (AL59)  
400kV line bays at Sikar (PG) for Khetri – Sikar (PG) 400kV D/c line (Twin AL59)
2. Khetri– Jhatikara 765kV D/c line  
765kV bays at Jhatikara for Khetri– Jhatikara 765kV D/c line  
1x240 MVAR Switchable Line reactors for each circuit at Jhatikara end of Khetri – Jhatikara 765kV D/c line along with reactor bays

#### Substation

1. Establishment of 765/400kV, 2X1500 MVA S/s at suitable location near Khetri with 765kV (2x240MVAR) and 400kV (1x125 MVAR) bus reactor along with bays. Following line bays shall also be constructed under present scope of work:  
400kV line bay-2  
765kV line bay-2  
220kV line bays-7
2. 400kV line bays at Sikar (PG) for Khetri – Sikar (PG) 400kV D/c line (Twin AL59).
3. 765kV bays at Jhatikara for Khetri– Jhatikara 765kV D/c line.

## **General Details**

Special Purpose Vehicle (SPV)	:	POWERGRID KHETRI TRANSMISSION SYSTEM LTD
Bid Process Coordinator (BPC)	:	REC Transmission Projects Company Ltd.
Estimated Cost	:	₹ 1365 Cr
Levelling Tariff	:	₹ 122.042Cr.
Request for Qualification	:	12.01.2019
Request for Proposal	:	13.03.2019
Letter of Intent	:	31.07.2019
Transmission Service Agreement (TSA)	:	23.04.2019
SPV acquisition	:	29.08.2019
Transmission License by CERC	:	Applied on 04.09.2019
Tariff adoption by CERC	:	Applied on 04.09.2019
Contract Performance Guarantee	:	30.08.2019
Clearance u/s 164	:	Notice Published in Newspaper on 07.11.2019 & 14.11.2019
Execution plan submitted to CEA :	:	is being prepared.
NIT issued on	:	All NOAs to Execution Agency issued.
EPC awarded on	:	All NOAs to Execution Agency issued
Scheduled Date of Completion	:	Dec'2020

### **Status of progress of transmission project:-**

1. Khetri– Jhatikara 765kV D/c line  
(Award placed in Sep'19 to M/s. TRANSRAIL)

Length:	146.022km
Locations:	394nos.
Foundation completed	360nos.
Towers erected	313 nos.
Stringing completed	47.5km

Scheduled COD	Dec'20
Anticipated COD	May'21

### **Status of statutory approvals:**

#### **River Crossings**

Totalno. of crossings	:	NIL	nos.
Proposal submitted	:	NIL	nos.
Approval obtained	:	NIL	nos.

**Defence/Civil Aviation** : Both proposals submitted on 15.05.2020.  
Defence NOC given.

### **Constraints being faced during execution:**

1. Work affected due to COVID-19. Work has restarted with limited manpower after lockdown. Permission obtained on 24.04.20 for mobilization of gangs and work in progress in Sikar, Jhunjhunu, Jhajjar and Mahendargarh districts.

## **Constraints where Project Authority requires intervention:**

1. Authorization u/s 164 of EA-2003: Application Submitted to CEA. CEA approval received on 28.08.20. Gazette notification published on 25.09.2020.

### **2.Forest:**

Delhi portion-Forest proposal for FCA submitted on 24.06.2020. Letter for land under FCA sent to DDA on 20.07.20 and 07.08.20. Land is being identified. Proposal is with Dy. Director (IL) for issuance of allotment letter.

Haryana portion (6.65 Hec): Online proposal submitted on 15.01.2020. Electronically transferred on 01.06.20 to DFO Gurgaon, Jhajjar (South Gurgaon), Rewari and Mahendergarh. Query raised by DFO (Mahendergarh) on 18.06.20. Replied on 11.07.20. Query raised by DFO (Rewari) on 22.07.20 and again on 07.08.20. Replied on 27.08.20. Query raised by DFO (Mahendergarh) on 27.08.2020 . Replied on 29.08.2020. Again query raised by DFO (Mahendergarh) on 12.09.2020 . Replied on 24.09.2020. Proposal for Gurgaon, Rewari and Mahendergarh with CF. CF has asked DFO Gurgaon to identify common land for Compensatory Afforestation. Land identified by DFO Gurgaon and proposal forwarded to CF.

Rajasthan (1.547Hec): Online proposal submitted on 20.05.20. Hard Copy of proposal submitted. Proposal with DFO (Jhunjhunu) at present. Query raised by DFO (Jhunjhunu Territorial) on 20.08.2020. Replied on 21.08.2020. Query raised by Nodal officer on 09.09.20. Replied on 18.09.20. Proposal sent to State Govt on 30.09.20. Case forwarded by State to RO MoEF, Lucknow on 26.11.2020.

Delhi (4.88 Hec) : Proposal for felling of trees (9nos.) as per DPTA submitted on 18.11.19. Site visit of DFO held on 03.01.20. DFO informed to submit proposal under FCA. Now proposal under FCA submitted. Queries regarding land for FCA received on 29.06.20. Letter sent to DDA on 02.07.20, 21.07.20 and 07.08.20 for providing land. DDA issued letter for land on 13.11.2020. The land provided is not encumbrance free. New land identified. By DDA. Allotment letter yet to be issued by DDA.

### **3.Power line crossing**

Total no. of crossings	:	33	nos.
Proposal submitted	:	33	nos.
Approval obtained	:	30	nos.

### **4.Railway crossing**

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

### **5.National Highway Crossing**

Total no. of crossings	:	4	nos.
Proposal submitted	:	4	nos.
Approval obtained	:	2	nos.

**6.PTCC approval** : Submitted on 26.05.2020. Hard Copy of the proposal submitted in July'20.

## 2. **Khetri– Sikar (PG) 400kV D/c line**

(Award placed in Sep'19 to M/s. TRANSRAIL)

Length:	78.610 Km
Locations:	207 nos.
Foundation completed	200 nos.
Towers erected	178 nos.
Stringing completed	43.72km

Scheduled COD	Dec'20
Anticipated COD	May'21

### **Status of statutory approvals:**

#### **Power line crossing**

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

#### **National Highway Crossing**

Totalno. of crossings	:	NIL	nos.
Proposal submitted	:	NIL	nos.
Approval obtained	:	NIL	nos.

**Defence/Civil Aviation** : Aviation proposal submitted on 22.05.2020, Defense proposal submitted on 15.05.2020. NOC received for defence and aviation.

### **Constraints where Project Authority requires intervention:**

#### **Railway crossing**

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

### **Status of progress of Substation and Bay Extensions project:-**

NOA to Execution Agency for New 765kV Khetri Substation, Bay Extension at 765kV Jhatikara and 400kV Sikar Substation award placed on 24.10.2019.

Khetri land Forest clearance: Online Proposal submitted on 22.11.2019. Stage-I approval completed on 20.2.20 in REC meeting. Land allotment letter received on 3.06.2020. Letter for forest clearance received on 10.06.2020.

Civil works are under progress at Khetri, Sikar and Jhatikara substations.

**Constraints being faced during execution:**

1. Work affected due to COVID-19.

**Constraints where Project Authority requires intervention:****1.Forest**

: Submission of online proposal done on 22.05.2020. Hard Copy of proposal submitted. Proposal with DFO (Jhunjhunu) at present. Query raised by DFO (Jhunjhunu Territorial) on 10.08.2020. Replied on 13.08.2020. Query raised by DFO (Jhunjhunu Territorial) on 20.08.2020. Replied on 24.08.2020. Query raised by DFO (Mahendergarh) on 12.09.2020 . Replied on 24.09.2020. Proposal sent to State Govt on 30.09.20. Case forwarded by State to RO MoEF, Lucknow on 26.11.2020.

**2.PTCC approval**

: Proposal submitted on 15.05.2020. Hard Copy of the proposal submitted in July'20. Final approval awaited.

## 5) Transmission system associated with LTA applications from Rajasthan SEZ Part-A

### Background

India has set a target for establishing 175 GW renewable capacity by 2022, which includes 100 GW Solar, 60 GW Wind generation capacity. To identify ISTS connectivity of renewable energy projects from potential solar energy zones (SEZs) and potential wind energy zones (WEZs) of about 50 GW and 16.5 GW respectively, MNRE vide its order dated 08.06.2018 had constituted a Sub-Committee. SEZs and WEZs envisaged in 7 RE rich states (Tamil Nadu, Andhra Pradesh, Karnataka, Gujarat, Rajasthan, Maharashtra and Madhya Pradesh) were identified by SECI in association with MNRE in consultation with RE power developers. To ease the implementation of transmission infrastructure, it has been proposed to bifurcate these requirements in two phases. A total of 20GW solar & 9 GW wind projects has been planned in Phase-I (up to Dec. 2020) and 30 GW solar & 7.5 GW wind has been planned for Phase-II (December 2021)

### Project Description

The subject transmission scheme involves implementation of Ajmer (PG) – Phagi 765 kV D/c line which shall facilitate in transfer of power from RE sources in above complexes for onward dispersal of power to various beneficiaries.

The proposal has been technically agreed in the 2nd meeting of Northern Region Standing Committee on Transmission (NRSCT) held on 13.11.2018. The same was agreed in the 3rd ECT meeting held on 21.12.2018 for implementation through TBCB route with commissioning schedule as September, 2020

### Scope of Transmission Project-

#### Transmission Lines

1. Ajmer (PG) – Phagi (RVPN) 765kV D/C line.

#### Substation

1. 2 nos 765kV line bays (AIS) at Ajmer (PG) S/s for Ajmer (PG) –Phagi (RVPN) 765kV D/c line.
2. 01 no of 765kV bay (AIS) & 01 complete GIS DIA 765kV (2 main Breakers & 1 Tie Breaker) at Phagi S/S for Ajmer (PG) – Phagi (RVPN) 765kV D/c line.
3. 3 x 80 MVAR 765kV bus reactor with GIS bay (2main bay of new DIA being created for termination of 765kV D/c line from Ajmer) at Phagi S/s along with 1X80 spare MVAR, 765kV reactor (Spare).

#### General Details

Special Purpose Vehicle (SPV)	:	AJMER PHAGI TRANSCO LIMITED
Bid Process Coordinator (BPC)	:	REC Transmission Projects Company Ltd

Estimated Cost	:	₹ 583 Cr
Levelling Tariff	:	₹ 61.331Cr.
Request for Qualification	:	12.01.2019
Request for Proposal	:	13.03.2019
Letter of Intent	:	29.08.2019
Transmission Service Agreement (TSA)	:	23.04.2019
SPV acquisition	:	03.10.2019
Transmission License by CERC	:	4.03.2020
Tariff adoption by CERC	:	4.03.2020
Contract Performance Guarantee	:	30.08.2019
Clearance u/s 164		Newspaper Notice Published on 23.11.2019
Execution plan submitted to CEA :		Submitted on 13.2.20
NIT issued on	:	All NOAs to Execution Agency issued.
EPC awarded on	:	NOAs for S/Stn, T/L & B/R issued
Scheduled Date of Completion	:	Dec'2020

### **Status of progress of transmission project:-**

#### **1. Ajmer (PG) – Phagi (RVPN) 765kV D/C line**

Award placed to M/s BAJAJ Electricals Ltd. (BAJAJ)

Length:	134.207 km
Locations:	359 nos.
Foundation completed	358 nos.
Towers erected	349 nos.
Stringing completed	106.5 km
Scheduled COD	Dec'20
Anticipated COD	Mar'21

### **Status of statutory approvals:**

#### **Power line crossing**

Total no. of crossings	:	9	nos.
Proposal submitted	:	9	nos.
Approval obtained	:	9	nos.

#### **National Highway Crossing**

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

**Defence/Civil Aviation** : Approval received from Aviation and Defence.

- Authorization u/s 164 of EA-2003: Application Submitted to CEA. Acknowledgement received. Gazette published on 22.07.20.

### **Constraints where Project Authority requires intervention:**

### 1. Railway crossing

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

2. **PTCC approval** : proposal submitted on 12.05.2020.  
Proposal forwarded to CEA(Delhi) on 27.07.20. Approval awaited.

3. **Forest** :Online proposal submitted on 17.01.2020.  
Proposal forwarded to State Govt on 04.06.20. Stage - 1 approval received on 20.07.20. Conditions complied. Working permission awaited from Forest Deptt.

### Status of progress of Bay Extensions project:

NOAs for AIS Type 765kV Bay Extensions both at Ajmer and Phagi is placed to M/s ABB and GIS Type 765kV Bays at Phagi to M/s GE T&D India Ltd.  
Civil work under progress at Ajmer and Phagi s/s.

- Bus Reactor Package awarded to M/s T&R on 27.11.2019
- 1 No additional 1-Ph 80MVAR reactor is added at later date of RFP- awarded to M/s BTW on 28.02.20.

### Constraints being faced during execution:

1. Work affected due to COVID-19.



## 6) Transmission system associated with LTA applications from Rajasthan SEZ Part-B

### Background

India has set a target for establishing 175 GW renewable capacity by 2022, which includes 100 GW Solar, 60 GW Wind generation capacity. To identify ISTS connectivity of renewable energy projects from potential solar energy zones (SEZs) and potential wind energy zones (WEZs) of about 50 GW and 16.5 GW respectively, MNRE vide its order dated 08.06.2018 had constituted a Sub-Committee. SEZs and WEZs envisaged in 7 RE rich states (Tamil Nadu, Andhra Pradesh, Karnataka, Gujarat, Rajasthan, Maharashtra and Madhya Pradesh) were identified by SECI in association with MNRE in consultation with RE power developers. To ease the implementation of transmission infrastructure, it has been proposed to bifurcate these requirements in two phases. A total of 20GW solar & 9 GW wind projects has been planned in Phase-I (up to Dec. 2020) and 30 GW solar & 7.5 GW wind has been planned for Phase-II (December 2021)

### Scope of Transmission Project-

#### Transmission Line

1. Fatehgarh-II – Bhadla-II 765kV D/c line.

#### Substation

1. 2 nos of 765kV bays each at Fatehgarh-II and Bhadla-II S/s for Fatehgarh-II – Bhadla-II 765kV D/c line.
2. 240MVAR switchable line reactor with NGR of 400ohm on each circuit of Fatehgarh-II – Bhadla-II 765kV D/c line at Fatehgarh-II end.

#### General Details

Special Purpose Vehicle (SPV)	:	FATEHGARH-II TRANSCO LIMITED
Bid Process Coordinator (BPC)	:	PFC Consulting Ltd.
Estimated Cost	:	₹ 676 Cr.
Levelling Tariff	:	₹ 71.558 Cr.
Request for Qualification	:	19.02.2019
Request for Proposal	:	03.06.2019
Letter of Intent	:	11.09.2019
Transmission Service Agreement (TSA)	:	16.07.2019
SPV acquisition	:	14.10.2019
Transmission License by CERC	:	4.03.2020
Tariff adoption by CERC	:	5.03.2020
Clearance u/s 164	:	Newspaper Notice Published on 30.11.2019. To be published again due to error in village list. Again published in Newspapers on 01.10.2020.
Execution plan submitted to CEA :	:	Submitted on 13.03.20
NIT issued on	:	NIT for all Pkges issued.
EPC awarded on	:	NOAs except L/R Package issued

Scheduled Date of Completion : Dec'2020

**Status of progress of transmission project:-**

1. Fatehgarh-II – Bhadla-II 765kV D/c line.  
Award placed to M/s SKIPPER BAJAJ Electricals Ltd. (BAJAJ)

Length:	187.346 km
Locations:	504 nos.
Foundation completed	484 nos.
Towers erected	421 nos.
Stringing completed	115.5 km
Scheduled COD	Dec'20
Anticipated COD	May'21

**Status of statutory approvals:**

**PTCC approval:** Proposal submitted to PFTL. File submitted to Jaipur, BSNL office & then forwarded to Delhi for final approval on 10.06.20. Approved.

**Defence/Civil Aviation :** Civil aviation submitted on 11.05.2020 and defense proposal is submitted on 10.01.2020. NOC obtained on 25.09.20.

**Authorization u/s 164 of EA-2003:** Application Submitted to CEA. Proposal to be resubmitted. Revised Gazette Notification issued on 31.10.2020

**Constraints being faced during execution:**

1. Work affected due to COVID-19.

**Constraints where Project Authority requires intervention:**

**1.Forest:** Forest proposal submitted on 14.03.2020. Query regarding layout plan, maps etc raised by Nodal on 18.05.20. Proposal resubmitted on 06.07.20. Query raised by nodal officer for submitting hard copies on 13.07.20. Hardcopy submitted. Query raised by DFO (Jodhpur) on 28.09.20. Reply submitted on 29.09.20. Nodal officer raised query on 22.10.2020. Reply to be submitted by DFO. Proposal forwarded by NO to State Govt. on 16.12.2020.

**2.Power line crossing**

Total no. of crossings	:	16	nos.
Proposal submitted	:	16	nos.
Approval obtained	:	14	nos.

**4.Railway crossing**

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

### **5.National Highway Crossing**

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

### **Status of progress of Bay Extensions project:-**

NOAs for 765kV Bay Extensions both at Fatehgarh-II (PG) Substation and Bhadla-II Substation (PG) is placed to M/s BHEL.

Civil work under progress in Fatehgarh and Bhadla S/s

### **Constraints being faced during execution:**

Work affected due to COVID-19.

## **7) Transmission System for providing connectivity to RE Projects at Bhuj-II (2000 MW ) in Gujarat**

### **Background**

Govt. of India has set a target for establishing 175 GW renewable capacity by 2022 which includes 100 GW Solar, 60 GW Wind generation capacity. This includes installation of 3.5 GW, 4.5 GW & 20 GW of solar/wind capacity in WR under Phase-I (Dec'20/Mar'21), Phase-II (Dec'21) & Phase-III (Beyond Dec'21) respectively.

For integration and evacuation of power from envisaged wind potential in Bhuj (2GW)/Dwarka (1.5GW) areas under Phase-I and Lakadia (2GW) under Phase-II, a high capacity 765kV and 400kV transmission system interconnecting Bhuj, Lakadia, Banaskantha, Vadodara & Dwarka along with establishment of 765/400/220kV new substations at Bhuj-II & Lakadia and 400/220kV new substation at Jam Khambhaliya (Dwarka) have been planned.

The subject transmission scheme involves implementation of Bhuj-II PS along with reconfiguration of Bhuj-PS – Lakadia PS 765kV D/C line so as to the establish Bhuj II – Lakadia 765 kV D/C line as well as Bhuj- Bhuj II 765kV D/C line. This would help in providing a strong ISTS Grid connectivity to various RE projects envisaged in the vicinity of the proposed Bhuj-II Pooling station.

The proposed Transmission System was discussed and agreed in the 1<sup>st</sup> meeting of Western Region Standing Committee on Transmission (WRSCT) held on 5.9.2018. Further in the 2<sup>nd</sup> WRSCT meeting held on 21.05.2019, 1x240 MVAR, 765 kV switchable line reactor in each circuit at Bhuj-II PS end of Bhuj II – Lakadia 765 kV D/c line was also agreed due to shift in location of Bhuj-II PS.

The Transmission System has also been agreed in 38<sup>th</sup> WRPC meeting held on 28.06.2019. Hon'ble Commission i.e CERC has also granted Regulatory Approval for the same vide order dated 10.10.2019 in petition No. 197/MP/2019.

### **Scope of Transmission Project:**

#### **Transmission Line**

1. Reconfiguration of Bhuj PS – Lakadia PS 765kV D/c line so as to establish Bhuj-II – Lakadia 765 kV D/C line as well as Bhuj-Bhuj-II 765kV D/C line

#### **Substation**

1. Establishment of 2x1500 MVA (765/400kV), 4x500 MVA (400/220kV) Bhuj-II PS (GIS) with 765kV (1x330 MVAR) and 420kV (1x125 MVAR) bus reactor  
(2x1500MVA (765/400kV), 4x500MVA (400/220kV)), 1x500 MVA (765/400kV), 1-ph ICT (spare unit);

400 kV ICT bay-6nos.; 765 kV ICT bay-2nos.; 220 kV ICT bay-4 nos.; 765 kV line bay-4 nos.; 220 kV line bay -7nos.; 1x330 MVAR, 765 kV; 1x125 MVAR, 420 kV; 765 kV reactor Bays -1 no.; 400 kV reactor Bays -1 no.; 1x110 MVAR, 765 kV, 1-ph Reactor (spare unit).

Space for Future provisions:

765/400 kV ICTs along with bays: 2 nos.; 400/220 kV ICTs along with bays: 5 nos.; 765 kV line bays: 4 nos.; 400 kV line bays: 6 nos.; 220 kV line bays: 9 nos.; 765 kV bus reactor along with bays: 1 no.; 400 kV bus reactor along with bays: 1 no

2. 1x240MVAR switchable Line reactor for each circuit at Bhuj-II PS end of Bhuj-II- lakadia 765 kV D/c line (2x240 MVAR, 765 kV with 400-ohm NGR; 765 kV Reactor Bays-2 no.; 1x80 MVAR, 765 kV, 1ph switchable line Reactor (spare unit) at Bhuj-II end).

### **General Details**

Special Purpose Vehicle (SPV)	: POWERGRID BHUJ TRANSMISSION LTD.
Bid Process Coordinator (BPC)	: PFC Consulting Ltd.
Estimated Cost	: ₹ 645 Cr.
Levellised Tariff	: ₹ 123.76 Cr.
Request for Proposal	: 12.06.2019
Letter of Intent	: 31.07.2019
Transmission Service Agreement (TSA)	: 23.04.2019
SPV acquisition	: 16.10.19
Transmission License by CERC	: 03.03.2020
Tariff adoption by CERC	: 05.03.2020
Clearance u/s 164	: Notification(Dt 24 <sup>th</sup> Jul'20) published in Gazette of India on 21 <sup>th</sup> August 2020.
Execution plan submitted to CEA	: Submitted on 20.05.2020.
NIT issued on	: NIT for all Pkges issued.
EPC awarded on	: All Package awarded
Scheduled Date of Completion	: Dec'2020

### **Status of progress of transmission project:-**

1. **Reconfiguration of Bhuj PS – Lakadia PS 765kV D/c line so as to establish Bhuj-II –Lakadia 765 kV D/C line as well as Bhuj-Bhuj-II 765kV D/C line**  
**Award placed to M/s Transrail Lighting Limited**

Awarded to M/s Translail Lighting limited

Length:	106 km
Locations:	284 nos.
Foundation completed:	107nos.
Towers erected :	58 nos.
Stringing completed:	2.8 km
Scheduled COD	Dec'20
Anticipated COD	May'21

### **Status of statutory approvals:**

**1.Forest** : Area-99.24 Ha; Proposal submitted on

17.01.2020. RFO inspection done on 26.02.20. Revised proposal after re-routing submitted on 28.05.2020 (95.66Ha). Proposal forwarded to Nodal officer after inspection of CCF held on 08th July'20. Stage-I proposal cleared from 49th REC held on 22-09-2020. RMoEF issued Stage-I clearance on 30th Sep'20. Working permission also received on 27th Oct'20.

**2. Defence/Civil Aviation** : Proposal is being prepared.

**Constraints being faced during execution:**

1. Work has been affected due to COVID-19 pandemic.
2. RoW problem because of delay in finalization of Land Compensation Rate by local administration.
3. Due to severe RoW in 17.5 km line length, survey & other associated work is on hold. For resolution of RoW the effort was attempted by the POWERGRID officials on 28.12.2020 with the help of local administration & Police protection. But unfortunately it was unsuccessful due to heavy agitation by local villagers. Serious intervention of higher authority is required for early resolution of RoW.
4. RoW arise in transmission line stretch in forest area due to land demarkation/boundary issue in between local villagers & Forest deptt. Intervention of higher authority is required to resolve the RoW.

**Constraints where Project Authority requires intervention:**

**1. Power line crossing**

Total no. of crossings	:	14 nos. (7 nos. Loop IN & 7 nos. Loop Out)
Proposal submitted	:	12 nos.
Approval obtained	:	8 nos. obtained on 14 <sup>th</sup> Dec'20.

**2. PTCC approval** : Proposal submitted.

**3. Severe ROW being faced.** Support of local administration is required to settle land compensation assessment expeditiously.

**2. Establishment of 765/400/220kV, Bhuj-II PS (GIS)**

- Awarded to M/s KEC & M/s NHVS

Land acquired	:	Land handed over to agency
Civil work	:	Cutting levelling, Boundary wall Equipment, Transformer and Reactor Foundation, GIS building, Control room building, FFPH etc. are in progress
Equipment supplied	:	On Shore supplies are in progress.
Equipment erection commenced.	:	765 kV, 400kV & 220kV GIS Hall Erection

Scheduled COD : Dec'20  
Anticipated COD : May'21

1. Major Engineering activities completed.
2. Equipment foundation, building works and supply is under progress.

**Constraints being faced during execution:**

1. Work affected due to COVID-19.
2. Severe RoW problem in line due to delay in finalization of compensation by local administration. Survey work couldn't be completed which in turn delay in submission of Aviation and Defense proposals also.
3. Very Heavy Rains in Bhuj and Kutch Area of Gujarat in the month of Aug'20 and Sep'20 hampered the progress of the project.
4. Off Shore and On-Shore supplies are expected to be delayed from their original schedule. **Supply of 765kV Transformer and Bus Reactors from M/s BHEL are** currently affected as the bushings and CRGO are to be imported from China.
5. Supply of 765kV GIS may also be affected because supply of GIS component is from NHVS, China.

## **8) Name of transmission project - Connectivity system for Khargone TPP (2x660 MW)**

### **Background**

NTPC Ltd. has planned to establish a 1320MW (2x660MW) thermal power project at Khargone 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  $\Omega$  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.
  - iv. 2 nos. of 765 kV line bays and 7 X 80 MVAR Switchable line reactors (1 unit as spare) along with 800  $\Omega$  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 (Sterlite Grid 4 Limited; a subsidiary of Sterlite Power Transmission Limited))
Bid Process Coordinator (BPC)	: RECTPCL
Estimated Cost (Rs. crs)	: 2136
Levellised Tariff (Rs. Crs)	: 159.11334
Request for Qualification	: 30.11.2015
Request for Proposal	: 11.02.2016
Letter of Intent	: 26.05.2016
Transmission Service Agreement (TSA)	: 14.03.2016
SPV acquisition	: 22.08.2016
Transmission License by CERC	: 17.11.2016
Tariff adoption by CERC	: 11.11.2016
Contract Performance Guarantee	: 08.07.2016
Clearance u/s 164	: 05.07.2017
Execution plan submitted to CEA	: 18.12.2016
NIT issued on	: 27.05.2016 (For Transmission Lines) 29.06.2016 (For Substation)
EPC contract awarded on	: 25.11.2016 (For Transmission Lines)
Scheduled Date of Completion	: July 2019

### Status of progress of transmission project;

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

Length	:13.574 CKm
Locations	:21 nos.

**Line Commissioned in Feb, 2018.**

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

- Length: 50.1 CKm
- Locations: 66 nos.
- Scheduled COD: Jul'19

**Line Commissioned in Mar, 2020.**

### 3. System strengthening in WR

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

Length:	180.08 CKm
Locations:	243 nos.
Scheduled COD:	Jul'19

**Line commissioned in Mar'20**

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

Length:	378.88 CKm
Locations:	492 nos.
Foundation completed:	476 nos.
Tower erected:	474 nos.
Stringing completed:	350.44 ckm
Scheduled COD:	Jul'19
Anticipated COD:	Mar'21

#### **Constraints where Project Authority requires intervention:**

1. Objection has been raised by D.C., Dhule for traversing of line through submergence area of proposed Jamphal Dam in Maharashtra and diversion of line is requested. Work is stopped now.
2. Construction site of Jamphal dam area was visited by CEA officers on 05.07.2019 and it was found that construction work of dam is running in full swing. During the meeting with District Collector (DC), in his office at Dhule, it was informed that being a location specific project, construction of line in submergence area can't be allowed. However, he had assured to provide full support in getting clearance from various agencies for diversion of line.
3. Based on site visit and meeting with DC, Dhule in July 2019, CEA had advised M/s KTL for diversion of the route of transmission line. Now re-routing work of line has been started and the Forest Diversion Proposal has been submitted to MoEF. Approval under Section 164 of Electricity Act, if required, will be processed on fast track.
4. Forest clearance proposal for diverted route is pending with Government of Maharashtra from last 7 months.
5. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19 and this FM event has been intimated to all LTTCs
6. CEA vide their letter dated 07.04.2020 has requested DC, Dhule to extend support for expediting construction of line on earlier approved route.
7. NOC from Irrigation department, Dhule is awaited.
8. Approval for Sec-164 (diverted route) is awaited
9. A meeting was held on 5<sup>th</sup> Nov 2020 under the chairmanship of Chairperson, CEA with the Irrigation dept officials, DC, Dhule and KTL Officials wherein it was deliberated that NOC shall be issued by Irrigation Dept to KTL by 15<sup>th</sup> Nov 2020
10. As per the letter from Principal secretary WRD (Maharashtra) to Secretary power dated 7/12/2020. It is mandatory on the part of Sterlite power tran. Ltd. to provide the necessary protective arrangements to the transmission lines already constructed and under construction by Bhopal Dhule Transmission Company Limited and Khargone Transmission Limited as their notification is enacted on 24.01.2013 and 03.07.2017 which are on later dates of GoM notification of Sulwade Jamphal Lift Irrigation Scheme Project notification vide dated 02.04.2009.

As per Sterlite power transmission Ltd. ,KTL has complied with all the provisions of the Electricity Act, 2003 & the construction of protection wall to protect the nearby infrastructure (BDTCL Substation & Tower & other infrastructure) is beyond the scope of work of KTL and this requirement aroused for the first time in Aug'20.

This has led to a stalemate situation & the NOC from irrigation dept. to KTL for carrying out the remaining work of Khandwa-Dhule line is yet not received.

#### **Details of followup actions:**

1. JS (Trans), MOP office letter to Principal Secretary (Forests) bearing Ref No. D.O No. 3/3/2020-Trans dated 11 Nov & 7 Dec 2020.
2. CEA letter to Additional Chief Secretary (Forests), Maharashtra bearing Ref No.CEA-PS-13-22(13) /1/2018 - PSPM dated 03-07-2020
3. CEA Meeting held on 5 Nov 2020 under the chairmanship of Chairperson, CEA.

### **Status of statutory approvals:**

#### **Forest**

Details of Tr. Line Falling under Forest: Locations: 62 nos. Length: 61144Mtrs.  
 Forest area affected (ha): 159.126 [KD-MP: 39.437 {11.866 (Barwah Division) + 27.571 (Sendhwa Division)} + KD-MH: 119.689 (Dhule Division)]  
 Forest proposals submitted on KD-MP: 30 Nov 2016 KD-MH: 03 Dec 2016

Current status:

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

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

#### **Power line crossing**

Total no. of crossings : 9 (EB-MP), 1 (EB-MH), 2 (PG-KNW), 2(BDTCL), 1(KTL) nos.  
 Proposal submitted : 9 (EB-MP), 1 (EB-MH), 2 (PG-KNW) nos. Date: 29-06-17 (EB-MP), 30-05-17 (EB-MH), 21-02-17 (PG-KNW) , 01-07-17 (BDTCL) ;2Nos.  
 1Nos. Submission pending(For U/C line KTL)  
 Approval obtained : 7nos. (EB-MP) Date: 16-10-17, 20-11-17, 26-11-17, 29-11-17, 1no. (EB-MH) Date: 19-07-17, 2nos. (PG-KNW) Date: 19-08-17, 2nos. (U/C EB-MP) Date: 26-02-18

#### **Railway crossing**

Total no. of crossings : 1 no.  
 Proposal submitted : 1 nos., 07-05-17 (NH3)  
 Approval obtained : 1 no

#### **National Highway Crossing**

Total no. of crossings : 1 nos.  
 Proposal submitted : 1 nos., 07-05-17 (NH3)  
 Approval obtained : 1 no

#### **River Crossings**

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

#### **PTCC approval**

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

#### **Defence/Civil Aviation**

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

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

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

Scheduled COD Jul'19

**Substation commissioned in Mar'20**

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

Scheduled COD Jul'19

Electrical Inspection Done on 18-Sept-2018

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

### **Background**

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

### **Scope of transmission project**

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

#### **400kV**

- ICTs: 400/132 kV, 7x105 MVA single phase (including one spare)
- ICTs bays: 2 no.
- Line bays: 2 no.  
[2 no. for Palatana – Surajmaninagar 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 Surajmaninagar (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 Surajmaninagar 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 (Sterlite Grid 4 Limited; a subsidiary of Sterlite Power Transmission Limited)
Bid Process Coordinator	:	Rural Electrification Corporation
Estimated Cost (Rs. crs)	:	2471
Levellised Tariff (Rs. Crs)	:	431.653
Request for Qualification	:	29.12.2015
Request for Proposal	:	18.01.2017
Letter of Intent	:	22.02.2017
Transmission Service Agreement (TSA)	:	27.12.2016
SPV acquisition	:	31.03.2017
Transmission License by CERC	:	20.06.2017
Tariff adoption by CERC	:	12.06.2017
Contract Performance Guarantee	:	27.03.2017
Clearance u/s 164	:	31.08.2018
Execution plan submitted to CEA	:	24.07.2017

Scheduled Date of Completion : Nov 2020

**Status of progress of transmission project;**

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

Land Acquired	:100%
Civil work completed	:100%
Equipment supplied	:100%
Equipment erection	: 100%
Scheduled COD	:Jul'20
Anticipated COD	: Dec'20 (Received Approval for Energization certificate from Electrical Inspector, CEA on 01-12-2020)

**Constraints/Approval if any:**

1. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19 and this FM event has been intimated to all LTTCs.
2. 132kV transmission line (downstream system) has to be constructed by TSECL from Surajmaninagar (TBCB) to Surajmaninagar (TSECL) for optimum utilization of the system

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

Land Acquired	:100%
Civil work completed	:100%
Equipment supplied	:100%
Equipment erection	:100%
Scheduled COD	:Jul'20
Anticipated COD	: Dec'20 (Received Approval for Energization certificate from Electrical Inspector, CEA on 01-12-2020)

**Constraints/Approval if any:**

1. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19 and this FM event has been intimated to all LTTCs.
2. 132kV transmission line (downstream system) has to be constructed by TSECL from P.K. Bari (TBCB) to P.K. Bari (TSECL) for optimum utilization of the system

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

Length	: 154.52 ckm
Locations	: 209 nos
Foundation completed	: 209 nos
Tower erected	: 209 nos
Stringing completed	: 154.52 ckm
Scheduled COD	: Jul'20
Anticipated COD	: Jan'21

**Constraints where Project Authority requires intervention:**

1. The proposal for PLCC Carrier frequency has been submitted to Ministry of Communication (WPC Wing) and the approval is still awaited. Support required to expedite the same. The WPC Wing has informed that the Frequency allotment has been temporarily closed by MOC, therefore in the interest of timely completion of the project CEA has been requested to grant an approval for use of proposed frequencies otherwise the line can't be charged.
2. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19 and this FM event has been intimated to all LTTCs
3. Facing Severe Right of Way (RoW) issue at Location No. AP17 - AP21 in Village – Ruprai, Tehsil – Kalyanpur, Sub Division – Teliamura and District – Khowai as the land owners are asking for undue compensation. Support required from District Administration for early resolution.

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

Details of Tr. Line Falling under Forest:-

Locations	: 79 nos.
Length	: 30.41 Km (36.632 KM forest affected stretch)
Forest area (ha)	: 139.931 ha
Forest proposals submitted on	: Submitted online on 09-Jan-18
Current status	: Stage-I & tree cutting permission received

**Power line crossing**

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

**Railway crossing**

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

**National Highway Crossing**

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

**River Crossings**

Total no. of crossings	: 0	nos.
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**PTCC approval**

Proposal submitted to Defence on – 17-Apr-18

Proposal submitted to BSNL on – 28-Apr-18

Proposal submitted to Railways on - 19-Apr-18

Current status: PTCC Approval received.

**Defence/Civil Aviation**

Proposal submitted to Defence/Civil Aviation on - Civil Aviation Submitted and NOC from Defence Received

Current Status: Civil Aviation Approval Received

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



Length	: 166.8 ckm
Locations	: 236 nos.
Foundation completed	: 236 nos
Tower erected	: 236 nos
Stringing completed	: 166.8 ckm
Scheduled COD	: Mar'20
Anticipated COD	: Jan'21

#### **Constraints where Project Authority requires intervention:**

1. The proposal for PLCC Carrier frequency has been submitted to Ministry of Communication (WPC Wing) and the approval is still awaited. Support required to expedite the same. The WPC Wing has informed that the Frequency allotment has been temporarily closed by MOC, therefore in the interest of timely completion of the project CEA has been requested to grant an approval for use of proposed frequencies otherwise the line can't be charged
2. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19 and this FM event has been intimated to all LTTCs

#### **Status of statutory approvals:**

##### **Forest**

Details of Tr. Line Falling under Forest:-

Locations: 20nos.

Length: 6.5km (7.65 KM forest affected stretch)

Forest area affected (ha) : 17.569 ha

Forest proposals submitted on 10-01.18

Current status: Stage-I received on 12 OCT'18, Final Tree cutting permission received

##### **Power line crossing**

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

##### **Railway crossing**

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

##### **National Highway Crossing**

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

##### **River Crossings**

Total no. of crossings	:	0	nos.
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##### **PTCC approval**

Proposal submitted to Defence on - 17-Apr-18

Proposal submitted to BSNL on - submitted

Proposal submitted to Railways on - 19-Apr-18

Current status: PTCC clearance received on 20 Sep'18.

##### **Defence/Civil Aviation**

Proposal submitted to Defence/Civil Aviation on - submitted

Current Status: Civil Aviation approval received and NOC from Defence received.

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

Length	: 133.64 ckm
Locations	: 211 nos
Foundation completed	: 189 nos
Tower erected	: 181 nos
Stringing completed	: 100 ckm
Scheduled COD	: Mar'20
Anticipated COD	: Feb'21

#### **Constraints where Project Authority requires intervention:**

1. Due to Non-grant of NOC, re-routing of line has been proposed by AAI. and proposal for the same has been submitted . AAI has not issued NOC certificate for 8 tower locations.
2. The proposal for PLCC Carrier frequency has been submitted to Ministry of Commnication (WPC Wing) and the approval is still awaited. Support required to expedite the same.The WPC Wing has informed that the Frequency allotment has been temporarily closed by MOC, therefore in the interest of timely completion of the project CEA has been requested to grant an approval for use of proposed frequenices otherwise the line can't be charged
3. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19 and this FM event has been intimated to all LTTCs

#### **Status of statutory approvals:**

##### **Forest**

Details of Tr. Line Falling under Forest:-

Locations	:	68nos.
Length	:	21.631km
Forest area affected (ha)	:	48.147
Forest proposals submitted on	:	31.07.2017(online submission date) Revised on 06.03.18
Current status	:	Assam state forest Stage-I received, Received
Tree Cutting permission		

##### **Power line crossing**

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

##### **Railway crossing**

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

##### **National Highway Crossing**

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

##### **River Crossings**

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

### **PTCC approval**

Proposal submitted to Defence on - submitted  
 Proposal submitted to BSNL on - submitted  
 Proposal submitted to Railways on - submitted  
 Current status: Received PTCC Approval

### **Defence/Civil Aviation**

Proposal submitted to Defence/Civil Aviation on - submitted  
 Current Status: NOC from Defence received and NOC from Civil Aviation is awaited

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

Length	:	356.56 ckm
Locations	:	487 nos
Foundation completed	:	486 nos
Tower erected	:	481 nos
Stringing completed	:	306 Ckm
Scheduled COD	:	Nov'20
Anticipated COD	:	Feb'21

### **Constraints where Project Authority requires intervention:**

1. The proposal for PLCC Carrier frequency has been submitted to Ministry of Communication (WPC Wing) and the approval is still awaited. Support required to expedite the same. The WPC Wing has informed that the Frequency allotment has been temporarily closed by MOC, therefore in the interest of timely completion of the project CEA has been requested to grant an approval for use of proposed frequencies otherwise the line can't be charged
2. RoW issue at Location No. AP 29 in village - Barjatrapur, Teshil – Katigora, District – Cachar as the land owners are asking for undue compensation.
3. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19 and this FM event has been intimated to all LTTCs

### **Status of statutory approvals:**

#### **Forest**

Details of Tr. Line Falling under Forest:-

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

#### **Power line crossing**

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

#### **Railway crossing**

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

### **National Highway Crossing**

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

### **River Crossings**

Total no. of crossings	:	0	nos.
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### **PTCC approval**

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

### **Defence/Civil Aviation**

Proposal submitted to Defence/Civil Aviation on - Submitted  
 Current Status: Approvals Received

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

Length	:	16.97 ckm
Locations	:	30 nos.
Foundation completed	:	30 nos.
Tower erected	:	30 nos
Stringing completed	:	16 ckm
Scheduled COD	:	Mar'20
Anticipated COD	:	Jan'21

### **Constraints where Project Authority requires intervention:**

1. Non-finalization of terminal bays at Gohpur S/s by AEGCL for the termination of LILO of one ckt of Biswanath Chariyalli – Itanagar 132kV D/C line at Gohpur S/s for utilization of LILO line
2. The proposal for PLCC Carrier frequency has been submitted to Ministry of Communication (WPC Wing) and the approval is still awaited. Support required to expedite the same. The WPC Wing has informed that the Frequency allotment has been temporarily closed by MOC, therefore in the interest of timely completion of the project CEA has been requested to grant an approval for use of proposed frequencies otherwise the line can't be charged
3. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19 and this FM event has been intimated to all LTTCs.

### **Status of statutory approvals:**

#### **Forest**

Details of Tr. Line Falling under Forest:-

Locations	:	18 nos.
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Length : 5.1km  
 Forest area (ha) : 23.782  
 Forest proposals submitted on - 31.07.2017(online submission date)  
 Current status: Stage-I received, Received Tree Cutting Permission.

#### **Power line crossing**

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

#### **Railway crossing**

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

#### **National Highway Crossing**

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

#### **River Crossings**

Total no. of crossings : 0 nos.

#### **PTCC approval**

Proposal submitted to Defence on - Submitted  
 Proposal submitted to BSNL on - submitted  
 Proposal submitted to Railways on - Submitted  
 Current status: Received PTCC Approval

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

### **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:	Space will be provided by OTPC
Civil work completed:	0
Equipment supplied:	0
Equipment erection:	0
Scheduled COD	Jul'20

#### **Constraints/Approval if any:**

1. Percentage of Work completion as informed by OTPC is 87%

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

Land Acquired:	Space will be provided by NEEPCO
Civil work completed:	100%

Equipment supplied: 100%  
Equipment erection: 100%  
Scheduled COD Mar'20  
Anticipated COD Dec'20 (Received Approval for Energization certificate from Electrical Inspector, CEA on 01-12-2020)

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

Land Acquired: Space will be provided by TSECL  
Civil work completed: 100%  
Equipment supplied: 100%  
Equipment erection: 100%  
Scheduled COD Mar'20  
Anticipated COD Dec'20 (Received Approval for Energization certificate from Electrical Inspector, CEA on 01-12-2020)

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

Land Acquired: Space will be provided by DoP, AP  
Civil work completed: 100%  
Equipment supplied: 100%  
Equipment erection: 100%  
Scheduled COD Mar'20

Filed Application for Electrical Inspection on 07-04-2020

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

### **Background**

#### **Scope of transmission project**

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

#### **General Details**

Special Purpose Vehicle	: Goa-Tamnar Transmission Project Limited (Sterlite Grid 5 Limited; a subsidiary of Sterlite Power Transmission Limited)
Bid Process Coordinator (BPC)	: Power Finance Corporation
Estimated Cost (Rs. Crs)	: 1531
Levelised Tariff(Rs. Crs)	: 164.775
Request for Qualification	: 01.02.2017
Request for Proposal	: 01.05.2017
Letter of Intent	: 30.11.2017
Transmission Service Agreement (TSA)	: 28.06.2017
SPV acquisition	: 14.03.2018
Transmission License by CERC	: 13.07.2018
Tariff adoption by CERC	: 13.07.2018
Contract Performance Guarantee	: 05.01.2018
Clearance u/s 164	: 29.11.2018
Execution plan submitted to CEA	: 10.07.2018
NIT issued on	:
EPC contract awarded on	: 29-12-2017
Scheduled Date of Completion	: Nov'21

#### **Status of progress of transmission project**

##### **1. LILO of one ckt of Narendra (Existing) - Narendra (New) 400kV D/C Quad line at Xeldem**

Length:	187.35 CKm
Locations:	233 nos.
Foundation completed:	2 nos.
Tower erected:	0 nos
Stringing completed:	0 ckm
Scheduled COD:	14 Nov'21
Anticipated COD:	Apr'22

#### **Constraints/Approval if any:**

1. Delay in getting forest and wildlife clearances. Support required for expediting the same.
2. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19 and this FM event has been intimated to all LTTCs
3. The progress is suffered due to petition filed by Goa Foundation in Central Empowered Committee (CEC) constituted by Supreme court and High Court of Mumbai & Goa.

#### **Details of followup actions:**

1. CEA letter to Nodal officer/APCCF, Karnataka bearing Ref No. CEA-PS-13-24(21)/1/2018-PSPM dated 22-01-2020
2. CEA letter to Nodal officer/APCCF, Karnataka bearing Ref No. CEA-PS-13-24(11)/1/2018-PSPM dated 08-09-2020
3. MOP meeting held on 23 Oct 2020 under the chairmanship of JS (Trans) along with CEA, M/s GTTPL and CCF, Govt of Karnataka.

#### **Status of statutory approvals:**

##### **Forest area**

Details of Tr. Line Falling under Forest:-

Locations	:	91 nos.	; Length :36.77 Kms
Forest area (Ha)	:	183 Ha	
Forest proposals submitted on	:	Karnataka :12 Oct'18,Goa : 24 Aug '18	
Current status	:	Goa State Forest : at MoEF Karnataka Forest : at Nodal Officer	

##### **Wildlife area**

Details of Tr. Line Falling under Wildlife:-

Locations	:	23 nos.	; Length : 9.031 Km
Wildlife area (Ha)	:	42 Ha	
Wildlife proposals submitted on	:	Wild Life Goa :25 Aug'18 Wild Life Karnataka : 13 Oct'18	
Current status	:	Goa – at SBWL Karnataka – at Wildlife Warden	

##### **Power line crossing**

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

##### **Railway crossing**

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

##### **National Highway / SH Crossing**

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



Approval obtained : 2nos.

### **River Crossings**

Total no. of crossings : 0nos.

Proposal submitted : 0nos.

Approval obtained : 0nos

### **PTCC approval**

Proposal submitted to Defence : Yes

Proposal submitted to BSNL : Yes

Proposal submitted to Railways : Yes

Current status : Received CEA (PTCC) Recommendation for Goa portion and received PTCC Approval for Karnataka Portion.

### **Defence/Civil Aviation**

Proposal submitted to Defence/Civil Aviation : Yes proposal submitted

Current Status: approved

## **2. Xeldem - Mapusa 400kV D/C Quad Line**

Length: 109.6 CKm

Locations: 146 nos.

Foundation completed: 8 nos.

Tower erected: 2 nos

Stringing completed: 0 ckm

Scheduled COD: 14 May'21

Anticipated COD: Oct'21

### **Constraints/Approval if any:**

1. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19 and this FM event has been intimated to all LTTCs
2. The progress is suffered due to petition filed by Goa Foundation in Central Empowered Committee (CEC) constituted by Supreme court and High Court of Mumbai & Goa

### **Status of statutory approvals:**

#### **Forest area**

Details of Tr. Line Falling under Forest:-

Locations : 40 nos. ; Length : 15.162 Km

Forest area (Ha) :

Forest proposals submitted on : 01 July'18

Current status : Stage-1 Approval Received

#### **Wildlife area**

Details of Tr. Line Falling under Wildlife:-N/A

Locations : nos. ; Length : mtrs

Wildlife area (Ha) :

Wildlife proposals submitted on :

Current status :

**Power line crossing**

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

**Railway crossing**

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

**National Highway / SH Crossing**

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

**River Crossings**

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

**PTCC approval**

Proposal submitted to Defence on	:	1
Proposal submitted to BSNL on	:	1
Proposal submitted to Railways on	:	1
Current status	:	approved

**Defence/Civil Aviation**

Proposal submitted to Defence/Civil Aviation on : Yes proposal submitted  
Current Status: approved

**3. Dharamjaygarh Pool Section B - Raigarh (Tamnar) Pool 765kV D/C Line**

Length:	137 CKm
Locations:	178nos.
Foundation completed:	42 nos.
Tower erected:	12 nos
Stringing completed:	0 ckm
Scheduled COD:	14 July '21
Anticipated COD:	July'21

**Constraints/Approval if any:**

1. Delay in getting forest clearance. Support required for expediting the same.
2. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19 and this FM event has been intimated to all LTTCs

**Details of followup actions:**

1. CEA letter to PCCF, Chhattisgarh bearing Ref No. CEA/PS/PSPM/1/57/41/2018/1532-33 dated 12-10-2018
2. CEA letter to PCCF, Chhattisgarh bearing Ref No. CEA-PS-13-24(21)/1/2018-PSPM dated 23-10-2019

**3. CEA letter to PCCF, Chhattisgarh bearing Ref No. CEA-PS-13-24(11)/1/2018-PSPM dated 12-05-2020**

**4. CEA letter to Principal Secretary (Forests), Chhattisgarh bearing Ref No. CEA-PS-13-22(13)/1/2018-PSPM dated 10-09-2020**

**Status of statutory approvals:**

**Forest area**

Details of Tr. Line Falling under Forest:-

Locations	:	65 nos.	; Length : 20.45	mtrs
Forest area (Ha)	:	137.014		
Forest proposals submitted on	:	10 Aug'18		
Current status	:	at State Government		

**Wildlife area**

Details of Tr. Line Falling under Wildlife:- N/A

Locations	:	nos.	; Length :	mtrs
Wildlife area (Ha)	:			
Wildlife proposals submitted on	:			
Current status	:			

**Power line crossing**

Total no. of crossings	:	9 nos.
Proposal submitted	:	9nos.
Approval obtained	:	9 nos.

**Railway crossing**

Total no. of crossings	:	2 nos.
Proposal submitted	:	2 nos.
Approval obtained	:	0 nos.

**National Highway / SH Crossing**

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

**River Crossings**

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

**PTCC approval**

Proposal submitted to Defence	:	Yes
Proposal submitted to BSNL	:	yes
Proposal submitted to Railways	:	Yes
Current status	:	Approval Recieved

**Defence/Civil Aviation**

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

#### **4. Xeldem (existing) – Xeldem (new) 220kV D/C line**

Length:	40 CKm
Locations:	62 nos.
Foundation completed:	0 nos.
Tower erected:	0 nos
Stringing completed:	0 ckm
Scheduled COD:	14 May'21
Anticipated COD:	Oct'21

#### **Constraints/Approval if any:**

1. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19 and this FM event has been intimated to all LTTCs
2. The progress is suffered due to petition filed by Goa Foundation in Central Empowered Committee (CEC) constituted by Supreme court and High Court of Mumbai & Goa

#### **Status of statutory approvals:**

##### **Forest area**

Details of Tr. Line Falling under Forest:-

Locations	: 19 nos.	; Length : 8.8 Kms
Forest area (Ha)	: 28.24 Ha	
Forest proposals submitted on	: 02 Aug'18	
Current status	: Stage-1 Approval Received	

##### **Wildlife area**

Details of Tr. Line Falling under Wildlife:-N/A

Locations	: nos.	; Length : mtrs
Wildlife area (Ha)	:	
Wildlife proposals submitted on	:	
Current status	:	

##### **Power line crossing**

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

##### **Railway crossing**

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

##### **National Highway / SH Crossing**

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

##### **River Crossings**

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

**PTCC approval**

Proposal submitted to Defence :Yes  
Proposal submitted to BSNL :Yes  
Proposal submitted to Railways :Yes  
Current status : Pending

**Defence/Civil Aviation**

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

**5. 2x500 MVA, 400/220 kV S/s at Xeldem (Goa)**

Land Acquired:	100%.
Civil work completed:	0%
Equipment supplied:	0 %
Equipment erection:	0%
Scheduled COD	14 May'21
Anticipated COD	Oct'21

**Constraints/Approval if any:**

1. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19 and this FM event has been intimated to all LTTCs
2. The construction work will be started after getting NoC/CLU order from Revenue authorities. The construction License from Gram Panchayat, Molem has been received on 13 Nov 2020.
3. The progress is suffered due to petition filed by Goa Foundation in Central Empowered Committee (CEC) constituted by Supreme court and High Court of Mumbai & Goa

## 11) Name of transmission project – Establish Transmission System for 400 kV Udupi (UPCL) – Kasargode D/C Line

**Background** - Udupi– Kasargode 400kV (Quad) D/c line was planned for improving reliability of power supply & stability in Northern area of Kerala and relieving congestion between S1 (Andhra Pradesh, Telangana & Karnataka) – S2 (Tamil Nadu & Kerala) corridor.

### Scope of transmission project

1. Mangalore (Udupi PCL) – Kasargode 400kV (Quad) D/c line
2. Establishment of 2x500MVA, 400/220 kV GIS substation at Kasargode
3. 2 nos. of 400kV line bays and Bus Bar Extension Works at UPCL switchyard

### General Detail

Special Purpose Vehicle (SPV)	:	Udupi Kasargode Transmission Limited.(Sterlite Grid 14 Limited; a subsidiary of Sterlite Power Transmission Limited)
Bid Process Coordinator (BPC)	:	REC Transmission Projects Co. Ltd
Estimated Cost (Rs. Crs)	:	754.87
Levellised Tariff (Rs. Crs)	:	84.744
Request for Qualification	:	15.09.2018
Request for Proposal	:	31.12.2018
Letter of Intent	:	31.07.2019
Transmission Service Agreement (TSA)	:	28.02.2019
SPV acquisition	:	12.09.2019
Transmission License by CERC	:	24-01-2020
Tariff adoption by CERC	:	28-01-2020
Contract Performance Guarantee	:	12.09.2019
Clearance u/s 164	:	In process
Execution plan submitted to CEA	:	08-01-2020
NIT issued on	:	
EPC contract awarded on	:	13-08-2020 (Transmission Line) 12-08-2020 (S/s and Bay extension)
Scheduled Date of Completion	:	12.11.2022 (38 months from Effective Date)

### Status of progress of transmission project

#### 1. Udupi (Mangalore) – Kasargode 400kV D/C line

Length:	230.94 ckm
Locations:	310 nos.
Foundation completed:	0 nos.
Tower erected:	0 nos
Stringing completed:	0 ckm
Scheduled COD:	11 <sup>th</sup> Nov 2022
Anticipated COD:	18 <sup>th</sup> Mar 2022

### Current Status:

1. EPC Partner has been taken on board
2. Detail Survey is in process.
3. Foundation work will be started after receipt of Sec-164 approval and finalization of Engineering drawings.
4. Design and Engineering work is in process.
5. Gazette Notification for Sec-164 has been published.

### **Status of statutory approvals:**

#### **Forest area**

Details of Tr. Line Falling under Forest:-

Locations : 24 nos. ; Length : 9.45 Kms  
 Forest area (Ha) : 43.47 Ha  
 Current status : Forest Diversion proposal will be submitted once the detail survey is completed

#### **Power line crossing**

Total no. of crossings : 7 nos.  
 Proposal submitted : 0 nos.  
 Approval obtained : 0 nos.

#### **Railway crossing**

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

#### **National Highway / SH Crossing**

Total no. of crossings : 7 nos.  
 Proposal submitted : 0 nos.  
 Approval obtained : 0 nos.

#### **River Crossings**

Total no. of crossings : 2 nos.  
 Proposal submitted : 0 nos.  
 Approval obtained : 0 nos.

#### **PTCC approval**

Current status : Proposal is yet to be submitted

#### **Defence/Civil Aviation**

Current status : Proposal is yet to be submitted

### **6. Establishment of 2\*500MVA, 400/220kV GIS S/s at Kasargode**

Land Acquired: 100%  
 Civil works: 0%  
 Equipment supplied: 0%  
 Equipment erection: 0%  
 Scheduled COD 11<sup>th</sup> Nov 2022  
 Anticipated COD: 18<sup>th</sup> Mar 2022

**Current Status:**

1. Substation land has been Acquired.
2. Soil testing has been done on the S/s land.
3. EPC Partner has been taken on board
4. Design and Engineering work is in process
5. Applied for permanent / construction power connection.

**7. 2 nos of 400kV line bays and Bus Bar extension works at UPCL Switchyard**

Land Acquired:	Space will be provided by UPCL
Civil work completed:	0%
Equipment supplied:	0%
Equipment erection:	0%
Scheduled COD:	11 <sup>th</sup> Nov 2022
Anticipated COD:	18 <sup>th</sup> Mar 2022

**Current Status:**

1. A meeting was held between UKTL and UPCL for document sharing and start of Bay extension work.
2. EPC Partner has been taken on board.
3. Design and Engineering work is in process



## **12) Western Region Strengthening Scheme-XIX (WRSS-XIX) and North Eastern Region Strengthening Scheme-IX (NERSS-IX)**

### **Background -**

### **Scope of transmission project**

#### **General Detail**

Special Purpose Vehicle (SPV)	:	Vapi II- North Lakhimpur Transmission Limited Sterlite Grid 13 Limited (A Subsidiary of Sterlite Power Trans. Limited)
Bid Process Coordinator (BPC)	:	PFCCL
Estimated Cost (Rs. Crs)	:	2000
Levellised Tariff (Rs. Crs)	:	256.592
Request for Qualification	:	14.08.2018
Request for Proposal	:	13.11.2018
Letter of Intent	:	02.03.2020
Transmission Service Agreement (TSA)	:	07.12.2018
SPV acquisition	:	23.06.2020
Transmission License by CERC	:	
Tariff adoption by CERC	:	
Contract Performance Guarantee	:	23.06.2020
Clearance u/s 164	:	
Execution plan submitted to CEA	:	20-10-2020
NIT issued on	:	
EPC contract awarded on	:	

### 13) WRSS – 21 Part – B – Transmission System Strengthening for Relieving Over Loadings Observed in Gujarat Intra-State System Due to Re-injections in Bhuj PS

**Background** - The scheme involves implementation of Lakadia – Vadodara 765kV D/c line which helps in transfer of power from RE sources in the Kutchh area of Gujarat to Vadodara for onward dispersal of power to their respective beneficiaries

#### Scope of transmission project:

1. Lakadia – Vadodara 765kV D/c line
2. 330MVAR switchable line reactors at both ends of Lakadia – Vadodara 765kV D/c line along with 500 ohms NGR at both ends of Lakadia – Vadodara 765kV D/c line (330 MVAR line reactor - 4 nos. & 765kV Reactor bay - 4 nos.)
3. 2 nos of 765kV bays each at Lakadia and Vadodara S/s for Lakadia – Vadodara 765kV D/c line (765kV line bay - 4 nos.)

#### General Detail

Special Purpose Vehicle (SPV)	:	Lakadia – Vadodara Transmission Project Limited; Sterlite Grid 18 Limited(A Subsidiary of Sterlite Power Trans. Limited)
Bid Process Coordinator (BPC)	:	PFCCCL
Estimated Cost (Rs. Crs)	:	2100
Levellised Tariff (Rs. Crs)	:	178.866
Request for Qualification	:	17.01.2019
Request for Proposal	:	18.03.2019
Letter of Intent	:	31.07.2019
Transmission Service Agreement (TSA)	:	23.04.2019
SPV acquisition	:	26.11.2019
Transmission License by CERC	:	04.03.2020
Tariff adoption by CERC	:	05.03.2020
Contract Performance Guarantee	:	26.11.2019
Clearance u/s 164	:	25-09-2020
Execution plan submitted to CEA	:	18-03-2020
NIT issued on	:	
EPC contract awarded on	:	16-01-2020, 23-01-2020 and 22-02-2020
		(Transmission lines)
		18-12-2019 (Bay Extension & Reactor)
Scheduled Date of Completion	:	31-12-2020

#### 1. Lakadia – Vadodara 765kV D/c line

Length:	658 cKm
Locations:	798 nos.
Foundation completed:	217 nos.
Tower erected:	55 nos.
Stringing completed:	0 ckm
Scheduled COD:	31-Dec-2020.

Anticipated COD: Oct'21

**Constraints/Approval if any:**

- i. Delay in bidding process and Acquisition of SPV.
- ii. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19 and this FM event has been intimated to all LTTCs
- iii. Delay in Submission of Sec-164 Application due to lockdown situation
- iv. Facing severe RoW issues in Kutch, Morbi, Surendranagar, Ahmedabad, Anand, Kheda and Vadodara Districts of Gujarat as the land owners are asking for undue compensation. Support required from the concerned District Collectors for resolution of same.
- v. Working permission and support is required from District Collectors of Morbi and Kutch Districts to execute the construction work in Government land (40 locations), We are facing problems in the locality where undue compensation is being sought for Govt land.
- vi. Delay in grant of Forest clearance (Diversion of 47.827 Ha of Forest land) and Wildlife clearance (Diversion of 30.81 Ha of Wildlife land).

**Details of followup actions:**

1. CEA letter to Additional Chief Secretary(Forests and Environment), Gujarat bearing Ref No. CEA-PS-13-22(13)/1/2018-PSPM dated 02-06-2020
2. CEA letter to Additional Chief Secretary(Revenue), Gujarat bearing Ref No. CEA-PS-13-22(13)/1/2018-PSPM dated 10-06-2020
3. CEA letter to Additional Chief Secretary(Forests and Environment), Gujarat bearing Ref No. CEA-PS-13-22(13)/1/2018-PSPM dated 27-09-2020
4. MOP letter to CEA bearing Ref No 12/7/2017-Trans-Part(2) dated 07-10-2020

**Status of statutory approvals:**

**Forest area**

Details of Tr. Line Falling under Forest:-

Locations	: 3 nos.	; Length : 2.5 Kms
Forest area (Ha)	: 17.017 Ha	
Forest proposals submitted on	: 28-Nov-19,	Resubmitted on 31-Dec-19
Current status	: Nodal officer,	Gandhi nagar

**Wildlife area**

Details of Tr. Line Falling under Wildlife:-

Locations	: 15 nos.	; Length : 4.6 kms
Wildlife area (Ha)	: 30.81 Ha	
Wildlife proposals submitted on	: 19-Dec-19,	Resubmitted on 03-Mar-20
Current status	: Approved by	SBWL

**Power line crossing**

Total no. of crossings	: 83 nos.
Proposal submitted	: 83 nos.
Approval obtained	: 56 nos.

**Railway crossing**

Total no. of crossings	:	14 nos.
Proposal submitted	:	14 nos.
Approval obtained	:	2 nos.

**National Highway / SH Crossing**

Total no. of crossings	:	32 nos.
Proposal submitted	:	32 nos.
Approval obtained	:	20 nos.

**River Crossings**

Total no. of crossings	:	2 nos.
Proposal submitted	:	2 nos.
Approval obtained	:	0 nos.

**PTCC approval**

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

**Defence/Civil Aviation**

Proposal submitted to Defence/Civil Aviation on: Civil Aviation & Defence proposal submitted

Current Status: NOC from Civil aviation received. Defence NOC received for Makarpura (Vadodara) and Bhuj section

**2. 2 nos of 765kV bays at Vadodara S/s for Lakadia – Vadodara 765kV D/c line**

Land Acquired:	Space will be provided by M/s PGCIL
Civil work completed:	39%
Equipment supplied:	52%
Equipment erection:	0%
Scheduled COD	31 <sup>st</sup> Dec'2020
Anticipated COD	Oct'21

**Constraints/Approval if any:**

- i. Delay in bidding process and Acquisition of SPV
- ii. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19 and this FM event has been intimated to all LTTCs.

**3. 2 nos of 765kV bays at Lakadia S/s for Lakadia – Vadodara 765kV D/c line**

Land Acquired:	S/s land coordinates has been shared by M/s Adani
Civil work completed:	3%
Equipment supplied:	26%
Equipment erection:	0%

Scheduled COD	31 <sup>st</sup> Dec'2020
Anticipated COD	Oct'21

**Constraints/Approval if any:**

- i. Delay in bidding process and Acquisition of SPV
- ii. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19 and this FM event has been intimated to all LTTCs.

**8. 330MVAR switchable line reactors at both ends of Lakadia – Vadodara 765kV D/c line along with 500 ohms NGR at both ends of Lakadia – Vadodara 765kV D/c line (330 MVAR line reactor - 4 nos. & 765kV Reactor bay - 4 nos.)**

Scheduled COD	31 <sup>st</sup> Dec'2020
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## **14) Name of transmission project - Development of Additional Inter regional AC link for import into Southern region i.e Warora-Warangal and Chilakaluripeta – Hyderabad – Kurnool 765 kV link**

### **Background**

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

### **Scope of transmission project**

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

#### **765 kV bay requirement (in Warangal)**

Line bays: 06 No.

Transformer bays: 02 No.

Space for future line bays: 06 No.

#### **400 kV bay requirement (in Warangal)**

Line bays: 02 No.

Transformer bays: 02 No.

Space for future line bays: 08 No.

2. Warora (Pool) – Warangal (New) 765 kV D/C line with 240 MVAR switchable line reactor at both ends
3. Warangal (New) – Hyderabad 765 kV D/C line with 240 MVAR switchable line reactor at Warangal end of each circuit.
4. Warangal (New) – Warangal (existing) 400 kV (quad) D/C line.
5. Hyderabad- Kurnool 765 kV D/C line with 240 MVAR switchable line reactor at Kurnool end of each circuit.
6. Warangal (New) – Chilakaluripeta 765 kV D/C line with 240 MVAR switchable line reactor at both ends of each circuit.
7. 240 MVAR Switchable Line Reactors with Bays at Warora (Pool) end in each circuit of Warora (Pool)- Rajnandgaon 765kV D/c line with NGR (700 Ohm)

### **General Detail**

Special Purpose Vehicle (SPV)	:	Warora Kurnool Transmission Ltd. (A subsidiary of Essel Infraproj. Ltd)
Bid Process Coordinator (BPC)	:	PFCCL
Estimated Cost (Rs. crs)	:	4805
Request for Qualification	:	11.09.2015
Request for Proposal	:	30.11.2015
Letter of Intent	:	29.02.2016
Transmission Service Agreement (TSA)	:	06.01.2016
SPV acquisition	:	06.07.2016
Transmission License by CERC	:	29.09.2016
Tariff adoption by CERC	:	30.08.2016
Contract Performance Guarantee	:	01.07.2016
Clearance u/s 164	:	Gazette publication on 10.07.2017

Execution plan submitted to CEA	:	02.11.2016
NIT issued on	:	
EPC contract awarded on	:	30.08.2016
Scheduled Date of Completion	:	Nov-2019
Anticipated Date of Completion	:	Mar'22 / Minimum 15 no. of working months required from the date of resolution of CERC Petitions, Wildlife Approval, TSIC and Court proceedings etc

Ministry of Power(MoP) vide their letter No. 7/1/2017-Trans dated 16.04.2020 conveyed the following.

1. MoP, GoI has decided that M/s WKTL, the developer of Warora-Warangal 765 kV D/C Transmission Line is required to complete the balance works in above line as per the original approved route in the coal bearing area of WCL involving 16 towers without any further delay and also to comply all other decisions of MoP conveyed as per above letter dated 16.04.2020. Further, WKTL is required to complete all the elements in the above Scheme within the framework of the contractual obligations. It is also requested that the latest status and implementation schedule of all the elements of above line may be conveyed to CEA at the earliest.
2. Lead Long Term Transmission Customer(LTTC), i.e., TANGENDCO Ltd, is requested to take necessary action as per TSA to ensure that there is no further delay in completion of the above project.

M/s WKTL is also advised that in case of any constraints in completion of the above project as per established procedure, the developer may approach CERC for redressal of the issues if any, as MoP/CEA only facilitates the project implementation in a time bound manner. The Project was stalled due to force majeure issues including non resolution of issues pertaining to coal bearing areas associated with Western Coal Fields (WCL) and Singareni Coll. Co. Ltd. (SCCL) (Detailed update is provided in 'Other issues' section) .

While WKTL has filed detailed petition (dated 5<sup>th</sup> March 2020) with Central Electricity Regulatory Commission for extension of Scheduled Commercial Operations Date along with consequential reliefs, Project implementation is expected to be further worsened pursuant to lockdown imposed by the Central Government of India wherein on all movements have been restricted from 24<sup>th</sup> March to 14<sup>th</sup> April owing to Corona Outbreak /Pandemic (COVID-19). The resultant impact of the force majeure event shall be shared in due course.

The lenders of WKTL have filed Petition (71 /MP/2020) with Central Electricity Regulatory Commission seeking approval under Section 17(3), &(4) and Section 79(1)(c) of the Electricity Act, 2003 read with Regulation 12 of the Central Electricity Regulatory Commission (Procedure, Terms and Conditions for grant of Transmission Licence and other related matters) Regulations, 2009 and Article 15.3 of the Transmission Service Agreement dated 06.01.2016 for the approval of the Hon'ble Commission to transfer the shares and management control of WKTL in favour Adani Transmission Ltd. Adani Transmission Ltd has been declared successful bidder for acquisition of WKTL pursuant to public auction conducted by consortium lenders through an independent consultant.

## **Status of progress of transmission project**

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

Land Acquired:	100%.
Civil work completed:	47%
Equipment supplied:	60% substation material 10 no. of reactors
Equipment erection:	Structure erection & earthing work is in progress
Scheduled COD:	Nov'19
Anticipated COD:	
Constraints/Approval if any:	Nil

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

Length:	645.742 ckm
Locations:	827 nos.
Foundation completed:	774 nos.
Tower erected:	425 nos.
Stringing completed:	58.6 CKM
Scheduled COD:	Nov'19
Anticipated COD:	

**Constarints where Project Authority requires intervention:**

- **RoW issue:** Severe RoW issue in the stretch of AP 5B - AP 6, AP 15 – AP 16, AP 27– AP 28 , AP 58, AP 99A – AP 102, AP 89 – AP 90, AP 95–AP 96, AP 100A/1, AP 100A/2, AP 100A/3, AP 100A/5 and, AP 116 /8, AP 116/9, AP 116/11, AP 116/12, AP 116/14, AP 116/17, AP 116/18, AP 118/1, AP 118/3, AP 118A/0, AP 118A/4, AP 118A/1, AP 118B/1, AP 118/6.
- The work execution in 765 kV D/C Warora (Pool) – Warangal (New) Transmission line, under state Maharashtra is stopped completely from 05th Oct 2018 due to farmer agitation demanding higher compensation for the construction of transmission line at their fields. This agitation is being led by a local political leader-cum-MLA and land owners of entire area are not allowing project executing team to enter in their fields at any cost, though WKTL have already settled the RoW compensation as per demand provided by Govt. Land and Revenue Department after conducting the TLR survey. Under the continuously extended support by District Administration, the work could only be taken up at site.
- **Court Case :** The Office of Tehsildar, Rajura, Distt. - Chandrapur directed us to stop the transmission tower execution work at tower loc. no. 89/8 of 765 kV D/C Warora (Pool) – Warangal (New) Transmission line immediately in terms of stay order, dated 17/10/2018 passed by the Hon'ble High Court Mumbai, Nagpur Bench in the Writ Petition no. 6980/2018 filed by land owner. WKTL have already filed our reply before the Court, however the court has scheduled the matter on 20.10.2020 for hearing.
  - Farmers in the section AP 89-AP 98 of 765 kV D/C Warora-Warangal Line (Maharashtra Section) have filed a writ petition (Civil) No 2269/2019 in the Nagpur Bench of Bombay High court against the compensation amount finalized by the District Magistrate Chandrapur. The hearing of the case is scheduled on 16/06/2021. Though, the Court has not passed any order till date in this case, however farmers are reluctant to continue the execution work on those respective locations.



**Other issues:**

- **Stalemate in project construction work due to coal bearing areas associated with Western Coal Fields (WCL) and Singareni Coll. Co. Ltd. (SCCL) for traversing WKTL line through their expected and future OC mining area:**

Vide its letter dated 28.09.2018 WCL and letter dated 12.10.2018 Singareni Coll. Co. Ltd directed WKTL to stop ongoing tower construction work in *Penganga* OC mine area and in the area of *Prof. Jayashankar Open Cast Project* with diversion of all upcoming WKTL transmission towers beyond their projected OC mining area respectively.

These issues were also discussed during the review meeting called by the Hon'ble Joint Secretary (Transmission), Ministry of Power (GoI) in presence of the Representatives of WCL & SCCL. During the discussion, it was decided that WKTL shall proceed on its identified routes and the diversion of the line shall be taken up later when the mining activities would start. WKTL was unable to resume its work in that area till receipt the minutes of this meeting, which was issued on 11.02.2019.

Post receipt of minutes from Ministry of Power on 11.02.2019, WKTL started its construction activities as per its approved route alignment u/s 164 of EA-2003, considering any future line diversion at the cost of lateral entrant.

On 11.04.2019, the Joint Secretary (Ministry of Coal) called WKTL for a joint discussion at Shastri Bhavan, New Delhi, where representative of WCL and SCCL were also presented. After entire discussion, the Joint Secretary (Ministry of Coal) directed WCL & SCCL to come up with their issued notifications under section 4 of Coal Bearing Areas (Acquisition and Development) Act, 1957 prior to commencement of their mining operations latest by 16.04.2019. In case of non-availability of such notifications prior to WKTL transmission line route alignment approval u/s 164 of Electricity Act -2003, the original alignment prevails. However, WKTL was directed to stop the project execution in that area till issuance of further orders from Ministry of Coal. We also pursued with the Ministry of Coal sincerely to get the developments for the resolution of this matter, we are yet to receive any further communication from Ministry of Coal.

Thereafter, in the review meeting called by Chief Engineer (CEA) on 30.05.2019, WKTL informed that 765 kV D/C Warora-Warangal line is the pre-requisite transmission element for the commissioning of most of the elements of this project but is adversely affected under the objections raised by WCL and SCCL since November, 2018. In absence of clear direction from MoP & MoC for WKTL compensation of additional time and cost required for transmission line diversion, the work progress of 765 kV D/C Warora-Warangal is completely held up. It was also informed that under current scenario, it will take minimum 13 working months after resolution of this issue which is still pending with MoC. The Lead LTTC (TANGEDCO) was also presented in this meeting and raised his concern over diversion of approved route of transmission line at this advanced stage, as this may have implication on transmission tariff of the project and completion timeline. However, Lead LTTC also assured to extend all support required for completion of this project in the scheduled timeline.

Further, WKTL also put its case in the meeting held in MoP on dated 03.06.2019 before the Chief Engineer (Trans.) and requested MoP to resolve the issue in discussion with MoC and accordingly direct WKTL on the further steps to be taken to complete the WKTL transmission project. The minutes of this meeting were issued on 18.06.2019 in which it

was concluded through constitution of committee led by Chief Engineer (CEA) and having representatives from MoC, WCL, CMPDI, SCCL, CEA and WKTL to examine the issue along with relevant notifications/guidelines and submit its options for resolution of the matter within 15 days of its constitution. Thereafter, MoP constituted a Committee through its Order dated 26.06.2019 to examine the issue of WKTL 765 kV D/C Warora-Warangal transmission line, consisting representatives of MoC, WCL, SCCL, CPMDI and WKTL and under chairmanship of Chief Engineer (CEA). CEA also by letter dated 03.07.2019 asked nomination of Officers from MoC, WCL, SCCL, CPMDI and WKTL to be the designated members of this committee constituted as per MoP Order dated 26.06.2019. In response, WKTL confirmed the requisite details of its Officers to be designated as committee member.

Site visit was conducted with the representative of WCL, SCCL, CMPDI, CEA and WKTL. As decided in the 1<sup>st</sup> Committee meeting, WKTL had joint survey with WCL, CMPDI, and CEA On 26<sup>th</sup> July 2019 and the alternative routes were explored. During discussion of WKTL with SCCL on 29<sup>th</sup> July 2019, they have agreed that since they have 7-10 years of time lap between commencing the mining activity as such they will allow us to follow the same route. However, diversion when required shall be carried out by WKTL and who will bear the cost is required to be decided.

A meeting of LTTCs, Officials of CEA, WCL, SCCL, CMPDI and WCL happened under the chairmanship of CE, CEA on 19<sup>th</sup> Sept 2019 at the Office of CEA. A meeting was convened by MoP on 19<sup>th</sup> September 2019 and attended by officials of LTTCs, CEA, MoC, WCL, SCCL, CMPDI and the recommendation of committee were presented by CEA. MoP optioned that if WCL require shift of alignment where the most of the work has been completed, then they are required to bear the cost of shifting. WCL is asked to get the board approval and confirm within a specific otherwise the constructed route shall be followed.

Further, a meeting was convened by the additional Secretary (Trans.), MoP on 14<sup>th</sup> November 2019 which was attended by representative of MoC, LTTCs, CEA and WKTL. The matter was discussed and the chairperson has asked specific questionnaire to be replied by the CEA. It was decided that on receipt of the same, the decision on the issue shall be taken in the next meeting.

A joint survey among committee member (including Lead LTTC, representative from PFC, CEA, CTU, WCL, CMPDI and WKTL) was conducted on 16<sup>th</sup> January 2020. The recommendation of committee was sent on 04.02.2020 to the Ministry of Power. Subsequently, MoP vide letter dated 16.04.2020 has conveyed to CEA that M/s WKTL, the developer of the Warora-Warangal 765 kV D/C transmission line, may be asked to complete the balance works in 765 kV Warora-Warangal line as per original route in coal bearing area of WCL involving sixteen (16) towers without any further delay.

## **Status of statutory approvals:**

### **Forest**

Details of Tr. Line Falling under Forest:-

Locations	:	22
Length	:	10.057 Kms
Forest area affected (ha)	:	19.793 ha (2.954 Kms) in Maharastra + 47.592 ha (7.103 Kms) in Telangana
Forest proposals submitted on	:	Maha – 4 <sup>th</sup> Aug 17, Telengana – 23 Aug 17
Current status	:	<b>Maharashtra</b> – Stage I received on 05.02.2018

**Telangana** - Stage – I received on 13<sup>th</sup> Dec 2018 and communicated by PCCF Office to respective DFO on 24.12.2018.

### **Wildlife Clearance**

Details of Tr. Line Falling under Wildlife:-

Locations	:	01 No.	
Length	:	0.465 Kms	
Forest area affected (ha)	:	3.1142 ha (0.465 Kms) in Telangana	
Forest proposals submitted on	:	<b>Telangana</b> – 26th Feb 18	
Current status	:	Proposal forwarded by State Government to Member Secretary (NBWL) on 20.11.2018. Proposal forwarded to NTCA for their recommendation and MoEF&CC asked State Govt. to submit SBWL MoM. The SBWL Telangana Govt. recommended the wildlife proposal to Member SEcy NBWL MoEF, New Delhi for their consideration and approval of the project. Next meeting of NBWL (National Board of Wildlife clearance, MoEF&CC, New Delhi) expected in January 2021	

### **Power line crossing**

Total no. of crossings	:	27 nos.	
Proposal submitted	:	27 nos.	Date:
Approval obtained	:	20 nos.	Date:

### **Railway crossing**

Total no. of crossings	:	5 nos.	
Proposal submitted	:	5 nos.	Date:
Approval obtained	:	4 nos.	Date:

### **National Highway Crossing**

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

### **State Highway Crossing**

Total no. of crossings	:	05 nos.	
Proposal submitted	:	05 nos.	Date:
Approval obtained	:	00 nos.	Date:

### **River Crossings**

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

### **PTCC approval**

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

Current status:

### **Defence/Civil Aviation**

Proposal submitted to Defence/Civil Aviation on : Civil & Defence proposal submitted

Current Status: Defence Aviation – approval obtained & Civil Aviation - Approval awaited

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

Length: 265.218 ckm

Locations: 344 nos.

Foundation completed: 312 nos.

Tower erected: 247 nos.

Stringing completed:

Scheduled COD: Nov'19

Anticipated COD:

#### **Constarints where Project Authority requires intervention:**

- **RoW issue:**

In the stretch of AP 10 - AP 11, AP 34 - AP 35, AP 37- AP 38, and AP 41- AP 42. Further at location nos. 47/2 & 47/3, locals have removed the stubs by using JCB. Though a FIR in this regard has been lodged with local Police Station, however, the same is yet to be resolved.

#### **Court Case:**

- Land Owner of location no. 2/6 of 765 kV D/C Warangal – Hyderabad Line, has approached Hon'ble High Court of Telangana. Hon'ble High Court has granted the stay on work. Further on hearing held on 03rd June 2019, the Hon'ble Court adjourned and next date of hearing is yet to be scheduled in this matter. As on date the matter is still pending for scrutiny. In the present situation, the work is at stand still at this location effectively from 16th Mar 2018.

- Land owner for the stretch between the location no. 30 to 31 of 765 kV D/C Warangal – Hyderabad has approached the District Court (Bhogir) to accord permanent injunction. On the hearing held on 30.12.2019, the Court scheduled next date of hearing on 18.03.2021 in this matter. In such situation, the work is at stand still at this location effectively from 20th Mar 2018.

#### **Status of statutory approvals:**

**Forest : Nil**

#### **Power line crossing**

Total no. of crossings	:	15 nos.	
Proposal submitted	:	15 nos.	Date:
Approval obtained	:	10nos.	Date:

#### **Railway crossing**

Total no. of crossings	:	01 nos.	
Proposal submitted	:	01 nos.	Date:
Approval obtained	:	0 nos.	Date:

#### **National Highway Crossing**

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

Approval obtained : 01 nos. Date:

**State Highway Crossing**

Total no. of crossings : 02 nos.  
Proposal submitted : 02 nos. Date:  
Approval obtained : 00 nos. Date:

**River Crossings**

Total no. of crossings : Nil

**PTCC approval**

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

**Defence/Civil Aviation**

Proposal submitted to Defence/Civil Aviation: Defence & Civil aviation proposal submitted  
Current Status: Civil Aviation approval obtained.  
Defence Aviation approval obtained

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

Length: 94.94 ckm  
Locations: 130 nos.  
Foundation completed: 09 nos  
Tower erected:  
Stringing completed:  
Scheduled COD: Nov'19  
Anticipated COD:

**Constarints where Project Authority requires intervention:**nil

**Status of statutory approvals:**

**Forest - Nil**

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

**Power line crossing**

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

**Railway crossing**

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

**National Highway Crossing**

Total no. of crossings : 02 no.

Proposal submitted	:	nos.	Date:
Approval obtained	:	nos.	Date:

### **River Crossings**

Total no. of crossings	:	Nil
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### **PTCC approval**

Proposal submitted to Defence on .....

Proposal submitted to BSNL on .....

Proposal submitted to Railways on .....

Current status:

### **Defence/Civil Aviation**

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

Current Status:

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

Length: 331.58 ckm

Locations: 422 nos.

Foundation completed: 339 nos.

Tower erected: 183 nos.

Stringing completed:

Scheduled COD: Nov'19

Anticipated COD:

### **Constraints where Project Authority requires intervention:**

- Work hampered due to severe RoW issue in the stretch of AP 27 – AP 29, AP 60 A– AP 60 B and AP 66 – AP 67.
- **Work hampering in 765 kV D/C Hyderabad – Kurnool Transmission line due to Land Acquisition initiated by Telangana State Industrial Infrastructure Corporation Ltd. (TSIICL):**

Recently, Telangana State Industrial Infrastructure Corporation Ltd. (TSIICL) initiated the process of land acquisition around Hyderabad (Maheshwaram) PGCIL Sub-Station. They raised objection for our 765 kV Warangal-Hyderabad and 765 kV Hyderabad–Kurnool Line. After round of discussions, TSIIC agreed for the execution of 765 kV D/C Warangal-Hyderabad Line and the foundation work in the section has been completed. However, for 765 kV D/C Hyderabad–Kurnool line discussions are in progress & awaited to be resolved.

### **Status of statutory approvals:**

#### **Forest - Nil**

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

Forest area affected (ha) : Nil

Forest proposals submitted.

Current status:

### **Power line crossing**

Total no. of crossings	:	21 nos.	
Proposal submitted	:	21 nos.	Date:
Approval obtained	:	18 nos.	Date:

### **Railway crossing**

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

#### **National Highway Crossing**

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

#### **State Highway Crossing**

Total no. of crossings	:	03 nos.	
Proposal submitted	:	03 nos.	Date:
Approval obtained	:	00 nos.	Date:

#### **River Crossings**

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

#### **PTCC approval**

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

#### **Defence/Civil Aviation**

Proposal submitted to Defence/Civil Aviation on.. Defence & civil aviation proposal submitted

Current Status: Civil aviation approval obtained. Defence aviation approval obtained

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

Length:	394.33 ckm
Locations:	565 nos.
Foundation completed:	446 nos.
Tower erected:	341 nos.
Stringing completed:	
Scheduled COD:	Nov'19
Anticipated COD:	

#### **Constarints where Project Authority requires intervention:**

- **Severe RoW issue** existing in the stretch of AP 10–AP 11, AP 14–AP 15, AP 25–AP 28, AP 52–AP 53, AP 55–AP 56, AP 63–63/12, AP 76–AP 77, AP 84–AP 85 & AP 89–AP 90.

#### **Court Case:**

- 04 no. of tower locations of 765 kV D/C Warangal (New) – Chilakaluripeta Transmission line has been traversing though the proposed land area of M/s Emami Cement Ltd., out of which the 04 no. of foundations and 03 no's of erections are already completed. At this point of time, M/s Emami Cement Ltd. moved to High Court of Andhra Pradesh for seeking Order to remove WKTL transmission towers along with direction to re-route the transmission line.

At present this matter is under consideration of Hon'ble High Court, Andhra Pradesh. So, we are unable to continue the work at the above said locations including nearby locations till listing of this matter and further orders passed by the Hon'ble Court. The next date in the matter is awaited.

### **Status of statutory approvals:**

#### **Forest**

Details of Tr. Line Falling under Forest:-

Locations	:	07nos.	
Length:Forest area affected (ha)	:	18.442 ha (2.75 Kms) in Andhra pradesh	
Forest proposals submitted on	:	23.08.2017	
Current status	:	Stage –I forest approval granted on 28.11.18.	
		Stage I communicated by State Govt. to PCCF office on 24.12.2018.	

#### **Power line crossing**

Total no. of crossings	:	29 nos.	
Proposal submitted	:	29 nos.	Date:
Approval obtained	:	24 nos.	Date:

#### **Railway crossing**

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

#### **National Highway Crossing**

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

#### **State Highway Crossing**

Total no. of crossings	:	03 no.	
Proposal submitted	:	03 nos.	Date:
Approval obtained	:	00 nos.	Date:

#### **River Crossings**

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

#### **PTCC approval**

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

#### **Defence/Civil Aviation**

Proposal submitted to Defence/Civil Aviation	on: Defence & civil aviation Proposal submitted
Current Status	: Civil aviation approval obtained. Defence aviation approval obtained.



**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)**

Scheduled COD: Nov'18

**Under commercial operation w.e.f. 29.03.2019.**

**CERC Petition Status:**

**Petition No. 334/MP/2020**

**Subject: Petition seeking extension of scheduled commercial operation date on account of Force Majeure Events and consequential reliefs**

**Petition Status : Order reserved**

**Petition No. 71/MP/2020**

**Subject: Petition seeking approval of this Hon'ble Commission under Section 17(3) and 17(4) of the Electricity Act, 2003; read with Article 15.3 of the Transmission Service Agreement dated 06.01.2016 and Regulation 12 of the Central Electricity Regulatory Commission (Procedure, Terms and Conditions for grant of Transmission Licence and other related matters) Regulations, 2009. IN THE MATTER OF: Lenders right to substitute performance of the Borrower with the Nominee of the Lenders and consequent assignment of transmission license and assignment of other financing documents and movable and immovable project assets of the Warora Kurnool Transmission Limited in favor of the Nominee of the Security Trustee/ Lenders. Petition Status : Order reserved**

**Petition Status : Order Reserved- Additional information for final order**

**A meeting was held under the chairmanship of Joint Secretary (Trans), MoP on 11.11.2020 through video conference to re-view the status wherein it was informed that (WKTL) has filed detailed petition (dated 5th March, 2020) with Central Electricity Regulatory Commission for extension of Scheduled Commercial Operations Date along with consequential reliefs. M/s Adani Transmission Ltd. has gone for substitution process of M/s WKTL. Joint petition is filed in CERC in Jan'20. Change of management order is awaited from CERC Orders**

**15) Name of transmission project - 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 Trans.Ltd (ESSEL)
Bid Process Coordinator (BPC)	:	RECTPCL
Estimated Cost (Rs. Crs.)	:	437
Request for Qualification	:	25.08.2015
Request for Proposal	:	12.11.2015
Date of Letter of Intent	:	29.03.2016
Transmission Service Agreement (TSA)	:	13.01.2016
SPV acquisition	:	22.08.2016
Transmission License by CERC	:	07.12.2016
Tariff adoption by CERC	:	14.12.2016
Contract Performance Guarantee	:	11.08.2016
Clearance u/s 164	:	01.11.2017
Execution plan submitted to CEA	:	20.12.2016
NIT issued on		
EPC awarded on	:	20.01.2017
Scheduled Date of Completion	:	June 2019/Dec 2019
Anticipated Date of Completion	:	Nov'22 / Minimum 23 no. of working months required from the date of resolution of CERC Petitions, IDPL -NOC from Uttarakhand State Govt, DFO (Tehri), DFO (Dehradun), Court proceedings etc

**Status of progress of transmission project**

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

The route alignment & detailed survey is completed.

Tower Package is awarded. Check survey is under progress.

Length:	81 CKm
Locations:	106 nos
Foundation completed:	26 nos
Tower erected:	-
Stringing completed:	-
Scheduled COD:	Dec'19
Anticipated COD:	Mar'23 / Minimum 27 no. of working months required from the date of resolution of CERC Petitions, IDPL -NOC from Uttarakhand State Govt, DFO (Tehri), DFO (Dehradun), Court proceedings etc

### **Constarints where Project Authority requires intervention:**

- **Non-acceptance of Forest diversion proposal of 400 kV D/C Rishikesh- Koteswar Transmission Line by Forest Deptt.:**

The forest diversion proposal for 400 kV D/C Rishikesh-Koteswar Transmission Line was very first submitted on 24.10.2017, which was returned back due to indicative shortcomings including FRA Certificates to be issued by respective DC's of involved forest divisions. On 19.06.2018, the forest proposal was again submitted with the compliance of all shortcomings and with the submission of an undertaking for FRA Certificates as per MoEF&CC Guidelines (Forest Conservation Amendment (Rules), 2014), according to which User Agency first need to submit the forest diversion proposal and thereafter the Nodal Officer will forward forest proposal to DFO and Respective DC for the issuance of FRA Certificates.

We also requested DC (Dehradun, New Tehri, Tehri Garhwal) vide our letters dated 21<sup>st</sup> & 22<sup>nd</sup> June 2018 to grant FRA Certificates and pursued the same regularly. In order to expedite issuance of FRA Certificate, NRSS XXXVI Trans.Ltd also requested CEA for the support. In response, Chief Engineer (CEA- PSPM) also wrote letters to DC (Dehradun, New Tehri, Tehri Garhwal) on 12.10.2018 to issue FRA Certificates as earliest as possible for the timely completion of transmission line.

Further, on 13.11.2018, NRSS XXXVI Trans.Ltd again attempted to submit forest diversion proposal, which was again returned back indicating shortcomings of FRA Certificates, which is to be issued by respective DC's of involved forest divisions, Geologist report, Site inspection, Joint verification report, Tree enumeration etc. As per Format -Part I and Part II of Forest Conservation Amendment (Rules), 2014, all these activities are to be initiated only after acceptance of forest proposal by Nodal Officer.

Hence, in such case, only due to specific conditions imposed by Forest Deptt., also which are beyond the Forest Conservation Amendment (Rules), 2014, the Forest diversion proposal of 400 kV D/C Rishikesh – Koteswar line could not be submitted. However, post

receipt of communication from CEA in the matter of IDPL NoC, NRSS XXXVI Trans.Ltd have submitted the Forest proposal on 04<sup>th</sup> April 2019 for Tehri & Narendranagar Forest Division. NRSS XXXVI Trans.Ltd also sought consent from DFO (Dehradun) but no response for the submission of forest proposal in light of *IDPL NoC from Uttarakhand State Govt.*

• **Pending Issue for NOC from Indian Drugs and Pharmaceuticals Limited (IDPL), Rishikesh/Department of Tourism, UK Govt. :**

As per the detailed survey, approx. 3.99 Km. of the Transmission Line having 16 Nos. of Towers is passing through the premises of Indian Drugs and Pharmaceuticals Limited (IDPL), Rishikesh.

A joint visit was conducted with the officials of IDPL on 24th Jan 2018 and based on the joint visit, the route alignment was submitted to the office of DGM (1/C) IDPL, Rishikesh on 31st Jan 2018.

Further, meetings were held in CEA on 9th Feb 2018 and 3rd Apr 2018 on above issue. CEA vide their letter dated 24th Apr 2018 has issued the minutes of meeting endorsing the route submitted by us and requested IDPL to issue the NOC for the route within IDPL premises. However, NOC is yet to be issued from IDPL, Rishikesh.

Vide letter dated 12th Oct 2018, CEA again requested to Chairman cum Managing Director of IDPL to issue final NOC for traversing 400 KV D/C Koteshwar – Rishikesh Transmission Line through the premises of Indian Drugs and Pharmaceuticals Limited (IDPL), Rishikesh. Through letter dated 10th Dec 2018, the DFO (Dehradun) also requested IDPL, Rishikesh to issue NOC in order to submit forest proposal by the NRSS XXXVI Transmisison Ltd.

After a continuous persuasion and many rounds of discussions with IDPL, on 18th January 2019, very first time IDPL informed to CEA that Government of India has taken a decision to close down Indian Drugs and Pharmaceuticals Limited (IDPL). Accordingly, the Deptt. of Pharmaceuticals has decided to transfer back the IDPL Rishikesh land to Govt. of Uttarakhand. In such a situation, it was advised us to obtain first NOC from Govt. of Uttarakhand, based on that IDPL may issue NOC to NRSS XXXVI Tr. Ltd.

Vide its letter dated 01.02.2019, referring IDPL letter dated 18.01.2019, CEA advised us to take up the matter directly with Govt. of Uttarakhand for seeking NOC.

After waiting a long, IDPL conveyed it's no objection on 03.04.2019 to Chief Engineer (CEA) for traversing Rishikesh line through IDPL lease area stating that IDPL is going to hand over the leased land back to Uttarakhand Government in near future and Uttarakhand Government is planning to construct Convention Centre along with Hill Culture, Yoga and Wellness Centre on the said land. Accordingly, IDPL requested to Chief Engineer (CEA) to take no objection certificate also from Uttarakhand Government.

Vide its letter dated 16.04.2019, Chief Engineer (CEA) communicated us to take up the matter with Uttarakhand Government in order to secure the said NoC for constructing 400 kV D/C Rishikesh – Koteswar transmission line in IDPL lease area. Accordingly, NRSS XXXVI Trans.Ltd approached on 18.04.2019 to Secretary (Energy), Uttarakhand for seeking unconditional concurrence traversing Rishikesh line through IDPL premises.

Recently on the basis of communication received from Tourism Deptt. (Uttarakhand), on 23.05.19 Chief Engineer (CEA) directed to forward proposal of NoC to Govt. of Uttarakhand through Tourism Deptt. of Uttarakhand. Accordingly, the detailed proposal of NoC was submitted to Tourism Deptt. of Uttarakhand on 27.05.2019. The same has been forwarded by GoU to the consultant M/s E & Y on 05th July 2019.

A meeting in this regard is convened by The Chief Secretary of the state along with other stake holders along with the consultant M/s E&Y On 10th December 2019. A new route has been proposed. NRSS XXXVI Trans.Ltd shall be remobilizing our team to check the feasibility of the route and will revert with the outcome. The revised route as suggested by M/s E&Y has been submitted to concern for processing the long pending NoC.

To obtain the necessary long pending NOC from the Government of Uttarakhand for the IDPL land, a meeting was convened by the chairman, CEA on 16th March 2020 at its office along with representative from Ministry of Power, Ministry of Forest and Environment, Tourism Department of Uttarakhand Government, Power Transmission Corporation of Uttarakhand (PTCUL), Indian Drug and Pharmaceutical Limited (IDPL), M/s E&Y (Consultant to GoUK) and NRSS-XXXVI Transmission limited (NTL). The revised route submitted is discussed with various stake holders. It was decided that the required inputs shall be provided by M/s E& Y within a week with copy to CEA and NRSS-36. Further PTCUL asked for join verification of revised route.

Further, recently a meeting was held in CEA under the chairmanship of Chairperson, CEA on 16.10.2020 on above issue, wherein M/s NRSS XXXVI Trans. Ltd conveyed that the issue was resolved and NOC from IDPL is expected by Nov'20 end. After the receipt of the NOC, M/s NTL will submit the forest proposal to the forest department for approval.

However, because of CORONAVIRUS (COVID-19) and the restriction imposed by Government of India towards movement, some delay is anticipated

- **Route diversion of 400 kV D/C Rishikesh- Koteswar Line at the instruction of DFO (Tehri) letter dated 21st Dec 2018:**

DFO Tehri through letter dated 21<sup>st</sup> Dec 2018 informed that Central Government plantation Project under “Namami Gangey Scheme” is coming under NRSS XXXVI line route and will be adversely affected from NRSS XXXVI transmission line construction. Accordingly, it was directed us to divert from existing route, which was earlier approved & confirmed by Forest Range officer through verification of land schedule and DGPS survey in Jan-2018.

It is submitted that the tree enumeration and Gram sabha, as per earlier approved route was completed and we had also applied for FRA Certificate and geologist survey report.

It is submitted that due to such change in transmission line route at later point of time adversely affected the progress of transmission line project because activities like selection and finalization of new alternative route, tree enumeration, completion of DGPS survey and land schedule will have to be initiated from zero level, which resulted in a significant time overrun for the construction of transmission project. It is also worth to mention here that any deviation in transmission line route will result in increase in forest area through which transmission line will have to traverse. The exact quantum of increased forest area will be communicated post receipt of forest approval of this line.

NRSS XXXVI submitted the revised route avoiding “Namami Gangey Scheme Plantation” to forest authorities on 13.03.19. Post verification and approval, we submitted the forest proposal of Tehri Garhwal forest division to DFO Tehri Garhwal on 4<sup>th</sup> April 2019 with a request for identification of double degraded forest land for preparation of compensatory afforestation scheme for said transmission line under reference to MoEF & CC letter F.N. 11-68/2014-FC (pt) dated 11th July 2014 for processing of forest diversion proposal from DFO, which is still under consideration of DFO (Tehri Garhwal).

It is pertinent to mention here that NRSS XXXVI have to divert transmission line route at a lateral stage as per directions of DFO (Tehri) dated 21.12.2018, though Digital forest map was prepared and provided by ITGC Cell PCCF Office Uttarakhand on 21.6.2018 and later on DGPS survey was done on ground under the guidance of forest authorities itself.

#### **Severe RoW issues:**

Severe RoW issues are existing at loc. No. 2/0, 3/0, 4/0, 5/0, 10/0, 13/0, 22/0, 23/0, 48/0, 48/1 and 49/0 .

#### **Details of followup actions:**

a) Chief Engg. CEA PSPM already requested Chief Secy. Uttarakhand for IDPL NOC so that revised forest proposal can be submitted in compliance to DFO Dehradun letter no.1633 /12-1 Dehradun dated ; 10.12.2018.

b) Ministry of Power No. 7/1/2017-Trans Government of India Transmission Division held meeting on 11.11.2020 to review the status of transmission capacity addition during 2020-21 and to review the progress of under-construction Tariff Based Competitive Bidding (TBCB) projects.

c) CEA took meeting with NRSSXXXVI on 16.10.2020 review the issue.

d) CEA once again requested Chief secretary for intervention vide letter dated 10.12.2020.

#### **Status of statutory approvals:**

##### **Forest**

Details of Tr. Line Falling under Forest:- Locations: nos. Length: 22.2 Km.  
Forest area affected (ha) : 96.60 ha

Though forest proposal of Tehri & Narendranagar Forest Division was submitted on 04th Apr 2019. Forest proposal of Dehradun division is yet to submit.

**Current status:** Only due to specific conditions imposed by Forest Deptt., also which are beyond the Forest Conservation Amendment (Rules), 2014, the Forest diversion proposal of 400 kV D/C Rishikesh – Koteswar line was not accepted. However, Post receipt of IDPL communication dated 03.04.2019, as communicated through CEA letter 16.04.19, the forest proposal of Tehri & Narendranagar was submitted on 4th Apr 2019 & under processing. The consent of DFO (Dehradun) in this regard for forest proposal submission is also awaited.

#### **Power line crossing**

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

#### **Railway crossing**

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

#### **National Highway Crossing**

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

#### **State Highway Crossing**

Total no. of crossings	:	00 nos.	
Proposal submitted	:	nos.	Date:
Approval obtained	:	nos.	Date:

#### **River Crossings**

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

#### **PTCC approval**

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

#### **Defence/Civil Aviation**

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

### **2.2 Nos. 400 kV bays at Rishikesh S/S**

Land Acquired:	NA
Civil work completed:	-
Equipment supplied:	-
Equipment erection:	-

Scheduled COD Dec'19  
Anticipated COD: Mar'23 / Minimum 27 no. of working months required from the date of resolution of CERC Petitions, IDPL -NOC from Uttarakhand State Govt, DFO (Tehri), DFO (Dehradun), Court proceedings etc ..

**Constraints where Project Authority requires intervention:** nil.

### **3. LILO of one ckt of 400kV D/C Sikar PG)–Neemrana(PG) line at Babai (Under Commercial operation).**

Length: 2.922 CKm  
Locations: 06 nos.  
Foundation completed: 06 nos.  
Tower erected: 06 nos.  
Stringing completed: 2.922 CKm  
Scheduled COD: Dec'16  
Deemed COD: 30 Oct '17

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

The route alignment & detailed survey is completed.

Tower Package is awarded.

Length: 221 CKm  
Locations: 304 nos.  
Foundation completed: 273 nos.  
Tower erected: 248 nos  
Stringing completed: 74 CKM  
Scheduled COD: Jun'19  
Anticipated COD:

**Constarints where Project Authority requires intervention:**

#### **Severe RoW issues:**

Severe RoW issues are existing at loc. No. 17/0, 18/0 of Tehsil Khetri and 52/3, 62/1, 75/0-89/0 of Tehsil Dadri & Bhiwani.

**Court Case:** Loc no. 9/1 (Case in Rajasthan high court, Jaipur since 1/12/1) & Loc 47/1-47/2 (Case in Civil Court, Mahendergarh since 25/4/19) . Next hearing was scheduled in April 2020.

#### **Status of statutory approvals:**

##### **Forest**

Details of Tr. Line Falling under Forest:- 3.37 Km

Locations: 06 nos. (Rajsthan)

Length:

Forest area(ha) : 12.90 Ha (2.80 Kms) Rajsthan + 3.46 Ha (0.57 Kms) Haryana

Forest proposals submitted on 15.05.17 for Haryana and on 11.08.17 for Rajasthan.

Current status: Haryana Proposal- Stage I approval received on 27 Mar 2018.

Rajashtan Proposal – Partial Stage I approval received on 6th Jul 2018 excluding wildlife area. However, final Stage I approval including wild life area was granted on 14.02.2019.

#### **Wildlife Clearance**



Details of Tr. Line Falling under Wildlife :-

Locations:

Length:

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

Wildlife proposals submitted on : 16-02-2018

Current status: Proposal recommended by NBWL ,recommendations forwarded to State Govt. (Rajasthan) and approval received on 14.02.2019.

**Power line crossing**

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

**Railway crossing**

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

**National Highway Crossing**

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

**State Highway Crossing**

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

**Canal Crossings (Minor)**

Total no. of crossings	:	14 nos.	
Proposal submitted	:	14 nos.	Date:
Approval obtained	:	14 nos.	Date:

**PTCC approval : Proposal Under Approval**

Proposal submitted to Defence.

Proposal submitted to BSNL.

Proposal submitted to Railways.

Current status:

**Defence/Civil Aviation**

Proposal submitted : 13.03.2018

Current Status : Civil Aviation approval received on 31.05.18  
Approval from Defence received on 06.06.18

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

Land Acquired:	100%
Civil work completed:	100%
Equipment supplied:	100%
Equipment erection:	100%
Scheduled COD	Dec'16
Deemed COD:	30 Oct'17

**Under commercial operation.**

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

Land Acquired:	100%
Civil work completed:	100%
Equipment supplied:	100%
Equipment erection:	90%
Scheduled COD	Jun'19
Anticipated COD:	Mar'23 / Minimum 27 no. of working months

required from the date of resolution of CERC Petitions, IDPL -NOC from Uttrakhand State Govt, DFO (Tehri), DFO (Dehradun), Court proceedings etc

**CERC Petition Status:**

CERC Petitions pending: Diary No. 575/2020 - Petition seeking extension of Scheduled Commercial Operation Date

A meeting was held under the chairmanship of Joint Secretary (Trans), MoP on 11.11.2020 through video conference to review the status it was informed that the NOC from IDPL is expected by Nov'20 end (As on date not yet received). After the receipt of the NOC, Essel will submit the forest proposal to the forest department for approval. Due to financial issues, it is planning to disinvest in NRSS-XXXVI

## **16) 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 for old scope
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	:	Authorization on CCL / MoC suggested route received on 05.11.2019 after 80 days from submission.
Execution plan submitted to CEA	:	03.11.2016. Revised Execution plan discussed in meeting with CEA on 23.04.2019.
NIT issued on	:	
EPC contract awarded on	:	
Scheduled Date of Completion	:	30.09.2019
Revised Scheduled Date of Completion	:	As per CERC directive, it is finalized by CEA and in consultation with NTPC.

- In accordance with the provision of the TSA, NKTL had approached CERC and vide its order dated 20.03.2019 the matter has been disposed off with following decisions:
- NKTL is affected by force majeure on account of non-issue/delay in issue of NOC by MoC/CCL.
  - LTTCs are directed not to take any coercive measures in terms of the TSA till the SCODs are revised taking into account the force majeure events.
  - CERC directed MOC to issue NOC latest by week from issue of the order.
  - Compressed time schedule to implement the project shall be decided by CEA in consultation with NTPC and NKTL.
  - Granted liberty to approach with change in scope and its impact on cost and time overrun.
  - When required to shift line, alternate route shall be provided by MoC.

## **Status of progress of transmission project:**

### **1. North Karanpura – Chandwa (Jharkhand) Pooling Station 400kV D/c line (including Multi-circuit portion)**

- Length (as per revised route): 102 Ckm
- Locations (as per revised route): 115 nos
- Route alignment completed: 102 Ckm
- Detailed survey completed: 102 Ckm
- Foundation completed: 74 nos (revised route)
- Tower erected: 73 nos (revised route)
- Stringing completed: 8.76 Ckm
- Revised schedule completion date: 14 months from the date of NOC from CCL/MoC (considering receipt of forest approval within 200 days)

## **Constraints where Project Authority requires intervention:**

- a) **Forest Clearance:** CEA had decided that North Karanpura-Chandwa (NK-C) line shall be completed within 14 months from the date of NOC subject to grant of Forest Clearance (FC) within 200 Days from application. The forest proposal for NK-C Line was submitted on 17-06-19. The Proposal processed and recommended by DFO (Chatra South/Latehar) & CF for further processing to Nodal officer on 23-07-20.

Nodal officer raised EDS on 03-09-20 and sought following details from concern DFOs.

- a. NOC from Commissioner, Palamu
- b. FRA Certificate (Stage-II Condition)
- c. Clarification on CA area difference.

NKTL pursued with concerned forest officials vide letter dated 16.09.2020 and 23.09.2020 for necessary action for further processing the proposal. Nodal office has recommended and submitted PART-IV to State Government on 11-11-20. However, online proposal is still pending at DFO level as DFO, Chatra South post was vacant. DFO expected to join in 1st week of Jan-21.

Additionally , GM-JJ Land NOC from Latehar DC office and FRA certificate from both Latehar and Chatra DC offices are still awaited. As around 563 days have passed and has affected schedule adversely for reasons beyond control of NKTL. In meeting called by CEA on 16.03.20, Additional PCCF, Forest, Govt. of Jharkhand, had indicated timeline of approx. 7-8 weeks for moving the file from DFO level to Regional Office, MOEF&CC. However, even after passing of 41 weeks, the forest clearance is not obtained. In said meeting, NKTL had stated that NKTL will be able to complete the NK-C line in 9 months from the date of forest clearance.

CEA had called meeting on 16.10.2020 wherein critical issues related to the project was discussed. NKTL informed that, forest proposal of both NK C Line and NK G Line are very critical. Regarding NK C Line, status of forest proposal was discussed. With reference to the EDS raised by nodal, NKTL informed that DC Latehar recommended for issuance GM/JJ land NOC on 06.06.20, however the NOC is pending from Commissioner, Palamu as the post is vacant since Jul'20. Regarding FRA NOC, NKTL informed that, Gram Sabha already completed for all 22 Nos. villages and FRA is under consideration with respective SDM Level. NKTL informed that, as per forest guideline, FRA NOC required at Stage-II approval. Hence stage-I of the said proposal need to be processed. In said meeting, NKTL had stated that NKTL will be able to complete the NK-C line in 9 months from the date of forest clearance.

The review meeting held on 11-11-20 wherein Joint Secretary (Trans), Ministry of Power has reviewed the Status of Important and Critical Transmission Projects. NKTL has apprised the issues which are impacting the project progress and requested support in expediting forest clearances for the line

Presently no (NIL) foundation location available out of forest area. Also there is limited stringing section available outside forest due to intermittent forest stretches.

As the delay in grant of forest clearance prevents/ delay performance of our obligation, further delay in grant of Forest Clearance is not within our reasonable control, NKTL has submitted FM notice dated 25-02-20 and FM continuation notice dated 26-11-20 to LTCCs and CEA and requested intervention in the situation and help in getting the approval of forest clearance at the earliest possible, so as to minimize the effect of the delay.

- b) **Removal of soil dumped by NTPC in line corridor:** NTPC had dumped excavated excess soil from plant area in line corridor between tower location no. AP4/1 and AP4/2 after the finalization of revised route on which CCL had issued NOC. Since last one year NKTL is pursuing with NTPC for removal of soil dump. However, it is still not removed and on account of this, NKTL could not take up stringing in section 4/0-5/0 (2.2 Km) of the line.
- c) **Readiness of PGCIL Dead End Multi Ckt tower at Chandwa SS:** 400 kV NK-Chandwa line and 220 kV JUSNL transmission line is to connect with PGCIL, Chandwa SS through the common one no. of multi ckt tower. The said tower is being constructed by PGCIL. NKTL is pursuing with PGCIL for the readiness of tower, the confirmation is awaited from PGCIL, Chandwa.
- d) **Pandemic COVID 19:** Work affected due to COVID-19 since last week of Feb'20. Further, the situation has not been normalized till date as gangs have gone to their native places & only few gangs are available at site. Further, Gangs are not willing to move considering present situation, so arranging resources is very challenging task. Apart from this, due to lockdown most working season in transmission line projects i.e. March'20 to June'20 had been lost due to COVID-19 lockdown & its effects. Further, we already entered into monsoon season which will further delay work at site. This will call for delay by a much longer period and may also incur additional expenditure on account of mobilization, de-mobilization, Management expenses and IDC. Accordingly, FM & CIL notices as per TSA provisions have been submitted. This has impacted project progress incl. approval of various statutory proposals.

#### **Status of statutory approvals:**

##### **Forest (including multi-circuit portion)**

Details of Tr. Line Falling under Forest:- Locations: 41 nos and Length: 12 Kms

Forest area affected (ha) : 56.3254 Ha

Forest proposals submitted on: 17.06.2019

Current status: Proposal is at state level for recommendation to Regional Office

**Remarks:** Proposal on revised route has been submitted within the timeline committed to CEA.

##### **Power line crossing**

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

#### **Railway crossing**

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

#### **National Highway Crossing**

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

#### **River Crossings**

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

#### **PTCC approval**

Submitted on 14-08-2019

Proposal submitted to BSNL in  
Proposal submitted to Railways in  
Current status:

#### **Defence/Civil Aviation**

Proposal submitted to Defence/Civil Aviation  
Current Status: NOC from Civil Aviation Obtained

### **2. North Karanpura – Gaya 400kV D/C line (only Double Circuit portion)**

- Length (as per revised route): 196 Ckm
- Locations (as per revised route): 285 nos
- Route alignment completed: 196 Ckm
- Detailed survey completed: 196 Ckm
- Foundation completed: 123 nos (on revised route)
- Tower erected: 92 nos (on revised route)
- Stringing completed: 9.88 Ckm
- Revised schedule completion date: 23 months from the date of NOC from CCL/MoC (considering receipt of forest approval within 300 days)

#### **Constraints where Project Authority requires intervention:**

- CEA had decided that NK-G line shall be completed within 23 months from the date of NOC subject to grant of Forest Clearance (FC) within 300 Days from application. The forest proposal for NK-G Line was submitted on 20-07-19. Nodal Officer had asked to explore various routes as it was envisaged that sizeable forest area can be reduced by slight modification in route. All options were worked out in consultation of Nodal officer and proposal has been submitted for acceptance of Nodal Officer. In meeting called by

CEA on 16-03-20, Addl. PCCF, Forest, Govt. of Jharkhand informed that timeline for proposal movement will be committed in next meeting. However it is yet to be received from Forest authority. During the said meeting, NKTL informed that NK-G line will be commissioned within 12 months from the date of Forest Approval. This is assuming that the COVID 19 situation will be over by the time NKTL gets the forest clearance. The proposal has been accepted by Nodal officer after 408 days i.e. on 06.08.20 & presently proposal is pending with DFO for further processing.

**In said meeting, NKTL had stated that NKTL will be able to complete the NK-G line in 12 months (Excluding pe-riod of Monsoon season) from the date of forest clearance.**

CEA had called meeting on 16.10.2020 wherein critical issues related to the project was discussed. NKTL informed that, forest proposal of both NK C Line and NK G Line are very critical. Regarding NK G Line, status of forest proposal was discussed. NKTL informed that presently proposal is at respective DFO level (Chatra South, Chatra North and Latehar forest division in Jharkhand Portion) for recommendation and Part-II submission. For FRA NOC, DC, Chatra and DC, Latehar has issued letter to respective circle offices on 16.09.20 for land schedule verification with respect to GM/JJ land NOC and conducting Gram Sabha for issuance of FRA NOC. NKTL requested to CEA and representative of forest department to support in expediting the site inspection and recommendation to CF alongwith Part-II compliance. NKTL also requested CEA to provide support in expediting process for issuance of GM Land NOC and FRA certificate from the respective DC of Chatra and Latehar. In said meeting, NKTL had stated that NKTL will be able to complete the NK-G line in 12 months of working season from the date of forest clearance.

Also Forest proposal of the Bihar portion is pending with DFO Gaya for recommendation and Part-II Submission. Also for FRA, proposal is submitted to DM, Gaya and proposal is under process.

The review meeting held on 11-11-20 wherein Joint Secretary (Trans), Ministry of Power has reviewed the Status of Important and Critical Transmission Projects. NKTL has apprised the issues which are impacting the project progress and requested support in expediting forest clearances for the line

Presently only 15 no. Location available out of forest areas. Also due to intermittent forest stretches there is difficulty in stringing of the said transmission line. In view of this, limited workforce available till the receipt of the Forest clearance and working permission.

As the delay in grant of forest clearance prevents/ delay performance of our obligation, further delay in grant of Forest Clearance is not within our reasonable control, NKTL has submitted FM notice dated 25-02-20 and FM continuation notice dated 26-11-20 to



LTCCs and CEA and requested intervention in the situation and help in getting the approval of forest clearance at the earliest possible, so as to minimize the effect of the delay.

- b) Pandemic COVID 19: Work affected due to COVID-19 since last week of Feb'20. Further, the situation has not been normalized till date as gangs have gone to their native places & only few gangs are available at site. Further, Gangs are not willing to move considering present situation, so arranging resources is very challenging task. Apart from this, due to lockdown most working season in transmission line projects i.e. March'20 to June'20 had been lost due to COVID-19 lockdown & its effects. Further, we already entered into monsoon season which will further delay work at site. This will call for delay by a much longer period and may also incur additional expenditure on account of mobilization, de-mobilization, Management expenses and IDC. Accordingly, FM & CIL notices as per TSA provisions have been submitted. This has impacted project progress incl. approval of various statutory proposals.

#### **Status of statutory approvals:**

##### **Forest (envisaged based on route alignment & excluding multi-circuit portion)**

Details of Tr. Line Falling under Forest:-

Jharkhand(JH) - Locations: 143 nos. and Length: 42 kms

Bihar(BH) - Location: 5 no. and Length: 1.2 Kms

Forest area affected (ha) : 193.5525 Ha. in JH portion & 5.437 Ha. in BH portion.

Forest proposals submitted on: 20.07.2019 for JH portion & 01.08.2019 for BH portion

**Current status:** Proposal on revised route has been submitted within the timeline committed to CEA. JH portion and BH portion forest diversion proposals are at DFO level.

##### **Power line crossing**

Total no. of crossings	:	10	nos.
Proposal submitted	:	10	nos.
Approval obtained	:	9	nos.

##### **Railway crossing**

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

##### **National Highway Crossing**

Total no. of crossings	:	3	nos.
Proposal submitted	:	3	nos.
Approval obtained	:	1	nos.

##### **PTCC approval**

Proposal submitted to BSNL in

Proposal submitted to Railways in  
Current status: Submitted on 23-07-2020

### **Defence/Civil Aviation**

Proposal submitted to Defence/Civil Aviation

Current Status: NOC for Civil Aviation and Defence Aviation obtained

### **3. Establishment of 400/220 kV, 2x500 MVA sub-station at Dhanbad**

- Land acquired: completed
- Civil works completed 80%
- Equipment supplied 88%
- Equipment erected 55%
- Scheduled completion date: 07.05.2019
- Revised schedule completion date: 18 months from date of NOC from CCL/MoC

### **Constraints where Project Authority requires intervention:**

Pandemic COVID 19: Work affected due to COVID-19 since last week of Feb'20. Further, the situation has not been normalized till date as gangs have gone to their native places & only few gangs are available at site. Further, Gangs are not willing to move considering present situation, so arranging resources is very challenging task Apart from this, due to lockdown most working season in transmission line projects i.e. March'20 to June'20 had been lost due to COVID-19 lockdown & its effects. Further, due to monsoon season which will further delay work at site. This will call for delay by a much longer period and may also incur additional expenditure on account of mobilization, de-mobilization, Management expenses and IDC. Accordingly, FM & CIL notices as per TSA provisions have been submitted. This has impacted project progress incl. approval of various statutory proposals.

**Imposition of Section 144 by SDM, Dhanbad :** SDM, Dhanbad, vide letter dated 16.12.2020, issued notice for imposition of section 144 at 220 kV switchyard area at Dhanbad substation due to land dispute. On account of this, construction activities at 220 kV Switchyard area is completely on hold since 16.12.2020. SDM has called for hearing on 07.01.2021. The FM notice as per TSA provisions have been submitted.

### **4. LILO of both circuits of Ranchi – Maithon-RB 400kV D/c line at Dhanbad**

- Length: 2.4 Ckm
- Locations: 10 nos
- Foundation completed: 01 nos
- Revised schedule completion date: 18 months from date of NOC from CCL/MoC

### **Status of statutory approvals:**

**Forest : NIL**

**Power line crossing**

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

**Railway crossing**

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

**National Highway Crossing**

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

**PTCC approval**

Proposal submitted to BSNL in	:	14-10-20
Proposal submitted to Railways in	:	14-10-20
Current status:		Submitted

**Defence/Civil Aviation**

Proposal submitted to Defence/Civil Aviation  
Current Status: NOC for Civil Aviation obtained

**Constraints where Project Authority requires intervention:**

- a) Pandemic COVID 19: Work affected due to COVID-19 since last week of Feb'20. Further, the situation has not been normalized till date as gangs have gone to their native places & only few gangs are available at site. Further, Gangs are not willing to move considering present situation, so arranging resources is very challenging task. Apart from this, due to lockdown most working season in transmission line projects i.e. March'20 to June'20 had been lost due to COVID-19 lockdown & its effects. Further, we already entered into monsoon season which will further delay work at site. This will call for delay by a much longer period and may also incur additional expenditure on account of mobilization, de-mobilization, Management expenses and IDC. Accordingly, FM & CIL notices as per TSA provisions have been submitted. This has impacted project progress incl. approval of various statutory proposals.

**Details of followup actions:**

1. Joint meeting conducted with CEA, Forest Authorities, NKTL and NTPC to expedite forest approval on 16.03.2020, 16.10.2020.
2. It was requested to expedite forest approval in the Meeting held by JS, MoP on 11.11.2020

3. FM notice has been served to LTTC on 25.02.2020, 26.11.2020 and CEA for delayed in forest clearance.

4. Request letter submitted to DC, Chatra for administration support vide letter no. NKTL/NKC/ROW datd 12.11.2020, letter no. 878 dated 14.10.2020

## **17) Transmission System for Ultra Mega Solar Park in Fatehgarh, Distt. Jaisalmer Rajasthan**

### **Background**

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

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

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

### **Scope of transmission project:**

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

### **General Detail**

Special Purpose Vehicle (SPV)	:	Fatehgarh-Bhadla Transmission Limited (A subsidiary of Adani Transmission Limited)
Bid Process Coordinator (BPC)	:	Power Finance Corporation
Estimated Cost (Rs. crs)	:	624
Request for Qualification	:	30.12.2016
Request for Proposal	:	30.04.2017
Letter of Intent	:	21.02.2018
Transmission Service Agreement(TSA)	:	10.01.2018
SPV acquisition	:	14.03.2018
Transmission License by CERC	:	27.08.2018 (Order date)
Tariff adoption by CERC	:	27.08.2018

Contract Performance Guarantee	:	12.03.2018
Clearance u/s 164	:	Authorization on revised route received on 14.11.2019 after 110 days.
Execution plan to CEA	:	09.07.2018
NIT issued on	:	
EPC contract awarded on	:	
Scheduled Date of Completion	:	30.09.2019
Anticipated Date of Completion	:	Jan'21, however, it can be ascertained only once Status Quo order from Hon'ble High Court vacated.

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

- Length (as per revised route): 292 ckm
- Locations (as per revised route): 405 nos
- Foundation completed: 405 nos (on revised route)
  - Earlier casted 24 nos will be scrapped due to re-routing on account of GIB arc and another 19 nos. scrapped due to height restrictions laid in Defence Aviation NOC dated 16.12.2019.
- Tower erected: 405 nos (on revised route)
- Stringing completed: 292 ckm (last tower span finishing and final checking is under progress)
- 
- Schedule completion: 30.09.2019
- Anticipated completion: Completed

**(ii) Establishment of 400 KV Pooling Station At Fategarh**

- Land acquisition: Sub-lease agreement has been signed between FBTL & Beneficiary.
- Engineering: 100%
- Equipment supplied: 100%
- Civil Works: 98%
- Erection works: 96%
- Schedule completion: 30.09.2019
- Anticipated completion: Jan'21, however, it can be ascertained once Status Quo order from Hon'ble High Court vacated.

**Constraints where Project Authority requires intervention:**

- a) **Pandemic COVID 19:** Work affected due to COVID-19 since last week of Feb'20. Further, the situation has not been normalized till date as gangs have gone to their native places & only few gangs are available at site. Further, Gangs are not willing to move considering present situation, so arranging resources is very challenging task

Apart from this, due to lockdown most working season in transmission line projects i.e. March'20 to June'20 had been lost due to COVID-19 lockdown & its effects. Further, due to monsoon season which will further delay work at site. This will call for delay by a much longer period and may also incur additional expenditure on account of mobilization, de-mobilization, Management expenses and IDC. Accordingly, FM & CIL notices as per TSA provisions have been submitted. This has impacted project progress incl. approval of various statutory proposals.

- b) **High Court status quo:** Hon'ble High Court of Rajasthan vide its interim order dated 08.09.2020 stated that "*Till the matter is heard and disposed of by this Court, the status quo as it exists today, shall be maintained in respect of land in question*". The site activities of Fatehgarh pooling station is under hold till further order from Hon'ble High Court of Rajasthan. As a result of this order, the existing manpower have already left site and re-deployment of resources shall require considerable additional time. As a result of Status Quo order of Rajasthan High Court, project implementation work of FBTL is on hold. FBTL has issued Force Majeure Notice dated 19.09.2020 in terms of its obligation under the TSA.

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

- Schedule completion: 30.09.2019
- Anticipated completion: Jan'21, however, it can be ascertained once Status Quo order from Hon'ble High Court vacated.

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

- Schedule completion: 30.09.2019
- Anticipated completion: Jan'21, however, it can be ascertained once Status Quo order from Hon'ble High Court vacated.

## **18) Transmission System Associated with LTA applications from Rajasthan SEZ Part-D**

### **Background**

Government of India has set a target for establishing 175 GW renewable capacity by 2022 which includes 100 GW Solar, 60 GW Wind generation capacity. Towards this, solar generation potential of about 3.55 GW in Bhadla complex, 3.5 GW in Fatehgarh complex and 1.85 GW in Bikaner has been envisaged. For integration and evacuation of power from generation projects in the above areas, a high capacity 765 kV and 400 kV transmission system interconnecting Bhadla, Fatehgarh, Bikaner, Sikar & Khetri along with establishment of 765/400 kV new substation at Bhadla-II, Fatehgarh-II & Khetri have been planned.

The subject transmission scheme involves implementation of Bikaner – Khetri 765 kV D/C line which shall help in transfer of power from RE sources in above complexes for onward dispersal of power to various beneficiaries.

The proposal has been technically agreed in the 2<sup>nd</sup> meeting of Northern Region Standing committee on Transmission (NRSCT) held on 13.11.2018. The same was agreed in the 3<sup>rd</sup> ECT meeting held on 21.12.2018 for implementing through TBCB route with a commissioning schedule as December, 2020.

### **Scope of transmission project:**

1. Bikaner (PG) – Khetri S/S 765 kV D/C line.
2. 765 kV Bays at Bikaner (PG) & Khetri for Bikaner (PG) – Khetri S/S 765 kV D/C line (765 kV line bays: 4 nos).
3. 1x240 MVar switchable line reactor for each circuit at each end of Bikaner – Khetri 765 kV D/C line along with reactor bays (1x240 MVar Line reactor – 4nos, 765 kV Reactor bay – 4 nos). 1x80 MVar, 765 kV, 1-ph Reactor (spare unit) (For 2x240 MVar line reactor on Bikaner – Khetri 765 kV D/C line at Bikaner end).

### **General Detail**

Special Purpose Vehicle (SPV)	:	Bikaner-Khetri Transmission Limited (A subsidiary of Adani Transmission Limited)
Bid Process Coordinator (BPC)	:	PFC Consulting Limited
Estimated Cost (Rs. crs)	:	INR 1630 Crs
Request for Qualification	:	17.01.2019
Request for Proposal	:	18.03.2019
Letter of Intent	:	31.07.2019
Transmission Service Agreement(TSA)	:	23.04.2019
SPV acquisition	:	19.09.2019
Transmission License by CERC	:	27.12.2019
Tariff adoption by CERC	:	27.12.2019



Contract Performance Guarantee	:	22.08.2019
Clearance u/s 164	:	application submitted to CEA on 29.01.2020 and is under review
Execution plan to CEA	:	submitted on 16.01.2020
NIT issued on	:	
EPC contract awarded on	:	16.11.2019
Scheduled Date of Completion	:	31.12.2020

- There has been delay of 59 days in SPV acquisition for reasons. Accordingly, a notice had been submitted to LTTC on 15.10.2019 to extend the SCOD for the delayed timeframe.

**(i) Bikaner (PG) – Khetri S/S 765 kV D/C line**

- Length: 478 ckm
- Locations: 621 nos
- Foundation completed: 585 nos
- Tower erected: 451 nos
- Stringing completed: 137.66 ckm
- Schedule completion: 31.12.2020
- Anticipated completion: Mar'21, however, it can be ascertained only once the situation normalizes from current restriction due to pandemic COVID-19

Detailed discussion was held during joint meeting dated 21.09.2020 amongst CEA, CTU, TSPs, associated LTTCs, POWERGRID & SECI to finalize revised SCOD of various transmission projects (with associated LTAs) which were under construction as on date of COVID-19 lockdown (i.e. 25.03.2020) & accordingly revised SCoD is being envisaged as 31.05.2020.

**Constraints where Project Authority requires intervention:**

- a) PGCIL is constructing Sub Station at Khetri under Khetri Transco Limited (KTL) and as per RFP scope, PGCIL is to provide space and allocate Bay No. to BKTL for construction of 2 Nos. 765kV Bays at Khetri SS for Bikaner (PG) – Khetri SS 765kV D/C Line. On account of delay in providing Khetri end details, route finalization of transmission line along with submission of statutory proposals got delayed. After lot of persuasion since Sep'19, the Plan layout of Khetri S/S was provided by PGCIL on 03.07.2020. Again on 19.08.20, the balance details sought from PGCIL. Subsequent to that, CEA has asked PGCIL to submit the balance details vide letter dated 26.08.20 as it is affecting the project completion timeline. On 22-Sep-20, PGCIL handed over ~ 90% land. However, complete primary & secondary engineering documents and availability of approach road are still awaited from PGCIL. This delay has adversely affected Engineering activities of Bay construction and has impacted on subsequent construction activities as now only 2 months are left to achieve SCOD. Non-availability of details has impact on achieving SCOD and thus FM notice to this effect has been submitted on

18.12.19. Further, to expedite construction works at Khetri S/S; Contractor of BKTL has constructed temporary approach road which was damaged by Contractor of PGCIL which has resulted into hinderance of execution works.

- b) Pandemic COVID 19: Work affected due to COVID-19 since last week of Feb'20. Further, the situation has not been normalized till date as gangs have gone to their native places & only few gangs are available at site. Further, Gangs are not willing to move considering present situation, so arranging resources is very challenging task. Apart from this, due to lockdown most working season in transmission line projects i.e. March'20 to June'20 had been lost due to COVID-19 lockdown & its effects. Further, we already entered into monsoon season which will further delay work at site. This will call for delay by a much longer period and may also incur additional expenditure on account of mobilization, de-mobilization, Management expenses and IDC. Accordingly, FM & CIL notices as per TSA provisions have been submitted. This has impacted project progress incl. approval of various statutory proposals.

### **Status of statutory approvals:**

#### **Forest**

Details of Tr. Line Falling under Forest:- Locations: 2 nos and Length: 0.771 KM

Forest area affected (ha) : 5.9738 Ha

Forest proposals submitted on: 03.06.20\*

\* Forest area involved could not be assessed as route finalization is affected. Further, PGCIL during meeting held on 8th May 20 among CEA, CTU, PGCIL and ATL/ BKTL had informed that tentative details can be shared from Site level & subsequently tentative details obtained from PGCIL site and accordingly Forest proposal submitted.

Current Status: Proposal is pending at Regional office level.

#### **Power line crossing**

Total no. of crossings	:	26	nos.
Proposal submitted	:	26	nos.
Approval obtained	:	22	nos.

#### **Railway crossing**

Total no. of crossings	:	05	no.
Proposal submitted	:	05	no.
Approval obtained	:	03	no.

#### **National Highway Crossing**

Total no. of crossings	:	04	nos.
Proposal submitted	:	04	nos.
Approval obtained	:	0	no.

## **PTCC**

Proposal submitted to BSNL in : 09.07.20

Proposal submitted to Railways in : 09.07.20

Current status: : Approved on 18.12.2020

\*Proposal submission was impacted due to non-availability of termination details at Khetri S/S from KTL/PGCIL.

## **Defence/Civil Aviation**

Proposal submitted to Defence/Civil Aviation : 14.07.20/ 07.07.20

Current Status: In Process/ NOC received on 09.10.20

\*Proposal submission was impacted due to non-availability of termination details at Khetri S/S from KTL/PGCIL.

### **(ii) 765 kV Bays at Bikaner (PG) & Khetri for Bikaner (PG) – Khetri S/S 765 kV D/C line (765 kV line bays: 4 nos).**

- Land acquisition: As per RFP, space for bay extension to be provided by PGCIL.
- Engineering: 90%
- Equipment supplied: 55%
- Civil Works: 52%
- Erection works: 45%
- Schedule completion: 31.12.2020
- Anticipated completion: Mar'21, however, it can be ascertained once situation normalizes from current restriction due to pandemic COVID 19

Detailed discussion was held during joint meeting dated 21.09.2020 amongst CEA, CTU, TSPs, associated LTTCs, POWERGRID & SECI to finalize revised SCOD of various transmission projects (with associated LTAs) which were under construction as on date of COVID-19 lockdown (i.e. 25.03.2020) & accordingly revised SCoD is being envisaged as 31.05.2020.

### **(iii) 1x240 MVar switchable line reactor for each circuit at each end of Bikaner – Khetri 765 kV D/C line along with reactor bays (1x240 MVar Line reactor – 4nos, 765 kV Reactor bay – 4 nos)**

- Land acquisition: As per RFP, space for bay extension to be provided by PGCIL.
- Engineering: 100%
- Equipment supplied: 77%
- Civil Works: 61%
- Erection works: 54%
- Schedule completion: 31.12.2020
- Anticipated completion: Mar'21, however, it can be ascertained once

situation normalizes from current restriction due to pandemic COVID 19

Detailed discussion was held during joint meeting dated 21.09.2020 amongst CEA, CTU, TSPs, associated LTTCs, POWERGRID & SECI to finalize revised SCOD of various transmission projects (with associated LTAs) which were under construction as on date of COVID-19 lockdown (i.e. 25.03.2020) & accordingly revised SCoD is being envisaged as 31.05.2020.

**Note: Khetri end work recently started & approx. 5% civil work has been completed.**

**Constraints where Project Authority requires intervention:**

PGCIL is constructing Sub Station at Khetri under Khetri Transco Limited (KTL) and as per RFP scope, PGCIL is to provide space and allocate Bay No. to BKTL for construction of 2 Nos. 765kV Bays at Khetri SS for Bikaner (PG) – Khetri SS 765kV D/C Line. Plan layout of Khetri S/S was provided by PGCIL on 03.07.2020. Again on 19.08.20, the balance details sought from PGCIL. Subsequent to that, CEA has asked PGCIL to submit the balance details vide letter dated 26.08.20 as it is affecting the project completion timeline. On 22-Sep-20, PGCIL handed over ~ 90% land. However, primary engineering inputs i.e Existing HVWS and yard piping layout, Auxiliary supply feeder input from existing LT panels and secondary engineering inputs i.e PMU Architecture & Relay setting and availability of approach road are still awaited from PGCIL. On 28.12.2020, PGCIL have provided Existing HVWS & yard piping layout and Fiber optic & PMU Architecture layout. This delay has adversely affected Engineering activities of Bay construction and has impacted on subsequent construction activities. However, based on the details submitted, the foundation activities have been commenced

## **19) Transmission System for Western Region Strengthening Scheme – 21 (WRSS – 21) Part – A – Transmission System Strengthening for Relieving Over Loadings Observed in Gujarat Intra-State System Due to Re-injections in Bhuj PS**

### **Background**

Government of India has set a target for establishing 175 GW renewable capacity by 2022 which includes 100 GW Solar, 60 GW Wind generation capacity. This includes wind potential of about 6 GW in Bhuj complex, 2 GW in Lakadia and 1.5 GW in Dwarka. For integration and evacuation of power from generation projects in the above areas, a high 765 kV and 400 kV transmission system interconnecting Bhuj, Lakadia, Banaskantha, Vadodara & Dwarka along with establishment of 765/440/220 kV new substations at Bhuj-II & Lakadia and 400/220 kV new substation at Jam Khambhaliya (Dwarka) have been planned.

The subject transmission scheme involves establishment of 765/400 kV Lakadia Pooling station along with LILO of Bhachau – EPGL 400 kV D/C (triple) line at Lakadia PS and Bhuj PS – Lakadia PS 765 kV D/C line which helps in transfer of power from RE sources in the Kutch area of Gujarat (Bhuj complex) to Lakadia for onward dispersal of power to their respective beneficiaries.

The proposal has been agreed in the 1<sup>st</sup> meeting of Western Region Standing Committee on Transmission (WRSCT) held on 05.09.2018. The same was agreed in the 3<sup>rd</sup> ECT meeting on 21.12.2018 for implementing through TBCB route with a commissioning schedule as December, 2020. In line with Ministry of Power letter dated 27.07.2019, project completion period is extended for further 5 months in view of pandemic impact of Covid-19 and hence, revised commissioning schedule is May'2020.

### **Scope of transmission project:**

1. Establishment of 2x1500 MVA, 765/400 kV Lakadia PS with 765 kV (1x330 MVAR) & 420 kV (1x125 MVAR) bus reactor
  - 2x1500 MVA, 765/400 kV
  - 400 kV ICT bay – 2
  - 765 kV ICT bay – 2
  - 400 kV line bay – 4
  - 765 kV line bay – 2
  - 1x330 MVAR, 765 kV,
  - 1x125 MVAR, 420 kV
  - 765 kV Reactor bay – 1
  - 420 kV Reactor bay – 1
  - Future provisions, Space for:
    - (i) 765/400 kV ICTs along with bays: 2 nos
    - (ii) 400/220 kV ICTs along with bays: 8 nos
    - (iii) 765 kV line bays: 4 nos
    - (iv) 400 kV line bays: 6 nos
    - (v) 220 kV line bays: 16 nos
    - (vi) 765 kV bus reactor along with bays: 1 no

- (vii) 400 kV bus reactor along with bays: 1 no
- 2. LILO of Bhachau – EPGL line 400 kV D/C (triple) line at Lakadia PS.
- 3. Bhuj PS – Lakadia PS 765 kV D/C line.
- 4. 2 nos of 765 kV bays at Bhuj PS for Bhuj PS – Lakadia PS 765 D/C line.

## General Detail

Special Purpose Vehicle (SPV)	:	WRSS XXI(A) Transco Limited (A subsidiary of Adani Transmission Limited)
Bid Process Coordinator (BPC)	:	REC Transmission Projects Co. Ltd.
Estimated Cost (Rs. crs)	:	INR 1090 Crs
Request for Qualification	:	12.01.2019
Request for Proposal	:	13.03.2019
Letter of Intent	:	31.07.2019
Transmission Service Agreement(TSA)	:	23.04.2019
SPV acquisition	:	14.10.2019
Transmission License by CERC	:	received on 24.01.2020
Tariff adoption by CERC	:	received on 27.01.2020
Contract Performance Guarantee	:	
Clearance u/s 164	:	submitted to CEA on 16.01.20, Acknowledgment received on 06.05.20 Approved on 22-07-2020.
Execution plan to CEA	:	submitted on 10.02.2020
NIT issued on	:	
EPC contract awarded on	:	31.10.2019
Scheduled Date of Completion	:	31.12.2020
Anticipated completion	:	31.05.2021

- There has been delay of 91 days in SPV acquisition for reasons. Accordingly, a notice had been submitted to LTTC on 15.10.2019 to extend the SCOD for the delayed timeframe.

### (i) Bhuj PS – Lakadia PS 765 kV D/C line

- Length: 214 ckm
- Locations: 280 nos
- Foundation completed: 156 nos
- Tower erected: 66 nos
- Stringing completed: 0 ckm
- Schedule completion: 31.12.2020
- Anticipated Completion: 31.05.2021

### Constraints where Project Authority requires intervention:

- a) **Facing severe Row:** Facing severe Right of Way in the Kutch District of Gujarat State because of which entire project is getting affected due to exorbitant demand of compensation by villagers & landowner. Therefore, we have taken up this matter with administration for resolution and applied to District Collector (DC). Application submitted

for 35 villages out of total 37 villages All files are forwarded to Mamlatdar office. DC has issued an order for compensation for RoW for 10 villages, thereby increasing the compensation for RoW multifold from a Jantri rate of Rs. 20 – 100 per Sq. Mtr to Rs. 900 / 950 per Sq. Mtr, even then the villagers and landowners are not allowing to carry out the foundation works at site and are creating law and order situation, for which we have taken police protection before lockdown but despite that, the progress has been slow. Further, after resumption of work TSP has approached to administration for Police Protection immediate after resumption of lockdown, but confirmation received on 24.08.2020.

Further, in this project, recently many Power lines are being constructed by other utilities wherein crop compensation paid by them Rs. 60 per Sq. Mtr (3 Times higher than APMC rate from Rs. 15 to Rs. 20 per Sq. Mtr) which is creating huge ROW issues along the corridor.

Apart, it is noticed that after application to DC to issuance of final order for compensation it took 3-4 month which also major area of concern for such stressed targeted projects. This timeline must be curtailed down so expedite process in the national interest. Further, due to Covid-19, DM also postponing hearing which is leads to further delay in issuance of order.

Need the support of administration to proceed ahead in this situation, wherein WRSS XXI(A) is ready to make a payment of many times over the Jantri rate (in line with the orders of DC) but even then, the Landowners are not willing to allow us to work.

- b) Pandemic COVID - 19: Work affected due to COVID-19 since last week of Feb'20. Further, the situation has not been normalized till date as gangs have gone to their native places & only few gangs are available at site. Further, Gangs are not willing to move considering present situation, so arranging resources is very challenging task Apart from this, due to lockdown most working season in transmission line projects i.e. March'20 to June'20 had been lost due to COVID-19 lockdown & its effects. Further, we already entered into monsoon season which will further delay work at site. This will call for delay by a much longer period and may also incur additional expenditure on account of mobilization, de-mobilization, Management expenses and IDC. Accordingly, FM & CIL notices as per TSA provisions have been submitted. This has impacted project progress incl. approval of various statutory proposals.

#### **Details of followup actions:**

\* Letter have been submitted to DM of Kutch for necessary support in resolving ROW issues.

\* Regular follow up is being done with DM/SDM for expedite the hearing process.

\* Jantri rate issues already taken up with CEA and MoP vide meeting dated: 11.11.2020

\* Letter have been submitted to CEA dated 26.11.20 highlighting ROW issues.

\* Letter have been sent by CEA to Addl. Cheif Sect.( Revenue Dept.), Gujarat dt 11-12-20, regeading necessary support in resolving ROW issues.

### **Status of statutory approvals:**

#### **Forest**

Details of Tr. Line Falling under Forest                      Length: 0.492 Km  
Forest area affected (ha)    : 3.0916 Ha

Forest proposals

**Current status:** Stage-I approval recived on 23-10-2020.

#### **Power line crossing**

Total no. of crossings	:	17	nos.
Proposal submitted	:	17	nos.
Approval obtained	:	16	nos.

#### **Railway crossing**

Total no. of crossings	:	NIL
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#### **National Highway Crossing**

Total no. of crossings	:	01	nos.
Proposal submitted	:	01	nos.
Approval obtained	:	00	no.

#### **PTCC**

Proposal submitted to BSNL in	:	clearance received for IV(interference Voltage)
Proposal submitted to Railways in	:	clearance received for IV(interference Voltage)
Current status:	:	NOC Received on 28.07.2020.

#### **Defence/Civil Aviation**

Proposal submitted to Defence/Civil Aviation : Proposal submitted on 06.02.2020

Current Status: Civil NOC received on 29.06.2020.

Defense NOC received on 02.07.2020

### **(ii) LILO of Bhachau – EPGL line 400 kV D/C (triple) line at Lakadia PS**

- |                           |            |
|---------------------------|------------|
| • Length:                 | 76 ckm     |
| • Locations:              | 119 nos    |
| • Foundation completed:   | 41 no      |
| • Tower erected:          | 11 nos     |
| • Stringing completed:    | 0 ckm      |
| • Schedule completion:    | 31.12.2020 |
| • Anticipated completion: | 31.05.2021 |



### **Constraints where Project Authority requires intervention:**

- a) **Facing severe Row:** Landowners are not accepting compensation as per Govt. of Gujarat order and are demanding compensation for RoW multifold from a Jantri rate of Rs. 20 – 100 per sq. mt to Rs. 900 / 950 per sqm, support from local administration is being sought.
- b) **Pandemic COVID - 19:** Work affected due to COVID-19 since last week of Feb'20. Further, the situation has not been normalized till date as gangs have gone to their native places & only few gangs are available at site. Further, Gangs are not willing to move considering present situation, so arranging resources is very challenging task. Apart from this, due to lockdown most working season in transmission line projects i.e. March'20 to June'20 had been lost due to COVID-19 lockdown & its effects. Further, we already entered into monsoon season which will further delay work at site. This will call for delay by a much longer period and may also incur additional expenditure on account of mobilization, de-mobilization, Management expenses and IDC. Accordingly, FM & CIL notices as per TSA provisions have been submitted. This has impacted project progress incl. approval of various statutory proposals.

### **Status of statutory approvals:**

#### **Forest**

Details of Tr. Line Falling under Forest:- : Length: 0.162 Km

Forest area affected (ha) : 0.7507 Ha

Forest proposals

**Current status:** Stage-1 clearance received on 28.07.2020.

#### **Power line crossing**

Total no. of crossings	:	28	nos.
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Proposal submitted	:	28	nos.
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Approval obtained	:	27	nos.
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#### **Railway crossing**

Total no. of crossings	:	04	no.
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Proposal submitted	:	04	no.
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Approval obtained	:	00	no.
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#### **National Highway Crossing**

Total no. of crossings	:	04	nos.
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Proposal submitted	:	04	nos.
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Approval obtained	:	00	no.
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## **PTCC**

Proposal submitted to BSNL in	:	Proposal submitted on 05.03.2020
Proposal submitted to Railways in	:	Proposal submitted on 05.03.2020
Current status:	:	In Process

## **Defence/Civil Aviation**

Proposal submitted to Defence/Civil Aviation :

Current Status:	Civil NOC received on 01.06.2020
	Defense NOC received on 02.07.2020

### **(iii) Establishment of 2x1500 MVA, 765/400 kV Lakadia PS with 765 kV (1x330 MVAR) & 420 kV (1x125 MVAR) bus reactor**

- Land acquisition: acquisition under process & at advance stage
- Engineering: 90%
- Equipment supplied: 65%
- Civil Works: 20%
- Erection works:
- Schedule completion: 31.12.2020
- Anticipated completion: 31.05.2021

### **(iv) 2 Nos 765kV Bays at Bhuj PGCIL substation.**

- Engineering: 100%
- Equipment supplied: 98%
- Civil Works: 100%
- Erection works: 98%
- Schedule completion: 31.12.2020
- Anticipated completion: 31.05.2021

## **Constraints where Project Authority requires intervention:**

- a) Pandemic COVID - 19: Work affected due to COVID-19 since last week of Feb'20. Further, the situation has not been normalized till date as gangs have gone to their native places & only few gangs are available at site. Further, Gangs are not willing to move considering present situation, so arranging resources is very challenging task. Apart from this, due to lockdown most working season in transmission line projects i.e. March'20 to June'20 had been lost due to COVID-19 lockdown & its effects. Further, we already entered into monsoon season which will further delay work at site. This will call for delay by a much longer period and may also incur additional expenditure on account of mobilization, de-mobilization, Management expenses and IDC. Accordingly,

FM & CIL notices as per TSA provisions have been submitted. This has impacted project progress incl. approval of various statutory proposals.

## **20) Transmission System for Transmission System Associated with RE Generations at Bhuj-II, Dwarka & Lakadia**

### **Background**

Govt. of India has set a target for establishing 175 GW renewable capacity by 2022 which includes 100 GW Solar, 60 GW Wind generation capacity. This includes wind potential of about 6GW in Bhuj complex, 2GW in Lakadia and 1.5GW in Dwarka. For integration and evacuation of power from generation projects in the above areas, a high capacity 765kV and 400kV transmission system interconnecting Bhuj, Lakadia, Banaskantha, Vadodara & Dwarka along with establishment of 765/400/220kV new substations at Bhuj-II & Lakadia and 400/220kV new substation at Jam Khambhaliya (Dwarka) have been planned.

The subject transmission scheme involves implementation of Lakadia – Banaskantha 765kV D/c line which is required for transfer of power from RE sources in the Bhuj, Lakadia & Dwarka complexes of Gujarat to Banaskantha for onward dispersal of power to their respective beneficiaries.

The proposal has been agreed in the 1st meeting of Western Region Standing Committee on Transmission (WRSCT) held on 5.9.2018. The same was agreed in the 3rd ECT meeting held on 21.12.2018 for implementation through TBCB route with a commissioning schedule of June 2021 or as per the progress of connectivity/LTA applications of RE projects from WEZ in Gujarat.

### **Scope of transmission project:**

1. Lakadia PS – Banaskantha PS 765kV D/c line.
2. 765kV Bays at Lakadia and Banaskantha sub-stations for Lakadia PS – Banaskantha PS 765kV D/c line.
3. 2x240MVAR switchable Line reactor along with bays at Banaskantha end of Lakadia PS – Banaskantha PS 765kV D/c line and 1x80 MVAR, 765 kV, 1 ph switchable line reactor (Spare unit) at Banaskantha end.

### **General Detail**

Special Purpose Vehicle (SPV)	:	Lakadia Banaskantha Transco Limited (A subsidiary of Adani Transmission Limited)
Bid Process Coordinator (BPC)	:	REC Transmission Projects Co. Ltd.
Estimated Cost (Rs. crs)	:	INR 1052 Cr
Request for Qualification	:	12.01.2019
Request for Proposal	:	13.03.2019
Letter of Intent	:	28.10.2019
Transmission Service Agreement(TSA)	:	23.10.2019
SPV acquisition	:	13.11.2019

Transmission License by CERC	:	03.03.2020
Tariff adoption by CERC	:	05.03.2020
Contract Performance Guarantee	:	
Clearance u/s 164	:	submitted on 24.02.2020
Execution plan to CEA	:	07.03.2020
NIT issued on	:	
EPC contract awarded on	:	24.12.2019
Scheduled Date of Completion	:	30.06.2021
Anticipated date of completion	:	30.09.2021

**(i) Lakadia PS – Banaskantha PS 765kV D/c line**

- Length: 352 ckm
- Locations: 473 nos
- Foundation completed: 252 nos
- Tower erected: 133 nos
- Stringing completed: 003 ckm
- Schedule completion: Jun'21
- Anticipated completion: Sep'21

**Constraints where Project Authority requires intervention:**

- a) Pandemic COVID – 19:** Work affected due to COVID-19 since last week of Feb'20. Further, the situation has not been normalized till date as gangs have gone to their native places & only few gangs are available at site. Further, Gangs are not willing to move considering present situation, so arranging resources is very challenging task. Apart from this, due to lockdown most working season in transmission line projects i.e. March'20 to June'20 had been lost due to COVID-19 lockdown & its effects. Further, due to monsoon season which will further delay work at site. This will call for delay by a much longer period and may also incur additional expenditure on account of mobilization, de-mobilization, Management expenses and IDC. Accordingly, FM & CIL notices as per TSA provisions have been submitted. This has impacted project progress incl. approval of various statutory proposals.

**Details of followup actions:**

1. Letter have been submitted to DM's of respective districts for necessary support in resolving ROW issues.
2. Letter have been submitted to CEA dated 26.11.20 highlighting ROW issues.
3. Letter have been sent by CEA to ADCS, Revenue Dept., Gujarat dt 11-12-20, regarding necessary support in resolving ROW issues.

**Status of statutory approvals:**

**Forest**

Details of Tr. Line Falling under Forest:- Length: 3.1706 KMs  
 Forest area affected (ha) : 25.245 Ha  
 Forest proposal submitted on 31.12.2019

**Wild Life**

Details of Tr. Line Falling under Wild Life:-Length: 1.599 KMs

Wild Life area affected (ha) : 9.749 Ha

Wild Life proposal submitted – proposal submitted on 13.01.2020.

**Current status:**

Forest proposal Stage 1 Approval has been recieved.

Wildlife proposal: Wildlife proposal was recommended in SBWL Meeting held during month of Sept'20. Presently under State Govt. approval

**Power line crossing**

Total no. of crossings	:	33	nos.
Proposal submitted	:	33	nos.
Approval obtained	:	29	nos.

**Railway crossing**

Total no. of crossings	:	02	no.
Proposal submitted	:	02	no.
Approval obtained	:	0	no.

**National Highway Crossing**

Total no. of crossings	:	03	nos.
Proposal submitted	:	03	nos.
Approval obtained	:	0	no.

**PTCC**

Proposal submitted to BSNL in	:	submitted
Proposal submitted to Railways in	:	submitted
Current status:	:	Letter from CEA for approval of IR calculation recieved. NOC for BSNL & Railway awaited.

**Defence/Civil Aviation**

Proposal submitted to Defence/Civil Aviation :

Current Status: Civil Aviation Proposal approved  
Defence Aviation Proposal approved

**(ii) 765 kv Bay at Lakadia & Banaskantha- 2 no's at each end**

- Land acquisition : Completed in PGCIL Scope
- Engineering : 85%
- Civil Works: : 70%
- Equipment supplied : 70%
- Erection works: : 39%
- Schedule completion: 30.06.2021
- Anticipated completion: 30.09.2021

Area grading under progress at Lakadia SS for 2 no's 765 kV Bays.

(iii) Installation for 7 no's 80 mVAR 765 kV Reactors at Banaskantha , PGCIL SS

- Land acquisition : Completed in PGCIL Scope
- Engineering : 100%
- Equipment supplied : 29%
- Civil Works: : 90%
- Erection works: : NIL
- Schedule completion: 30.06.2021
- Anticipated completion: 30.09.2021

## **21) Transmission System for Jam Khambaliya Pooling Station and Interconnection of Jam Khambaliya Pooling Station for Providing Connectivity to RE Projects (1500 MW) in Dwarka (Gujarat) and Installation of 400/220 kV ICT along with Associated Bays at CGPL Switchyard**

### **Background**

#### **Connectivity System for RE projects (1500 MW) in Dwarka (Gujarat)**

Govt. of India has set a target for establishing 175 GW renewable capacity by 2022 which includes 100 GW Solar, 60 GW Wind generation capacity. This includes wind potential of +about 6GW in Bhuj complex, 2GW in Lakadia and 1.5GW in Dwarka. For integration and evacuation of power from generation projects in the above areas, a high capacity 765kV and 400kV transmission system interconnecting Bhuj, Lakadia, Banaskantha, Vadodara & Dwarka along with establishment of 765/400/220kV new substations at Bhuj-II & Lakadia and 400/220kV new substation at Jam Khambhaliya (Dwarka) have been planned.

The subject transmission scheme involves establishment of 400/220kV Jam Khambhaliya Pooling station along with extension of Essar–Lakadia/ Bhachau 400kV D/c (triple snowbird) line upto Jam Khambhaliya PS for providing connectivity to RE projects in Dwarka (Gujarat). This could be utilized for injection of power (~1500 MW) from wind or solar projects in the area.

The proposal has been agreed in the 1st meeting of Western Region Standing Committee on Transmission (WRSCT) held on 5.9.2018. The same was agreed in the 3rd ECT meeting held on 21.12.2018 for implementation through TCB route with a commissioning schedule of June, 2020.

#### **Installation of 400/220 kV ICT along with associated bays at M/s CGPL Switchyard**

Over the years, the National Grid has become robust; however, the systems have also become more complex and the uncertainties have increased a lot, particularly in terms of weather and natural calamities. This leads to low probability high impact incidents impacting pockets of the grid often leading to prolonged power supply outages. Therefore, Resilience of the grid becomes important. A resilient system recognizes the fact that there can be failures in the system but has well proven systems for quick revival.

The same principle also applies to large power plants like the Ultra Mega Power Projects (UMPPs) and other large power stations. In view of the above, the 500 MVA, 400/220 kV ICT at CGPL Mundra was agreed by the members during the 1st WRSCT meeting held on 05.09.2018 from the viewpoint of having a resilient system in place. The scheme would provide the startup power to CGPL through Nanikhakhar-CGPL 220 kV S/C line (existing). The line would normally be kept open from CGPL end. The scheme was discussed in the



2nd NCT meeting held on 04.12.2018 & 3rd ECT meeting held on 21.12.2018 wherein it was agreed to implement the same through TBCB route.

### **Scope of transmission project:**

#### **A) Jam Khambhaliya Pooling Station for providing connectivity to RE projects (1500 MW) in Dwarka (Gujarat)**

1. Establishment of 4x500 MVA, 400/220 kV Jam Khambhaliya PS (GIS).
2. 1x125 MVA, 420 kV Bus reactor at Jam Khambhaliya PS along with reactor bay.

#### **B) Interconnection of Jam Khambhaliya Pooling station for providing connectivity to RE projects (1500 MW) in Dwarka (Gujarat)**

1. Extension of Essar-Lakadia/Bhachau 400 kV D/C (triple snowbird) line upto Jam Khambhaliya PS.
2. 2 nos of 400 kV line Bays at Jam Khambhaliya PS for termination of Jam Khambhaliya PS – Lakadia 400 kV D/C (triple) line.
3. 63 MVA switchable line reactor at both ends of Lakadia – Jam Khambhaliya 400 kV D/C line along with 500 Ohms NGR on both circuits & at both ends of Lakadia – Jam Khambhaliya 400 kV D/C line.

#### **C) Installation of 400/220 kV ICT along with associated bays at M/s. CGPL Switchyard**

1. 1x500 MVA, 400/220 ICT at CGPL Mundra switchyard

### **General Detail**

Special Purpose Vehicle (SPV)	:	Jam Khambhaliya Transco Limited (A subsidiary of Adani Transmission Limited)
Bid Process Coordinator (BPC)	:	REC Transmission Projects Co. Ltd.
Estimated Cost (Rs. crs)	:	INR 394 Cr
Request for Qualification	:	12.01.2019
Request for Proposal	:	13.03.2019
Letter of Intent	:	28.10.2019
Transmission Service Agreement(TSA)	:	23.10.2019
SPV acquisition	:	13.11.2019
Transmission License by CERC	:	received on 24.03.2020
Tariff adoption by CERC	:	received on 24.03.2020
Contract Performance Guarantee	:	
Clearance u/s 164	:	submitted to CEA on 10.02.2020 Acknowledgment received on 13.05.20 Approval received on 22.07.20
Execution plan to CEA	:	submitted on 07.03.2020
NIT issued on	:	
EPC contract awarded on	:	awarded on 31.01.2020
Scheduled Date of Completion	:	31.03.2021
Anticipated completion	:	30.06.2021

- There has been delay of 23 days in SPV acquisition for reasons. Accordingly, a notice had been submitted to BPC on 12.11.2019 and to LTTC on 19.11.2019 to extend the SCOD for the delayed timeframe.

**(i) Establishment of 4x500 MVA, 400/220 kV Jam Khambhaliya PS (GIS)**

- Land acquisition : Completed
- Engineering : 100%
- Civil Works : 80%
- Equipment supplied: : 65%
- Erection works : 3%
- Schedule completion: 31.03.2021
- Anticipated completion: 30.06.2021

**Constraints where Project Authority requires intervention:**

- a) Pandemic COVID - 19: Work affected due to COVID-19 since last week of Feb'20. Further, the situation has not been normalized till date as gangs have gone to their native places & only few gangs are available at site. Further, Gangs are not willing to move considering present situation, so arranging resources is very challenging task. Apart from this, due to lockdown most working season in transmission line projects i.e. March'20 to June'20 had been lost due to COVID-19 lockdown & its effects. Further, due to monsoon season which will further delay work at site. This will call for delay by a much longer period and may also incur additional expenditure on account of mobilization, de-mobilization, Management expenses and IDC. Accordingly, FM & CIL notices as per TSA provisions have been submitted. This has impacted project progress incl. approval of various statutory proposals.

**(ii) Extension of Essar-Lakadia/Bhachau 400 kV D/C (triple snowbird) line up to Jam Khambhaliya PS**

- Length: 38 ckm
- Locations: 50 nos
- Foundation completed: 17 nos
- Tower erected: 03 nos
- Stringing completed: 00 ckm
- Schedule completion: Mar'21
- Anticipated completion: June'21

**Constraints where Project Authority requires intervention:**

- a) Pandemic COVID - 19: Work affected due to COVID-19 since last week of Feb'20. Further, the situation has not been normalized till date as gangs have gone to their native places & only few gangs are available at site. Further, Gangs are not willing to move considering present situation, so arranging resources is very challenging task. Apart from this, due to lockdown most working season in transmission line projects i.e.

March'20 to June'20 had been lost due to COVID-19 lockdown & its effects. Further, due to monsoon season which will further delay work at site. This will call for delay by a much longer period and may also incur additional expenditure on account of mobilization, de-mobilization, Management expenses and IDC. Accordingly, FM & CIL notices as per TSA provisions have been submitted. This has impacted project progress incl. approval of various statutory proposals.

### **Status of statutory approvals:**

#### **Forest**

Details of Tr. Line Falling under Forest:- No forest involved, confirmed by Local forest office.

#### **Power line crossing**

Total no. of crossings	:	02	nos.
Proposal submitted	:	01	nos.
Approval obtained	:	01	nos.

#### **Railway crossing**

Total no. of crossings	:	01	no.
Proposal submitted	:	01	no.
Approval obtained	:	00	no.

#### **PTCC**

Proposal submitted to BSNL in	:	
Proposal submitted to Railways in	:	
Current status	:	Proposal submitted on 27.07.20

### **(iii) 1x500 MVA, 400/220 ICT at CGPL Mundra switchyard**

- Land acquisition :Pending. Land is to be provided by CGPL.
- Engineering :Commenced
- Equipment supplied :NIL
- Civil Works :NIL
- Erection works :NIL
- Schedule completion :31.03.2021
- Anticipated completion :30.06.2021

### **Constraints where Project Authority requires intervention:**

- a.) **Space constraint in CGPL, Mundra:** As per RFP, adequate land for construction of installation of 500 MVA transformer and associated system was to be provided by CGPL, Mundra. However, during site visit, CGPL, Mundra as informed that required land is not available. Hence, layout fitment is challenging and there is no confirmation from CGPL, Mundra on allocating required patch of land.

Meeting was held between CGPL & JKTL on 12.05.2020 wherein CGPL informed that unless this issue gets resolved, they will not allow for commencement of work.

Subsequently, meeting between CEA, REC, CTU on 03.06.2020 to discuss way forward on this, wherein JKTL & CGPL to submit best possible way out to conclude matter. Subsequently Meetings were held on 25.06.2020, 07.08.2020. As discussed in last meeting joint site visit conducted 10.08.20 and JKTL shared modified layouts to CGPL incorporating CGPL's suggestions to extent possible and meeting proposal sent to CEA to resolution of issue but confirmation awaited. Matter has been discussed with CEA, GETCO & CGPL. Layout has been revised as per CGPL requirement.

The above is delaying the overall timeline for completion of the project. Therefore, FM notice have been submitted on 15.06.2020. Also, matter taken up with CEA PSPA-1 vide letter dated: 28.07.2020 for early resolution of issue. . Joint site visit conducted & layout submitted to CEA on 14.08.2020. As discussed with CEA & CGPL on 06-10-2020; final layout is submitted on 12-10-2020. Further confirmation from CGPL is awaited.

**Details of followup actions:**

\* Approached to DM for resolution of RoW.

\* In Space constraint issues: Over period of times, many follow up meeting have been conducted with CGPL, CEA, BPC for resolution of matter. But matter yet to conclude.

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

### **Background**

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

### **Scope of transmission project**

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

### **General Details**

Special Purpose Vehicle (SPV)	: North Karanpura Transmission Company Ltd. (A subsidiary of RPTL)
Bid Process Coordinator (BPC)	: Rural Electrification Corporation
Estimated Cost (Rs. Crs)	: 2700
Levelised Tariff(Rs. Crs)	: 258
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 12<sup>th</sup> August has disposed of the appeal and directed ATE to decide on the appeal. An Interim Application (IA Nos. 479 & 480 of 2018) was filed in ATE. APTEL in its hearing dated 01<sup>st</sup> Feb 19 disposed off the case directing to go back to CERC for a fresh treatment - including (but not limited to) the aspect of the very necessity of NK and TT transmission system. A petition has been filed with a stay application in CERC for redressal of grievances. CERC has directed PGCIL to file an affidavit on the necessity of the project. The case is ongoing in CERC. Next Hearing date awaited..

## **23) Name of transmission project - Augmentation Talcher-II Transmission System**

### **Background**

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

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

### **Scope of transmission project**

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

### **General Details**

Special Purpose Vehicle (SPV)	:	Talcher-II Transmission Company Ltd. (A subsidiary of RPTL)
Bid Process Coordinator	:	Rural Electrification Corporation
Estimated Cost (Rs. crs)	:	1400
Levelised Tariff(Rs. Crs)	:	144
Request for Qualification	:	06.10.2008
Request for Proposal	:	08.05.2009
Letter of Intent	:	18.12.2009
Transmission Service Agreement (TSA)	:	10.09.2009
SPV acquisition	:	27.04.2010
Transmission License by CERC	:	08.11.2010
Tariff adoption by CERC	:	Matter in CERC for revision of tariff
Contract Performance Guarantee	:	22.04.2010
Clearance u/s 164	:	12.08.2013
Execution plan submitted to CEA	:	13.10.2010 and 28.10.2010
Scheduled Date of Completion	:	27.10.2012
Anticipated Date of Completion	:	Matter with APTEL

### **Status of progress of transmission project**

1. Talcher II – Rourkela 400 kV D/C (Q) line
2. Talcher II – Behrampur 400 kV D/C line
3. Behrampur – Gazuwaka 400 kV D/C line

#### **4. 2x315 MVA, 400/220 kV Behrampur substation**

The Company had approached Central Electricity Regulatory Commission (CERC) for allowing tariff revision and Force Majeure due to delay in grant of clearance u/s 164 of Electricity Act (EA). CERC notified an unfavorable order dated 09.05.2013, which was later challenged by TTCL in Appellate Tribunal for Electricity (ATE). ATE allowed the appeal filed by company and set aside the unfavorable CERC order.

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

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

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

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

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

SC on 12<sup>th</sup> August has disposed of the appeal and directed ATE to decide on the appeal. An Interim Application (IA Nos. 479 & 480 of 2018) was filed in ATE. APTEL in its hearing dated 01<sup>st</sup> Feb 19 disposed off the case directing to go back to CERC for a fresh treatment - including (but not limited to) the aspect of the very necessity of NK and TT transmission system. A petition has been filed with a stay application in CERC for redressal of grievances. CERC has directed PGCIL to file an affidavit on the necessity of the project. The case is ongoing in CERC. Next Hearing date awaited.