सत्यमेव जयते

Monthly progress Report of Transmission Projects awarded through Tariff Based Competitive Bidding (TBCB) Route (Under Construction Projects) (As on 31.12.2021)

Government of India
Ministry of Power
Central Electricity Authority
New Delhi

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Total Transmission Projects : 59
Transmission Projects Commissioned/Ready for commissioning : 38
Transmission Projects Under Construction : 17
Tr. Projects whose construction could not be started due to litigation : 02
Tr. Project where TSP has requested for closing of project : 01
Transmission Projects scrapped/cancelled by CERC : 01

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 rector 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, 2×1500MVA substation at Medinipur**

765kV

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

400kV

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

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

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

765kV

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

400kV

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

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

General 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
Levellised 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/ Dec'20*
Anticipated Date of Completion	:	Feb-2022

Status of progress of transmission project:

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

- Length : 269 Km
- Locations : 718 nos.
- Scheduled COD July'2020/ Dec'2020*

Line commissioned w.e.f. 09.02.2021.

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.

Scheduled COD July'2020/ Dec'2020*
Actual COD Sept' 2021

Line commissioned w.e.f. 29.09.2021.

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 285 nos .
- Tower erection 255 nos.
- Stringing 63 kms

- Scheduled COD July'2020/ Dec'2020*
- Anticipated COD Feb'2022

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	:	11	nos. Date: 3 nos each in Sep & Nov'18

Railway crossing

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

National Highway Crossing

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

River Crossings : NIL

<u>Constraints being faced during execution:</u>

1. Work has been affected due to COVID-19 pandemic.
2. Work affected by Cyclone Amphan in May'20.
3. Work affected due to state assembly election in Apr'21.
4. Work also affected due to 2nd wave of COVID-19 in Apr'21.

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. In a meeting held on 28.06.2021, Member(PS), CEA reviewed this project

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.
- Scheduled COD : July'2020/ Dec'2020*
- Anticipated COD : Sept'2021

Commissioned wef 29.09.2021.

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.
Scheduled COD : July' 2020/ Dec'2020*
Actual COD : Feb' 2021

Line commissioned w.e.f. 09.02.2021.

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

(Award placed on 29.09.2017 to M/s BHEL)

Scheduled COD : July'2020/ Dec'2020*

Actual COD : Sept' 2021

As per transmission service agreement dated 17.11.2016 Medinipur substation is commissioned w.e.f. 09.02.2021. However, bays related to Medinipur -Jeerat **line commissioned on 29.09.21**

8. 2x1500 MVA , 765/400 kV Substation at Jeerat (New)
(Award placed on 29.09.2017 to M/s BHEL)

Land acquired	:	100 %
Civil work completed	:	100 %
Equipment supplied	:	100 %
Equipment erection	:	99 %
Scheduled COD	:	July'2020/ Dec'2020*
Anticipated COD	:	Oct'2021

As per transmission service agreement dated 17.11.2016, Jeerat substation is commissioned w.e.f. 29.09.2021. However, bays related to the Jeerat -Subhashgram line shall be commissioned with the completion of line.

9. Extension of 400 kV Substation at Jeerat (WBSETCL)
(Work being executed by WBSETCL.)

Commissioned wef 29.09.21

2. 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 1st meeting of Western Region Standing Committee on Transmission (WRSCT) held on 5.9.2018. Further in the 2nd WRSCT meeting held on 21.05.2019, 1×240 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 38th 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 2×1500 MVA (765/400kV), 4×500 MVA (400/220kV) Bhuj-II PS (GIS) with 765kV (1×330 MVAR) and 420kV (1×125 MVAR) bus reactor

   (2×1500MVA (765/400kV), 4×500MVA (400/220kV)), 1×500 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.; 1×330 MVAr, 765 kV; 1×125 MVAr, 420 kV; 765 kV reactor Bays -1 no.; 400 kV reactor Bays -1 no.; 1×110 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. 1×240MVAr switchable Line reactor for each circuit at Bhuj-II PS end of Bhuj-II- lakadia 765 kV D/c line (2×240 MVAR, 765 kV with 400-ohm NGR; 765 kV Reactor Bays-2 no.; 1×80 MVAR, 765 kV, 1ph switchable line Reactor (spare unit) at Bhuj-II end).

General Details

Special Purpose Vehicle (SPV) **(Formerly as Bhuj-II Transmission Ltd)**	:	**POWERGRID BHUJ TRANSMISSION LIMITED**
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 24th Jul'20) published in Gazette of India on 21th 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/ May'2021*/Aug'21**

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 Transrail Lighting limited

- Length: 106 km
- Locations: 284 nos.
- Foundation completed: 237 nos.
- Towers erected : 228 nos.
- Stringing completed: 47.26 km
- Scheduled COD Dec'20/ May'21*/Aug'21**
- Anticipated COD Mar '22

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 propsoal 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 (On hold because of pending survey due to RoW by Villagers).

Constraints being faced during execution:

1. Work has been affected due to COVID-19 pandemic.
2. For finalization of land compensation rate for affected locations/ RoW, Joint hearing by local administration with Villagers & PBTL/PGCIL held and office order issued by local administration in this regard on 17th Jan'21. Severe RoW in 16km/45loc. was being encountered in village Jadodrakotda, taluka-Nakhatranaof Kutch district in Gujarat and with the help of local admin. & Police Support Survey work was resumed in Dec'21 and completed in Dec'21.

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. (Submission of 02 nos propsoal is pending because of pending surevy towards Bhuj-II Substation end).
Approval obtained : 12 nos. obtained till Jan'21.

2. PTCC approval : Proposal submitted.

3. Severe ROW being faced. Support of local administration is required.

Action taken:

1. Several DO letters by JS(Trans), Member (PS), Secretary (P) were sent to Govt. of Gujarat.(within a span of 8 months)
2. A DO letter dated 22/7/2021 was sent to Govt. Gujarat by Hon'ble Minister of Power.

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 :Major civil works are completed.Control room building & FFPH etc. are in progress.
Equipment supplied :GIS and other On Shore supplies are in progress.
Equipment erection : Erection works of GIS Hall 765kV,400 kV & 220kV and Towers are completed and Balance Eqp erection are in progress..

Scheduled COD : Dec'20/ May'21*/Aug'21**

Anticipated COD : March'22

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

Constraints being faced during execution:

1. Work has been affected due to COVID-19 pandemic.
2. 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.
3. Supply of 765 kV, 400 kV & 220 kV GIS is also affecting because of procurement of GIS component from NHVS, China and partially from Indian Vendors under Make in India.

3. Transmission system associated with LTA applications from Rajasthan SEZ Part-A, Phase-II

Background

Government of India has set a target for establishing 175 GW renewable capacity by 2022, which includes 100 GW from Solar and 60 GW from Wind. This includes solar generaton potential of about 20 GW in Rajasthan. Transmission system for evacuation of 8.9 GW under phase-I has already been taken up for implementation. Transmission system strengthening scheme for evacuation of power from solar energy zones in Rajasthan (11.1 GW – 3 GW through intra state) under Phase II, inter-alia includes evacuation of 1.05GW in Bhadla complex, 2.2GW in Fatehgarh complex, 1.9GW in Ramgarh and 2.95 GW in Bikaner.

For integration and evacuation of power from generation projects in the above areas, a high capacity 765kV and 400kV transmission system interconnecting Bhadla-II, Fatehgarh-II, Sikar &Khetri along with establishment of 765/400kV new substation at Sikar-II &Narela and 400/220kV new substation at Bikaner-II & Ramgarh-II have been planned.

The subject transmission scheme involves establishment of 400/220kV Ramgarh-II S/s & implementation of Ramgarh-II PS – Fatehgarh- II PS 400kV D/c & Ramgarh –II PS– Jaisalmer-II (RVPN) 400kV D/c lines which shall facilitate in transfer of power from RE sources in Ramgarh complex for onward dispersal of power to various beneficiaries.

Scope of Transmission Project-

Transmission Line

Ramgarh II – Fatehgarh II 400kV D/C line (Twin HTLS)

Ramgarh II – Jaisalmer-II (RVPNL) 400kV D/C line (Twin HTLS)

Substation

Establishment of 400/220kV , 4X 500 MVA substation at Ramgarh –II (Fatehgarh –III) with 2x 125 MVAr Bus reactors

02 No 400kV line bays at Fatehgarh II & Jaisalmer-II

General Details

Special Purpose Vehicle (SPV)	:	Ramgarh New Transmission Limited
Bid Process Coordinator (BPC)	:	REC Ltd.
Estimated Cost	:	₹ 353.85 Cr.
Levellised Tariff	:	₹ 39.053 Cr.
Request for Proposal	:	11.05.20
Letter of Intent	:	29.01.21
Transmission Service Agreement (TSA)	:	11.11.20
SPV acquisition	:	09.03.21
Transmission License by CERC	:	Applied on 15.03.21.
Tariff adoption by CERC	:	Applied on 15.03.21.
Clearance u/s 164	:	22.12.21

Execution plan submitted to CEA	:	To be submitted.
NIT issued on	:	NIT for all Pkges issued.
EPC awarded on	:	NOAs issued
Scheduled Date of Completion	:	Sep'22/Dec'22**

Status of progress of transmission project:-

1. **Ramgarh II – Fatehgarh II 400kV D/C line (Twin HTLS)**

Award placed to M/s KPTL

Length:	44 km
Locations:	114nos.
Foundation completed	80 nos.
Towers erected	31 Nos
Stringing completed	-
Scheduled COD	Sep'22/Dec'22**
Anticipated COD	Dec'22

Status of statutory approvals:

River Crossings

Total no. of crossings	:	NIL	nos.

Power line crossing

Total no. of crossings	:	10	nos.
Proposal submitted	:	07	nos.
Approval obtained	:	05	nos.

Railway crossing

Total no. of crossings	:	NIL

National Highway Crossing

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

Forest:

Division Name: Jaisalmer (0.1794 Ha)
Forest type: PF (NH-1)
Online Proposal submission: 28.04.21
Accepted by Nodal: 09.06.21
Hardcopy submitted to DFO/DM on: 16.06.21
Receipts uploaded in PARIVESH on: 16.06.21
Marked to DFO on: 17.06.21
Forwarded to CCF: 13.09.21
Forwarded to NO: 06.10.21. Forwarded to Sec (Forest), Govt. of Raj 19.10.21
Stage-I accorded from O/o Sec (Forest), Govt. of Raj on 18.11.2021

PTCC approval : Proposal submitted , under approval.

Defence Aviation	:	Proposal submitted , under approval.
Civil Aviation	:	NOC Received

2. **Ramgarh II – Jaisalmer-II (RVPNL) 400kV D/C line (Twin HTLS)**

Award placed to M/s KPTL

Length:	50 km
Locations:	128 nos.
Foundation completed	80nos.
Towers erected	46 No
Stringing completed	-
Scheduled COD	Sep'22/Dec'22**
Anticipated COD	Dec'22

Status of statutory approvals:

River Crossings

Total no. of crossings	:	NIL	nos.

Power line crossing

Total no. of crossings	:	06	nos.
Proposal submitted	:	04	nos.
Approval obtained	:	04	nos.

Railway crossing

Total no. of crossings	:	NIL

National Highway Crossing

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

Forest:

Division Name: Jaisalmer (0.092 Ha)
Forest type: PF (NH-1)
Online Proposal submition: 29.04.21
Accepted by Nodal: 14.06.21
Hardcopy submitted to DFO/DM on: 16.06.21
Receipts uploaded in PARIVESH on: 16.06.21
Marked to DFO on: 17.06.21
Forwarded to CCF: 13.09.21
Forwarded to NO: 06.10.21. Forwarded to Sec (Forest), Govt. of Raj on 19.10.21
Stage-I accorded from O/o Sec (Forest), Govt. of Raj on 18.11.2021

PTCC approval	:	Proposal submitted , under approval.
Defence Aviation	:	Proposal submitted , under approval.
Civil Aviation	:	NOC Received

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.

3. Status of progress of Substation and Bay Extensions:-

1. 400/220kV New Ramgarh II Substation (Fatehgarh -III)

Land Acquisition	:	Land case approved by Cabinet. Payment deposited. Being pursued with Dist. administration for possession.
Civil work completed	:	Yet to Start
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD		Dec'22

2. Extension of 400 Fatehgarh-II Substation

Land Acquisition	:	Available
Civil work completed	:	25 %
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD		Sep'22

3. **Extension of 400kV Jaisalmer II Substation**

Land Acquisition	:	Available
Civil work completed	:	5%
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD		Dec''22

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.
2. Complete project lies in GIB Potential area.

4. Transmission system associated with LTA applications from Rajasthan SEZ Part-F, Phase-II

SPV Name: Bikaner-II Bhiwadi Transco Limited

Background

Government of India has set a target for establishing 175 GW renewable capacity by 2022, which includes 100 GW from Solar and 60 GW from Wind. This includes solar generaton potential of about 20 GW in Rajasthan. Transmission system for evacuation of 8.9 GW under phase-I has already been taken up for implementation. Transmission system strengthening scheme for evacuation of power from solar energy zones in Rajasthan (11.1 GW – 3 GW through intra state) under Phase II, inter-alia includes evacuation of 1.05GW in Bhadla complex, 2.2GW in Fatehgarh complex, 1.9GW in Ramgarh and 2.95 GW in Bikaner.

For integration and evacuation of power from generation projects in the above areas, a high capacity 765kV and 400kV transmission system interconnecting Bhadla-II, Fatehgarh-II, Sikar &Khetri along with establishment of 765/400kV new substation at Sikar-II &Narela and 400/220kV new substation at Bikaner-II & Ramgarh-II have been planned.

The subject transmission scheme involves establishment of 400/220kV Bikaner-II S/s & implementation of Bikaner-II – Khetri 400kV D/c &Khetri - Bhiwadi 400kV D/c lines.

Scope of Transmission Project-

Transmission Line

Bikaner II- Khetri 400kV D/C line (Twin HTLS)

Khetri - Bhiwadi 400kV D/C line (Twin HTLS)

Substation

Establishment of 400/220kV Bikaner II Pooling Station with ± 300 MVAR, 2x125 MVAR MSC, 1x125 MVAR MSR & 2x125MVAR,420kV Bus Reactor , 4x80MVAR,420kV Line Reactors.
Construction of 4 nos. of 400kV line bays at Khetri for Bikaner II – Khetri 400kV 2xD/c line & Construction of 2 nos. of 400kV line bays at Khetri for Khetri - Bhiwadi 400kV D/c line alongwith 4x80MVAR,420kV Line Reactors
Construction of 2 nos. of 400 kV (GIS) line bays at Bhiwadi for Khetri- Bhiwadi 400kV D/c line

General Details

Special Purpose Vehicle (SPV)	:	Bikaner-II Bhiwadi Transco Limited
Bid Process Coordinator (BPC)	:	PFC Consulting Ltd.
Estimated Cost	:	₹ 1340.81 Cr.
Levellised Tariff	:	₹ 140.486Cr.
Request for Proposal	:	06.03.20
Letter of Intent	:	16.02.21
Transmission Service Agreement (TSA)	:	16.10.20
SPV acquisition	:	25.03.21

Transmission License by CERC	:	Applied on 5.04.21.
Tariff adoption by CERC	:	Applied on 5.04.21
Clearance u/s 164	:	Village list Published in Newspaper on 26. 06.2021 .Gazette Notification done on 21.08.2021
Execution plan submitted to CEA	:	To be submitted.
NIT issued on	:	NIT for all Pkges issued.
EPC awarded on	:	NOAs issued
Scheduled Date of Completion	:	Sep'22/Dec'22**

Status of progress of transmission project:-

1. **Bikaner II- Khetri 400kV D/C line (Twin HTLS)**

Award placed to M/s KEC &KPTL

Length:	272 km
Locations:	703nos.
Foundation completed	425 nos.
Towers erected	209 nos.
Stringing completed	-
Scheduled COD	Sep'22/Dec'22**
Anticipated COD	Dec'22

Status of statutory approvals:

River Crossings

Total no. of crossings	:	NIL	nos.

Power line crossing

Total no. of crossings	:	25	nos.
Proposal submitted	:	23	nos.
Approval obtained	:	16	nos.

Railway crossing

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

National Highway Crossing

Total no. of crossings	:	3	nos.
Proposal submitted	:	3	nos.
Approval obtained	:	0	nos.

Forest:

Division Name: Bikaner (1.7860 Ha)
Forest type: PF (NH-1, Canal-3)
Online Proposal submission: 07.06.21
Accepted by Nodal: 28.07.21
Hard Copy submitted to DFO/DM on: 10.08.21
Receipts uploaded in PARIVESH on: 10.08.21
Marked to DFO on: 11.08.21
Query by DFO on 15.09.21 to revise area as per layby & same submitted to DFO on 18.10.2021.
Site visit done by DFO on 22.11.2021.

Division Name: Jhunjhunu, Sikar, Churu (1.38 Ha)
Forest type: UF
Online Proposal submission: 11.06.21
Accepted by Nodal: 03.08.21
Hard Copy submitted to DFO/DM on: 18.08.21
Receipts uploaded in PARIVESH on: 19.08.21
Marked to DFO Churu, Sikar, Jhunjhunu: 19.08.21
DFO, Sikar sought additional information (Toposheet & Polygon shape correction) on 15.09.2021.
Same submitted to DFO on 18.10.2021.
DFO, Jhunjhunu sought additional information from Power Grid on 20.10.2021.
Reply to concern DFO are under preparation.

PTCC approval	:	Under Preparation.
Defence Aviation	:	Proposal Submitted.
Civil Aviation	:	Proposal Submitted.

2. Khetri - Bhiwadi 400kV D/C line (Twin HTLS)

Award placed to M/s TLL

Length:	124km
Locations:	325nos.
Foundation completed	175 nos.
Towers erected	74 nos.
Stringing completed	-
Scheduled COD	Sep'22/Dec'22**
Anticipated COD	Dec'22

Status of statutory approvals:

River Crossings

Total no. of crossings	:	NIL	nos.

Power line crossing

Total no. of crossings	:	26	nos.
Proposal submitted	:	20	nos.
Approval obtained	:	00	nos.

Railway crossing

Total no. of crossings	:	04	nos.
Proposal submitted	:	00	nos.
Approval obtained	:	00	nos.

National Highway Crossing

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

Forest:
Proposal under preparation

PTCC approval	:	Under Preparation.
Defence Aviation	:	Under Preparation.
Civil Aviation	:	Under Preparation.

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.

Status of progress of Substation and Bay Extensions:-

1. 400/220kV New Bikaner II Substation

Land Acquisition	:	Allotment letter for land issued. Demand note received. Payment deposited. Being pursued for possession
Civil work completed	:	to Start
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD		Dec'22

2. Extension of 400kV Khetri Substation

Land Acquisition	:	Available
Civil work completed	:	50 %
Equipment supplied	:	40 %
Equipment erection	:	05 %
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD		Dec'22

3. Extension of 400kV Bhiwadi Substation

Land Acquisition	:	Available
Civil work completed	:	50%
Equipment supplied	:	25%
Equipment erection	:	05%
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD		Sep'22

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.

5. Transmission system associated with LTA applications from Rajasthan SEZ Part-B, Phase-II

Background

Government of India has set a target for establishing 175 GW renewable capacity by 2022, which includes 100 GW from Solar and 60 GW from Wind. This includes solar generaton potential of about 20 GW in Rajasthan. Transmission system for evacuation of 8.9 GW under phase-I has already been taken up for implementation. Transmission system strengthening scheme for evacuation of power from solar energy zones in Rajasthan (11.1 GW – 3 GW through intra state) under Phase II, inter-alia includes evacuation of 1.05GW in Bhadla complex, 2.2GW in Fatehgarh complex, 1.9GW in Ramgarh and 2.95 GW in Bikaner.

For integration and evacuation of power from generation projects in the above areas, a high capacity 765kV and 400kV transmission system interconnecting Bhadla-II, Fatehgarh-II, Sikar &Khetri along with establishment of 765/400kV new substation at Sikar-II &Narela and 400/220kV new substation at Bikaner-II & Ramgarh-II have been planned.

The subject transmission scheme involves establishment of 400/220kV Bikaner-II S/s & implementation of Bikaner-II – Khetri 400kV D/c &Khetri - Bhiwadi 400kV D/c lines.

Scope of Transmission Project-

Transmission Line

- Fatehgarh II – Bhadla II 765kV D/C line (2nd)

Substation

- Construction of 02 nos. of 765 kV line bays at Fatehgarh II for Fatehgarh II – Bhadla II 765kV D/c line along with 2 x 240 MVAR switchable line reactors.
- Construction of 02 nos. of 765 kV line bays at Bhadla II for Fatehgarh II – Bhadla II 765kV D/c line along with 2 x 240 MVAR switchable line reactors.

General Details

Special Purpose Vehicle (SPV)	:	Fatehgarh Bhadla Transco Limited
Bid Process Coordinator (BPC)	:	REC Transmission Projects Company Ltd..
Estimated Cost	:	₹ 713.82 Cr.
Levellised Tariff	:	₹ 72.893 Cr.
Request for Proposal	:	05.03.20
Letter of Intent	:	29.01.21
Transmission Service Agreement (TSA)	:	11.11.20
SPV acquisition	:	04.06.21
Transmission License by CERC	:	Applied on 16.06.21.
Tariff adoption by CERC	:	Applied on 16.06.21
Clearance u/s 164	:	To be applied.
Execution plan submitted to CEA	:	To be submitted.
NIT issued on	:	NIT for all Pkges issued.
EPC awarded on	:	NOAs issued

Scheduled Date of Completion : Dec'22

Status of progress of transmission project:-

Fatehgarh II – Bhadla II 765kV D/C line (Twin HTLS)
Award placed to M/s L&T and M/s KEC

- Length: 190.14km
- Locations: 492 nos.
- Foundation completed 258 nos.
- Towers erected 171 Nos
- Stringing completed -
- Scheduled COD Dec'22
- Anticipated COD Dec'22

Status of statutory approvals:

River Crossings

Total no. of crossings	:	NIL	nos.

Power line crossing

Total no. of crossings	:	21	nos.
Proposal submitted	:	20	nos.
Approval obtained	:	14	nos.

Railway crossing

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

National Highway Crossing

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

Forest:
Division Name: Jaisalmer & Jodhpur (0.2216)
Forest type: PF (NH-1, Jaisalmer)
Online Proposal submission: 26.04.21
Accepted by Nodal: 09.06.21
Hard Copy submitted to DFO/DM on: 17.06.21
Receipts uploaded in PARIVESH on: 17.06.21
Marked to DFO on: 17.06.21
Forwarded to CCF: 12.08.21 (Jodh), 17.09.21(Jaisl)
Forwarded by CCF, Jodhpur on 28.10.2021 to NO, Jaipur.
Forwarded by CCF, Jaisalmer on 09.11.2021 to NO, Jaipur

PTCC approval : Proposal submitted , under approval.

Defence Aviation	:	Proposal submitted , under approval.
Civil Aviation	:	Proposal submitted , under approval.

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.
2. Transmission License and Regulatory approval not given by CERC pending clearance of lines from committee formed by Supreme Court on GIB issue.

Status of progress of Substation and Bay Extensions:-

1. **Extension of 765kV Fatehgarh II Substation**

Land Acquisition	:	Available.
Civil work completed	:	8%
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Dec'22
Anticipated COD		Dec'22

2. **Extension of 765kV Bhadla II Substation**

Land Acquisition	:	Available
Civil work completed	:	8%
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Dec'22**
Anticipated COD		Dec'22

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.
2. Transmission License and Regulatory approval not given by CERC pending clearance of lines from committee formed by Supreme Court on GIB issue

6. Transmission system associated with LTA applications from Rajasthan SEZ Part-C, Phase-II

SPV Name: Sikar New Transmission Limited

Background

Government of India has set a target for establishing 175 GW renewable capacity by 2022, which includes 100 GW from Solar and 60 GW from Wind. This includes solar generaton potential of about 20 GW in Rajasthan. Transmission system for evacuation of 8.9 GW under phase-I has already been taken up for implementation. Transmission system strengthening scheme for evacuation of power from solar energy zones in Rajasthan (11.1 GW – 3 GW through intra state) under Phase II, inter-alia includes evacuation of 1.05GW in Bhadla complex, 2.2GW in Fatehgarh complex, 1.9GW in Ramgarh and 2.95 GW in Bikaner.

For integration and evacuation of power from generation projects in the above areas, a high capacity 765kV and 400kV transmission system interconnecting Bhadla-II, Fatehgarh-II, Sikar &Khetri along with establishment of 765/400kV new substation at Sikar-II &Narela and 400/220kV new substation at Bikaner-II & Ramgarh-II have been planned.

The subject transmission scheme involves establishment of 400/220kV Bikaner-II S/s & implementation of Bikaner-II – Khetri 400kV D/c &Khetri - Bhiwadi 400kV D/c lines.

Scope of Transmission Project-

Transmission Line

- Bhadla II – Sikar II 765kV D/C line
- Sikar II – Neemrana 400kV D/C (Twin HTLS)

Substation

- Establishment of 765/400kV Sikar II Substation with 2x 1500 MVA 765/400kV ICTS, 2x 330 MVAr, 765kV Bus Reactors and 1x 125 MVAr, 400kV Bus Reactor and 2x 330MVAr Switchebal line reactors for Bhadla II – Sikar II transmission Line.
- Construction od 02 No 765kV bays at Bhadla II for Bhadla II – Sikar II 765kV D/C Line along with 2/240MVAr switchable line reactors.
- Constrcuction of 02 No 400kV bays at Neemrana for Sikar II – Neemrana 400kV D/C line.

General Details

Special Purpose Vehicle (SPV)	:	Sikar New Transmission Limited
Bid Process Coordinator (BPC)	:	REC Transmission Projects Company Ltd.
Estimated Cost	:	₹ 1562 Cr.
Levellised Tariff	:	₹ 163.705 Cr.
Request for Proposal	:	05.03.20
Letter of Intent	:	01.02.21
Transmission Service Agreement (TSA)	:	14.12.20
SPV acquisition	:	04.06.21
Transmission License by CERC	:	Applied on 16.06.21.
Tariff adoption by CERC	:	Applied on 16.06.21

Clearance u/s 164	:	Village list Published in Newspaper on 07.07.2021. Gazette Notification done on 14.08.2021.
Execution plan submitted to CEA	:	To be submitted.
NIT issued on	:	NIT for all Pkges issued.
EPC awarded on	:	NOAs issued
Scheduled Date of Completion	:	Dec'22

Status of progress of transmission project:-

1. **Bhadla II – Sikar II 765kV D/C line**

Award placed to M/s KEC

- Length: 306 km
- Locations: 764 nos.
- Foundation completed 316 nos.
- Towers erected 194 No
- Stringing completed -
- Scheduled COD Dec'22
- Anticipated COD Dec'22

Status of statutory approvals:

River Crossings

Total no. of crossings	:	NIL	nos.

Power line crossing

Total no. of crossings	:	17	nos.
Proposal submitted	:	15	nos.
Approval obtained	:	06	nos.

Railway crossing

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

National Highway Crossing

Total no. of crossings	:	04	nos.
Proposal submitted	:	04	nos.
Approval obtained	:	00	nos.

Forest:

Division Name: Jodhpur, Nagour, Sikar (0.6231 Ha)
Forest type: PF (SH-3, one in each)
Online Proposal submission: 01.06.21
Accepted by Nodal: 21.06.21
Hard Copy submitted to DFO/DM on: 08.07.21
Receipts uploaded in PARIVESH on: 08.07.21
Marked to DFO Jodhpur, Nagaur, Sikar: 08.07.21

PTCC approval	:	Proposal under preparation.
Defence Aviation	:	Proposal under preparation.
Civil Aviation	:	Proposal under preparation.

2. **Sikar II - Neemarana 400kV D/C line (Twin HTLS)**

Award placed to M/s KEC

- Length: 137 km
- Locations: 350 nos.
- Foundation completed 127 Nos
- Towers erected 80 nos.
- Stringing completed -
- Scheduled COD Dec'22
- Anticipated COD Dec'22

Status of statutory approvals:

River Crossings

Total no. of crossings	:	NIL	nos.

Power line crossing

Total no. of crossings	:	15	nos.
Proposal submitted	:	03	nos.
Approval obtained	:	00	nos.

Railway crossing

Total no. of crossings	:	01	nos.
Proposal submitted	:	01	nos.
Approval obtained	:	00	nos.

National Highway Crossing

Total no. of crossings	:	03	nos.
Proposal submitted	:	02	nos.
Approval obtained	:	00	nos.

Forest:

Division Name: Sikar, Jhunjhunu, Jaipur(N), Alwar (12.2636 Ha)
Forest type: PF (Sikar & Alwar)
Online Proposal submission: 29.06.21
Accepted by Nodal: 03.08.21
Hard Copy submitted to DFO/DM: 18.08.21
Receipts uploaded in PARIVESH on: 19.08.21
Marked to DFOs: 24.08.21

Division Name: Mahendragarh (NH-1, Canal-1) (0.2254 Ha)
Forest type: PF
Online Proposal submission: 08.08.21
Accepted by Nodal:20.08.21

Hard Copy submitted to DFO/DM: 26.08.21
Receipts uploaded in PARIVESH on: 27.08.21
Marked to DFO: 01.09.21

PTCC approval	:	Proposal under preparation.
Defence Aviation	:	Proposal under preparation.
Civil Aviation	:	Proposal under preparation.

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.
2. Transmission License and Regulatory approval not given by CERC pending clearance of lines from committee formed by Supreme Court on GIB issue

Status of progress of Substation and Bay Extensions:-

1. 765/400kV Sikar II New Substation

Land Acquisition	:	Land being purchased through open tender..
Civil work completed	:	to Start
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Dec'22**
Anticipated COD		Dec'22

2. Extension of 765kV Bhadla II Substation

Land Acquisition	:	Available
Civil work completed	:	35%
Equipment supplied	:	40 %
Equipment erection	:	
Scheduled COD	:	Dec'22**
Anticipated COD		Dec'22

3. Extension of 400kV Neemrana Substation

Land Acquisition	:	Available
Civil work completed	:	10%
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Dec'22**
Anticipated COD		Dec'22

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.
2. Transmission License and Regulatory approval not given by CERC pending clearance of lines from committee formed by Supreme Court on GIB issue

7. Transmission system associated with LTA applications from Rajasthan SEZ Part-D, Phase-II

SPV Name: Sikar II – Aligarh Transmission Limited

Background

Government of India has set a target for establishing 175 GW renewable capacity by 2022, which includes 100 GW from Solar and 60 GW from Wind. This includes solar generaton potential of about 20 GW in Rajasthan. Transmission system for evacuation of 8.9 GW under phase-I has already been taken up for implementation. Transmission system strengthening scheme for evacuation of power from solar energy zones in Rajasthan (11.1 GW – 3 GW through intra state) under Phase II, inter-alia includes evacuation of 1.05GW in Bhadla complex, 2.2GW in Fatehgarh complex, 1.9GW in Ramgarh and 2.95 GW in Bikaner.

For integration and evacuation of power from generation projects in the above areas, a high capacity 765kV and 400kV transmission system interconnecting Bhadla-II, Fatehgarh-II, Sikar &Khetri along with establishment of 765/400kV new substation at Sikar-II &Narela and 400/220kV new substation at Bikaner-II & Ramgarh-II have been planned.

The subject transmission scheme involves establishment of 400/220kV Bikaner-II S/s & implementation of Bikaner-II – Khetri 400kV D/c &Khetri - Bhiwadi 400kV D/c lines.

Scope of Transmission Project-

Transmission Line

Sikar II- Aligarh 765kV D/C line

Substation

- Construction od 02 No 765kV bays at Sikar II for Sikar II- Aligarh 765kV D/C Line along with 2x330 MVAr switchable line reactors.
- Construction od 02 No 765kV bays at Aligarh for Sikar II- Aligarh 765kV D/C Line along with 2x330 MVAr switchable line reactors

General Details

Special Purpose Vehicle (SPV)	:	Sikar II – Aligarh Transmission Limited
Bid Process Coordinator (BPC)	:	PFC Consulting Ltd.
Estimated Cost	:	₹ 1006 Cr.
Levellised Tariff	:	₹ 99.701Cr.
Request for Proposal	:	06.03.20
Letter of Intent	:	16.02.21
Transmission Service Agreement (TSA)	:	02.11.20
SPV acquisition	:	08.06.21
Transmission License by CERC	:	Applied on 16.06.21
Tariff adoption by CERC	:	Applied on 16.06.21
Clearance u/s 164	:	To be applied.
Execution plan submitted to CEA	:	To be submitted.
NIT issued on	:	NIT for all Pkges issued.
EPC awarded on	:	NOAs issued
Scheduled Date of Completion	:	Dec’22

Status of progress of transmission project:-

1. **Sikar II – Aligarh 765kV D/C line**

Award placed to M/s KPTL

- Length: 254 km
- Locations: 664 nos.
- Foundation completed 515 nos.
- Towers erected 337 nos
- Stringing completed 28 ckm
- Scheduled COD Dec'22
- Anticipated COD Dec'22

Status of statutory approvals:

River Crossings

Total no. of crossings	:	NIL	nos.

Power line crossing

Total no. of crossings	:	37	nos.
Proposal submitted	:	35	nos.
Approval obtained	:	31	nos.

Railway crossing

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

National Highway Crossing

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

Forest:

Division Name: Sikar, Jaipur (N), Alwar (15.6043 Ha)
Forest type: PF (NH-1)
Online Proposal submission: 26.07.21
Accepted by Nodal: 18.08.21
Hard Copy submitted to DFO/DM on: 03.09.21
Receipts uploaded in PARIVESH on: 03.09.21
Marked to DFOs: 03.09.21

Division Name: Mewat, Palwal (17.1721 Ha)
Forest type: PF (road-6, canal-5, others)
Online Proposal submission: 19.08.21
Accepted by Nodal: 23.08.21
Hard Copy submitted to DFO/DM on: 03.09.21

Receipts uploaded in PARIVESH on: 07.09.21
Marked to DFOs: 10.09.21

Division Name: Mathura, Aligarh (1.3668 Ha)
Forest type: PF (road-1, canal-12)
Online Proposal submission: 25.08.21

PTCC approval	:	Proposal under preparation.
Defence Aviation	:	Proposal under preparation.
Civil Aviation	:	Proposal under preparation.

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.
2. Transmission License and Regulatory approval not given by CERC pending clearance of lines from committee formed by Supreme Court on GIB issue

Status of progress of Substation and Bay Extensions:-

1. Extension of 765kV Sikar II Substation

Land Acquisition	:	Land being purchased through open tender.
Civil work completed	:	
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Dec'22
Anticipated COD		Dec'22

2. Extension of 765kV Aligarh Substation

Land Acquisition	:	Available
Civil work completed	:	15%
Equipment supplied	:	10%
Equipment erection	:	
Scheduled COD	:	Dec'22**
Anticipated COD		Dec'22

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.
2. Transmission License and Regulatory approval not given by CERC pending clearance of lines from committee formed by Supreme Court on GIB issue

*As per Ministry of Power, Govt. of India circular no. 3/1/2020-Trans dated 27th July, 2020, all inter-state projects whose SCOD is beyond 25th March, 2020 and which were under construction on 25th March, 2020, have been given an extension of 5 months in respect of SCOD.

**As per Ministry of Power, Govt. of India circular no. 3/1/2020-Trans dated 12th June, 2021, all inter-state transmission projects which are under construction with SCOD coming after 01 April, 2021 shall get an extension of 3 months in respect of their SCOD.

8. 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 - Mapusa400kV 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/Jul'22*

*The Ministry of Power, GOI has granted extension of 5 months (for First wave of Covid-19) vide order nos 3/1/2020-Trans dated 27th July, 2020 and further 3 months extension (for Second wave of Covid-19) on 12 June, 2021 from Scheduled Commercial Operation Date (SCOD) for inter-state transmission projects i.e. total extension of 8 months from SCOD.

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: Nov'21/Jul'22*
Anticipated COD: Dec'22

Constraints/Approval if any:

1. Delay in grant of Forest clearance for Diversion of 177.091 Ha of forest land. The Proposal has been forwarded by Nodal Officer to Govt of Karnataka and now the State Govt has to recommend it to MoEFCC, New Delhi for issuance of Stage-I clearance. State Govt had returned the proposal to nodal officer seeking the details that whether the user agency is utilizing the corridor of existing 110kV line or not at possible extent. Proposal submitted on 19-Dec-2018 and the delay is almost of 810 days.
2. Delay in grant of Wildlife clearance for Diversion of 33.273 Ha of wildlife area. The Proposal is pending with Govt of Karnataka and has to be approved by SBWL, Karnataka. State Govt had returned the proposal to nodal officer seeking the details that whether the user agency is utilizing the corridor of existing 110kV line or not at possible extent. Proposal submitted on 18-Jan-2019 and the delay is almost of 760 days.
3. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19
4. 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. Central Empowered Committee (CEC) has submitted their report to Supreme Court on 23rd April 2021 and has recommended some modifications in LILO of one ckt of Narendra (existing) – Narendra (new) 400kV D/C line at Xeldem (XN line). Decision of Supreme Court is awaited
5. Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19 Second wave and prohibition of supply of oxygen for industrial purposes

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.
4. MOP letter to Additional Chief Secretary (FEE), Govt of Karnataka bearing Ref No. D.O. NO. 6/4/2017-Trans dated 13-01-2021
5. Meeting held on 31st March 2021 under the chairmanship of Secretary (Power) to review under construction ISTS projects.
6. A meeting was held on 15th March 2021 under the chairmanship of Chief Secretary, Government of Karnataka to review the pending issues on Central PMG portal.
7. A meeting was held on 8th April 2021 under the chairmanship of Additional Chief Secretary, Energy Department - Govt of Karnataka
8. A meeting was held on 15th June 2021 under the chairmanship of Secretary, MOP to review the under-construction Transmission Projects

9. A meeting was held on 28th June 2021 under the chairmanship of Member (PS), CEA to review the under-construction Transmission Projects

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 – NBWL approved the diversion and tree cutting permission is under process.Karnataka – Proposal is under process at State Govt level for consideration in upcoming SBWL meeting.

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	:	4nos.

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:	149 nos.
Foundation completed:	57 nos
Tower erected:	32 nos
Stringing completed:	0 ckm
Scheduled COD:	May'21 /Jan22*
Anticipated COD:	Apr'22

Constraints/Approval if any:

1. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19
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. Central Empowered Committee (CEC) has submitted their report to Supreme Court on 23rd April 2021 and have cleared 400kV D/C Xeldem – Mapusa Line.
3. Working (Tree cutting) permission received on 13th July 2021.
4. Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19 Second wave and prohibition of supply of oxygen for industrial purposes.

Details of Followup actions:

1. CEA letter to Principal Chief Conservator of Forest, Goa bearing Ref No. CEA/PS/PSPM/1/57/41/2018/1539-41 dated 12-10-2018
2. Meeting held on 31st March 2021 under the chairmanship of Secretary (Power) to review under construction ISTS projects.
3. CEA has written to PCCF, Govt of Goa for expediting of working permission on 09-06-2021.
4. Office of PCCF, Goa written to CEA on 10-06-2021 to certify that the project area in which tree felling is proposed is not dependent on the part of project for which realignment is proposed by Central Empowered Committee (CEC) and tree felling is essential at this stage for implementation of other parts of this project.
5. A meeting was held on 15th June 2021 under the chairmanship of Secretary, MOP to review the under-construction Transmission Projects.
6. CEA vide their letter dated 21-06-2021 clarified the queries raised by PCCF, Govt of Goa.
7. A meeting was held on 28th June 2021 under the chairmanship of Member (PS), CEA to review the under-construction Transmission Projects
8. A meeting was held on 06th July 2021 under the chairmanship of Additional Secretary (Trans), MOP to discuss issues faced in the State of 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, working permission and Stage-2 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:	179nos.
Foundation completed:	150 nos.
Tower erected:	126 nos

Stringing completed: 8 ckm
Scheduled COD: July '21 /Mar '22*
Anticipated COD: Mar'22

Constraints/Approval if any:

1. Delay in grant of forest clearance for Diversion of 137.014 Ha of Forest land. Forest proposal has been forwarded by Govt of Chhattisgarh to Regional MoEFCC and the same was discussed in the REC Meeting held on 24-03-2021 and Stage-I clearance has been issued. Tree cutting permission is awaited.Proposal submitted on 10-Aug-2018. Demand note received from Forest dept on 18th June 2021 and the payment has been made by M/s GTTPL on 23rd June 2021. Working permission received on 24 Aug 2021.

2. Support required in obtaining Private Tree felling Permission of 4 pending villages along with ROW resolution in District Raigarh and Korba, Chhattisgarh

3. Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19 Second wave and prohibition of supply of oxygen for industrial purposes

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
5. CEA letter to Deputy Director General of Forests (C), MoEF – Nagpur bearing Ref No. CEA-PS-13-22(13)/1/2018 -PSPM dated 03-02-2021
6. Meeting held on 31st March 2021 under the chairmanship of Secretary (Power) to review under construction ISTS projects
7. A meeting was held on 15th June 2021 under the chairmanship of Secretary, MOP to review the under-construction Transmission Projects.
8. A meeting was held on 28th June 2021 under the chairmanship of Member (PS), CEA to review the under-construction Transmission Projects.
9. CEA Letter dated 10th Aug 2021 to District Collector & Magistrate - Korba and Raigarh for obtaining Private Tree felling Permission and support in ROW resolution.

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	:	Proposal was discussed in the REC Meeting held on 24-03-2021 and Stage-I clearance received. and working permission 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 : 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 : 1 nos.

Proposal submitted : 1 nos.

Approval obtained : nos., In-principle NOC received.

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: 1 nos.

   Tower erected: 0 nos

   Stringing completed: 0 ckm

   Scheduled COD: May'21 /Jan'22*

   Anticipated COD: Apr'22

Constraints/Approval if any:

1. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19

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. Central Empowered Committee (CEC) has submitted their report to Supreme Court on 23rd April 2021 and have cleared 220kV D/C Xeldem – Xeldem Line
3. Working permission received on 19 Aug 2021.
4. Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19 Second wave and prohibition of supply of oxygen for industrial purposes

Details of Followup actions:

1. CEA letter to Principal Chief Conservator of Forest, Goa bearing Ref No. CEA/PS/PSPM/1/57/41/2018/1539-41 dated 12-10-2018
2. Meeting held on 31st March 2021 under the chairmanship of Secretary (Power) to review under construction ISTS projects.
3. CEA has written to PCCF, Govt of Goa for expediting of working permission on 09-06-2021.
4. Office of PCCF, Goa written to CEA on 10-06-2021 to certify that the project area in which tree felling is proposed is not dependent on the part of project for which realignment is proposed by Central Empowered Committee (CEC) and tree felling is essential at this stage for implementation of other parts of this project
5. A meeting was held on 15th June 2021 under the chairmanship of Secretary, MOP to review the under-construction Transmission Projects
6. CEA vide their letter dated 21-06-2021 clarified the queries raised by PCCF, Govt of Goa.
7. A meeting was held on 28th June 2021 under the chairmanship of Member (PS), CEA to review the under-construction Transmission Projects
8. A meeting was held on 06th July 2021 under the chairmanship of Additional Secretary (Trans), MOP to discuss issues faced in the State of Goa
9. A meeting was held on 06th Aug 2021 under the chairmanship of Secretary (Power), MOP along with the Officers of State of Goa to discuss issues faced by M/s GTTPL.

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, working permission & Stage-2 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	:	1 nos.

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:	23 %
Equipment erection:	0%
Scheduled COD	May'21/ Jan'22*
Anticipated COD	July'22

Constraints/Approval if any:

1. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19
2. The construction work will be started after getting Conversion Sanad from District Collector, South Goa. The construction License from Gram Panchayat, Molem has been received on 13 Nov 2020.
3. Approval under Sec17(A) for sloppy land is pending with Chief TCP, Goa
4. 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. Central Empowered Committee (CEC) has submitted their report to Supreme Court on 23rd April 2021 and have cleared 400/220kV Xeldem Substation.

5. In a meeting held on 15th June 2021 under the chairmanship of Secretary, MOP, it was decided to hold a meeting under chairmanship of AS, MoP.
6. The issue was also discussed in the meeting taken by Additional Secretary (Trans) on 06.07.2021, wherein, it was decided that the matter would be taken up by Secretary (Power) with Chief Secretary, Govt of Goa for early resolution.
7. As per the Minutes of Meeting held on 6th Aug 2021, M/s GTTPL have filed an IA in the Hon'ble SC on 16th Aug 2021. . Affidavit could not be submitted, as MoP/CEA is not a respondent in the case. M/s GTTPL filed additional Affidavit on 28 Sept 2021 before Hon'ble SC requesting to implead MOP in the Case.
8. Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19 Second wave and prohibition of supply of oxygen for industrial purposes

Details of Followup actions:

1. CEA letter to Principal Chief Conservator of Forest, Goa bearing Ref No. CEA/PS/PSPM/1/57/41/2018/1539-41 dated 12-10-2018
2. Meeting held on 31st March 2021 under the chairmanship of Secretary (Power) to review under construction ISTS projects.
3. A meeting was held on 15th June 2021 under the chairmanship of Secretary, MOP to review the under-construction Transmission Projects
4. A meeting was held on 28th June 2021 under the chairmanship of Member (PS), CEA to review the under-construction Transmission Projects.
5. A meeting was held on 06th July 2021 under the chairmanship of Additional Secretary (Trans), MOP to discuss issues faced in the State of Goa.
6. A meeting was held on 06th Aug 2021 under the chairmanship of Secretary (Power), MOP along with the Officers of State of Goa to discuss issues faced by M/s GTTPL.

9. 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 Pardesh, 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	:	14-10-2021
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 Date)/Feb'23	:	12.11.2022 (38 months from Effective

*The Ministry of Power, GOI has granted extension of 5 months (for First wave of Covid-19) vide order nos 3/1/2020-Trans dated 27th July, 2020 and further 3 months extension (for Second wave of Covid-19) on 12 June, 2021 from Scheduled Commercial Operation Date (SCOD) for inter-state transmission projects i.e. total extension of 8 months from SCOD.

Status of progress of transmission project

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

Length:	230.94 ckm
Locations:	310 nos.
Foundation completed:	69 nos.
Tower erected:	48 nos

Stringing completed: 0 ckm
Scheduled COD: 11th Nov 2022/ Feb'23
Anticipated COD: 11th Nov 2022

Current Status:

1. EPC Partner has been taken on board
2. Detail Survey is in process.
3. Design and Engineering work is in process.
4. Gazette Notification for Sec-164 has been published.

Constraints/Approval if any:

1. Due to ongoing pandemic situation, the construction work, Manufacturing & Delivery of materials and resource mobilization are getting impacted and absence of Oxygen supply for industrial purpose has impacted the manufacturing and supply of towers
2. Facing Delay in getting Forest and Statutory clearances (Power line, NH crossing etc)
3. Appointment of nodal officer for administrative support in the State of Karnataka is pending with Energy / Chief Secretary for resolution of ROW issues.
4. Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19 Second wave and prohibition of supply of oxygen for industrial purposes
5. Facing severe ROW issues in Karnataka Region. No work started till date. Compensation guideline is pending from respective District Collectors.
6. REC meeting for Kerela portion was held on 23th Nov'21 but Stage-I is put under hold citing conditions that FDP Karnataka to be reached uptill RMoEF level.

Detail of Followup actions:

1. CEA letter to Deputy Commissioner, Dakshin Kannad bearing Ref No. CEA-PS-13-22(13)/1/2018 dated 16-06-2020
2. Meeting held on 26 March 2021 under the chairmanship of Joint Secretary (Transmission) to review the project status.
3. DO Letter by JS (Trans) to Chief Secretary - Karanataka and Kerala bearing Ref No. 6/4/2017-Trans dated 05-04-2021
4. CEA Letter dated 25 Aug 2021 to District Collector – Udupi and Dakshin Kannada to extend necessary support to M/s UKTL for resolving Row issues and finalizing of RoW compensation
5. CEA Letter dated 29 Oct 2021 to Forest Dept, Govt of Kerala to extend necessary support to M/s UKTL for grant of Forest clearance in the state of Kerala.

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	:	at MoEF (Kerala) and at DFO (Karnataka)

Power line crossing

Total no. of crossings	:	8 nos.
Proposal submitted	:	7 nos..

Approval obtained : 2 nos.

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

National Highway / SH Crossing
Total no. of crossings : 7 nos.
Proposal submitted : 7 nos.
Approval obtained : 0 nos.

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

PTCC approval
Current status : Proposal submitted

Defence/Civil Aviation
Current status : Received NOC for Civil aviation and the proposal for Defence Approval has been submitted

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

Land Acquired: 100%
Civil works: 0%
Equipment supplied: 49%
Equipment erection: 0%
Scheduled COD 11th Nov 2022/ Feb'23
Anticipated COD: 11th Nov 2022

<u>Current Status:</u>

1. Substation land has been Acquired. Land development work has been completed
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.

Constraints / approval; if any:
1. CLU order is also pending at Collector Office, Kasargode.
2. Due to ongoing pandemic situation, the construction work, Manufacturing & Delivery of materials and resource mobilization are getting impacted and absence of Oxygen supply for industrial purpose has impacted the manufacturing and supply of reactor.
3. Facing Severe RoW issues in Kasargode Substation as the work has been stopped and local villagers are threatening the people at site.

4. District Administration requested UKTL to move the location of the substation 2 km from the existing location and vide letter dated 29-06-2021 informed UKTL that the Gram Panchayat had found an alternative land in RS No. 89 in Govt Poromboke land of Karinthalam village Accordingly, UKTL has submitted the application for identified Govt. Lease transfer which is still pending at Revenue CS Office, Kerela.

5. Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19 Second wave and prohibition of supply of oxygen for industrial purposes.

Details of follow up actions:

1. A meeting was held on 15th June 2021 under the chairmanship of Secretary, MOP to review the under-construction Transmission Projects
2. In the review meeting taken by Member (PS) on 28.06.2021, M/s UKTL informed that there is severe ROW issue on substation land. Administration is requesting them to move the location of the substation 2 km from the existing location. They are deliberating with the district administration on the issue.
3. Panchayath made a resolution requesting State Govt. of Kerala and M/s UKTL to shift the site for construction to nearby Govt. land.
4. On 15.07.2021, M/s UKTL informed CEA that they agreed for shifting of substation location to nearby Government land and they received communication from KSEB and District Collector office for providing the technical feasibility for the same. It is planned to provide this alternative land to M/s UKTL on long term lease basis.
5. CEA vide letter dated 19-07-2021 requested DC, Kasargode to consider grant of advance possession of alternate land alongwith working permission to M/s UKTL for setting up the substation by the time lease agreement is finalized by the State Revenue Dept. This will help in make up for the delay which has already impacted the project timelines.

3. 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:	31%
Equipment supplied:	58%
Equipment erection:	0%
Scheduled COD:	11th Nov 2022/ Feb'23
Anticipated COD:	11th Nov 2022

<u>Current Status:</u>

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

10. Western Region Strengthening Scheme-XIX (WRSS-XIX) and North Eastern Region Strengthening Scheme-IX (NERSS-IX)

Background -

Scope of transmission project-

(i) LILO of second circuit of Zerda –Ranchodpura 400 kV D/c line at Banaskantha (PG) PS

(ii) LILO of KAPP – Vapi 400 kV D/c line at Vapi – II

(iii) Vapi-II – Sayali D/C 220kV D/C line

(iv) Padghe (PG) – Kharghar 400 kV D/c (quad) line to be terminated into one ckt. of Kharghar – Ghatkopar 400 kV D/c (quad) line (thus forming Padghe (PG) - Kharghar 400 kV S/c (quad) line, Padghe (PG) - Ghatkopar 400 kV S/c (quad) line)

(v) LILO of Padghe (PG) – Ghatkopar 400kV S/c line at Navi Mumbai GIS (PG)

(vi) LILO of Apta – Kalwa/Taloja 220 kV D/c line (i.e. Apta – Kalwa and Apta Taloja 220kV lines) at Navi Mumbai (PG)

(vii) Pare HEP (NEEPCO) (from near LILO point)– North Lakhimpur (AEGCL) 132 kV D/c line (with ACSR Zebra conductor) along with 2 no. 132 kV line bays at North Lakhimpur end

(viii) LILO of one circuit of Pare HEP – North Lakhimpur (AEGCL) 132kV D/c line (with ACSR Zebra) at Nirjuli (POWERGRID) substation.

(ix) Establishment of 2 x 500 MVA, 400/220 kV S/s near Vapi / Ambheti (Vapi – II)

(x) 125 MVAr bus reactor at Vapi – II Substation

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	:	01-04-2021
Tariff adoption by CERC	:	01-04-2021
Contract Performance Guarantee	:	23.06.2020
Clearance u/s 164	:	26-10-2021
Execution plan submitted to CEA	:	20-10-2020

NIT issued on :
EPC contract awarded on :

*The Ministry of Power, GOI has granted extension of 5 months (for First wave of Covid-19) vide order nos 3/1/2020-Trans dated 27th July, 2020 and further 3 months extension (for Second wave of Covid-19) on 12 June, 2021 from Scheduled Commercial Operation Date (SCOD) for inter-state transmission projects i.e. total extension of 8 months from SCOD.

<u>Part A</u> - Additional 400kV outlets from Banaskantha 765/400 kV S/s

1. **LILO of second circuit of Zerda –Ranchodpura 400 kV D/c line at Banaskantha (PG) PS**

Length:	17.3 km
Locations:	51 nos.
Foundation completed:	24 nos
Tower erected:	6 nos
Stringing completed:	0 ckm
Anticipated COD:	Mar'22

<u>Current Status:</u> Detailed survey completed

Constraints / approval; if any:
Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19 .
Extreme ROW issues in village – Vadaval, Lorwada , Sanath , Sandiya , Wahara , Chattrala , Bodal , Arniwada , Mudetha under District – Banaskantha, Gujarat which held construction activities in ~ 20 locations (approx.).
Scope of supply, installation, commissioning of FOTE panels have not been defined / identified at termination end of Zerda, Ranchodpura & Baraskatha where OPGW works in existing Zerda – Ranchodpura Line (under VNLTL scope) shall be terminated.

Status of statutory approvals:
Forest area
Details of Tr. Line Falling under Forest:- N.A.
Locations : . ; Length :
Forest area (Ha) :
Forest proposals submitted :
Current status :

Wildlife area
Details of Tr. Line Falling under Wildlife:- N.A.
Locations : ; Length :
Wildlife area (Ha) :
Wildlife proposals submitted :
Current status :

Power line crossing
Total no. of crossings : 6 nos.
Proposal submitted : 6 nos.

Approval obtained	:	5 no.

Railway crossing

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

National Highway / SH Crossing

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

River Crossings

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

PTCC approval

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

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation : Civil aviation proposal and Defence aviation proposal submitted.

Current Status: NOC from Civil aviation and Defence aviation received

<u>Part B</u> - Establishment of new substation at Vapi/Ambethi area and its associated transmission line

2. **Establishment of 2 x 500 MVA, 400/220 kV S/s near Vapi / Ambheti (Vapi – II)**

Land Acquired:	100%
Civil works:	0%
Equipment supplied:	66%
Equipment erection:	0%
Scheduled COD	22-04-2023

<u>Current Status:</u>

a) Land for construction of substation has been procured
b) LOA has been awarded to EPC.
c) Land Development work has been started

Constraints/Approval if any:

1. The Approval for obtaining Non-Agriculture permission under Section 65(b) of Gujarat Land Revenue Act is pending with District Collector office, Valsad. However, out of 10.165 acres land, the approval for 5.402 acres land has been received. Rest Approvals are awaited.

2. CEA vide letter dated 10.08.2021 requested District Collector, Valsad for intervention in this matter for grant of permission under Section 65(b) of Gujarat Land Revenue Act for remaining 2 applications.
   For remaining 4.754 acres of land, the Demand note / intimation letter pertaining to NA / CLU permission under Sec-65 has been issued by Office of Collector, valsad on 17th Aug 2021. The approval / order for 4.754 acres of land has been received on 23 Aug 2021.
3. Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19 .
4. Facing Severe RoW issues in the Substation land by the local villagers
5. CLU obtained for 10.165 acres, however facing severe ROW issues and not able to start the work.

Details of follow up actions:

1. CEA letter dated 30-04-2021 to District Collector, Valsad requested to extend necessary support to VNLTL regarding Permission of Non-Agriculture under Sec-65(b); of Gujarat Land Revenue Act for actual Industrial purpose.
2. A meeting was held on 28th June 2021 under the chairmanship of Member (PS), CEA to review the under-construction Transmission Projects.
3. CEA letter dated 10-08-2021 to District Collector, Valsad requested to extend necessary support to VNLTL regarding Permission of Non-Agriculture under Sec-65(b); of Gujarat Land Revenue Act for actual Industrial purpose
4. CEA letter dated 23-09-2021 to District Collector, Valsad requested for the support to be extended for resumption of work in Vapi Substation.

3. LILO of KAPP – Vapi 400 kV D/c line at Vapi – II

Length:	6.1 kms
Locations:	19 nos.
Foundation completed:	0 nos.
Tower erected:	0 nos
Stringing completed:	0 ckm
Scheduled COD:	22-04-2023

Current Status:

a) Detailed Survey Completed
b) LOA has been awarded to EPC

Constraints / Approval; if any:

Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19.
Facing severe ROW issues in village – Gohima, District – Valsad, Gujarat and not able to start the work.

Status of statutory approvals:

Forest area

Details of Tr. Line Falling under Forest:- N.A.

Locations	:	; Length :
Forest area (Ha)	:	
Forest proposals submitted	:	
Current status	:	

Wildlife area

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

Locations	:	; Length :
Wildlife area (Ha)	:	
Wildlife proposals submitted	:	
Current status	:	

Power line crossing

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

Railway crossing

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

National Highway / SH Crossing

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

River Crossings

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

PTCC approval

Proposal submitted to Defence	: No
Proposal submitted to BSNL	: No
Proposal submitted to Railways	: No
Current status	: Proposal is yet to submit

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation : Civil aviation proposal and Defence aviation proposal submitted.

Current Status: NOC from Civil aviation and Defence aviation received

4. **125 MVAr bus reactor at Vapi – II Substation**

Civil works:	0%
Equipment supplied:	75%
Equipment erection:	0%
Scheduled COD	22-04-2023

<u>Current Status:</u> LOA has been awarded to EPC

5. **Vapi-II – Sayali D/C 220kV D/C line**

Length:	22.2 kms
Locations:	74 nos.
Foundation completed:	32 nos

Tower erected: 4 nos
Stringing completed: 0 ckm
Scheduled COD: 22-04-2023

Current Status:
a) Detailed Survey Completed
b) LOA has been awarded to EPC
c) FDP Proposal for DNH and Gujarat portion has been submitted.
d) Wildlife Proposal for DNH has been submitted

Details of Followup actions:
1. CEA Letter dated 29-10-2021 to Advisor to Administrator, Dadra & Nagar Haveli (D&NH) with a copy to Forest & Wildlife dept, D&NH seeking support in grant of Forest & Wildlife clearances.

Status of statutory approvals:
Forest area
Details of Tr. Line Falling under Forest:-
Locations : 6 nos. ; Length : 2 Kms
Forest area (Ha) : 5 Ha
Forest proposals submitted : Yes
Current status : at State Govt (DNH) & Stage-I and working permission Received (Gujarat)

Wildlife area
Details of Tr. Line Falling under Wildlife:-
Locations : 5 nos. ; Length : 1.6 km
Wildlife area (Ha) : 4.388 Ha
Wildlife proposals submitted on : Yes
Current status : At Chief Widlife Warden, SBWL meeting done, MOM release is awaited

Power line crossing
Total no. of crossings : 9 nos.
Proposal submitted : 9 nos.
Approval obtained : 5 nos.

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

National Highway / SH Crossing
Total no. of crossings : 1 nos.
Proposal submitted : 1 nos.
Approval obtained : 0 nos.

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

PTCC approval
Proposal submitted to Defence : Yes
Proposal submitted to BSNL : Yes
Proposal submitted to Railways : Yes
Current status : Proposal submitted

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

<u>Part C</u> - Additional ISTS feed to Navi Mumbai 400/220 kV substation of PGCIL

6. **Padghe (PG) – Kharghar 400 kV D/c (quad) line to be terminated into one ckt. of Kharghar – Ghatkopar 400 kV D/c (quad) line (thus forming Padghe (PG) - Kharghar 400 kV S/c (quad) line, Padghe (PG) - Ghatkopar 400 kV S/c (quad) line)**

Length:	70.01 kms
Locations:	205 nos.
Foundation completed:	1 nos.
Tower erected:	0 nos
Stringing completed:	0 ckm
Scheduled COD:	22-12-2023
Anticipated COD:	31-07-2023

<u>Current Status:</u> Detailed Survey completed

Constraints / Approval; if any:
Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19.
Delay in start of execution activities due to involvement of various utilities;
CIDCO – 4 locns
Lodha Group – 4 locns
Kirawali Toll Plaza – 7 locns
Delay in processing Forest Diversion Proposal at DFO level.

Status of statutory approvals:
Forest area
Details of Tr. Line Falling under Forest:-
Locations : 58 nos. ; Length : 20.329 Kms
Forest area (Ha) : 93.513 Ha
Forest proposals submitted : Yes
Current status : at DFO

Wildlife area
Details of Tr. Line Falling under Wildlife:- N.A.
Locations : ; Length :
Wildlife area (Ha) :
Wildlife proposals submitted :
Current status :

Power line crossing

Total no. of crossings	:	18 nos.
Proposal submitted	:	10 nos.
Approval obtained	:	2 nos.

Railway crossing

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

National Highway / SH Crossing

Total no. of crossings	:	3 nos.
Proposal submitted	:	0 nos.
Approval obtained	:	0 nos.

River Crossings

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

PTCC approval

Proposal submitted to Defence : No
Proposal submitted to BSNL : No
Proposal submitted to Railways : No
Current status : Proposal is yet to submit

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation : No
Current Status: Proposal is yet to submit

7. **LILO of Padghe (PG) – Ghatkopar 400kV S/c line at Navi Mumbai GIS (PG)**

Length:	19 kms
Locations:	60 nos.
Foundation completed:	0 nos.
Tower erected:	0 nos
Stringing completed:	0 ckm
Scheduled COD:	22-12-2023
Anticipated COD:	30-09-2023

<u>Current Status:</u> Detailed Survey completed.

Constraints / Approval; if any:
Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19.
Delay in start of execution activities due to involvement of various utilities;
CIDCO (NAINA) – 2 locns
CIDCO (NMSEZ) – 12 locns
LODHA – 3 locns
Delay in processing Forest Diversion Proposal at DFO level.

Status of statutory approvals:
Forest area

Details of Tr. Line Falling under Forest:-
Locations : 22 nos. ; Length : 7.8 Kms
Forest area (Ha) : 35.987 Ha
Forest proposals submitted : Yes
Current status : at DFO

Wildlife area
Details of Tr. Line Falling under Wildlife:- N.A.
Locations : ; Length :
Wildlife area (Ha) :
Wildlife proposals submitted :
Current status :

Power line crossing
Total no. of crossings : 3 nos.
Proposal submitted : 2 nos.
Approval obtained : 0 nos.

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

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

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

PTCC approval
Proposal submitted to Defence : No
Proposal submitted to BSNL : No
Proposal submitted to Railways : No
Current status : Proposal is yet to submit

Defence/Civil Aviation
Proposal submitted to Defence/Civil Aviation : No
Current Status: Proposal is yet to submit

8. **LILO of Apta – Kalwa/Taloja 220 kV D/c line (i.e. Apta – Kalwa and Apta Taloja 220kV lines) at Navi Mumbai (PG)**

Length: 2.9 kms
Locations: 16 nos.
Foundation completed: 0 nos.
Tower erected: 0 nos
Stringing completed: 0 ckm
Scheduled COD: 22-12-2022

Current Status: Detailed Survey completed

Constraints / Approval; if any:
Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19 .
Delay in start of execution activities due to involvement of various utilities; CIDCO (NMSEZ) – 8 locns

Status of statutory approvals:
Forest area
Details of Tr. Line Falling under Forest:- N.A.
Locations : ; Length : Kms
Forest area (Ha) :
Forest proposals submitted on :
Current status :

Wildlife area
Details of Tr. Line Falling under Wildlife:- N.A.
Locations : ; Length :
Wildlife area (Ha) :
Wildlife proposals submitted on :
Current status :

Power line crossing
Total no. of crossings : nos.
Proposal submitted : nos.
Approval obtained : nos.

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

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

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

PTCC approval
Proposal submitted to Defence :
Proposal submitted to BSNL :
Proposal submitted to Railways :
Current status : Not submitted

Defence/Civil Aviation
Proposal submitted to Defence/Civil Aviation :
Current Status: Not submitted

<u>Part D</u> - North Eastern Region Strengthening Scheme – IX

9. **Pare HEP (NEEPCO) (from near LILO point)– North Lakhimpur (AEGCL) 132 kV D/c line (with ACSR Zebra conductor) along with 2 no. 132 kV line bays at North Lakhimpur end**

Length:	29.6 kms
Locations:	91 nos.
Foundation completed:	13nos.
Tower erected:	0 nos
Stringing completed:	0 ckm
Scheduled COD:	22-06-2023

<u>Current Status:</u>
a) Detailed Survey of Assam portion and Arunachal portion has been completed.
b) FDP Proposal of Assam and Arunachal portion has been submitted

<u>Constraints / Approval; if any:</u>
1. Deviation in scope of work for the construction of 132kV Bay Extension works at North Lakhimpur end (AEGCL),
2. Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19 .

Details of Followup actions:
1. CEA Letter dated 29-10-2021 to Forest Dept, Govt of Assam seeking support in grant of Forest clearances

Status of statutory approvals:
Forest area
Details of Tr. Line Falling under Forest:-
Locations : 42 nos. ; Length : 13 Kms
Forest area (Ha) : 36.024 Ha
Forest proposals submitted : Yes
Current status : at Nodal Officer (Assam) and REC meeting held and Stage-I is awaited (Arunachal)

Wildlife area
Details of Tr. Line Falling under Wildlife:- N.A.
Locations : nos. ; Length : mtrs
Wildlife area (Ha) :
Wildlife proposals submitted :
Current status :

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

Railway crossing
Total no. of crossings : 0 nos.
Proposal submitted : 0 nos.

Approval obtained : 0 nos.

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

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

PTCC approval
Proposal submitted to Defence : No
Proposal submitted to BSNL : No
Proposal submitted to Railways : No
Current status : Proposal submitted

Defence/Civil Aviation
Proposal submitted to Defence/Civil Aviation : Civil aviation proposal submitted

10. LILO of one circuit of Pare HEP – North Lakhimpur (AEGCL) 132kV D/c line (with ACSR Zebra) at Nirjuli (POWERGRID) substation

Length: 15.7 kms
Locations: 51 nos.
Foundation completed: 0 nos.
Tower erected: 0 nos
Stringing completed: 0 ckm
Scheduled COD: 22-06-2023

Current Status: Detailed Survey completed

Constraints / Approval; if any:
Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19.

Status of statutory approvals:
Forest area
Locations : 33 nos. ; Length : 10.89 Kms
Forest area (Ha) : 29.419 Ha
Forest proposals submitted on : Yes
Current status : at DFO (Arunachal)

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	:	1 nos.
Approval obtained	:	0 nos.

Railway crossing

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

National Highway / SH Crossing

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

River Crossings

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

PTCC approval

Proposal submitted to Defence	: No
Proposal submitted to BSNL	: No
Proposal submitted to Railways	: No
Current status	: Proposal is yet to submit

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation : Proposal is yet to submit

Current Status:

11. 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)	:	PFCCL
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/Aug'21*
Anticipated Date of Completion	:	May'22

*The Ministry of Power, GOI has granted extension of 5 months (for First wave of Covid-19) vide order nos 3/1/2020-Trans dated 27th July, 2020 and further 3 months extension (for Second wave of Covid-19) on 12 June, 2021 from Scheduled Commercial Operation Date (SCOD) for inter-state transmission projects i.e. total extension of 8 months from SCOD.

1. Lakadia – Vadodara 765kV D/c line

Length:	658 cKm
Locations:	810 nos.
Foundation completed:	679 nos.
Tower erected:	549 nos.
Stringing completed:	144 ckm
Scheduled COD:	31-Dec-2020. /Aug'21*
Anticipated COD:	May'22

Constraints/Approval if any:

i. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19

ii. Delay in Submission of Sec-164 Application due to lockdown situation

iii. The TSP was facing severe RoW issues in Kutch, Morbi, Surendranagar, Ahmedabad, Anand, Kheda and Vadodara Districts of Gujarat as the land owners were asking for undue compensation.

iv. Delay in grant of Forest clearance for Diversion of 47.827 Ha of Forest land. The proposal has been forwarded by Govt of Gujarat to Regional MoEF, Bhopal for consideration in upcoming REC Meeting which is scheduled on 22 Feb 2021 and the Stage-I clearance and working permission has been issued.

v. Delay in grant of Wildlife clearance for Diversion of 30.81 Ha of Wildlife land. The Proposal has been approved by NBWL and demand note received on 19 March 2021. The partial payment has been done against demand note and due to some technical problem between Parivesh portal and the concerned Bank, the remaining amount has been returned from CAPMA account. The working (Tree cutting) permission has been received.

vi. With support of State Administration, RoW issues reduced from 547 locations to 162 locations (Morbi-83, Kutch-49, Surendranagar-18, Vadodara-12)

vii. Even after revision of circle rate by DM, landowners seeking higher compensation for line corridor @ 15% of land value for RoW areas, instead of present 7.5% norm of Gujarat Govt.

viii. Severe resistance from landowners being faced for 83 locations of Halvad Taluka in Morbi district even after revised Land compensation order from DM for tower base area (10 times of Jantri rates) and landowners further demanding approx. 10 times more on the revised rates. Six times Police Protection taken but work could not be started due to local agitation under Political Influence. M/s LVTPL will attempt again with the help of police protection

ix. Severe resistance from landowners for stringing of 16 km in Dhangadra Tehsil.

x. Resistance from landowners in Tavi village of Lakhtar tehsil for construction of foundation in 10 locations. Police Protection taken but work could not be started due to local agitation

xi. The work has been completed in 3 out of 6 Government locations of Halvad Taluka in Morbi district

xii. 3 cases in High court and 113 cases in Civil/District court are ongoing

xiii. Balance 6 no. of Powerline crossing of GETCO, all of them are at advance stage of approval, 1 Highway (NE-1 under construction) is at NHAI-Ahmedabad office.

xiv. DM/SDM court hearing is completed for village Raval (9 locations) in Vadodara District, received orders for all 9 locations. 2 new cases have been filed on 18-Sep'21, Received order for 1 location and pending for others

xv. Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19 Second wave and prohibition of supply of oxygen for industrial purposes.

xvi. Re-routing of line as per directions of the Western Railways, GETCO & NHSRCL.

xvii. PTCC proposal is pending.

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
5. MOP letter to Chief Secretary, Gujarat bearing Ref No. D.O. No. 7/1/2017-Trans dated 21-12-2020
6. MOP letter bearing ref No. 7/1/2017-Trans dated 17-02-2021 and 01-03-2021 forwarding the copies of DO letters dated 06-02-2021 from Additional Chief Secretary (ACS), Energy & Petrochemicals Dept, Govt of Gujarat and addressed to District Collectors for resolution of RoW issues
7. Hon'ble Prime Minister of India reviewed the project in the last Pragati Meeting which was held on 24 Feb 2021

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	: Stage-I, working permission & Stage-II received	

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 NBWL and working permission received	

Power line crossing

Total no. of crossings	:	88 nos.
Proposal submitted	:	88 nos.
Approval obtained	:	82 nos.

Railway crossing

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

National Highway / SH Crossing

Total no. of crossings	:	32 nos.
Proposal submitted	:	32 nos
Approval obtained	:	29 nos

River Crossings

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

PTCC approval

Proposal submitted to Defence	:	Yes
Proposal submitted to BSNL	:	Yes
Proposal submitted to Railways	:	Yes

Current status : Proposal Submitted and received NOC from Railway, BSNL and Defence. PTCC proposal is pending in the office of CEA-PTCC, Delhi office

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:	97%
Equipment supplied:	98%
Equipment erection:	85%
Scheduled COD	31st Dec'2020/Aug'21*
Anticipated COD	Feb'22

Constraints/Approval if any:

i. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19 .

ii. PGCIL is insisting that M/s LVTPL is required to provide 3 Nos. bays in each diameter of the line As per the RFP and the TSA, the Applicant is required to install only 2 nos. of bays at the Vadodara S/s.

iii. Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19 Second wave and prohibition of supply of oxygen for industrial purposes.

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:	93%
Equipment supplied:	97%
Equipment erection:	79%
Scheduled COD	31st Dec'2020/Aug'21*
Anticipated COD	Feb'22

Constraints/Approval if any:

i. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19

ii. Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19 Second wave and prohibition of supply of oxygen for industrial purposes.

4. 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	31st Dec'2020/ Aug'21*

12. 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 Adani Transmission 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
New SPV acquisition as per CERC Order	:	26.03.2021
Anticipated Date of Completion	:	Oct ’22

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)

While 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, 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 24th March to 14th April owing to Corona Outbreak /Pandemic (COVID-19). and impact of the same continued till Jun-2020. Due to Continuation of the Force majeure conditions and non-completion of the Work, CERC issued the order dated 07-02-2021, wherein CERC has granted liberty to the WKTL to approach the Commission to seek the appropriate relief for force majeure events, after completion of the Project. Also CERC ordered that no precipitative actions to be taken against the WKTL as the subsistence of TSA in the interregnum is vital to the completion/ implementation of the Project. Meanwhile, instructed WKTL shall make sincere endeavors to complete the Project.

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 License 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. as Adani Transmission Ltd has been declared successful bidder for acquisition of WKTL, pursuant to public auction conducted by consortium lenders through an independent consultant.

CERC issued the order on 27th January, 2021 and Granted approval for transfer of 100% shareholding/ any other securities held by Essel Infra or its affiliates (including that which is held under pledge by the Lenders) in WKTL in favour of ATL (Adani Transmission Limited) by execution of Share Purchase Agreement. Based on the order issued by the commission SPA carried out with Essel Infra on 26-03-21.

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 acquisition : Completed
   - Engineering : 100%
   - Civil Works : 80%
   - Equipment supplied: : 75%
   - Erection works : 70%
   - Schedule completion : Nov'19
   - Aniticipated completion : Oct '22

Constraints where Project Authority requires intervention:

a) Covid-19: 2nd wave of Covid-19 has affected progress.
b) **Unexpected high monsoon has affected site work badly.**

2. **Warora (Pool) – Warangal (New) 765 kV D/C line with 240 MVAR switchable line reactor at both ends**
   - Length: 664 ckm
   - Locations: 844 nos
   - Foundation completed: 786 nos.
   - Tower erected: 470 nos.
   - Stringing completed: 58.6 ckm
   - Schedule completion: Nov'19
   - Aniticipated completion Oct '22

Constarints where Project Authority requires intervention:

a) RoW issue: Severe RoW issue in the below stretches-
Warangal Urban & Jangaon District, Telengana State : AP 5B - AP6 & AP15 -AP16
Peddapalli / Karimnagar District, Telengana State: AP27– AP28
Mancherial District, Telengana State: AP58
Yavatmal District, Maharashtra State: AP89- AP90, AP95-AP96, AP99A- AP102
Chandrapur District, Maharashtra State: 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.
Application under section 16 is submitted to DC- Chandrapur on 20/09/2021. First meeting with DC happened on 5th October 2021 butwithout villagers. Final hearing with farmers is still awaited.

b) 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. Presently work is commenced.

c) **Court Case :** Writ Petition no. 6980/2018 dated 17/10/2018 filed in Hon'ble High Court of Bombay, Nagpur Bench by land owner of loc. no. 89/8 of 765 kV D/C Warora (Pool) – Warangal (New) Transmission line. Subsequently, the Office of Tehsildar, Rajura, Distt. - Chandrapur directed TSP to stop the transmission tower execution work at tower immediately. WKTL have already filed reply before the Court as the court had scheduled the matter for hearing on 20-10-2020. However, hearing not done on 20-10-2020 and next date of hearing is yet to be scheduled in this matter. As on date the matter is still pending for scrutiny

Also Writ Petition no. 2269/2019 filed in Hon'ble High Court of Bombay, Nagpur Bench by Farmers in the section AP 89-AP 98 of 765 kV D/C Warora (Pool) – Warangal (New) Transmission line against the compensation amount finalized by the District Magistrate Chandrapur. The hearing of the case was scheduled on 16-06-2021. However the case could not be heard on 16-06-2021 and next date of hearing is still awaited. Though, the Court has not passed any order till date, however farmers are reluctant to continue the execution work on those respective locations.

Court cases are not being taken up by the respective Hon'ble courts due to Covid. Date of hearing is continuously getting postponed.

d) 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:

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

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 1st Committee meeting, WKTL had joint survey with WCL, CMPDI, and CEA on 26-07-19 and the alternative routes were explored. During discussion of WKTL with SCCL on 29-07-19, 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 19-09-19 at the Office of CEA. A meeting was convened by MoP on 19-09-19 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 14-11-19 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 16-01-20. The recommendation of committee was sent to the Ministry of Power on 04-02-20. Subsequently, MoP vide letter dated 16-04-20 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 as per original route in coal bearing area of WCL involving sixteen (16) towers without any further delay.

e) **Covid-19:** The 2nd wave of Covid-19 has affected the progress.

f) **Dead End tower at Warora End:** PGCIL is insisting on putting of WKTL's DE tower outside PGCIL boundary**.** This is violating gantry design of Max span of 200m as agreed during initial stage. However, PGCIL is still insisting hence revised proposal with Dead End Tower outside the PGCIL SS Boundary is submitted and approval of the same is awaited.

g) Irregular supplies of raw material especially Silicon for Insulator and exceptional raise in steel and aluminium prices is hampering sourcing of material like tower, conductor and hardwares.

h) Water level in Godavari was expected to be receeded from November end. However, because of unexpected heavy rainfall, water is still increasing as such hampering our piling work.

i) **Forest Working Permission**: Forest payment for Telanagana forest involving about 45.11 Ha and amounting to about 13 Cr was deposited on 14th Oct'2021. It involves 3 divisions Viz. Asifabad, Belampally and Pedapally. FRA pertaining to Blamapally division is only due to be received from DC. TSP has initaited the pending work from Aug'21 to obtain necessary NOC from the 3 landowners who have raised issue. Tahsildar, Nennal and forest division officer, Bellampally were requested to enquire and submit the subdivision record to show the occupation of RoFR Pattas along with location sketch, specific remarks and submit enjoyment report of 4.00 acres in compartment No. 356 which is located in Sy No. 374 fo Metpally village of Nennel Mandal for taking necessary action in this matter. Tesildar Nennel and FDO, Bellampally have submitted that they have proceeded and enquired in the village and found that there are 3 tribal beneficiaries have been allotted RoFR Pattas under RpFR Act 2005 in Sy no 374 to an extent of 4.00 Acrs situated at Metapalli village and conducted Gramsabha and recorded Panchnama in the village and in panchnama they have deposed that the proposed construction Warora Pool – Warangal (new) 765 kV Transmission line is not affected by the RoFR pattas and the proposed forest land is under control of Forest Department.

However, DFO Bellampally and DC Mancherial have opined that the GP resolutions and Sub Disvison Committee resolution were passed 3 years back and in these gap period the Gran Panchayat Surpach's and memebers were changed and the Sub division level committees have also formed newly in the

month of Nov'2021 on RoFR issues, hence latest GP resolution and Sub division level committee resolution are required for issue of Form-1 certificate for diverison of said proposed forest land.

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	:	Maharashtra- 04-08-17, Telengana - 23-08-17
Current status	:	**Maharashtra –** Stage I received on 05-02-18. and working permission received on 05-10-2021. **Telangana -** Stage I received on 13-12-18 Revised demand note received on 21-09-2021. Compliance report submitted on 02-12-2021. **Working permission awaited.**

Wildlife Clearanace

Details of Tr. Line Falling under Wildlife:-

Locations	:	01 No.
Length	:	0.465 Kms
Forest area affected (ha)	:	3.1142 ha (0.465 Kms) in Telangana
Forest proposals submitted on	:	**Telangana –** 26-02-18
Current status	:	Proposal forwarded by State Government to Member Secretary (NBWL) on 20-11-18. SBWL Recommended the Proposal on 01-02-20. And subsequently recommended in NBWL meeting dated 05-10-20. Demand note received and payment done.

Power line crossing

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

Railway crossing

Total no. of crossings	:	05 nos.
Proposal submitted	:	05 nos.
Approval obtained	:	04 nos.

National Highway Crossing

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

River Crossings

Total no. of crossings	:	01 no.	(Major)

Proposal submitted : 00 nos.
Approval obtained : 00 nos.

PTCC approval
Proposal submitted to Defence on : 07-10-2021
Proposal submitted to BSNL on : 07-10-2021
Proposal submitted to Railways on : 07-10-2021
Current status:

Defence/Civil Aviation
Proposal submitted to Defence/Civil Aviation on : Civil & Defence proposal submitted
Current Status: Defence & Civil Aviation – approval obtained

3. **Warangal (New) – Hyderabad 765 kV D/C line with 240 MVAR switchable line reactor at Warangal end of each circuit.**
   - Length: 268 ckm
   - Locations: 344 nos
   - Foundation completed: 322 nos.
   - Tower erected: 297 nos.
   - Stringing completed: 3.28 ckm
   - Schedule completion: Nov'19
   - Anticipated completion: Oct '22.

Constarints where Project Authority requires intervention:

a) **RoW issue:** Severe RoW issue in the below stretches-
Jangaon District, Telangana State: AP 10 - AP 11
Yadadri Bhongir District, Telengana:17/3, 21/6, 23/1, 25/0, AP34-AP 35, AP37-AP38
Rangareddy District, Telengana State: AP 41- AP 42, 42/2, 44/0, 46B/0 and 54/2
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.

b) **Court Case:** Writ Petition no. 11733 of 2018 filed in Hon'ble High Court of Telangana by land owner of loc. no. 2/6 of 765 kV D/C Warangal – Hyderabad Line. Hon'ble High Court has granted the stay on work. Further on hearing held on 03-06-19, the Hon'ble Court adjourned the hearing and next date of hearing is yet to be scheduled in this matter. In the present situation, the work is at stand still at this location effectively from 16-03-2018.

O.S no. 121 of 2018 filed in District Court (Bhogir) by Land owner for the stretch between the location no. 30 to 31 of 765 kV D/C Warangal – Hyderabad to accord permanent injunction. On the hearing held on 22-09-21, the Court scheduled next date of hearing on 02-01-22. In such situation, the work is at stand still at this location effectively from 20-03-18.
Court cases are not being taken up by the respective Hon'ble courts due to Covid. Date of hearing has been postponed.

c) **Covid-19:** The 2nd wave of Covid-19 has affected the progress.

Status of statutory approvals:

Forest : **Nil**

Power line crossing

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

Railway crossing

Total no. of crossings	:	01 nos.
Proposal submitted	:	01 nos.
Approval obtained	:	00 nos.

National Highway Crossing

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

River Crossings

Total no. of crossings	:	Nil

PTCC approval

Proposal submitted to Defence.	:	10.08.2021
Proposal submitted to BSNL.	:	10.08.2021
Proposal submitted to Railways.	:	10.08.2021
Current status:		Awaited

Defence/Civil Aviation

Current Status: Civil & Defence Aviation approval obtained.

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

Length:	96 ckm
Locations:	126 nos.
Foundation completed:	39 nos.
Tower erected:	00 nos.
Stringing completed:	00 nos.
Scheduled COD:	Nov'19
Anticipated COD:	Oct '22

Constarints where Project Authority requires intervention:

a) **Covid-19:** The 2nd wave of Covid-19, has impacted project progress incl. approval of various statutory proposals.
b) New 132 kV line by TS TRANSCO has utilised our proposed corridor especially Railway crossing. Impact of the same is being carried out.
c) Villagers of Village Mogilicherla and Dharmaram are not allowing to carry out even check survey. They were demanding shifting of line. **District Warangal State Telangana.**

Status of statutory approvals:
Forest - Nil

Power line crossing

Total no. of crossings	:	08 nos.

Proposal submitted	:	08 nos.
Approval obtained	:	01 nos

Railway crossing

Total no. of crossings	:	01 no.
Proposal submitted	:	00 no.
Approval obtained	:	00 no.

National Highway Crossing

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

River Crossings

Total no. of crossings	:	Nil

PTCC approval

Proposal submitted to Defence:	30-10-2021
Proposal submitted to BSNL:	30-10-2021
Proposal submitted to Railways:	30-10-2021

Current status:

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation

Current Status: Submission pending

5. **Hyderabad- Kurnool 765 kV D/C line with 240 MVAR switchable line reactor at Kurnool end of each circuit**
   - Length: 337 ckm
   - Locations: 430 nos.
   - Foundation completed: 388 nos.
   - Tower erected: 301 nos.
   - Stringing completed: 40 ckm
   - Scheduled COD: Nov'19
   - Anticipated COD: Oct'22

Constraints where Project Authority requires intervention:

a) **Severe ROW:** Work hampered due to severe RoW issue in below stretch
Nagarkurnool Distrcict, Telengana State: AP 27-AP 29 , 41/0, 50/14
Kurnool Distrcict, Andhra Pradesh State: AP 60A– AP 60B, AP 66 – AP 67

b) **Work hampering in 765 kV D/C Hyderabad – Kurnool Transmission line due to Land Acquisition initiated by Telangana State Industrial Infrastructure Corporation Ltd. (TSIICL):** 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 TSIIC has issued the letter for realignment of the route in TSIIC land and joint site inspection for the same completed, discussions are still in progress & resolution awaited.

c) **Covid-19:** The 2nd wave of Covid-19, has impacted project progress incl. approval of various statutory proposals.

d) Water level in Krishna was expected to be receeded from November end. However, because of unexpected heavy rainfall, water is still increasing as such hampering our piling work.

Status of statutory approvals:
Forest - Nil

Power line crossing

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

Railway crossing

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

National Highway Crossing

Total no. of crossings	:	01 no.
Proposal submitted	:	01 no.
Approval obtained	:	00 no.

River Crossings

Total no. of crossings	:	01 no.	(Major)
Proposal submitted	:	00 no.	
Approval obtained	:	00 no.	

PTCC approval

Proposal submitted to Defence.	:	30.07.2021
Proposal submitted to BSNL.	:	30.07.2021
Proposal submitted to Railways.	:	30.07.2021
Current status	:	Awaited

Defence/Civil Aviation
Current Status: Civil & 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: 390 ckm
   - Locations: 510 nos.
   - Foundation completed: 453 nos.
   - Tower erected: 342 nos.
   - Stringing completed: 00 ckm
   - Scheduled COD: Nov'19
   - Anticipated COD: Oct'22

Constarints where Project Authority requires intervention:

a) **Severe RoW issue:** Severe RoW issue in the below stretches-
Jangaon District, Telengana State: AP 10 - AP 11
Suryapeta District,Telengana: AP14-AP15, AP25-AP28, AP52-AP53, AP55-AP56

Guntur District, Andhra Pradesh:AP63–63/12, AP76–AP77, AP84-AP85 & AP89-AP90.

b) **Court Case:** Writ Petition no. 42836 of 2018 filed in Hon'ble High Court of Andhra Pradesh by M/s Emami Cement Ltd as 04 no. of tower locations of 765 kV D/C Warangal (New) – Chilakaluripeta Transmission has been traversing though the proposed land area. M/s Emami seeking order for removal of WKTL transmission towers along with direction to re-route the transmission line. Out of 4 towers, Foundation completed for all towers and erection completed at 3 nos. Towers.

   At present this matter is under consideration of Hon'ble High Court of 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.

c) **Covid-19:** The 2nd wave of Covid-19, has impacted project progress incl. approval of various statutory proposals.

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	:	23-08-17
Current status	:	Stage –I forest approval granted on 28-11-18. Revised Note received, Payment processed. Compliance for working permission submitted to concerned DFO on 27.09.2021. Approval Awaited

Power line crossing

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

Railway crossing

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

National Highway Crossing

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

River Crossings

Total no. of crossings	:	01 no.	(Minor)
Proposal submitted	:	00 no.	
Approval obtained	:	00 no.	

PTCC approval

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

Current status:
Defence/Civil Aviation
Current Status : Civil & 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

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

Background

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

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

Scope of Transmission project

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

General Details

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

Anticipated Date of Completion : 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

NRSS XXXVI Project has been successfully substituted by PFS (PTC India Financial Services Ltd.) to Resurgent Power Ventures Pte Limited which is a joint venture with TATA Power. LoI has already been issued by PFS for acquiring 100% share in NRSS XXXVI Transmission Ltd. and filing of petition is in advance stage for SPV transfer in CERC.

Status of progress of transmission project

1. Koteshwar 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 Uttrakhand State Govt, DFO (Tehri), DFO (Dehradun), Court proceedings etc

Constraints where Project Authority requires intervention:

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

The forest diversion proposal for 400 kV D/C Rishikesh-Koteshwar 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.

M/s NTL also requested DC (Dehradun, New Tehri, Tehri Garhwal) vide our letters dated 21st & 22nd 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 – Koteshwar 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 04th 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 Uttrakhand 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 M/s NTL 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 M/s NTL to take up the matter with Uttarakhand Government in order to secure the said NoC for constructing 400 kV D/C Rishikesh – Koteshwar 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.

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 0n 10th December 2019. A new route has been proposed. NRSS XXXVI Trans.Ltd shall be remobilizing our team to check the feasility 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, 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.

On advice of Secy.Tourism a joint detailed survey was held on 4th & 5th June 2021 along with PTCUL, Uttrakhand Tourism & NRSS XXXVVI and after detailed survey following options were explored.

Option-1 : Route alignment passing through under pass gantry.
This option suggested by Uttarakhand Tourism on 17.4.2021 is technically not feasible through underpass gantry as the clearance available is, only 2.5 mtr against 5.49mtr. As per Indian Electricity Rule 1956 Minimum clearances between Electrical Lines crossing for 400kV DC to other transmission line is 5.49 mtr.

Option- 2: Interchange of gantry location with PTCUL
This option suggested by Uttarakhand Tourism on 17.4.2021 is technically feasible through interchange of Gantry location with PTCUL. It will be the best option available.

<u>Option-3:</u> Route alignment passing through underground cable.
This option suggested by Uttarakhand Tourism on 17.4.2021 is also technically feasible through underground cable. NRSS-36 must bear extra cost about 6 cr. in comparison to above 2 options**.**

Vide letter no. 2-6-1225/2021 dated 14.07.2021 Uttarakhand Tourism Dept. Provided their provisional NOC for the construction of 400kV DC Koteshwar – Rishikesh agreeing with option no-02 for the termination of line traversing through IDPL land.

Further as per NOC NRSS XXXVI Transmission has submitted the proposal of interchange of Gantry location to PTCUL. In further process of Gantry Exchange proposal with PTCUL, PTCUL has issued a letter to NRSS XXXVI Transmission vide letter no 690/400 kV O&M DR dated 18.09.21 directed to take NOC from Animal Husbandry Dept. of Uttarakhand because in the process of Gantry Exchange 03 No's of new Tower has to be installed which will fall under the land of Animal Husbandry Dept.

With reference to letter no. 690 dated 18.09.21 of PTCUL for taking the NOC from State Animal Husbandry Dept. NRSS XXXVI requested PTCUL that for gantry exchange they are not using any extra land/ new route. NRSS XXXVI will use existing 3 towers of Rishikesh – Nehtour line by strengthening the cross arms or reconstruction of the tower. NRSS XXXVI has already given the undertaking to PTCUL for bearing of any new cost, statutory payment and statutory clearance is required in the GANTRY exchange process

As per the instructions of Hon' able Secretary Power, Govt. of India to take the required NOC from Animal Husbandry Dept. Govt. of Uttarakhand for the termination of Koteswar – Rishikesh Line at IDPL land the proposal has been submitted and NOC is awaited from the concerned dept.
As per the substitution process of project by PFS the petition has been filled to CERC for SPV transfer.

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

DFO Tehri through letter dated 21st 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 M/s NTL had also applied for FRA Certificate and geologist survey report.

NRSS XXXVI submitted the revised route avoiding "Namami Gangey Scheme Plantation" to forest authorities on 13.03.19. Post verification and approval, M/s NTL submitted the forest proposal of Tehri Garhwal forest division to DFO Tehri Garhwal on 4th 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 later 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.

During the meeting taken by Member (PS), CEA on 28.06.2021 M/s NRSSXXXVI submitted that option-2 is preferable i.e. interchange of PTCUL gantry with NRSSXXXVI gantry. Subsequently, TSP clarified that no extra land is required in IDPL area in the proposed route and all the cost for the exexution of above option would be borne by TSP. With above clarifications, Uttarakhand tourism department has now asured to process the NoC as per agreed route at the earliest.

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 requested Chief Secy. Uttrakhand 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) CEA took meeting with NRSSXXXVI on 16.10.2020 review the issue.

c) A meeting was held under the chairmanship of Joint Secretary (Trans), MoP on 11.11.2020 through video conference to review the status

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

e) A meeting was held under the chairmanship of Joint Secretary (Trans), MoP on 10.02.2021 to review the status of the NoC. TSP informed that there is no progress on NoC front. And support is required to expedite the same.

f) A DO letter dated 22/02/2021 was sent to Chief Secretary, Uttrakhand by JS, MoP requesting to expedite the issuing of NoC.

g) A meeting was taken by Secretary (P) on 15.06.21 to review the issues in the transmission project. Subsequently a meeting was taken by Member (PS) on 28-06-21, to review the same.

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 – Koteshwar 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 Uttrakhand State Govt, DFO (Tehri), DFO (Dehradun), Court proceedings etc ..

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.
Scheduled COD: Dec'16
Deemed COD: 30 Oct '17

4. Babai (RRVPNL) – 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.
Rajashthan 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 (RRVPNL) substation for LILO Line

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

14. 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

<u>400 kV</u>

• 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

<u>220 kV</u>

• 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 subsidary 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: 74 nos (revised route)
   - Stringing completed: 21.50 Ckm
   - Revised schedule completion date**:** 14 months from the date of NOC from CCL/MoC (considering receipt of forest approval within 200 days). However, due to delayed Forest Clearance NKTL will be able to complete the NK-C line in 9 months from the date of forest clearance (Working Permission).

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 Forest clearance is still awaited.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. **In said meeting, NKTL stated that NKTL will be able to complete the NK-C line in 9 months from the date of forest clearance (Working Permission).**

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 for GM/JJ land NOC, FRA certificate & CA land area correction. Compliance submitted on 16-09-20 and Nodal office has recommended and submitted PART-IV to State Government on 11-11-20. State Govt. raised EDS on 22-12-20 regarding GM/JJ land NOC and FRA NOC. Due to DFO, Chatra post was vacant, it got delayed and cleared in online mode only on 16-01-21 after posting of DFO, Chatra South in last week of Dec'20. To expedite proposal in absence of GM/JJ land NOC, undertaking for GMJJ NoC and FRA Certificate also submitted by NKTL to Nodal officer on 02-02-21 but proposal processing held up for GM/JJ Land NOC & FRA certificte

Commissioner, Palamu issued the GM/JJ Land NOC on 30-03-21. Further, for FRA Certificate, DC, Latehar issued the Certificate on 02-06-2021. NKTL submitted the received GM/JJ NOC to Nodal office on 07-06-2021. DFO Latehar forwarded GM JJ NOC and FRA Certificate to CF Medinidinagar on 14-06-2021. CF Medininagar forwarded the same to Nodal, Ranchi on 16-06-2021 for further process. Nodal office Forwarded the proposal to state Government on 11-08-2021 for onward forwarding to RO and Part-V. State Govt. has recommended the proposal on 24.09.2021 and forwarded the same to RO office for further processing. . IRO, Ranchi has raised EDS to State Govt vide letter dtd. 11-10-2021 and proposal forwarded to User agency for Compliance on 13-11-2021. Compliance of the query done on 15-11-2021 and resubmitted to DFO. DFO, CF & Nodal office has forwarded the compliance of the query to next level on 01-12-2021, 08-12-2021 & 15-12-2021 respectively. Presently proposal pending at State Governemnt from 15-12-2021 for onward submission to Regional office.

CEA again called meeting on 16-10-20, 29-01-21 & 28-06-21, wherein NKTL raised concerned for delay in forest clearance of NK-C line. In said meeting, NKTL had stated that NKC line will be completed 9 months from the date of forest clearance.

The review meeting held on 11-11-20 & 10-02-21 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. Also on 31-03-21 & 15-06-21, review meeting conducted by Secretary (Power), MOP wherein NKTL requested support in expediting the Forest clearance for both lines. MOP again requested Chief Secretary; Jharkhand vide letter dated 22-07-2021 to expedite the pending forest clearances.

Again the review meeting held on 07-09-21 wherein Joint Secretary (Trans), Ministry of Power has reviewed the Status of TBCB Inter-State Transmission System (ISTS) Projects being developed by private Transmission Service providers. NKTL has apprised the issues which are impacting the project progress and requested support in expediting forest clearances for the line.

Considering the delay in processing of the proposal again review meeting conveyed by Secretary (Power) on 11-11-2021 & 08-12-2021 to expedite forest approval with all stakeholders.

Presently, no work is pending outside the forest areas.

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. NKTL Requested Eastern Region, PGCIL to speed up the Completion of Dead End tower vide letter dated 22.03.2021. However, response is awaited.

d) **Pandemic COVID 19:**Work affected due to COVID-19 since last week of Feb'20

Status of statutory approvals:

Forest (including multi-circuit portion)

Details of Tr. Line Falling under Forest:-Locations: 41 nos and Length: 12 Kms (Affecting stringing section of 30kms)

Forest area affected (ha) : 56.3254 Ha

Forest proposals submitted on : 17.06.2019

Current status: Proposal is with RO

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

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

Current Status: NOC from Civil & Defece 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): 286 nos
- Route alignment completed: 196 Ckm
- Detailed survey completed: 196 Ckm
- Foundation completed: 138 nos (on revised route)
- Tower erected: 114 nos (on revised route)
- Stringing completed: 35.5 Ckm
- Revised schedule completion date: 23 months from the date of NOC from CCL/MoC (considering receipt of forest approval within 300 days). However, due to delayed Forest Clearance NKTL will be able to complete the NK-G line in 12 clear working months from the date of forest clearance (Working Permission).

Constraints where Project Authority requires intervention:

a) 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. The proposal accepted by Nodal officer. on 06.08.20. It is pending with DFO for further processing.

   CEA had called meeting on 16-10-2020, 29-01-2021 & 28-06-21, wherein critical issues related to the project was discussed. NKTL informed that, forest proposal NK G Line is very critical. 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. In the said meeting, NKTL requested CEA and representative of forest department to support in expediting 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. Also NKTL conveyed 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-G line in 12 months of clear working season from the date of forest clearance. Also DFO Chatra south has raised EDS requesting submission of GM-JJ NOC & CS/RS Certificate for further processing of Part-II & Part-III. For GM/JJ land NOC, DC, chatra has recommended for NOC to Commissioner, Hazaribagh on 05-08-2021. Final GM JJ Land NOC awaited from Commissioner Hazaribagh.

CS/RS certificate issued by DC Chatra on 16-09-2021. Based on CS/RS Certificate issued by DC Chatra, it is observed that, the proposed forest area likely to be revised due to identification of existing/missing plots as forest plots as per revised Circle Officer Report for CS/RS certificate. This may lead to revision in Forest proposal and additional NOC in respect of GM/JJ and FRA certificate in respect of identified additional forest area. . For GM/JJ Land demand note issued by DM, Chatra on 21-12-2021 & Charged deposited on 30-12-2021. Also SLDC/ DLC meeting completed for FRA. Now FRA Certificate and GM/JJ land NOC will be issued by DM, chatra. Letter for revision in Forest area issued to Forest authorities on 11-12-2021. However as per discussion with Forest authorities, NKTLwill upload the FRA certificate and GM/JJ land NOC and Forest area will be revised in due Course.

Also Forest proposal of the Bihar portion, In-Principle Stage-I received on 02-09-2021. Also for FRA, proposal is submitted to DM, Gaya and proposal is under process.. Requested Forest authorities for issuance of the Working permission. Subsequently Nodal office recommended RCCF for issuance of Working Permission on 29.11.2021. Presently Working Permission awaited.

The review meeting held on 11-11-20 & 10-02-21 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. Also on 31-03-21 & 15-06-21, review meeting conducted by Secretary (Power), MOP wherein NKTL requested support in expediting the Forest clearance for both lines. MOP has requested Chief Secretary, Bihar vide letter dated 15-04-21 to expedite forest clearance for NK-G (Bihar Portion) and resolution of RoW issues at Gaya end. MOP again requested Chief Secretary; Jharkhand vide letter dated 22-07-2021 to expedite the pending forest clearances.

Again the review meeting held on 07-09-21 wherein Joint Secretary (Trans), Ministry of Power has reviewed the Status of TBCB Inter-State Transmission System (ISTS) Projects being developed by private Transmission Service providers. NKTL has apprised the issues which are impacting the project progress and requested support in expediting forest clearances for the line.

Presently no Location available out of forest areas. Also due to intermittant forest stretches there is very limited stringing stretches are avaiable for work. In view of this, limited workfront avaialble till the receipt of the Forest clearance and working

permission. The issue related to delyaed in forest proposal also uploaded in PMG portal (Project ID : 22247, Issue ID : 7322 and 7323)

Pandemic COVID 19: Work affected due to COVID-19 since last week of Feb'20

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

(Affecting stringing section of 67kms)

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 submitted within the timeline committed to CEA on revised route. JH portion FC proposals is at DFO level and BH portion In-Principle Stage – I received on 02.09.2021

Power line crossing

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

- Scheduled completion date: 07.05.2019

- Actual completion date: Progressively Charged from 23-07-2021 to
- 02-08-2021 and COD declared on 06-08-2021

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

- Length: 5.4 Ckm
- Locations: 10 nos
- Revised schedule completion date: Jul-21,
- Actual completion date: Progressively Charged from 23-07-2021 to 27-07-2021 and COD declared on 06-08-2021

Details of followup actions:

1. CEA Letter dated 07.02.2020 to the Secretary Land & Reform, Govt. of Jharkhand and PCCF, Ranchi regarding issuance of GM/JJ land NOC and to expedite forest clearance.
2. CEA Reminder Letter dated 18.06.2020 to Secretary Land & Reform, Govt. of Jharkhand and PCCF, Ranchi to expedite issuance of GM/JJJ land NOC and forest clearance.
3. CEA Letter dated 02.02.2021 to the Secretary Land & Reform, Govt. of Jharkhand for issuance of GM/JJ land NOC.
4. JS, MOP DO Letter dated 07.12.2020 to PCCF and HoFF, Forest, Ranchi, Jharkhand regarding expedite in issuance of forest clearance.
5. JS, MOP DO Letter dated 08.02.2021 to the Chief Secretary, Govt. of Jharkhand regarding issuance of GM/JJ land NOC.
6. CEA Letter 05.03.2021 to DC, Dhanbad for administration support for LILO of both Ckts of Ranchi-Maihton -RB 400 kV D/C line and 400/220 kV Dhanbad Substation.
7. Meeting taken by Secretary (Power), MOP to review the status on 31.03.2021.
8. Meeting taken by Secretary (Power), MOP to review the status on 15.06.2021.
9. Review meeting by Member (PS), CEA to review the status on 28.06.21
10. JS, MOP DO Letter dated 22.07.2021 to the Chief Secretary, Govt. of Jharkhand for expediting pending forest clearance.
11. Joint Secretary (Trans), MOP review meeting dated 07-09-2021 for the Status of TBCB Inter-State Transmission System (ISTS) Projects being developed by private Transmission Service providers.
12. Secretary (Power), DO Letter dated 29.10.2021 to the Chief Secretary, Govt. of Jharkhand for expediting pending forest clearance.
13. Meeting taken by Secretary (Power), MOP to discuss the readiness of the Transmission Line for power evacuation at NKSTPS on 11.11.2021.
14. Secretary ,MOP review meeting dated 08.12.2021 for the Status of TBCB Inter-State Transmission System (ISTS) Projects being developed by private Transmission Service providers.

15. Transmission System for Western Region Strengthening Scheme – 21 (WRSS – 21) Part – A – Trasnsmission 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 1st meeting of Western Region Standing Committee on Transmission (WRSCT) held on 05.09.2018. The same was agreed in the 3rd 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. Ministry of Power further extended project completion period for 3 months vide letter dated 12.06.21; revised commissioning schedule is Aug'21.

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	:	31.12.2020/31-Aug-2021*
Anticipated completion	:	31-03-2022

- 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.

*The Ministry of Power, GOI has granted extension of 5 months (for First wave of Covid-19) vide order nos 3/1/2020-Trans dated 27th July, 2020 and further 3 months extension (for Second wave of Covid-19) on 12 June, 2021 from Scheduled Commercial Operation Date (SCOD) for inter-state transmission projects i.e. total extension of 8 months from SCOD. Accordingly revised SCoD comes out as 31-Aug-2021.

(i) Bhuj PS – Lakadia PS 765 kV D/C line

- Length: 214 ckm
- Locations: 280 nos
- Foundation completed: 269 nos
- Tower erected: 257 nos

- Stringing completed: 76.32 ckm
- Schedule completion: 31-12-2020/31-08-2021*
- Anticipated Completion: 31-03-2022

Constraints where Project Authority requires intervention:

a) **Facing severe Row:** Landowners are not accepting compensation as per Govt. of Gujarat order and are demanding higher compensation for RoW multifold from Jantri rate, which has been revised factoring the escalation as they are due since 2011.

Order from DM/SDM has been issued for higher compensation amount for land rate instead of Jantri rate based on hearings, TSP is in agreement to make compensation as per the order issued by the DM/SDM. However, Large crowds are gathering and not allowing to proceed with the work even with administrative support.

Landowners are seeking higher compensation for corridor and not accepting compensation as per GoG/DM order @ 7.5% of corridor value considering the revised Jantri rate which has been revised factoring the escalation. However, Landowner are demanding at times @ 15% corridor compensation and more than15% Corridor compensation instead of 7.5%. Besides Crop compensation is being demanded 3 to 4 times of prevailing Agriculture Produce Market Committee (APMC) rates.

Also, in the section, where TSP has completed Foundation and Erection activities about 100 Ckms of sections are ready for stringing, TSP is not able to do the stringing work due to Corridor compensation issue. Hence stringing work is presently on hold leading to idle of the resources

b) WRSS XXI(A) apprised these RoW issues to GoG nominated Nodal officer for resolution however support awaited. On 31-03-21, review meeting conducted by Secretary (Power), MOP, GoI wherein WRSS-XXI(A) requested support in resolution of the Jantry Rate issues and administration support from Government of Gujarat. . Also Energy and Petrochemicals Department, Government of the Gujarat has conducted the meeting on 09-11-2021 with Administration of the Concern District for providing administrative support for execution.

c) **Pandemic COVID 19:** Work affected due to COVID-19 since last week of Feb'20

Details of followup actions:

1. Letter have been submitted to DM of Kutch for necessary support in resolving ROW issues.

2. Regular follow up is being done with DM/SDM for expedite the hearing process.

3. Jantri rate issues already taken up with CEA and MoP vide meeting dated: 11.11.2020

4. Letter have been submitted to CEA dated 26.11.20 highlighting ROW issues.

5. Letter have been sent by CEA to Addl. Cheif Sect.(Revenue Dept.), Gujarat dt 11-12-20, regeading necessary support in resolving ROW issues.

6. Letter dated 21-12-2020 from JS(MOP) to Addl. Chief secretary, Energy and petrochemicals dept. Govt. of Gujarat for necessary administration support in resolving ROW in Kutch region.

7. Meeting taken by Secretary (Power), MOP to review the status on 31.03.2021.

8. DO Letter dated 08-06-2021 from Secretary (Power), MOP to Chief Secretary, Govt. of Gujarat for support of the early resolution of ROW issues in Kutch District.

9. Meeting taken by Secretary (Power), MOP to review the status on 15.06.2021.

10. Meeting taken by Member (PS), CEA to review the status on 28.06.2021.

11. DO letter dated 22.07.2021 from Hon'ble Power Minister to Hon'ble Chief Minister of Gujarat requesting to direct concerned authorities for resolution of RoW issues.

12. DO letter dated 17.11.2021 from Hon'ble Power Minister to Hon'ble Chief Minister of Gujarat requesting to direct concerned authorities for resolution of RoW issues.

13. Letter have been sent to Principal Secretary, Energy and petrochemicals dept. Govt. of Gujarat for necessary administration support in resolving ROW in Kutch region.

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 received on 23-10-2020. Approval of Stage-II received on 28-08-2021.

Power line crossing

Total no. of crossings	:	16	nos.
Proposal submitted	:	16	nos.

Approval obtained	:	16	nos.

Railway crossing

Total no. of crossings	:	NIL	

National Highway Crossing

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

PTCC

Proposal submitted to BSNL in	: Clearance received for IV Calculation.
Proposal submitted to Railways in	: Clearance received for IV Calculation.
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: 121 nos
- Foundation completed: 110 nos
- Tower erected: 102 nos
- Stringing completed: 21 ckm
- Schedule completion: 31-12-2020/31-08-2021*
- Anticipated completion: 31-03-2022
  (On Account of Severe ROW in the state of Gujarat)

*The Ministry of Power, GOI has granted extension of 5 months (for First wave of Covid-19) vide order nos 3/1/2020-Trans dated 27th July, 2020 and further 3 months extension (for Second wave of Covid-19) on 12 June, 2021 from Scheduled Commercial Operation Date (SCOD) for inter-state transmission projects i.e. total extension of 8 months from SCOD. Accordingly revised SCoD comes out as 31-Aug-2021.

a) **Facing severe Row:** Landowners are not accepting compensation as per Govt. of Gujarat order and are demanding higher compensation for RoW multifold from Jantri rate, which has been revised factoring the escalation as they are due since 2011.

Order from DM/SDM has been issued for higher compensation amount for land rate instead of Jantri rate based on hearings, TSP is in agreement to make compensation

as per the order issued by the DM/SDM. However, Large crowds are gathering and not allowing to proceed with the work even with administrative support.

Landowners are seeking higher compensation for corridor and not accepting compensation as per GoG/DM order @ 7.5% of corridor value considering the revised Jantri rate which has been revised factoring the escalation. However, Landowner are demanding at times @ 15% corridor compensation and more than15% Corridor compensation instead of 7.5%. Besides Crop compensation is being demanded 3 to 4 times of prevailing Agriculture Produce Market Committee (APMC) rates.

Also, in the section, where TSP has completed Foundation and Erection activities about 20 Ckms of sections are ready for stringing, TSP is not able to do the stringing work due to Corridor compensation issue. Hence stringing work is presently on hold leading to idle of the resources

b) **Pandemic COVID 19:** Work affected due to 1st and 2nd Wave of COVID-19 since last week of Feb'20.

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-2 clearance received in Jan-21

Power line crossing

Total no. of crossings	:	28	nos.
Proposal submitted	:	28	nos.
Approval obtained	:	28	nos.

Railway crossing

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

National Highway Crossing

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

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:	:	Approval Received

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: 100%
- Equipment supplied: 98%
- Civil Works: 88%
- Erection works: 75%
- Schedule completion: 31.12.2020/31-Aug-2021*
- Anticipated completion: 31-03-2022

(iv) 2 Nos 765kV Bays at Bhuj PGCIL substation.

- Engineering: 100%
- Equipment supplied: 100%
- Civil Works: 100%
- Erection works: 100%
- Schedule completion: 31.12.2020/31-Aug-2021*
- Anticipated completion: Work Completed & CEI permission received in Apr-21

Constraints where Project Authority requires intervention:

Pandemic COVID 19: Work affected due to 1st and 2nd Wave of COVID-19 since last week of Feb'20.

16. 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	:	30.06.2021/28.02.2022*
Anticipated date of completion	:	28-02-2021

*The Ministry of Power, GOI has granted extension of 5 months (for First wave of Covid-19) vide order nos 3/1/2020-Trans dated 27th July, 2020 and further 3 months extension (for Second wave of Covid-19) on 12 June, 2021 from Scheduled Commercial Operation Date (SCOD) for inter-state transmission projects i.e. total extension of 8 months from SCOD.

(i) Lakadia PS – Banaskantha PS 765kV D/c line

- Length: 352 ckm
- Locations: 472 nos
- Foundation completed: 470 nos
- Tower erected: 460 nos
- Stringing completed: 300 Ckm
- Schedule completion: 30-06-2021/28-02-2022*
- Anticipated completion: 28-02-2022

Constraints where Project Authority requires intervention:

a) **Severe ROW:** Landowners are not accepting compensation as per Govt. of Gujarat order and are demanding higher compensation for RoW multifold from Jantri rate, which has been revised factoring the escalation as they are due since 2011.

Order from DM/SDM has been issued for higher compensation amount for land rate instead of Jantri rate based on hearings, TSP is in agreement to make compensation as per the order issued by the DM/SDM. However, Large crowds are gathering and not allowing to proceed with the work even with administrative support.

Landowners are seeking higher compensation for corridor and not accepting compensation as per GoG/DM order @ 7.5% of corridor value considering the revised Jantri rate which has been revised factoring the escalation. However, Landowner are demanding at times @ 15% corridor compensation and more than15% Corridor compensation instead of 7.5%. Besides Crop compensation is being demanded 3 to 4 times of prevailing Agriculture Produce Market Committee (APMC) rates.

Also, in the section, where TSP has completed Foundation and Erection activities about 40 Ckms of sections are ready for stringing, TSP is not able to do the stringing work due to Corridor compensation issue. Hence stringing work is presently on hold leading to idle of the resources

b) **Pandemic COVID 19:** Work affected due to 1st and 2nd Wave of COVID-19 since last week of Feb'20.

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.
4. Letter dated 21-12-2020 from JS(MOP) to Addl. Chief secretary, Energy and petrochemicals dept. Govt. of Gujarat for necessary administration support in resolving ROW in Kutch region.
5. Meeting taken by Secretary (Power), MOP to review the status on 31.03.2021.
6. DO Letter dated 08-06-2021 from Secretary (Power), MOP to Chief Secretary, Govt. of Gujarat for support of the early resolution of ROW issues in Kutch District.
7. Meeting taken by Secretary (Power), MOP to review the status on 15.06.2021.
8. Meeting taken by Member (PS), CEA to review the status on 28.06.2021.
9. DO letter dated 22.07.2021 from Hon'ble Power Minister to Hon'ble Chief Minister of Gujarat requesting to direct concerned authorities for resolution of RoW issues
10. DO letter dated 17.11.2021 from Hon'ble Power Minister to Hon'ble Chief Minister of Gujarat requesting to direct concerned authorities for resolution of RoW issues.
11. Letter have been sent to Principal Secretary, Energy and petrochemicals dept. Govt. of Gujarat for necessary administration support in resolving ROW in Kutch region.

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 on 13.01.2020.

Current status:

Forest proposal: Working permission & Stage-II received on 12-05-2021 & 30-09-2021 respectively.

Wildlife proposal: Wildlife proposal Considered in NBWL Meeting dt 18-02-2021. Final Permission Received from CWLW, Gujarat on 06-09-2021.

Power line crossing

Total no. of crossings	:	33	nos.
Proposal submitted	:	33	nos.

Approval obtained	:	33	nos.

Railway crossing

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

National Highway Crossing

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

PTCC

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

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 : 100%
- Civil Works: : 90%
- Equipment supplied : 99%
- Erection works: : All Equipment erection completed.
- Schedule completion: 30-06-2021/28-02-2022*
- Anticipated completion: 28-02-2022

Equipment foundation work in progress 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 : 100%
- Civil Works: : 100%
- Erection works: : 100%
- Schedule completion: Jun'21/Feb'22*
- Anticipated completion: Work Completed in Nov-2021 & Commissioning held up on account of non signing of Connection agreement

17. 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 TBCB 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 MVAr, 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 MVAr 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 Khambaliya 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	:	31.03.2021/30.11.2021*
Anticipated completion	:	15.01.2022

- 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.
- *The Ministry of Power, GOI has granted extension of 5 months (for First wave of Covid-19) vide order nos 3/1/2020-Trans dated 27th July, 2020 and further 3 months extension (for Second wave of Covid-19) on 12 June, 2021 from Scheduled

Commercial Operation Date (SCOD) for inter-state transmission projects i.e. total extension of 8 months from SCOD.

(i) Establishment of 4x500 MVA, 400/220 kV Jam Khambhaliya PS (GIS)

- Land acquisition :Completed
- Engineering : 100%
- Civil Works : 100%
- Equipment supplied: : 100%
- Erection works : 100%
- Schedule completion : 31.03.2021/30.11.2021*
- Aniticipated completion : CEI Inspection completed on 31-08-2021)

(ii) Extension of Essar-Lakadia/Bhachau 400 kV D/C (triple snowbird) line up to Jam Khambhaliya PS

- Length: 38 ckm
- Locations: 52 nos
- Foundation completed: 52 nos
- Tower erected: 52 nos
- Stringing completed: 27.6 ckm
- Schedule completion: Mar'21/ Nov'21*
- Anticipated completion: 15-01-2022

Constraints where Project Authority requires intervention:

a) Severe ROW: Severe ROW affected the work and with Administartive support Foundation, Erection and Stringign Completed except 1 no. Power line crossing of GETCO Line as Shutdown of the line is delayed due to connected load. Presently Shutdown proposed on 07-01-2022.

b) Pandemic COVID - 19: Work affected due to 1st and 2nd Wave of COVID-19 since last week of Feb'20.

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest:- No forest involved,

Power line crossing

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

Railway crossing

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

PTCC

Proposal submitted to BSNL in :
Proposal submitted to Railways in :
Current status : Approval Received.

(iii) 1x500 MVA, 400/220 ICT at CGPL Mundra switchyard

- Land acquisition : Land provided by CGPL in Sep-2021.
- Engineering : 95%
- Equipment supplied : 60%
- Civil Works : 30%
- Erection works :NIL
- Schedule completion :31.03.2021 /Nov'21*
- Anticipated completion : 31.03.2022

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. 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 to CGPL. Subsequently, meeting held with CGPL on 15.02.2021 to expedite layout approval. The Signed Copy of the layout has been provided by CGPL on 27.02.2021. Meeting held with CEA, WRPC, CGPL, GETCO, CTU & JKTL on 31.05.2021 for resolution of the matter and MOM issued by the CEA for approval of the change in scope.

Land & lease agreement submitted to CGPL on 15.02.2021. CGPL informed that leave and license agreement can't be signed off beyond 2038 since PPA of CGPL is up to 2038. Hence requested JKTL for extension of time up to 35 years couldn't be processed i.e. beyond 2038. The issue discussed in the meeting called by CEA on 31.05.2021 and it is agreed that at present agreement will be signed upto 2038 considering the present PPA of CGPL. Finally Land & lease agreement executed on 04.08.2021 and permanent gate pass on 02.09.21.

Agency mobilized and store/office set up work completed. Area Grading work completed and Foundation activity Commenced in last week of Oct-2021.

Details of followup actions:

1. Approached to DM for resolution of RoW. Compensation order received for all 8 nos. villages.

2. In Space constraint issues: Over period of times, many follow up meeting have been conducted with CGPL, CEA, BPC for resolution of matter.
3. DO letter dated 22.07.2021 from Hon'ble Power Minister to Hon'ble Chief Minister of Gujarat requesting to direct concerned authorities for resolution of RoW issues
4. DO letter dated 17.11.2021 from Hon'ble Power Minister to Hon'ble Chief Minister of Gujarat requesting to direct concerned authorities for resolution of RoW issues.
5. Letter have been sent to Principal Secretary, Energy and petrochemicals dept. Govt. of Gujarat for necessary administration support in resolving ROW in Kutch region.

18. 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 CERC

Status of progress of transmission project:

The Company had approached Central Electricity Regulatory Commission (CERC) for allowing tariff revision and Force Majeure due to delay in grant of clearance u/s 164 of

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

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

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

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

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

SC on 12th August has disposed of the appeal and directed ATE to decide on the appeal. An Interim Application (IA Nos. 479 & 480 of 2018) was filed in ATE. APTEL in its hearing dated 01st 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. PGCIL has filed an affidavit on 17.08.2020 wherein it has been stated that the transmission scheme under the scope of TSP is presently not required on technical grounds only as either investment in alternate corridors development has already been made or alternate scheme has already been planned for implementation. The case is ongoing in CERC and further hearing date is awaited.

19. 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 CERC

Status of progress of transmission project

1. **Talcher II – Rourkela 400 kV D/C (Q) line**
2. **Talcher II – Behrampur 400 kV D/C line**
3. **Behrampur – Gazuwaka 400 kV D/C line**

4. 2x315 MVA, 400/220 kV Behrampur substation

The Company had approached Central Electricity Regulatory Commission (CERC) for allowing tariff revision and Force Majeure due to delay in grant of clearance u/s 164 of Electricity Act (EA). CERC notified an unfavorable order dated 09.05.2013, which was later challenged by TTCL in Appellate Tribunal for Electricity (ATE). ATE allowed the appeal filed by company and set aside the unfavorable CERC order.

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

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

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

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

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

SC on 12th August has disposed of the appeal and directed ATE to decide on the appeal. An Interim Application (IA Nos. 479 & 480 of 2018) was filed in ATE. APTEL in its hearing dated 01st 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. PGCIL has filed an affidavit on 17.08.2020 wherein it has been stated that the transmission scheme under the scope of TSP is presently not required on technical grounds only as either investment in alternate corridors development has already been made or alternate scheme has already been planned for implementation. The case is ongoing in CERC and further hearing date is awaited.