



**Monthly progress Report of
Transmission Projects awarded
through
Tariff Based Competitive Bidding
(TBCB) Route
(Under Construction Projects)
(As on 31.07.2022)**

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

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Total Transmission Projects Awarded	:	67
Transmission Projects Commissioned/Ready for commissioning	:	38
Transmission Projects Under Construction	:	25
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 reactor with 600 Ω NGR in each circuit at Jeerat (New) end (total: 765kV, 7x80 MVAR single phase units, 1 unit as spare).
- Jeerat (New) – Subhasgram 400kV D/c line (ACSR Quad Moose)
- Jeerat (New) – Jeerat (WBSETCL) 400kV D/c line (ACSR Quad Moose)
- LILO of both circuits of Chandithala – Kharagpur 400kV D/c line at Medinipur.
- LILO of Jeerat (WBSETCL) – Subhasgram (PG) 400kV S/c section at Rajarhat (POWERGRID) [Line deleted from scope]

Substation:

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

765kV

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

400kV

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

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

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

765kV

- ICTs: 7×500MVA, 765/400kV (1 spare unit)
- ICT bays: 2 no.
- Line bays: 2 no.
- Bus reactor: 7×110 MVAR single phase unit including one (1) spare unit
- Bus reactor bay: 2 no.
- Space for future line bays (along with space for switchable line reactor): 4 no.
- Space for future ICT bays: 2 no.
- Space for future 765/400 kV ICT: (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	:	Aug-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*
- Actual COD : Feb'21

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: 313 nos.
- Foundation 313 nos .
- Tower erection 313 nos.
- Stringing 106.5 kms
- Scheduled COD July'2020/ Dec'2020*
- Anticipated COD Aug '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

Defence/Civil Aviation : Approved.

Constraints being faced during execution:

1. Work has been affected due to COVID-19 pandemic.
2. Work affected by Cyclone Amphan in May'20.
3. Work affected due to state assembly election in Apr'21.
4. Work also affected due to 2nd wave of COVID-19 in Apr'21.
5. Severe ROW issue was faced during construction of the line.

Constarints where Project Authority requires intervention:

1. **PTCC approval** : Submitted on 23.01.2021.proposal at BSNL,KOLKATA office.
Approval awaited.
2. Work under progress in balance portion.

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*
Actual COD	:	Sept' 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 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.; 1x330 MVAR, 765 kV; 1x125 MVAR, 420 kV; 765 kV reactor Bays -1 no.; 400 kV reactor Bays -1 no.; 1x110 MVAR, 765 kV, 1-ph Reactor (spare unit).

Space for Future provisions:

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

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

General Details

Special Purpose Vehicle (SPV) (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 24 th Jul'20) published in Gazette of India on 21 th 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**
Anticipated Date of Completion	: Sep'22

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: 284 nos.
- Towers erected : 284 nos.
- Stringing completed: 106 km
- Scheduled COD Dec'20/ May'21*/Aug'21**
- Anticipated COD Jul'22
- Bhuj-Bhuj-II line commissioned in Jun'22. Bhuj-II Lakadia (Loop out) aniticipated in Jun'22.

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Status of statutory approvals:

- 1.Forest** : Area-99.24 Ha; Proposal submitted on 17.01.2020. RFO inspection done on 26.02.20. Revised proposal after re-routing submitted on 28.05.2020 (95.66Ha). Proposal forwarded to Nodal officer after inspection of CCF held on 08th July'20. Stage-I proposal cleared from 49th REC held on 22-09-2020. RMoEF issued Stage-I clearance on 30th Sep'20. Working permission also received on 27th Oct'20.
- 2.Defence/Civil Aviation** : Approval obtained.

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 & PBT/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-Nakhatrana of 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.
3. 765kV Bhuj-I to Bhuj-I line (Loop in portion) completed in Jun'22. 765 KV D/C Bhuj-2-Lakadia Line (Loopout portion Upto LILO Point -Under POWERGRID Scope) completed & charged in Jul'22. Line shall be commissioned only after completion of 765kV Bhuj-Lakadia line being implemented under TBCB by Adani.

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 proposal is pending because of pending survey 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	: Major Civil work and GIS erection of 765 kV,400 kV & 220 kV are completed..
Scheduled COD	: Dec'20/ May'21*/Aug'21**
Anticipated COD	: Sep'22

Constraints being faced during execution:

1. Work has been affected due to COVID-19 pandemic.

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 generation 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)	: POWERGRID Ramgarh Transmission Limited
Bid Process Coordinator (BPC)	: REC Ltd.
Estimated Cost	: ₹ 353.85 Cr.
Levelling 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	: 31.05.21
Tariff adoption by CERC	: 05.05.21
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	89 nos
Towers erected	34 Nos
Stringing completed	-
Scheduled COD	Sep'22/Dec'22**
Anticipated COD	Jul'23

Status of statutory approvals:

River Crossings

Total no. of crossings	:	NIL	nos.
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Power line crossing

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

Railway crossing

Total no. of crossings	:	NIL
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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.
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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	93 nos.
Towers erected	49 No
Stringing completed	-
Scheduled COD	Sep'22/Dec'22**
Anticipated COD	Jul'23

Status of statutory approvals:

River Crossings

Total no. of crossings	:	NIL	nos.
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Power line crossing

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

Railway crossing

Total no. of crossings	:	NIL
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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 submission: 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.
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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 Taken over
Civil work completed	:	20%
Equipment supplied	:	30%
Equipment erection	:	
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD	:	Jul'23-Sep'23

2. Extension of 400 Fatehgarh-II Substation

Land Acquisition	:	Available
Civil work completed	:	85 %
Equipment supplied	:	70 %
Equipment erection	:	50%
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD	:	Jul'23

3. Extension of 400kV Jaisalmer II Substation

Land Acquisition	:	Available
Civil work completed	:	80%
Equipment supplied	:	60 %
Equipment erection	:	45 %
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD	:	Jul'23

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.

Complete project lies in GIB Potential area. Clearance from the Supreme court committee received on 18.07.22.

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

1. 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.
2. 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
3. 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)	:	POWERGRID Bikaner Transmission System Limited
Bid Process Coordinator (BPC)	:	PFC Consulting Ltd.
Estimated Cost	:	₹ 1340.81 Cr.
Levelling 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	:	Received
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:	736nos.
Foundation completed	651 nos.
Towers erected	481 nos.
Stringing completed	48 km
Scheduled COD	Sep'22/Dec'22**
Anticipated COD	Dec'22

Status of statutory approvals:

River Crossings

Total no. of crossings	:	NIL	nos.
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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 submitted on 07.06.2021 & accepted by Nodal on 28.07.2021 and forwarded to concern DFO on 11.08.2021. 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. Part-II done by DFO on 07.12.2021 and forwarded to CF, Bikaner. Part-III done by CF, Bikaner on 14.12.2021 and forwarded to NO, Jaipur. Part-IV done by NO, Jaipur on 24.12.2021 and forwarded to Sec (Forest), Govt. of Raj. Vide letter dated 08.02.22, Sec (Forest) has raised query No, Jaipur for submission of signed Topo map by DFO. Compliance to the same submitted to NO, Jaipur on 23.02.22 through CF (Hard copies of

proposal submitted to NO, Jaipur on 28.02.22). Proposal put to Sec (Forest) for approval and same is u/p.

Division Name: Jhunjhunu, Sikar, Churu (1.38 Ha)

Forest type: UF

Online proposal submitted on 11.06.2021 & accepted by Nodal on 03.08.2021 and forwarded to concern DFOs on 19.08.2021. Part-II recommendation for Churu division done on 06.01.22 & forwarded to CF, Bikaner. Part-II recommendation for Sikar division done on 12.01.22 & forwarded to CF, Jaipur. Part-II recommendation for Jhunjhunu division done on 31.03.22 & forwarded to CF, Jaipur. Part-II recommendation done on 13.04.22 and forwarded to NO, Jaipur for n/a. Proposal is under review at NO, Jaipur for Part-IV recommendations.

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:	336nos.
Foundation completed	295 nos.
Towers erected	252 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 : 27 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	:	Land possession taken in Jan'22.
Civil work completed	:	25%
Equipment supplied	:	40%
Equipment erection	:	
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD	:	Dec'22

**2. 400/220kV New Bikaner II Substation STATCOM
(±300MVAR 2x125MVAR MSC, 1x125MVAR MSR)**

Land Acquisition	:	Land possession taken in Jan'22.
Civil work completed	:	15%
Equipment supplied	:	30%
Equipment erection	:	
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD	:	Dec'22

3. Extension of 400kV Khetri Substation

Land Acquisition	:	Available
Civil work completed	:	95 %
Equipment supplied	:	92 %
Equipment erection	:	70 %
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD	:	Dec'22

4. Extension of 400kV Bhiwadi Substation

Land Acquisition	:	Available
Civil work completed	:	98%
Equipment supplied	:	95%
Equipment erection	:	85%
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD	:	Dec'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 generation 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) Limited	:	POWERGRID Bhadla Transmission
Bid Process Coordinator (BPC)	:	REC Transmission Projects Company Ltd..
Estimated Cost	:	₹ 713.82 Cr.
Levelling 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 | 302 nos. |
| • Towers erected | 206 Nos |
| • Stringing completed | 1.5 km |
| • Scheduled COD | Dec'22 |
| • Anticipated COD | Dec'23 |

Status of statutory approvals:

River Crossings

Total no. of crossings	:	NIL	nos.
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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. Stage-I accorded on 01.02.2022 from State Govt. of Raj

PTCC approval	:	Proposal submitted , under approval.
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Defence Aviation	:	Proposal submitted , under approval.
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Civil Aviation	:	Proposal submitted , under approval.
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Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.
2. Supreme Court committee clearance in GIB case received on 18.07.22 with diverted route. Transmission license from CERC awaited.

Status of progress of Substation and Bay Extensions:-

1. Extension of 765kV Fatehgarh II Substation

Land Acquisition	:	Available.
Civil work completed	:	30%
Equipment supplied	:	20%
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	:	25%
Equipment erection	:	
Scheduled COD	:	Dec'22**
Anticipated COD	:	Dec'23

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.
2. Supreme Court committee clearance in GIB case received on 18.07.22 with diverted route. Transmission license from CERC awaited.

6. Transmission system associated with LTA applications from Rajasthan SEZ Part-C, 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 generation 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 Switchgear line reactors for Bhadla II – Sikar II transmission Line.
- Construction of 02 No 765kV bays at Bhadla II for Bhadla II – Sikar II 765kV D/C Line along with 2/240MVar switchable line reactors.
- Construction of 02 No 400kV bays at Neemrana for Sikar II – Neemrana 400kV D/C line.

General Details

Special Purpose Vehicle (SPV)	:	POWERGRID Sikar Transmission Limited
Bid Process Coordinator (BPC)	:	REC Transmission Projects Company Ltd.
Estimated Cost	:	₹ 1562 Cr.
Levelling 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	:	27.05.22
Tariff adoption by CERC	:	05.05.22

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 :	:	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 372 nos.
- Towers erected 212 nos
- Stringing completed 7.5 km
- Scheduled COD Dec'22
- Anticipated COD Aug'23

Status of statutory approvals:

River Crossings

Total no. of crossings	:	NIL	nos.
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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, Nagaur, Sikar (0.6231 Ha)

Forest type: PF (SH-3, one in each)

Online Submission:01.06.2021; Marked to DFO Jodhpur, Nagaur, Sikar:08.07.2021, DFO Jodhpur site visited. DFO, Sikar raised query on 15.07.21 & replied on 09.08.21. DFO, Nagaur raised query on 07.09.21. Reply to concern DFO submitted on 04.02.2022. Documents related to change of area from 0.6231 Ha to 0.7912 Ha are uploaded on 04.02.2022. DFO, Nagaur inspection completed. Vide letter dated 07.03.22, DFO, Sikar has sought additional information from Power Grid. Site informed that after finalization

Sikar-II substation land compliance for same shall be submitted as additional forest area may be required for diversion

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 150 Nos
- Towers erected 101 nos.
- Stringing completed -
- Scheduled COD Dec'22
- Anticipated COD Aug'23

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 (13.013 Ha)

Forest type: PF (Sikar & Alwar)

Online proposal submitted on 29.06.2021 & accepted by Nodal on 19.08.2021 and forwarded to respective DFOs on 24.08.2021. However, due to change in area, advice from forest department requested. Accordingly, revised area (13.0134 Ha) proposal submitted on 04.01.2022. Part-II Recommendations: DFO, Jhunjhunu done on 10.01.22 & forwarded to CF Jaipur. DFO, Jaipur (North) done on 14.02.22 & forwarded to CF Jaipur. DFO, Sikar done on 25.03.22 & forwarded to CF Jaipur. DFO, Jhunjhunu done on 02.04.22 & forwarded to CF Jaipur. Part-III done by CF, Jaipur on 26.04.22 and forwarded to NO, Jaipur. Part-IV done by NO, Jaipur on 02.05.22 and forwarded to Sec (Forest), Govt. of Rajasthan.

Division Name: Mahendragarh (NH-1, Canal-1) (0.483 Ha)

Forest type: PF

Online proposal submitted on 08.08.2021 & accepted by Nodal on 20.08.2021 and forwarded to concerned DFO on 01.09.2021. DFO, Mahendragarh raised query for on 05.10.2021 & reply of same done on 30.10.2021. Further, DFO, Mahendragarh sought addition information on 24.11.2021. However, due to additional NH crossings involved and change in area, advice from forest department requested. Accordingly, reply of the same submitted to DFO, Mahendragarh on 29.01.22 along with details/data pertaining to change of area from 0.1288 Ha to 0.483 Ha. Further, DFO on 14.02.2022 has requested to submit FRA certificate & compliance for same submitted on 28.03.22. Identification of CA land for CA scheme is under process.

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. Supreme Court Committee clearance received on 13.01.22.

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	:	Aug'23

2. Extension of 765kV Bhadla II Substation

Land Acquisition	:	Available
Civil work completed	:	80%
Equipment supplied	:	70 %
Equipment erection	:	50%
Scheduled COD	:	Dec'22**
Anticipated COD	:	Aug'23

3. Extension of 400kV Neemrana Substation

Land Acquisition	:	Available
Civil work completed	:	90%
Equipment supplied	:	80%
Equipment erection	:	60%
Scheduled COD	:	Dec'22**
Anticipated COD	:	Aug'23

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.
2. Supreme Court Committee clearance received on 13.01.22.

7. Transmission system associated with LTA applications from Rajasthan SEZ Part-D, 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 generation 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 of 02 No 765kV bays at Sikar II for Sikar II- Aligarh 765kV D/C Line along with 2x330 MVAR switchable line reactors.
- Construction of 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.
Levelling 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	:	28.05.22
Tariff adoption by CERC	:	06.05.22.
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 608 nos.
- Towers erected 474 nos
- Stringing completed 74.2 km
- Scheduled COD Dec'22
- Anticipated COD Aug'23

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 submitted on 26.07.2021 & accepted by Nodal on 03.09.2021 and forwarded to concern DFOs on 03.09.2021. Part-II recommendation for Sikar division done on 13.01.22. Vide letter dated 03.02.22, DFO, Jaipur (N) has sought addition information and compliance for the same submitted to DFO on 21.03.22. Vide letter dated 29.03.22, DFO, Jaipur (N) has requested to submit revised proposal in hard copies. Part-II recommendation for Alwar division done on 01.04.22 & forwarded to CF, Jaipur. Part-III done by CF, Jaipur on 26.04.22 and forwarded to NO, Jaipur.

Division Name: Mewat, Palwal (15.8589 Ha)

Forest type: PF (road-6, canal-5, others)

Online proposal submitted on 19.08.2021 & accepted by Nodal on 23.09.2021 and forwarded to concern DFOs on 10.09.2021. DFO, Palwal raised query for additional information on 24.09.2021. Reply for the same submitted on 30.09.2021. Further additional

information as sought by DFO & same are submitted to DFO on 27.12.2021. Compliance submitted to DFO on 12.02.2022 along with data/details of change of forest area from 17.1721 Ha to 15.8589 Ha. Further, DFO, Palwal has asked Power Grid on 17.02.22 to submit hardcopies of forest proposal. Hard copies of forest proposal submitted to DFO on 24.02.22. DFO, Mewat has raised EDS on 01.04.22 and reply for the same submitted on 05.04.22. Identification of CA land for CA scheme is under process

Division Name: Mathura, Aligarh (1.3668 Ha)

Forest type: PF (road-1, canal-12)

Online proposal submitted on 25.08.201. However, NO, Lucknow sought additional information on 02/09/2021; 02/11/2021; 24/11/2021 & 07/12/2021 respectively. Power Grid has submitted reply to NO, Lucknow on 19/10/2021; 13/11/2021; 01/12/2021 & 10/12/2021 respectively. NO, Lucknow has reviewed online proposal and requested to submit hard copies of the same on 13.12.2021. Hard copies of proposal submitted to respective DFO, on 28.12.2021. Online proposal forwarded to DFOs on 12.01.22. DFO, Mathura sought addition information on 22.02.2022 and compliance to same submitted to DFO on 28.02.22. Site inspections by DFOs, Mathura & Aligarh completed and tree enumeration reports are submitted to respective DFOs. Identification of CA land for CA scheme is under process.

PTCC approval : Proposal under preparation.

Defence Aviation : Proposal under preparation.

Civil Aviation : NOC received.

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.
2. CERC agreed for transmission license vide order dated 22.04.22.

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	:	Aug'23

2. Extension of 765kV Aligarh Substation

Land Acquisition	:	Available
Civil work completed	:	55%
Equipment supplied	:	45%
Equipment erection	:	30%
Scheduled COD	:	Dec'22**
Anticipated COD	:	Aug'23

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.
2. CERC agreed for transmission license vide order dated 22.04.22.

8. Transmission system associated with LTA applications from Rajasthan SEZ Part-G, Phase-II

Background

The 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 generation 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 765/400kV Narela S/s & implementation of Khetri – Narela 765kV D/c Line & LILO of 765kV S/c Meerut – Bhiwani line at Narela.

Scope of Transmission Project-

Transmission Line

1. Khetri – Narela 765kV D/c Line
2. LILO of 765kV S/c Meerut – Bhiwani line at Narela.

Substation

1. Establishment of 765/400 kV, 3X1500 MVA GIS substation at Narela with 765 kV (2x330 MVAR) bus reactor and 400kV (1x125 MVAR) bus reactor.
2. Construction of 02 No 765kV bays at Khetri for Khetri – Narela 765kV D/c Line

General Details

Special Purpose Vehicle (SPV)	:	Khetri Narela Transmission Limited
Bid Process Coordinator (BPC)	:	PFC Consulting Ltd.
Estimated Cost	:	₹ 1666 Cr.
Levelised Tariff	:	₹ 177Cr.
Request for Proposal	:	06.03.20
Letter of Intent	:	28.02.22
Transmission Service Agreement (TSA)	:	07.12.21

SPV acquisition	:	11.05.22
Transmission License by CERC	:	Applied on 18.05.22
Tariff adoption by CERC	:	Applied on 18.05.22
Clearance u/s 164	:	Proposal under preparation
Execution plan submitted to CEA	:	To be Submitted.
NIT issued on	:	NIT for all Pkges issued.
EPC awarded on	:	NOAs for all package issued except
Reactors		
Scheduled Date of Completion	:	Nov'23

1. Khetri – Narela 765kV D/C line

Award placed to M/s TLL

Length:	170 km
Locations:	458 nos.
Foundation completed	8 nos.
Towers erected	0 nos
Stringing completed	0 km
Scheduled COD	Nov'23
Anticipated COD	Nov'23

Status of statutory approvals:

River Crossings: Survey in progress

Power line crossing: Survey in progress

Railway crossing: Survey in progress

National Highway Crossing: Survey in progress

2. LILO of 765kV S/c Meerut – Bhiwani line at Narela

Award placed to M/s TLL

Length:	30 km
Locations:	82 nos.
Foundation completed	0 nos.
Towers erected	0 nos
Stringing completed	0 km
Scheduled COD	Nov'23
Anticipated COD	Nov'23

Status of statutory approvals:

River Crossings: Survey in progress

Power line crossing: Survey in progress

Railway crossing: Survey in progress

National Highway Crossing: Survey in progress

Status of progress of Substation and Bay Extensions:-

1. 765/400kV Narela Substation

Land Acquisition	:	Land under acquisition
Civil work completed	:	
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Nov'23
Anticipated COD	:	Nov'23

2. Extension of 765kV Khetri Substation

Land Acquisition	:	Available
Civil work completed	:	
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Nov'23
Anticipated COD	:	Nov'23

*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.

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

Background

Scope of transmission project

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

General Details

Special Purpose Vehicle	: Goa-Tamnar Transmission Project Limited (Sterlite Grid 5 Limited; a subsidiary of Sterlite Power Transmission Limited)
Bid Process Coordinator (BPC)	: Power Finance Corporation
Estimated Cost (Rs. Crs)	: 1531
Levelized 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'24 (impact due to CEC Order)

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 had returned the proposal to nodal officer for modification of proposal as per SC order dated 7.4.2022 on CEC recommendation. Initial 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 was pending with Govt of Karnataka. Initial 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 1st, 2nd and 3rd wave 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). SC vide its order in hearing dated 07.04.2022 has approved the recommendation made by CEC and directed GTTPL to take suitable steps in accordance with the recommendation made therein.
5. As per order of supreme Court As per Supreme court order to use Right of way (ROW) of 110 kv line of Supa-Ponda & 220 kV line of Ambewadi -Ponda line for construction of Xeldem-Narendra line, the survey on CEC recommended route is done and TSP has submitted modified proposal for Wild Life in Karnataka to DFO Dandeli, Support Required from Karnataka Forest Department and State Govt for processing the proposal and SBWL approval at the earliest.
6. As per Supreme court order to use Right of way (ROW) of 110 kv line of Supa-Ponda & 220 kV line of Ambewadi -Ponda line for construction of Xeldem-Narendra line, TSP has applied for permission to use co-orridor to GED, Goa and KPTCL, Karnataka, permission received for GED Portion. Support required for permission from KPTCL for use of Co-orridor as per Hon'ble Supreme Court order.

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.
10. A meeting was held on 13th Jan'22 of under the chairmanship Member (PS), CEA in relation to impediments in start of construction activities of LILO of one circuit of Narendra(existing)-narendra(new) 400 kV D/C Line.
11. JS(Trans), MoP vide letter dated 09th May 2022, to CS, Government of Goa requested to Expedite the approval of on the proposal submitted by GTTPL for construction of 400 kV Xeldem (Goa) - Narendra (Karnataka) and 220 kV Ambewadi - Ponda line of Goa on Multi Circuit Multi Voltage (MCMV) towers by utilizing RoW of existing 220kV Ambewadi - Ponda of Goa and 110 kV Supa-Ponda defunct line of Goa. The same has been approved by Govt of Goa on 19th May 2022

Status of statutory approvals:

Forest area

Details of Tr. Line Falling under Forest	:	
Locations	:	91 nos ; Length : 36.77 Kms (Subject to change)
Forest area (Ha)	:	183 Ha (Subject to change)
Forest proposals submitted on	:	Karnataka : 20 Jul'22 ;
Current status	:	Goa State Forest : Revised Proposal will be submitted soon. Karnataka Forest : Revised proposal submitted on 20th July'22 at DFO Dandeli.

Wildlife area

Details of Tr. Line Falling under Forest	:	
Locations	:	23 nos ; Length : 9.031 Kms (Subject to change)
Wildlife area (Ha)	:	42 Ha (Subject to change)
Wildlife proposals submitted on	:	Wild Life Karnataka : 20th Jul'22
Current status	:	GOA: Revised proposal will be submitted soon. Karnataka: Revised proposal submitted on 20th July'22 at DFO Dandeli.

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	: 4 nos
Proposal submitted	: 4 nos
Approval obtained	: 4 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	: 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	: 68nos
Tower erected	: 48 nos
Stringing completed	: 0 Ckm
Scheduled COD	: May'21 /Jan22*
Anticipated COD	: Dec'23

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. As per recent Supreme Court order dated 03-06-2022, “no new permanent structure shall be permitted to come up for whatsoever the purpose within the ESZ”. XM Line is falling in ESZ of Bondla wild life sanctuary hence TSP is doing survey for avoiding ESZ, after that revised proposal will be submitted. As TSP has already received stage 2 as per Goa Forest Department condition for Tree cutting permission after stage 2.

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 Kms
Forest area (Ha)	:	
Forest proposals submitted on	:	Goa : 01 July'18
Current status	:	TSp is doing survey for avoiding ESZ, after that revised proposal will be submitted.

Wildlife area

Details of Tr. Line Falling under Forest	:	N/A
Locations	:	
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	: Yes
Proposal submitted to BSNL	: Yes
Proposal submitted to Railways	: Yes
Current status	: Approved

Defence/Civil Aviation

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

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

Length	: 137 CKm
Locations	: 179 nos
Foundation completed	: 179 nos
Tower erected	: 179 nos
Stringing completed	: 137 Ckm
Scheduled COD	: July '21 /Mar '22*
Anticipated COD	: 23.06.2022 (Line Charging Completed)

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

Length	: 40 CKm
Locations	: 62 nos
Foundation completed	: 3 nos
Tower erected	: 0 nos
Stringing completed	: 0 Ckm
Scheduled COD	: May'21 /Jan'22*
Anticipated COD	: Dec'23

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. As per recent Supreme Court order dated 03-06-2022, “no new permanent structure shall be permitted to come up for whatsoever the purpose within the ESZ”. XX Line is falling in ESZ of Bhagwan Mahavir wild life sanctuary hence TSP is doing survey for avoiding ESZ, after that revised proposal will be submitted. TSP has already received stage 2 as per Goa Forest Department condition for Tree cutting permission after stage 2. Support required for Diversion area approval and amendment in existing approval with new area

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	:	Goa : 02 Aug'18

Current status : TSP is doing survey for avoiding ESZ, after that revised proposal will be submitted.

Wildlife area

Details of Tr. Line Falling under Forest : N/A
Locations :
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 : 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 : 1 nos
Proposal submitted : 1 nos
Approval obtained : 1 nos

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 : 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 : 35 %
Equipment erection : 0 %
Scheduled COD : May'21/ Jan'22*
Anticipated COD : Dec'23

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.

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.
7. A meeting was held under the chairmanship of Joint Secretary (Transmission), Ministry of Power on 09th March 2022 to discuss the impediments to start construction activities of LILO of one circuit of Narendra (existing) – Narendra (New) 400kV D/C quad line at Xeldem and construction of 400/220 kV Substation at Sangod, Xeldem, Goa and suggesting way forward.
8. A meeting was held under the chairmanship of Member (PS), CEA on 26th May 2022 to discuss impediments to construction of substation and solutions.

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

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

Scope of transmission project

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

General Detail

Special Purpose Vehicle	: 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
Levelized 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	: 12.11.2022 (38 months from Effective Date)/Feb'23

*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	: 276 nos
Foundation completed	: 81 nos

Tower erected	: 73 nos
Stringing completed	: 0.84 Ckm
Scheduled COD	: 11 th Nov 2022/ Feb'23
Anticipated COD	: Mar'23

Current Status:

1. EPC Partner has been taken on board and resource mobilised
2. Design and Engineering work 98% completed.
3. Construction work is in process.
4. Gazette Notification for Sec-164 has been published.

Constraints/Approval if any:

1. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of 1st, 2nd and 3rd wave of COVID-19.
2. Facing Delay in getting Forest and Statutory clearances (Power line, NH crossing etc)
3. Facing severe ROW issues in Karnataka Region. No work started till date. Compensation guideline is pending from respective District Collectors.
4. Delay due to stay interim order from Hon'ble High Court dated 19/11/2021 has directed UKTL to not take any step to lay the subject transmission line. Next date of hearing is 10.08.2022.
5. **Karnataka:** Part-IV of the proposal completed and Nodal Officer forwarded the proposal to State Government on 5th July 2022. Currently under process at State Government level, need to be expedited.
Kerala: Compliance of the query raised by MoEFCC has been closed by User Agency>DFO>CCF and currently under process at Nodal Officer level for further forwarding to State Government, need to be expedited.
6. REC meeting for Kerala portion was held on 23rd Nov'21 but Stage-I is put under hold citing conditions that FDP Karnataka to be reached uptill RMoEF level.
7. Working permission is pending from Kerala Plantation Corporation limited in Kerala. Joint Tree Enumeration list with final proposal submitted to Manager PCKL Kasargod, waiting for construction approval.
8. Landowners in Kerala section formed committee and has stopped all construction activities of UKTL for last 1 month, demanding higher compensation for surface damage & land.

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 - Karnataka 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.

6. JS(Trans), MoP vide its DO letter dated 04.05.2022 to Chief Secretary, Govt of Karnataka has requested to direct concerned officer to resolve the issue of (i) Finalization of Land Compensation rates by DC in the districts of Dakshin Kannada and Udupi and (ii) Expediting permission for cutting of trees in non-forest area by the Forest Division of Mangalore.
7. JS(Trans), MoP vide its DO letter dated 04.05.2022 to Chief Secretary, Govt of Kerala requested to direct concerned officer of Regional Empowered Committee (REC) in Kerala for their support to resolve the issue for Stage-I clearance for diversion of forest land.
8. UKTL Letter No.- 344 Dtd.- 22-07-2022 to Deputy Commissioner, Kasargod, for RoW problem in Kerala section and request for resolution
9. UKTL Letter No.- 345 Dtd.- 27-07-2022 to Hon'ble Minister of Electricity for Administrative support to start for the execution of Power Transmission Project.
10. UKTL Letter No.- 346 Dtd.- 27-07-2022 to DCP Kasargod for police protection to start construction activity at location no.- 39/0, 35/0, 36/0 & 17/0.

Status of statutory approvals:

Forest area

Details of Tr. Line Falling under Forest	:	
Locations	:	24 nos ; Length : 9.45 Kms
Forest area (Ha)	:	48.152 Ha
Forest proposals submitted on	:	Kerela : 03 Nov'20 Karnataka : 18 Dec'20
Current status	:	Kerela : Currently under process at Nodal Officer level for further forwarding to State Government. Karnataka : Currently under process at State Government level since 5 th July 2022.

Wildlife area

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

Power line crossing

Total no. of crossings	:	8 nos
Proposal submitted	:	8 nos
Approval obtained	:	2 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	: 8 nos
Proposal submitted	: 7 nos
Approval obtained	: 4 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	: PTCC file is with DE Chennai for final review

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation	: Proposal submitted
Current Status	: Defence Aviation : Pending Civil Aviation : Approved

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

Land Acquired	: 100 %
Civil work completed	: 34.28 %
Equipment supplied	: 64.75 %
Equipment erection	: 0 %
Scheduled COD	: 11 th Nov 2022/ Feb'23
Anticipated COD	: Mar'23

Current Status:

1. New Substation land has been approved by cabinet of Government of Kerala. Work has started on the new land. However lease agreement is pending due to conditions imposed in lease agreement which is against the terms of the TSA.
2. EPC Partner has been taken on board
3. Design and Engineering work completed 99.06% and balance is in process
4. Applied for permanent / construction power connection.
5. Civil foundation work for 400 kV & 220 kV GIS building completed
6. Firewall, Oil tank, Indoor cable Trench, FFPH building, Tower Foundation work in progress.
7. Major equipment like ICT, Reactor, GIS , PEB structure received at site
8. Erection team for building erection mobilised at site.
9. 2 nos Reactor shifted on foundation plinth, other reactor & ICT dragging in process.

Constraints / approval; if any:

1. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of 2nd and 3rd wave of COVID-19.
2. DC(Dakshina Kannada & Udupi Districts) order for Land Compensation finalization is pending.
3. In Kerala Farmers has formed committee and asking for higher compensation of land and surface damage.

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.
6. On 16.02.2022, M/s UKTL has submitted letter to Add. Chief Secretary seeking support from Govt. of Kerala for working permission at government identified land – 400kV substation.
7. UKTL vide letter dated 25.04.2022 to District Collector -Kasaragod has sought some clarification/queries related to land lease Agreement prior to further processing. Response awaited.

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	: 84.82%
Equipment supplied	: 97.2%
Equipment erection	: 86.09 %
Scheduled COD	: 11 th Nov 2022/ Feb'23
Anticipated COD	: 11 th Nov 2022

Current Status:

1. A meeting was held between UKTL and UPCL for document sharing and start of Bay extension work.
2. Design and Engineering work completed
3. Construction work is in progress.

4. All foundation work completed. Equipment erection completed. Jumpering work completed
5. CRB & SPR building completed
6. Cable laying 75% Completed., Equipment Testing WIP

Constraints / approval; if any:

Delay in Land Lease processing from UPCL to UKTL for Land parcel under UPCL premise as per TSA

11. 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	: 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
Levelized 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	:
Scheduled Date of Completion	: Part-A : Oct-22, Part-B : Apr-23, Part-C : Dec-23 & Dec-22, Part-D : Jun-23

*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.

Part A - 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	: 34.7 CKm
Locations	: 51 nos
Foundation completed	: 51 nos
Tower erected	: 51 nos
Stringing completed	: 34.7 Ckm
Scheduled COD	: 23 Oct'22
Anticipated COD	: 29 Jun'22 (Charging Completed)

Part B - 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 / Ambethi (Vapi – II)

Land Acquired	: 100 %
Civil work completed	: 0 %
Equipment supplied	: 93%
Equipment erection	: 0 %
Scheduled COD	: 22-Apr-2023
Anticipated COD	: Dec-22

Current Status:

- a) Land for construction of substation has been procured- Sale deed completed, mutation rejected by SDM, reappeal filed on 17.06.2022 at DC Valsad. DC hearing held on 29.06.2022, second hearing held on 27-07-2022 and next hearing scheduled on 24-08-2022.
- b) LOA has been awarded to EPC.

c) Boundary work started with police protection, and it is on hold due to non-availability of police protection. Police protection awarded on 02.07.2022. Payment process completed. Dates to be finalized for police protection on substation site.

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.
3. 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.
4. Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19 .
5. Facing Severe RoW issues in the Substation land by the local villagers. Locals meeting hearing is scheduled on 10 May'22.
6. CLU obtained for 10.165 acres, however facing severe ROW issues and not able to start the work. Boundary wall Work started with police protection from 11 Apr'22, however police protection was withdrawn and awaited since 19 Apr'22.
7. The construction of Greenfield Sub station at Village-Goima, Tehsil- Pardi, District- Valsad is stalled by the village leadership from 23-03-2021. Land has been purchased & CLU has been obtained.
8. CEA wrote letter to District Collector, Valsad on 23.09.2021 to extend necessary support to project developer. As per the directive from Hon'ble Minister of Finance, Energy & Petrochemicals, GoG three alternative government land parcels in another villages are shown by District Administration for Substation construction. Technical Feasibility Report is submitted to District Administration on 08-11-2021. Based on Technical Feasibility Report, one new land parcel details shared with VNLTl on 01-12-2021 for substation construction. Alternative new land has been also explored for technical feasibility and subsequently new land purchased by VNLTl.
9. New substation land registration completed on 14-03-2022 at sub registration office Pardi, mutations was processed on 25-03-2022. final hearing for mutation completed, mutation rejected by SDM, reappeal filed on 17.06.2022 at DC Valsad. DC hearing held on 29.06.2022. Second hearing held on 27-07-2022 and next hearing scheduled on 24-08-2022.
10. District Administration support needed to start the construction work at new Goima land.

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.
5. JS(Trans), MoP vide its DO letter dated 09th May 2022, to CS, GoG requested to direct concerned State Govt Officers and District Administration(s) for resolution Substation land issues at Goima village in district Valsad in time bound manner.
6. Substation land issue was reviewed and discussed with Member(PSPM), CEA during review meeting of issues related to TBCB projects held on 20.06.2022, JS(trans) MoP during PMG review meeting held on 23.06.2022 and Secretary (Power), MoP during PMG review meeting held on 29.06.2022.
7. CEA vide letter dated 28.06.2022 to DC, Valsad requested to intervene and extend necessary support including Police Protection.
8. Secretary (Power), MOP vide letter dated 06.07.2022 to Sh. Pankaj Kumar, CS, Govt of Gujarat has requested to direct concerned State Government and District Administration Officers for resolution of issue.

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

Length	: 13.8 CKm
Locations	: 19 nos
Foundation completed	: 0 nos
Tower erected	: 0 nos
Stringing completed	: 0 Ckm
Scheduled COD	: 22-Apr-2023
Anticipated COD	: Oct-22

Current Status:

- a) Detailed Survey Completed for earlier line, now substation is shifted according to that detail survey to be done,
- 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	:
Forest area (Ha)	:
Forest proposals submitted on	:
Current status	:

Wildlife area

Details of Tr. Line Falling under Forest	: N/A
Locations	:
Wildlife area (Ha)	:

Wildlife proposals submitted on :
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 : Yes
Proposal submitted to BSNL : Yes
Proposal submitted to Railways : Yes
Current status : Registration completed in CEA and marking
completed file forwarded to SDE PTCC,
Ahemdabad

Defence/Civil Aviation

Proposal submitted to : Proposal submitted
Defence/Civil Aviation
Current Status : Defence Aviation : NOC received
Civil Aviation : NOC received

4. 125 MVar bus reactor at Vapi – II Substation

Land Acquired : N/A
Civil work completed : 0 %
Equipment supplied : 100%
Equipment erection : 0 %
Scheduled COD : 22-Apr-2023
Anticipated COD : Mar-23

Current Status: LOA has been awarded to EPC

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

Length	: 45.2 CKm
Locations	: 74 nos
Foundation completed	: 39 nos
Tower erected	: 40 nos
Stringing completed	: 0 CKm
Scheduled COD	: 22-Apr-2023
Anticipated COD	: Feb-23

Current Status:

- a) Detailed Survey Completed / Line shifting detail survey pending
- 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. Demand note received, payment done and working permission awaited.

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 on	: DNH : 19 Jan'21, Hard copy submission Gujarat : 06 Jan'21, Hard copy submission
Current status	: DNH : Stage-1 and working permission received. Gujarat : Stage-2 and working permission Received

Wildlife area

Details of Tr. Line Falling under Forest	:
Locations	: 5 nos ; Length : 1.6 Kms
Wildlife area (Ha)	: 4.388 Ha
Wildlife proposals submitted on	: DNH : 23 Mar'21,
Current status	: Stage-I and working permission received.

Power line crossing

Total no. of crossings	: 9 nos
Proposal submitted	: 9 nos
Approval obtained	: 9 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	: 1 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, Reregistration completed in CEA and marking completed, file has been forwarded to SDE PTCC, Ahmedabad. File forwarded to CEA on 06-07-2022 for IV calculations.

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation	: Proposal submitted
Current Status	: Defence Aviation : NOC received Civil Aviation : NOC received

Part C - 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	: 140 CKm
Locations	: 205 nos
Foundation completed	: 8 nos
Tower erected	: 1 nos
Stringing completed	: 0 Ckm
Scheduled COD	: 22-Dec-2023
Anticipated COD	: 22-Dec-2023

Current Status: Detailed Survey completed

Constraints / Approval; if any:

1. Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19.
2. Delay in start of execution activities due to involvement of various utilities;

- i. Lodha Group – 16 locations
- ii. Kirawali Toll Plaza – 7 locations
- iii. MIDC: 7 locations

Forest area

Details of Tr. Line Falling under Forest	:	
Locations	:	58 nos ; Length : 20.329 Kms
Forest area (Ha)	:	112.56 Ha
Forest proposals submitted on	:	MH : 03 Jun'21, Hard copy submission
Current status	:	At Nodal DFO Thane

Wildlife area

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

Power line crossing

Total no. of crossings	:	19 nos
Proposal submitted	:	17 nos
Approval obtained	:	14 nos

Railway crossing

Total no. of crossings	:	4 nos
Proposal submitted	:	1 nos
Approval obtained	:	1 nos

National Highway / SH Crossing

Total no. of crossings	:	5 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 yet to submit

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation	:	Civil Aviation submitted
Current Status	:	Defence Aviation Proposal yet to submit

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

Length	: 38 CKm
Locations	: 60 nos
Foundation completed	: 0 nos
Tower erected	: 0 nos
Stringing completed	: 0 Ckm
Scheduled COD	: 22-Dec-2023
Anticipated COD	: 22-Dec-2023

Current Status: Detailed Survey completed.

Constraints / Approval; if any:

1. Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19.
2. Delay in start of execution activities due to involvement of various utilities;
 - i. CIDCO (NAINA) – 8 locns
 - ii. CIDCO (NMSEZ) – 11 locns
 - iii. MIDC – 7 locns

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 on	: MH : 03 Jun'21, Hard copy submission
Current status	: At Nodal DFO Thane

Wildlife area

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

Power line crossing

Total no. of crossings	: 3 nos
Proposal submitted	: 2 nos
Approval obtained	: 2 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 submitted
Current Status	: Defence Aviation Proposal yet to submit Civil Aviation under scrutiny at authority

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	: 4.8 CKm
Locations	: 8 nos
Foundation completed	: 0 nos
Tower erected	: 0 nos
Stringing completed	: 0 Ckm
Scheduled COD	: 22-Dec-2022
Anticipated COD	: 22-Dec-22

Current Status: Detailed Survey completed

Constraints / Approval; if any:

1. Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19.
2. Delay in start of execution activities due to involvement of various utilities;
 - i. CIDCO (NAINA) – 8 locns

Status of statutory approvals:

Forest area

Details of Tr. Line Falling under Forest	: N/A
Locations	:
Forest area (Ha)	:
Forest proposals submitted on	:
Current status	:

Wildlife area

Details of Tr. Line Falling under Forest	: N/A
Locations	:
Wildlife area (Ha)	:
Wildlife proposals submitted on	:
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	: No
Current Status	: Proposal is yet to submit

Part D - 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	: 61.06 CKm
Locations	: 91 nos
Foundation completed	: 68 nos

Tower erected	: 41 nos
Stringing completed	: 0.846 Ckm
Scheduled COD	: 22-Jun-2023
Anticipated COD	: March-23

Current Status:

- a) Detailed Survey of Assam portion and Arunachal portion has been completed.
- b) FDP Proposal of Assam and Arunachal portion has been submitted

Constraints / Approval; if any:

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 .
3. DC Papum Pare vide letter dated 20.06.2022 has asked us to relocate 3 Foundations (viz, tower no. 27, 28 & 28/1) at Buka Village. TSP has already received the forest clearance for existing locations. However, this shifting will push all these Foundations to a fresh forest area and require forest clearance under FC Act. Revised Forest proposal will take around 10- 12 months to get approved and will delay the Project to commission within stipulated timeframe of SCOD.

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	:	39 Nos ; Length : 12.957 Kms
Forest area (Ha)	:	34.983 Ha
Forest proposals submitted on	:	Assam : 6 Dec '21, Hard copy submission Arunachal : 5 Apr'21, Hard copy submission
Current status	:	Assam : Stage_I Approval Received on Dtd 30.03.2022. Working Permission issued on 15.06.2022. Arunachal : Stage-I received on dtd. 09 Dec'21, Working Permission issued on dtd. 07-Jan-22 Draft proposal for additional forest submission of 3 Nos. Location , Length 1.5Km and Total Area 3.551 Ha is ready for online submission.

Wildlife area

Details of Tr. Line Falling under Forest	:	N/A
Locations	:	

Wildlife area (Ha)	:
Wildlife proposals submitted on	:
Current status	:

Power line crossing

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

Railway crossing

Total no. of crossings	:	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	:	Submitted
Proposal submitted to BSNL	:	Submitted
Proposal submitted to Railways	:	Submitted
Current status	:	Provisional clearance received on 13.06.2022 and final approval shall be accorded on receipt of IV Calculation for railway by AEGCL. Expected by 1st week of August 22.

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation	:	Yes
Current Status	:	Approval received for Civil Aviation Approval received for Defence Aviation.

9(a). Status of 2 no. 132 kV line bays at North Lakhimpur end

Land Acquired	:	S/s Land shared with M/s Siemens
Civil work completed	:	79.50%
Equipment Supplied	:	96.43%
Equipment Erection	:	1 %
Scheduled COD	:	22-Jun-2023
Anticipated COD	:	Sept-22

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

Length	: 33.26 CKm
Locations	: 57 nos
Foundation completed	: 0 nos
Tower erected	: 0 nos
Stringing completed	: 0 Ckm
Scheduled COD	: 22-Jun-2023
Anticipated COD	: Mar-23

Current Status: Detailed Survey completed

Constraints / Approval; if any:

1. Delay in execution of the project due to emergency measures imposed to curb the spread of COVID-19.
2. Delay in Monopole Installation Approval in PGCIL Substation, Nirjuli: In principle approval has been received from PGCIL for Installation of 1 No. of Monopole inside the 132kV Nirjuli substation boundary. But final approval kept under hold by PGCIL since 18.05.2022, on ask of Monopole Design Parameters. The design is intellectual property of STERLITE POWER and can't be shared with PGCIL however it has been declared that design is as per Reliability Level 3. Early approval from PGCIL is required.

Status of statutory approvals:

Forest area

Details of Tr. Line Falling under Forest	:
Locations	: 37 nos ; Length : 11.463 Kms
Forest area (Ha)	: 30.95 Ha
Forest proposals submitted on	: Arunanchal : 25 May'21, Hard copy submission
Current status	: Tree cutting permission received on 12.05.2022

Wildlife area

Details of Tr. Line Falling under Forest	: N/A
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Power line crossing

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

Railway crossing

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

National Highway / SH Crossing

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

River Crossings

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

PTCC approval

Proposal submitted to Defence : Submitted
Proposal submitted to BSNL : Submitted
Proposal submitted to Railways : Submitted
Current status : IV calculation for BSNL & Railway is in progress with AEGCL & expected by 1st Week of August 22.

Defence/Civil Aviation

Proposal submitted to : Submitted
Defence/Civil Aviation
Current Status : NOC Received for Civil Aviation.
NOC received for Defence Aviation.

12. 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	: 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)	: 2314
Levelized 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	: Oct'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	: 669.5 CKm
Locations	: 812 nos
Foundation completed	: 787 nos
Tower erected	: 763 nos
Stringing completed	: 516.76 Ckm
Scheduled COD	: 31-Dec-2020. /Aug'21*
Anticipated COD	: Oct-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 51 locations (Morbi-39, Vadodara-12)
- vii. GOG has issued land compensation guideline for line corridor @ 15%.
- viii. The work has been completed in all 6 Government locations of Halvad Taluka in Morbi district
- ix. 3 cases in High court and 113 cases in Civil/District court are ongoing.
- x. 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.
- xi. Re-routing of line as per directions of the Western Railways, GETCO & NHRCL.
- xii. PTCC approval received.
- xiii. Police protection required in 12 locations for stringing in Vadodara.
- xiv. Morbi: 6 locations on hold due to case in High court. Order expected by 02-Aug-22. 16 locations RoW clearance balance for foundation. RoW clearance for 39 locations are balance for Erection.

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.
8. Reviewed by CEA during meeting held on 20.06.2022

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 Forest	:	
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	: 31 nos
Proposal submitted	: 31 nos
Approval obtained	: 30 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	: Approval received

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation	: 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	: 100 %
Equipment erection	: 96 %
Scheduled COD	: 31 st Dec'2020/Aug'21*
Anticipated COD	: Oct'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.

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	: 100 %
Equipment erection	: 84%
Scheduled COD	: 31 st Dec'2020/Aug'21*

Anticipated COD : Oct'22

Constraints/Approval if any:

1. Delay due to outbreak of 1st, 2nd and 3rd wave of COVID-19.
2. Delay due to unavailability of encumbrance free land to be provided by Adani. Adani has communicated on 26.07.2022 that they have obtained clear title over the land. LVTPL is mobilizing its manpower to complete the work.
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*

Anticipated COD : Oct'22

13. Name of transmission project - Establishment of new 220/132kV substation at Nangalbibra

Background -

Scope of transmission project

1. Establishment of new 220/132kV, 2x160MVA substation at Nangalbibra
2. Extension at 220kV GIS in Bongaigaon (POWERGRID) 400/220kV S/s: 2 No. of GIS line bays for termination of Bongaigaon (POWERGRID) – Nangalbibra 400kV D/c line (initially operated at 220kV)
3. Extension at Hatsinghmari (Assam) S/s: 2 No. of 132kV line bays for termination of Hatsinghmari (Assam) – Ampati (Meghalaya) 132kV D/c line
4. Extension at Ampati (Meghalaya) S/s: 2 No. of 132kV line bays for termination of Hatsinghmari (Assam) – Ampati (Meghalaya) 132kV D/c line
5. Bongaigaon (POWERGRID) – Nangalbibra 400kV D/c (Twin ACSR Moose) line (initially operated at 220kV)
6. Hatsinghmari (Assam) – Ampati (Meghalaya) 132kV (Single ACSR Panther) D/c line

General Details

Special Purpose Vehicle	: Nangalbibra-Bongaigaon Transmission Limited (Sterlite Grid 26 Limited; a subsidiary of Sterlite Power Transmission Limited)
Bid Process Coordinator (BPC)	: Power Finance Corporation Consulting Ltd.
Estimated Cost (Rs. Crs)	: 560
Levelized Tariff (Rs. Crs)	: 55.9
Request for Qualification	: NA
Request for Proposal	: 04.02.2021
Letter of Intent	: 16.12.2021
Transmission Service Agreement (TSA)	: 06.07.2021
SPV acquisition	: 16.12.2021
Transmission License by CERC	: 28.07.2022
Tariff adoption by CERC	: 27.05.2022
Contract Performance Guarantee	: 16.12.2021
Clearance u/s 164	: Under Progress
Execution plan submitted to CEA	: -
NIT issued on	: -
EPC contract awarded on	: Nov-2021
Scheduled Date of Completion	: Dec-2023

Status of progress of transmission project

1. Bongaigaon (POWERGRID) - Nangalbibra 400kV D/c (Twin ACSR Moose) line (initially operated at 220kV)

Length	: 245 CKm
Locations	: 308 nos
Foundation completed	: 21 nos
Tower erected	: 0 nos
Stringing completed	: 0 ckm
Scheduled COD	: Dec'23

Anticipated COD : Dec'23

Constraints/Approval if any:

1. Non-Visibility of construction of downstream for New Nangalbibra SS (NBTL) in the scope of MePTCL.
2. Incessant rains have rendered it difficult for movement of men.

Details of follow-up actions:

1. Issue was reviewed by CEA during meeting held on 20.06.2022.

Status of statutory approvals:

Forest area

Details of Tr. Line Falling under Forest	:	
Locations	:	63nos ; Length : 20.58kms
Forest area (Ha)	:	93.188Ha
Forest proposals submitted on	:	Assam-28.02.2022, Meghalaya-15.05.2022
Current status	:	Assam-Tree enumeration in progress, Meghalaya- Tree enumeration in progress

Wildlife area

Details of Tr. Line Falling under Forest	:	NIL
Locations	:	NIL
Wildlife area (Ha)	:	NA
Wildlife proposals submitted on	:	NA
Current status	:	

Power line crossing

Total no. of crossings	:	13
Proposal submitted	:	11
Approval obtained	:	3

Railway crossing

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

National Highway / SH Crossing

Total no. of crossings	:	8
Proposal submitted	:	6
Approval obtained	:	0

River Crossings

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

PTCC approval

Proposal submitted to Defence	: No
Proposal submitted to BSNL	: No
Proposal submitted to Railways	: No
Current status	: Survey work in progress

Defence/Civil Aviation

Proposal submitted to	: Civil aviation submitted
Defence/Civil Aviation	
Current Status	: Defense Aviation Proposal yet to submit Civil Aviation under scrutiny at Authority

2. Hatsinghmari (Assam) – Ampati (Meghalaya) 132kV (Single ACSR Panther) D/c line

Length	: 37 CKm
Locations	: 57 nos
Foundation completed	: 0 nos
Tower erected	: 0 nos
Stringing completed	: 0 Ckm
Scheduled COD	: Dec'23
Anticipated COD	: Dec'23

Constraints/Approval if any:**Details of Follow-up actions:****Status of statutory approvals:****Forest area**

Details of Tr. Line Falling under Forest	: N/A
Locations	: 0 nos ; Length : 0 Kms
Forest area (Ha)	:
Forest proposals submitted on	:
Current status	:

Wildlife area

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

Power line crossing

Total no. of crossings	: 0
Proposal submitted	: N/A
Approval obtained	: N/A

Railway crossing

Total no. of crossings	: 0
Proposal submitted	: N/A
Approval obtained	: N/A

National Highway / SH Crossing

Total no. of crossings	: 0
Proposal submitted	: N/A
Approval obtained	: N/A

River Crossings

Total no. of crossings	: 0
Proposal submitted	: N/A
Approval obtained	: N/A

PTCC approval

Proposal submitted to Defence	: No
Proposal submitted to BSNL	: No
Proposal submitted to Railways	: No
Current status	: Proposal Yet to submit

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation	: Civil Aviation submitted
Current Status	: Defence Aviation Proposal yet to submit Civil Aviation under scrutiny at Authority

3. Establishment of new 220/132kV, 2x160MVA substation at Nangalbibra

Land Acquired	: Work in progress
Civil work completed	: 0 %
Equipment supplied	: 0 %
Equipment erection	: 0 %
Scheduled COD	: Dec'23
Anticipated COD	: Dec'23

Constraints/Approval if any:

Support required from Revenue Minister-Meghalaya for acquisition of S/S Land in Vill-Nengkhra, Distt. East Garo Hills, Meghalaya. File has been moved from Revenue Secretary to Revenue Minister (Govt. of Meghalaya).

Details of Follow-up actions:

4. Extension at 220kV GIS in Bongaigaon (POWERGRID) 400/220kV S/s: 2 No. of GIS line bays for termination of Bongaigaon (POWERGRID) – Nangalbibra 400kV D/c line (initially operated at 220kV)

Land Acquired	: Space will be provided by PGCIL
Civil work completed	: 0 %
Equipment supplied	: 0 %
Equipment erection	: 0 %
Scheduled COD	: Dec'23

Anticipated COD : Dec'23

Current Status:

5. Extension at Hatsinghmari (Assam) S/s: 2 No. of 132kV line bays for termination of Hatsinghmari (Assam) - Ampati (Meghalaya) 132kV D/c line

Land Acquired	: Space will be provided by AEGCL
Civil work completed	: 0 %
Equipment supplied	: 0 %
Equipment erection	: 0 %
Scheduled COD	: Dec'23
Anticipated COD	: Dec'23

Current Status:

6. Extension at Ampati (Meghalaya) S/s: 2 No. of 132kV line bays for termination of Hatsinghmari (Assam) – Ampati (Meghalaya) 132kV D/c line

Land Acquired	: Space will be provided by MePTCL
Civil work completed	: 0 %
Equipment supplied	: 0 %
Equipment erection	: 0 %
Scheduled COD	: Dec'23
Anticipated COD	: Dec'23

Current Status:

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

Background

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

Scope of transmission project

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

765 kV bay requirement (in Warangal)

Line bays: 06 No.

Transformer bays: 02 No.

Space for future line bays: 06 No.

400 kV bay requirement (in Warangal)

Line bays: 02 No.

Transformer bays: 02 No.

Space for future line bays: 08 No.

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

General Detail

Special Purpose Vehicle (SPV)	:	Warora Kurnool Transmission Ltd. (A subsidiary of 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	:	Jan '23

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 : 91%
- Equipment supplied: : 88%
- Erection works : 87%
- Schedule completion : Nov'19
- Anticipated completion : Jan '23

Constraints where Project Authority requires intervention:

- a) Covid-19: 2nd wave & 3rd wave of Covid-19 has affected progress.
- b) Unexpected high monsoon has affected site work badly.
Bay- shutdown for carrying out stringing in Warora-Warangal bay on 14th to 19th May was deferred in OCC meeting. Further, Shutdown finalised on 19.07.2022 but could not be availed due to heavy wind and continuous rainfall.
- c) Advance Monsoon by 1 week is hampering work at site. Heavy untimely rainfall since 2nd of July which is still continuing, has hampered the work badly. Various, Orange and Yellow alerts were issued by IMD in the month. Even transportation of heavy equipments like Reactor and Transformer has hampered 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: 815 nos.
- Tower erected: 630 nos.
- Stringing completed: 65.6 ckm
- Schedule completion: Nov'19
- Anticipated completion Jan '23

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
Mancherla District, Telengana State: AP58
Kumuram Bheem Asifabad – 78/0
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 but without villagers. On 31.03.2022 meeting held with farmers in SDM- Warora Office, where in some details regarding compensation payment/farmers/locations etc. were sought by SDM. These details are under preparation and was submitted on 08.04.2022.

Order towards compensation received from the respective SDM, Warora for the balanced 6 locations on 27/05/2022. However, owners are not agreeing on the compensation finalised. As such application under section-16 submitted to the DC, Chandrapur on 30/05/2022. Hearing conducted on 19/7/2022 at DM Office Chandrapur. Next hearing is scheduled on 2/8/2022

Order for the balance 4 location from SDM, Wani received on 08.06.2022 with details of compensation payment to be made. Payment made, however because of continuous rain and location being non-approachable, police protection was availed for only one day.

Critical Row is being faced in following locations and support from administration has been sought :

1. Loc No 71 & 72 (Railway crossing locations)- District Asifabad.
 2. Loc No 58/2, 58/3 and 58/4 - District Manchar.
 3. Loc No 32/0- District Karimnagar.
 4. Loc No 5/0 & 5B/1- District Warangal
- 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. Presently, Work is on hold because of Injunction granted.

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.

No hearing is being done in court because of summer vacations.

- d) Heavy untimely rainfall since 2nd of July which is still continuing, has hampered the work badly. Various, Orange and Yellow alerts were issued by IMD in the month. Even supply of tower material, conductor and transportation of construction material like Cement, Steel and aggregates have been impacted badly.
- e) Because of flooding of Godavari river before the anticipated month (Generally in October), the work of piling commenced from July was forced to be abandoned. The situation is still continuing.
- f) **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.

- d) **Covid-19:** The 2nd & 3rd wave of Covid-19 has affected the progress.
- e) **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. Approval for Dead End tower outside S/s boundary has been approved by PGCIL
- f) 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.
- g) Water level in Godavari was expected to be receded from November end. However, because of unexpected heavy rainfall, water is still increasing as such hampering our piling work.
- h) **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 initiated 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 Mancheril 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 memebbers 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. Form -1 received and submitted to forest department. Presently,in principal working permission received from PCCF on 26th Feb'22, Telanagana state with a condition to sign an agreement with respective DFOs before commencement of work.

Working permission received for all the three divisions. Awaiting tree cutting by the department. Foundation work commenced where no trees are available.

Tree Cutting yet to commence. Stage-2 for Telangana forest received on 20th May 2022. Tree Cutting completed in Bellampally & Asifabad area. Tree cutting is pending in Pedapally.

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 Maharashtra + 47.592 ha (7.103 Kms) in Telangana
Forest proposals submitted on	:	Maharashtra- 04-08-17, Telangana - 23-08-17
Current status	:	Maharashtra – Stage I received on 05-02-18. and working permission received on 05-10-2021. Stage -2 received on 08 th March 2022.

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 received on 26th February 2022.** Stage -2 received on 20th May 2022.

Wildlife Clearance

Details of Tr. Line Falling under Wildlife:-

Locations	:	01 No.
Length	:	0.465 Kms
Forest area affected (ha)	:	3.1142 ha (0.465 Kms) in Telangana
Forest proposals submitted on	:	Telangana – 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	:	21 nos.

Railway crossing

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

National Highway Crossing

Total no. of crossings	:	05 nos.
Proposal submitted	:	05 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

Bay extension work at PGCIL Pooling station at Warora:

Outage required for stringing of main bus- 1 of Warangal dia-1 from T1 tower beam to existing PowerGrid beam was requested in the OCC meeting and got approved in OCC meeting 555 for dated 14/06/2022. The same was deferred because of some system constrains. The revised outage date was 21/06/2022 but that also got deferred because of system issues. The work of stringing and equipmnt erection is being held up for non-availability of outage of main Bus-1. Shutdown finalised on 19.07.2022 but could not be availed because of heavy wind and continuous rain.

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: 335 nos.
- Tower erected: 329 nos.
- Stringing completed: 149.35 ckm
- Schedule completion: Nov'19
- Anticipated completion: Jan '23

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, 23/3, 24A/7, 25/0, 26/0, 27/7, 31/0, AP34-AP 35, AP37-AP38

Rangareddy District, Telengana State: AP 41- AP 42, 42/2, 44/0, 46B/0, 53/0 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.

Critical RoW is being faced at 7 locations, 03 nos. in Rangareddy and 04 nos. in Yadadri Bhuwangiri district of Telanaga wherein Administration's continuous support is required to complete the work.

Heavy untimely rainfall since 2nd of July which is still continuing, has hampered the work badly. Various, Orange and Yellow alerts were issued by IMD in the month. Even supply of tower material, conductor and transportation of construction material like Cement, Steel and aggregates have been impacted badly.

- 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. Hearing was done on 21-06-2022. Next date of hearing is awaited.

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, This petition was dismissed by Hon'ble court for default on 22.03.2022 and now matter has been taken with concerned administration to provide police protection as NCL is still not allowing to proceed with the work. Administration support from Yadadri Bhuvangiri is required.

Writ Petition no. 13172 of 2022 filed in Hon'ble High Court of Telangana by land owner of loc. no. 17/3 of 765 kV D/C Warangal – Hyderabad Line. Hon'ble High Court has granted the stay on work.

- 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 : 16 nos.

Proposal submitted : 16 nos.

Approval obtained : 15 nos.

Railway crossing

Total no. of crossings : 01 nos.

Proposal submitted : 01 nos.

Approval obtained : 01 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: 92 nos.
Tower erected: 56 nos.
Stringing completed: 00 nos.
Scheduled COD: Nov'19
Anticipated COD: Jan '23

Constarints where Project Authority requires intervention:

- a) **Covid-19:** The 2nd wave of Covid-19 has affected the progress.
- b) New 132 kV line by TS TRANSCO has utilised TSP's proposed corridor especially Railway crossing. Impact of the same is being carried out.
- c) Villagers of Village Mogilicherla and Dharmaram (Section 17/0 – 20/0) are not allowing to carry out even check survey. They were demanding shifting of line. **District** Warangal State Telangana. Support from administration has been sought and same is awaited. Further, meeting with the concerned RDO and the villagers held on 28th April'22 and meeting with the local MLA is under process for amicable solution. No resolution as on date various meetings happened with administration, villagers, local leaders and police department.
- d) Writ Petition no. 26497 of 2022 has been filed by 34 landowners in Hon'ble High Court of Telangana State.
- e) Work in two villages is being executed with support of Administration (police deployment of about 200+ police personnel). Work is under progress.
- f) Heavy untimely rainfall since 2nd of July which is still continuing, has hampered the work badly. Various, Orange and Yellow alerts were issued by IMD in the month. Even supply of tower material, conductor and transportation of construction material like Cement, Steel and aggregates have been impacted badly.
- g) Court Case: Writ Petition no. 26497 of 2022 has been filed by 34 landowners in Hon'ble High Court of Telanagana State. vide WP-26497/2022. Hearing scheduled on 11.07.22, 18.07.22, 28.07.22, 29.07.22, got postponed and is yet to be heard.

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	:	01 no.
Approval obtained	:	00 no.

National Highway Crossing

Total no. of crossings	:	02 nos.
Proposal submitted	:	02 nos.
Approval obtained	:	01 nos.

River Crossings

Total no. of crossings	:	Nil
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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:	Submitted

Defence/Civil Aviation

Current Status: Defence – Approval Obtained

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

- Length: 337 ckm
- Locations: 431 nos.
- Foundation completed: 430 nos.
- Tower erected: 425 nos.
- Stringing completed: 303.32 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 District, Telangana State: AP 27-AP 29 , 41/0, 50/14
Kurnool District, Andhra Pradesh State: AP 60A– AP 60B, AP 66 – AP 67. Rangareddy district: 5/1; 9/0; 12/4 and 25/1 . Letter for Police protection is awaited. Final notice to the landowner was sent by the RDO, Kandkur/Talakondapally on 10/05/2022.
- 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 post which joint site inspection for the same was completed, NOC from TSIICL is awaited.
- c) **Covid-19:** Work progress affected due to Covid-19.
- d) Water level in Krishna was expected to be receded from November end. However, because of unexpected heavy rainfall, water is still increasing as such hampering our piling work.

- e) **Court Case:** Writ Petition no. 9959 of 2022; 3827 of 2022, 4403 of 2022 and 34107 of 2018 and 25430 of 2022 has been filed by landowners in Hon'ble High Court of Telanagana State. Injunction order for the WP-25430/2022 was issued by Hon'ble High court. The date of hearing is scheduled on 01.08.2022.

Writ Petition no. 8333 This petition was dismissed by Hon'ble court for default on 29.04.2022 and now matter has been taken with concerned administration to provide police protection. Petitioner has approached division bench for necessary injunction.

Writ Petition no. 9959, this petition was dismissed by Hon'ble court On 17/6/2022.

- f) Heavy untimely rainfall since 2nd of July which is still continuing, has hampered the work badly. Various, Orange and Yellow alerts were issued by IMD in the month. Even transportation of Conductor, Towers and construction material to site has been impacted badly.
- g) River Krishna was flooded unexpectedly and hence after completing 3 piling, the work on 4th piling was forced to be abandoned.

Status of statutory approvals:

Forest - Nil

Power line crossing

Total no. of crossings	:	21 nos.
Proposal submitted	:	21 nos.
Approval obtained	:	21 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	:	01 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: 501 nos.
- Tower erected: 350 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.

Stiff resistance from local land owners at loc no. 30/0, 34A/0, 34A/1, 34B/0, 34C/0 and 35/0 in Suryapetta district of Telanagana state. Administration support is required to complete these locations.

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 affected the progress.

d) Heavy untimely rainfall since 2nd of July which is still continuing, has hampered the work badly. Various, Orange and Yellow alerts were issued by IMD in the month. Even transportation of Conductor, Towers and construction material to site has been impacted badly.

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. Working permission received and work in forest area is in progress.

Power line crossing

Total no. of crossings	:	31 nos.
Proposal submitted	:	31 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	:	03 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

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

Background

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

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

Scope of Transmission project

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

General Details

Special Purpose Vehicle (SPV)	:	NRSS XXXVI Trans.Ltd (ESSEL)
Bid Process Coordinator (BPC)	:	RECTPCL
Estimated Cost (Rs. Crs.)	:	437
Request for Qualification	:	25.08.2015
Request for Proposal	:	12.11.2015
Date of Letter of Intent	:	29.03.2016
Transmission Service Agreement (TSA)	:	13.01.2016
SPV acquisition	:	22.08.2016
Transmission License by CERC	:	07.12.2016
Tariff adoption by CERC	:	14.12.2016
Contract Performance Guarantee	:	11.08.2016
Clearance u/s 164	:	01.11.2017
Execution plan submitted to CEA	:	20.12.2016
NIT issued on	:	
EPC awarded on	:	20.01.2017
Scheduled Date of Completion	:	June 2019/Dec 2019
Anticipated Date of Completion	:	Dec'24 / Minimum 27 no. of working months required from the date of resolution of CERC Petitions, IDPL -NOC from Uttarakhand State Govt, DFO (Tehri), DFO (Dehradun), Court proceedings etc

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.

Status of progress of transmission project

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

The route alignment & detailed survey is completed.

Tower Package is awarded. Check survey is under progress.

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

Constraints where Project Authority requires intervention:

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

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

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 Uttarakhand State Govt.*

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

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

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

Further, meetings were held in CEA on 9th Feb 2018 and 3rd Apr 2018 on above issue. CEA vide their letter dated 24th Apr 2018 has issued the minutes of meeting endorsing the route submitted by 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 – Koteswar transmission line in IDPL lease area. Accordingly, NRSS XXXVI Trans.Ltd approached on 18.04.2019 to Secretary (Energy), Uttarakhand for seeking unconditional concurrence traversing Rishikesh line through IDPL premises.

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

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

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

Further, 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, Uttarakhand 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.

Option-3: 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 Koteswar – 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 Sec 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.

Project substitution is on advance stage, a hearing was done on 11.01.2022 under the consideration of CERC consisting petition file no 267/MP/2021 and the next hearing was schedule on 15.02.2022.

On 24.02.22 a review meeting was held by CERC against the petition for substitution of NRSS XXXVI Project. The project substitution is approved by CERC in favor of Resurgent Power Pte.

As per the successful substitution of project SPV has transferred to Resurgent Power Pte. And SPA has been signed in between PFS, Essel Infra and Resurgent Power Pte. Site work is schedule to be start in the month of May 2022. NOC from Animal Husbandry Dept. of Uttarakhand is still awaited.

Under the substitution of project Resurgent Power Pte. has acquire 100% shareholding of NRSS XXXVI and site setup is under implementation by Resurgent Power for construction activity which will be start from the month of May 2022. Also the follow up is going on with Uttarakhand State Animal Husbandry Dept. for NOC as recommended by PTCUL vide letter no NRSS XXXVI/DEL/03-2022/02 dated 30.03.2022. In - Principal approval for Gantry Exchange has been received by PTCUL and documentation for engineering related work has been started between PTCUL & NRSS

- **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 execution of above option would be borne by TSP. With above clarifications, Uttarakhand tourism department has now assured 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. Uttarakhand for IDPL NOC so that revised forest proposal can be submitted in compliance to DFO Dehradun letter no.1633 /12-1 Dehradun dated ; 10.12.2018.
- b) 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, Uttarakhand 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 (RRVPL) – 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: In order to get the stage -II approval & work for permission, the Forest Diversion Proposal for Babai – Bhiwani Transmission line, the payment under CAMPA & NPV has been done for the Rajasthan Portion. However for Haryana Portion revised demand note for payment under CAMPA A/c, matter under review with nodal officer FCA Haryana.

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

16. Immediate evacuation for North Karanpura(3x660MW) generation project of NTPC(ERSS-XIX)

Background

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

Scope of transmission project:

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

400 kV

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

220 kV

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

General Details:

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

Clearance u/s 164	:	Authorization on CCL / MoC suggested route received on 05.11.2019 after 80 days from submission.
Execution plan submitted to CEA	:	03.11.2016. Revised Execution plan discussed in meeting with CEA on 23.04.2019.
NIT issued on	:	
EPC contract awarded on	:	
Scheduled Date of Completion	:	30.09.2019
Revised Scheduled Date of Completion	:	As per CERC directive, it is finalized by CEA and in consultation with NTPC.

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

Status of progress of transmission project:

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

- Length (as per revised route): 102 Ckm
- Locations (as per revised route): 115 nos
- Route alignment completed: 102 Ckm
- Detailed survey completed: 102 Ckm
- Foundation completed: 112 nos (revised route)
- Tower erected: 105 nos (revised route)
- Stringing completed: 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 certificate

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 Medininagar 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 frm 15-12-2021 for onward submission respectively. State Govt. Forwarded compliance to IRO, Ranchi on 06-01-22. REC meeting conducted on 14-01-22. Presently in principle Stage-I approval has been received on 17-01-22. Revised demand note from DFO Chatra and Latehar was received on 11.02.2022 and post acceptance from Nodal office on 17.02.2022, NKTL had immediately made payment on 21.02.2022. NKTL has also submitted Stage-1 compliance report to DFO Chatra and DFO Latehar on 23.02.2022 and 24.02.2022 respectively along with undertaking for making payment of Wild Life Management Plan (WLMP) and have requested earliest issuance of working permission.

Presently, Latehar DFO forwarded proposal for working permission and Stage-1 compliance to CF, Medininagar on 11.03.2022. DFO, Chatra South has issued queries vide letter dtd 05.03.2022 (received to NKTL on 20.03.2022) against Stage-1 compliance submitted by NKTL on 23.02.2022. NKTL submitted compliances against the same on 23.03.2022.

Further, Chief Wild Life Warden had called meeting on 25.03.2022 for discussion and finalization of WLMP. Letter from DFO was received on 30.03.2022 for deposit of payment against WLMP. Same was deposited by NKTL on 31.03.2022.

Working permission was recommended by State Govt to Nodal on 12.04.2022. DFO latehar and DFO Chatra South issued working permission on 13.04.2022 and 20.04.2022 respectively.

DFO Chatra South & Latehar had sent recommendation to HPC for issuance of tree cutting permission on 27.04.2022 and 28.04.2022 respectively. HPC recommended issuance of tree cutting permission in meeting held on 02.05.2022. Tree cutting permission has been received for all 4 nos. of villages for Chatra South & Chatra North division by 22.06.2022 & 07.07.2022.

Demand note for 13 nos. of villages under Latehar Forest division has been received from Jharkhand State Forest Development Corporation on 28.07.2022.

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 NK-C 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, 11-11-21, 08-12-21, 19-05-22 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 and to expedite forest approval with all stakeholders. Wherein NKTL requested to expedite issuance of forest clearance for NK-C and NK-G line.

In the last review meeting conducted by Secretary (Power) on 29-06-22 and meeting conducted by CEA on 20-06-22 wherein, NKTL has apprised the status of tree cutting permission for NK-C line and requested support in expediting issuance of demand note from Latehar division.

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.

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

Presently, no work is pending outside the forest areas.

- b) **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. PGCIL informed vide letter dated 06-11-2021 that, foundation work of multi ckt tower completed. rection work of the tower is on verge of completion.

- c) **Pandemic COVID 19:** Work affected due to 1st, 2nd and 3rd Wave of COVID-19.

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: In principle stage-I received on 17-01-2022. Working Permission received from DFO Latehar & DFO Chatra on 13.04.2022 & 20.04.2022 respectively. Tree cutting permission progressively received from 13.05.2022 to 22.06.2022 for all 17 nos. of villages.

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:

Approval obtained

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: 140 nos (on revised route)
- Tower erected: 132 nos (on revised route)
- Stringing completed: 37.3 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. GM JJ Land NOC has been received 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. GM JJ NOC & FRA certificate for additional area has been received from DC, Chatra on 17-01-22. Now, DFO Chatra South has raised query on 05.03.2022 for mismatch in forest area in online and hard copy submitted. NKTL vide letter dtd 09.03.2022 conveyed that, change in forest area can be done at Nodal level not at user agency and requested DFO Chatra South to forward proposal to Nodal Office. DFO Chatra South & DFO Chatra North has requested for change in area to CF Chatra on 30.03.2022 on 19.04.2022 respectively. CF Chatra further requested Nodal, Ranchi for change in area on 19.04.2022. Nodal reverted CF Chatra on 24.05.2022 to process the proposal from DFO level and required changes in forest area in online proposal shall be done when proposal reaches nodal level.

Presently, proposal is with respective DFO (Chatra South, Chatra North) for Part-II compliance.

In 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. Working permission received on 08.02.2022.

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, 11-11-21, 08-12-21, 19-05-22, wherein Secretary (Trans), Ministry of Power has reviewed the Status of TBCB Inter-State Transmission System (ISTS) Projects being developed by private Transmission Service providers and to expedite forest approval with all stakeholders. Wherein NKTL requested to expedite issuance of forest clearance for NK-C and NK-G line.

In the last review meeting conducted by Secretary (Power) on 29-06-22 and review meeting conducted by CEA on 20-06-22, wherein NKTL requested to extend support in expediting forest clearance for NK-G line.

There is severe ROW at 5 Locations at Gaya end being faced. Administrative support sought for resolution of same. Also, taken up in CEA and MoP to extend support in various review meetings. Secretary, MoP has also informed to Chief Secretary, Bihar vide DO letter dated 06-06-22 to extend support for resolution of ROW issues at 5 Nos. Locations at Gaya end.

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

permission. The issue related to delayed in forest proposal also uploaded in PMG portal (Project ID : 22247, Issue ID for Jharkhand State : 7323, Issue ID for Bihar State : 7324 & 8408)

b) **Pandemic COVID 19:** Work affected due to 1st, 2nd and 3rd Wave of COVID-19.

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. Working permission received on 08.02.2022.

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 : 1 no.

National Highway Crossing

Total no. of crossings : 3 nos.

Proposal submitted : 3 nos.

Approval obtained : 3 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

17. Transmission System for Western Region Strengthening Scheme – 21 (WRSS – 21) Part – A – Transmission System Strengthening for Relieving Over Loadings Observed in Gujarat Intra-State System Due to Re-injections in Bhuj PS

Background

Government of India has set a target for establishing 175 GW renewable capacity by 2022 which includes 100 GW Solar, 60 GW Wind generation capacity. This includes wind potential of about 6 GW in Bhuj complex, 2 GW in Lakadia and 1.5 GW in Dwarka. For integration and evacuation of power from generation projects in the above areas, a high 765 kV and 400 kV transmission system interconnecting Bhuj, Lakadia, Banaskantha, Vadodara & Dwarka along with establishment of 765/440/220 kV new substations at Bhuj-II & Lakadia and 400/220 kV new substation at Jam Khambhaliya (Dwarka) have been planned.

The subject transmission scheme involves establishment of 765/400 kV Lakadia Pooling station along with LILO of Bhachau – EPGL 400 kV D/C (triple) line at Lakadia PS and Bhuj PS – Lakadia PS 765 kV D/C line which helps in transfer of power from RE sources in the Kutch area of Gujarat (Bhuj complex) to Lakadia for onward dispersal of power to their respective beneficiaries.

The proposal has been agreed in the 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 MVA, 765 kV,
 - 1x125 MVA, 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	:	Aug'22

- 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: 280 nos

- Tower erected: 280 nos
- Stringing completed: 199.61 ckm
- Schedule completion: 31-12-2020/31-08-2021*
- Anticipated Completion: 31-08-2022

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 than 15% 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 Jantri 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.

Subsequently, Ministry of Power (MoP) and Project Monitoring Group (PMG) conducted meeting on 24.12.2021 with Gujarat State Chief Secretary along administration for Right of Issues wherein it state administration advised to take immediate action for resolution of RoW.

On 31.12.2021, Energy and Petrochemical depart of GoG has issued revised compensation guideline wherein following compensation criteria is defined:

- 1) Corridor compensation to be paid 15% of land value instead of earlier 7.5%.
- 2) Jantri rate shall be compounded by 10% per annum.

Discussion is going on with administration for applicability of revised Guideline issued by GoG dated: 31.12.2021.

Due to above order, work is getting affected since landowners are seeking compensation as per Jantri rate defined in DM/SDM orders and corridor compensation @15% as revised guideline.

At present, work is under progress with Police Protection in balance stringing stretches as facing severe RoW issues, Landowners are demanding undue compensation and obstruct the work.

- c) **Pandemic COVID 19:** Work affected due to COVID-19.
- d) **Change in Law:** CIL notice on account of revised GoG compensation guideline for WRSS have been submitted to LTTC dated 21.02.2022. (Notice for Change in Law under Article 12 of the TSA dated 23rd April, 2019 and Electricity (Timely Recovery of Costs due to Change in Law) Rules, 2021).
- e) **Facing issues of frequent theft of conductor:** Facing issues of frequent Theft of conductor in completed sections which is serious area of concern for that seeking administrative support .

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: 121 nos
- Tower erected: 121 nos
- Stringing completed: 76 ckm
- Schedule completion: 31-12-2020/31-08-2021*
- Anticipated completion: 30-06-2022 (Completed) EI approval received on 06.07.2022, FTC and shutdown approval is awaited for charging of the line.

*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.

(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: 100%
- Civil Works: 96%
- Erection works: 92%
- Schedule completion: 31.12.2020/31-Aug-2021*
- Anticipated completion: 31-08-2022

For 400kV Switchyard Portion, EI approval has received on 06.07.2022. Shutdown is awaited.
For 765kV Switchyard Portion, EI application for charging approval is in preparatory stage.

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

- Schedule completion: 31.12.2020/31-Aug-2021*
- Actual completion: Commissioned on 02.06.2022

18. 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 TCB 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. 2x240MVA switchable Line reactor along with bays at Banaskantha end of Lakadia PS – Banaskantha PS 765kV D/c line and 1x80 MVA, 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	:	Aug'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.

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

- Length: 352 ckm
- Locations: 472 nos
- Schedule completion: 30-06-2021/28-02-2022*
- Anticipated completion: Ckt2 is charged on 07.07.22 & Ckt-1 is charged on 16.07.22 from banaskantha end.

(ii) 765 kv Bay at Lakadia & Banaskantha- 2 no's at each end

- Land acquisition : Completed in PGCIL Scope
- Engineering : 100%
- Civil Works: : 99%
- Equipment supplied : 100%
- Erection works: : All Equipment erection completed.
- Schedule completion: 30-06-2021/28-02-2022*
- Anticipated completion: Banaskantha end bays Charged on 07.07.2022 and Lakadia end anticipated completion is by 31.08.2022.

Equipment foundation work in progress Lakadia SS for 2 no's 765 kV Bays. . EI application for charging approval is in preparatory stage. For Banaskantha end, Bays has commissioned on 05.07.22 to 07.07.22.

(iii) Installation for 7 no's 80 mVAR 765 kV Reactors at Banaskantha , PGCIL SS

- Land acquisition: Completed in PGCIL Scope
- Schedule completion: Jun'21/Feb'22*
- Anticipated completion: Work Completed in Nov-2021 & Commissioning held up on account of non signing of Connection agreement. Connection Agreement signed off on 06.04.2022. Subsequently, Renewal of EI approval received on 15.06.2022 Further, FTC also received. Reactor has commissioned along with bays on 05.07.22 to 07.07.22.

19. 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 Khambhaliya Transco Limited (A subsidiary of Adani Transmission Limited)
Bid Process Coordinator (BPC)	:	REC Transmission Projects Co. Ltd.
Estimated Cost (Rs. crs)	:	INR 394 Cr
Request for Qualification	:	12.01.2019
Request for Proposal	:	13.03.2019
Letter of Intent	:	28.10.2019
Transmission Service Agreement(TSA)	:	23.10.2019
SPV acquisition	:	13.11.2019
Transmission License by CERC	:	24.03.2020
Tariff adoption by CERC	:	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	:	Apr-2022 excluding CGPL element. CGPL element by Aug'22.

- 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)

- Schedule completion : 31.03.2021/30.11.2021*
- Actual completion : Commissioned on 02.04.2022.

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

- Schedule completion : 31.03.2021/30.11.2021*
- Actual completion : Commissioned on 02.04.2022.

Constraints where Project Authority requires intervention:

- OPGW is not available on existing 400kV D/C Bhachau-Essar line because of which JKTL to made interim arrangement for data communication through lease line in order to facilitate power evacuation of RE generators. This arrangement shall be restored once OPGW network made available on existing 400kV D/C Bhachau-Essar line.

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 : 100%
- Equipment supplied : 98%
- Civil Works : 85%

- Erection works : 55%
- Schedule completion : 31.03.2021 /Nov'21*
- Anticipated completion : 31.08.2022

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.

CGPL has stopped the civil work of equipment from 02.03.2022 and asking their approval on civil drawings. Drawings were approved by CGPL, and work was resumed on 23.03.2022. Also, enormous delay in approval of SCADA and SAS drawings from CGPL.

All activities except shutdown related work is completed. Shutdown is being deferred due to grid constraints and loading conditions since last two months i.e., June & July'22.

Due to imposition of various restrictions, pace of work is very slow, which also affect the project completion.

Expected completion by Aug'22 subject to availability of shutdown.

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.

20. Transmission System for Karur Pooling Station (at a location in between Karur Wind zone and Tiruppur wind zone) along with LILO of both circuits of Pugalur – Pugalur (HVDC) 400 kV D/C line (with Quad Moose ACSR Conductor) at Karur PS

Background

Evacuation of Power from RE Sources in Karur/ Tiruppur Wind Energy Zone (Tamil Nadu) (1000 MW)

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. Solar Energy Corporation of India (SECI) in association with MNRE has identified Solar Energy Zones (SEZ) and Wind Energy Zones (WEZ) of 66.5 GW in seven RE rich states (Tamil Nadu, Andhra Pradesh, Karnataka, Gujarat, Rajasthan, Maharashtra and Madhya Pradesh) to be evacuated through ISTS. Out of total 66.5 GW REZs, 18.5 GW (Solar-10 GW & Wind 8.5 GW) of potential has been identified in the states of Tamil Nadu, Andhra Pradesh and Karnataka in Southern Region. The transmission system was evolved for integration of 18.5 GW of identified prioritized SEZs and WEZs in states of Tamil Nadu, Andhra Pradesh and Karnataka with the ISTS network in Southern Region. The transmission system associated with potential RE capacity, based on inputs from SECI/ MNRE has been prioritized for implementation into three phases in the meeting held on 30.08.2019 at CEA, New Delhi. Out of the 18.5 GW REZ in Southern Region, 5.5 GW under Phase-I (Part-II) & 5 GW under Phase-II of the prioritized wind and solar zones has been targeted for completion by Dec'21 and balance 8 GW under Phase-III has been targeted for completion beyond Dec'21.

The proposal has been agreed in the 3rd NCT and 4th ECT meeting held on 21.12.2018 for implementation through TBCB route with a commissioning schedule of June, 2020.

The 2.5 GW wind potential identified in Karur / Tiruppur area of Tamil Nadu has been prioritized under Phase-III for implementation beyond Dec'21. The subject transmission scheme involves establishment of Karur Pooling Station and its interconnection with ISTS grid for evacuation of wind potential from Karur / Tiruppur area of Tamil Nadu. The transmission system has been agreed in the 1st meeting of Southern Region Standing Committee on Transmission (SRSCOT) held on 07.09.2018. The National Committee on Transmission in its 3rd meeting held on 01.03.2019 has recommended the implementation of the subject transmission scheme through TBCB route. The transmission scheme was also deliberated in the 4th meeting of Empowered committee on Transmission held on 12.07.2019. Ministry of Power vide its letter no. 15/3/2018-Trans-Pt (3) dated 15.10.2019 has forwarded the Gazette Notification dated 10.10.2019 appointing PFCCL as BPC for implementation of the subject scheme through TBCB route.

Scope of transmission project:

- A) Establishment of 2x500 MVA, 400/230 kV Karur Pooling Station (at a location in between Karur Wind zone and Tiruppur wind zone)
- B) LILO of both circuits of Pugalur – Pugalur (HVDC) 400 kV D/C line (with Quad Moose ACSR Conductor) at Karur PS
- C) Installation 2x125 MVAR, 420 kV Bus reactors at Karur PS 125 MVAR reactors.

General Detail

Special Purpose Vehicle (SPV)	:	Karur Transmission Limited (A subsidiary of Adani Transmission Limited)
Bid Process Coordinator (BPC)	:	PFC Consulting Limited
Estimated Cost (Rs. crs)	:	
Request for Qualification	:	21.10.2019
Request for Proposal	:	20.02.2020
Letter of Intent	:	22.12.2021
Transmission Service Agreement (TSA)	:	08.11.2021
SPV acquisition	:	18.01.2022
Transmission License by CERC	:	
Tariff adoption by CERC	:	17.05.2022
Contract Performance Guarantee	:	11.01.2022
Clearance u/s 164	:	
Execution plan to CEA	:	05.05.2022
NIT issued on	:	
EPC contract awarded on	:	Mar-2022
Scheduled Date of Completion	:	July-2023
Anticipated completion	:	July-2023

Status of progress of transmission project:

A) Establishment of 2x500 MVA, 400/230 kV Jam Karur PS

- Land acquisition : 50 % procured, soil Investigation planned in 1st Week Aug'22
- Engineering :
- Civil Works :
- Equipment supplied :
- Erection works :
- Schedule completion : July-2023
- Anticipated completion : July-2023

B) LILO of both circuits of Pugalur – Pugalur (HVDC) 400 kV D/C line (with Quad Moose ACSR Conductor) at Karur PS-

- Survey : Commenced
- Schedule completion: July-2023
- Anticipated completion: July-2023

C) Installation 2x125 MVAR, 420 kV Bus reactors at Karur PS 125 MVAR reactors.

- Land acquisition : Under finalization
- Engineering :
- Civil Works :
- Equipment supplied :
- Erection works :
- Schedule completion : July-2023
- Anticipated completion : July-2023

21. Name of Project : Transmission scheme for evacuation of 3GW RE injection at Khavda P.S. under Phase-I

Background :

Govt. of India has set a target to establish 175GW renewable capacity by 2022. To fulfil above target, MNRE/SECI has identified potential Renewable Energy Zone(REZ) comprising Solar & Wind capacity of about 66.5 GW in various renewable resource rich States in the country. Out of 28GW REZs identified in Western Region, 16GW potential has been identified in the state of Gujarat and transmission system has been taken up for implementation for about 3.5 GW REZ (Bhuj-II: 2GW & Jam Khambhaliya 1.5GW) and implementation of Transmission system for Lakadia (2GW) has been deferred due to land issues. For the balance 10.5GW, Govt. of Gujarat has proposed for allocation of land for new RE projects in Khavda area, instead of the already planned pooling stations under ISTS at Lakadia, Jamnagar, Rapar & Radhanesda.

Transmission schemes for Khavda REZ (8GW) were deliberated and finalised in the 1st WRPC(TP) held on 11.01.2020 and in the 3rd NCT meeting held on 26.05.2020 & 28.05.2020. Out of 8GW, 3GW shall be pooled at Khavda under Phase-I and 4.5GW shall be pooled at Khavda under Ph-II. Balance 0.5GW in Khavda region was agreed to be evacuated through dedicated transmission lines of RE developers at existing Bhuj S/s.

The current scheme is for evacuation of 3 GW RE injection at Khavda P.S. under Phase-I. The subject scheme includes establishment of a new 765/400kV, 3x1500MVA & 400/220kV, 2x500MVA substation at Khavda along with Khavda PS (GIS) – Bhuj PS 765 kV D/c line. The scheme will enable integration of 3 GW REZ in Khavda area under Ph-I with Bhuj PS. Beyond Bhuj PS, onward dispersal of power would be through under implementation Bhuj – Lakadia –Banaskantha/Vadodara 765kV D/c corridor.

Scope of transmission project:

- Establishment of 3X1500 MVA 765/400 kV Khavda (GIS) with 1X330 MVAR 765 kV bus reactor and 1X125 MVAR 420 kV bus reactor
 - 765/400 kV, 1500 MVA ICT - 3 Nos.
 - 765 kV ICT bays - 3 Nos.
 - 400 kV ICT bays - 3 Nos.
 - 330 MVAR 765 kV bus reactor -1 No.
 - 125 MVAR 420 kV bus reactor -1 No.
 - 765 kV reactor bay - 1 No.
 - 765 kV line bay - 2 Nos.
 - 400 kV reactor bay - 1 No.
 - 400 kV line bay - 3 Nos.
 - 500 MVA, 765/400 kV Spare ICT - 1 No.
 - 110 MVAR, 765 kV, 1-ph reactor (spare unit) - 1 No.
 - Future Scope: Space for
 - 765/400 kV, ICT along with bays - 5 Nos.
 - 400/220 kV, ICT along with bays- 4 Nos.
 - 765 kV Line bays along with switchable line reactor- 6 Nos.
 - 400 kV Line bays – 7 Nos.

- 220 kV Line bays - 8 Nos.
 - 765 kV reactor along with bays - 2 Nos.
 - 400 kV reactor along with bays – 1 No.
 - 765 kV bus sectionalizer- 1 No.
 - 400 kV bus sectionalizer- 1 No.
- Khavda PS (GIS) – Bhuj PS 765 kV D/c line
 - 2 nos. of line bays each at Bhuj PS for termination of Khavda PS (GIS) – Bhuj PS 765 kV D/c line
 - 765 kV AIS line bays – 2 Nos.

General Detail

Special Purpose Vehicle (SPV)	:	Khavda Bhuj Transmission Limited
(A subsidiary of Adani Transmission Limited)		
Bid Process Coordinator (BPC)	:	PFC Consulting Limited
Estimated Cost (Rs. Cr.)	:	Rs. 1180 Cr.
Request for Qualification	:	NA (Single Stage Bidding)
Request for Proposal	:	06.05.2021
Letter of Intent	:	22.12.2021
Transmission Service Agreement (TSA)	:	14.10.2021
SPV acquisition	:	18.01.2022
Transmission License by CERC	:	
Tariff adoption by CERC	:	10.05.2022
Contract Performance Guarantee	:	Submitted
Clearance u/s 164	:	Application submitted on 24.05.22
Execution plan to CEA	:	Submitted on 10.05.22
NIT issued on	:	
EPC contract awarded on	:	Equipment and Service Order Under Progress
Scheduled Date of Completion	:	Jan 2024
Anticipated completion	:	Jan 2024

As per RPF documents SPV acquisition must be completed within 10 days from issuance of LOI. However, there is delay of 17 days in SPV acquisition. This delay is beyond control of KBTL.

Status of progress of transmission project :

A) Establishment of 3X1500 MVA 765/400 kV Khavda (GIS)

- Land acquisition : Under Process (Land to be recieved on lease basis from Govt. Of Gujarat)
- Engineering : 3 %
- Civil Works :
- Equipment supplied :
- Erection works :
- Schedule completion : Jan-2024
- Anticipated completion : Jan-2024

B) Khavda PS GIS – Bhuj PS 765 kV D/C Line -

- Survey 109/109 completed
- Schedule completion: Jan-2024
- Anticipated completion: Jan-2024

- **2 nos. of line bays each at Bhuj PS for termination of Khavda PS (GIS) – Bhuj PS 765 kV D/c line**
- Land acquisition : Space for Bay re-confirmation awaited from PGCIL
- Engineering : 25%
- Civil Works :
- Equipment supplied :
- Erection works :
- Schedule completion : Jan-2024
- Anticipated completion : Jan-2024

Issues:

- Confirmation of Land hand over from Govt of Gujarat for at Khavda for execution of Substation Works. (letter no. KBTL/2402202/01, dated 24.02.22 submitted to Chief Project Officer, GPCL, Gandhinagar, Gujarat)

Status: Subsequent to KBTL's letter dt 07-04-22 to Dist. Collector Bhuj, a letter dated 09.05.2022 from District Collector., Bhuj issued for conducting DILR Survey to District Land Revenue Office, Bhuj which is completed & report forwarded on 11.07.2022 to DC, Bhuj for further submission to Revenue Dept, Gandhinagar.

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest : Length: 33.78 KM
Forest area affected (ha) : 226.32 Ha
Forest proposal submitted on : 02-09-2020

Current status:

Forest proposal: Currently proposal is pending at State Govt (Part-V). Nodal officer on behalf of State Govt raised EDS on 11.05.2022 regarding Bird Flight Diverter (BFD) Specifications & Tree Enumeration List. Same was forwarded to user agency on 18.05.2022. Response on BFD specifications has been submitted to DCF, Banni Grassland on 29.05.2022 against which additional details was sought by DCF on 07.07. 2022. Response on the same is re-submitted on 26.07.2022. Compliance on Tree Enumeration is submitted with concerned RFO's. File forwarded by RFO's, on 11.07.22 to DCF, Banni Grassland, Bhuj for further needful action.

Power line crossing

Total no. of crossings : 07 no.
Proposal submitted : 02 no
Approval obtained : 00 no

Railway crossing

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

River Crossings

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

NH Crossings

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

PTCC

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

Defence/Civil Aviation

Current Status	: Under preparation
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22. Name of the Transmission Scheme – “Transmission System for evacuation of power from RE Projects in Osmanabad area (1 GW) in Maharashtra”

Background

Scope of transmission project

1. Establishment of 2X500 MVA, 400/220kV substation near Kallam PS

2X500 MVA, 400/220kV

400 kV ICT bay-2

220 kV ICT bay-2

400 kV line bay-4

220 kV line bay-4

Space for future Provisions:

400/220 kV ICTs along with bays:2 nos.

400 kV line bays including the space for switchable line reactors-6 nos.

220kV line bays: 4 nos.

400kV bus reactor along with bays: 1 no.

2. 1X125 MVA bus reactor at Kallam PS 400 kV reactor bay-1

3. LILO of both circuits of Parli(PG)-Pune(GIS) 400 Kv D/c line at Kallam PS

4. Provision of new 50 MVA switchable line reactor with 400 ohms NGR at Kallam PS end of Kallam-Pune(GIS) 400 kV D/c line

2X50 MVA,

400 kV Reactor bays-2

General Details

Special Purpose Vehicle	: Kallam Transmission Limited (Subsidiary of Consortium of IndiGrid 1 Limited (70%) and IndiGrid 2 Limited (30%))
Bid Process Coordinator (BPC)	: REC Power Development and Consultancy Limited (RECPDCL)
Estimated Cost (Rs. Crs)	: 245
Levelised Tariff(Rs. Crs)	: 16.736
Request for Qualification	:
Request for Proposal	: 05-03-2020
Letter of Intent	: 30-11-2021
Transmission Service Agreement (TSA)	: 30-09-2021
SPV acquisition	: 28-12-2021
Transmission License by CERC	: 18-07-2022

Tariff adoption by CERC	: 01-06-2022
Contract Performance Guarantee	: 21-12-2021
Clearance u/s 164	: 08-06-2022
Execution plan submitted to CEA	: 18-04-2022
NIT issued on	:
EPC contract awarded on	: 14-01-2022
Scheduled Date of Completion	: 27-06-2023

Status of progress of transmission project

1. Establishment of 2X500 MVA, 400/220kV substation near Kallam PS

2X500 MVA, 400/220kV

400 kV ICT bay-2

220 kV ICT bay-2

400 kV line bay-4

220 kV line bay-4

Space for future Provisions:

400/220 kV ICTs along with bays:2 nos.

400 kV line bays including the space for switchable line reactors-6 nos.

220kV line bays: 4 nos.

400kV bus reactor along with bays: 1 no.

• Status:

With the support of District Administration, Osmanabad KTL has successfully executed Sale Deed for 5.18 Ha and Signed the ATS of 5.6 Ha with the farmers on 01st July 2022. Balance land of 4.47 Ha is expected to be acquired by 2nd week of July 2022. TSP has commenced the construction activity at ground on 18th July 2022.

Design and Engineering Works is under Progress. TSP has completed 40% of Substation Engineering Works.

2. 1X125 MVAr bus reactor at Kallam PS 400 kV reactor bay-1

• Status:

Design and Engineering Works is under Progress. TSP has completed 40% of Substation Engineering Works

3. LILO of both circuits of Parli(PG)-Pune(GIS) 400 Kv D/c line at Kallam PS

Status: Route Survey Activity for Transmission Line Route has been completed on 01st August 2022. Route Profiling is under progress.

Design and Engineering Works is under Progress. TSP has completed 40% of Transmission Line Engineering Works.

Length: 17.58 KM (Tentative)

Locations: 52 Nos. (Tentative)

Foundation completed: Nil

Tower erected: Nil

Stringing completed: Nil

Scheduled COD: 27-06-2023

Anticipated COD: 27-06-2023

4. Provision of new 50 MVAR switchable line reactor with 400 ohms NGR at Kallam PS end of Kallam-Pune(GIS) 400 kV D/c line
2X50 MVAR,
400 kV Reactor bays-2

- **Status:**

Design and Engineering Works is under Progress. TSP has completed 40% of Substation Engineering Works

Status of statutory approvals:

NIL

23. Name of transmission project - Evacuation of power from RE sources in Koppal Wind Energy Zone (Karnataka) (2500MW)

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. Solar Energy Corporation of India (SECI) in association with MNRE has identified Solar Energy Zones (SEZ) and Wind Energy Zones (WEZ) of 66.5 GW in seven RE rich states (Tamil Nadu, Andhra Pradesh, Karnataka, Gujarat, Rajasthan, Maharashtra and Madhya Pradesh) to be evacuated through ISTS. Out of total 66.5 GW REZs, 18.5 GW (Solar-10 GW & Wind8.5GW) of potential has been identified in the states of Tamil Nadu, Andhra Pradesh and Karnataka in Southern Region.

The 2.5 GW wind potential identified in Koppal area of Karnataka has been prioritized under Phase-I (Part-II) for implementation. The Koppal transmission scheme involves establishment of Koppal Pooling Station and its interconnection with ISTS grid for evacuation of wind potential from Koppal area of Karnataka.

Scope of transmission project

1. Koppal Pooling station – Narendra (New) 400 kV D/c (quad) line
2. 5x500MVA, 400/220 kV Koppal Pooling Station alongwith 2x125 MVAR, 420kV bus reactors
3. 400kV GIS Line bay at Narendra (New) & associated works: 2 nos.

General Details

Special Purpose Vehicle	: Koppal-Narendra Transmission Limited (a subsidiary of ReNew Transmission Ventures Private Limited)
Bid Process Coordinator (BPC)	: PFC Consulting Limited
Estimated Cost (Rs. Crs)	: 750
Levelised Tariff (Rs. Crs)	: 61.125
Request for Qualification	: 21.10.2019
Request for Proposal	: 19.12.2019
Letter of Intent	: 13.10.2021
Transmission Service Agreement (TSA)	: 26.08.2021
SPV acquisition	: 13.12.2021
Transmission License by CERC	: 28.03.2022
Tariff adoption by CERC	: 25.02.2022
Contract Performance Guarantee	: 02.12.2021
Clearance u/s 164	: 21.07.2022
Execution plan submitted to CEA	: 08.04.2022
NIT issued on	:
EPC contract awarded on	:
Scheduled Date of Completion	: Phase I – June'23 and Phase II - Dec'23

Status of progress of transmission project

1. Koppal Pooling station – Narendra (New) 400 kV D/c (quad) line (Scheduled COD: June'2023)

Length	:	275.4 CKm
Locations	:	352 nos.
Foundation completed	:	149 nos
Tower erected	:	89 nos
Stringing completed	:	Work Started
Scheduled COD	:	June'23
Anticipated COD	:	Dec'22

Constraints / approval; if any:

1. Vide letters dated 27.01.2022, TSP has requested District Collectors of Koppal, Gadag, Bagalkote & Vijayapura to finalise the compensation rate for Right of Way to be paid to the land owners in the route of Transmission Line. Orders for RoW Compensation for all the Talukas have been issued by District Collectors except for Tadkal Village under Kukanuru Tauka (Koppal District) and Gajendragad Taluka (Gadag District). The status of issuance of DCs order are as under:
- 2.

District	Talukas	Status
Koppal	Yelburga	Order issued by office of District Collector, Koppal on 30.05.2022 (dated 25.05.2022).
	Kushtagi	Order issued by office of District Collector, Koppal on 15.06.2022.
	Kukanuru	Order issued by office of District Collector, Koppal on 29.07.2022 (dated 13.07.2022) for all the villages except Tadkal Village.
Gadag	Gajendragad	Meeting with land owners held on 02.07.2022. Order yet to be issued.
Bagalkote	Bagalkot	Order issued by office of District Collector, Bagalkote on 28.06.2022 (dated 06.06.2022).
	Hungund	
Vijayapura	Basavan Bagewadi	Order issued by office of District Collector, Vijayapura on 14.07.2022 (dated 02.07.2022).
	Nidagundi	

Delay in fixation of RoW compensation rates by District Collectors is severely affecting the construction progress.

3. Facing severe ROW issues at the following locations and not able to do the work

- Severe RoW locations for Foundation Work

Sl.No.	Loc. No.	Village Name	Taluka	District
1	AP-2, AP-6, AP-8	Mutagi	Basavan Bagewadi	Vijayapura
2	8/9, AP-9	Golasangi		
3	9/3, AP-10	Mukartihala		
4	10/6	Unnibhavi		
5	16/2, 6/4, 16/8, 16/11	Nidagundi	Nidagundi	Vijayapura
6	27/5	Devalapur	Bagalkot	Bagalkot

7	27/7	Ganjihala	Hungund	Bagalkot
8	30/3, 30/4	Hiremalgaon		
9	AP43, AP44, 47/1, 47/2	Gowdageri	Gagendragad	Gadag
10	35A/5	Mannarela	Kustagi	Koppal
11	38/4, 40/1, AP41	Maddhanala		
12	AP49B	Ballutagi	Yelburga	Koppal
13	50/5	Mudhol		
14	50A/5	Sanganahala		
15	51A/1, 51A/2	Itagi	Kuknoor	Koppal
16	AP51D, AP52	Tadakal		

- Severe RoW locations for Tower Erection Work

Sl.No.	Loc. No.	Village Name	Taluka	District
1	42/4	Myakalajari	Gagendragad	Gadag
2	43/1	Benachamatti		
3	34A/6	Tatakunti	Kushtagi	Koppal
4	34A/7, 35/2	Usalkoppa		
5	35/3	Bilagi	Yelburga	Koppal
6	47/8	Ballutagi		
7	50A/5	Sanganala	Kukanoor	Koppal
8	AP50C/0	Rajura		
9	50C/4	Dhyamapura		
10	51/4	Kukanura		
11	51/8	Virapapura		
12	51B/0, 51B/1, 51B/3	Ningapura		

Details of follow-up actions:

1. CEA letter to DCs (Distt - Koppal, Gadag, Bagalkote & Vijayapura, State – Karnataka) bearing Ref No. CEA-PS-13- 21(13)/1/2018-PSPM dated 18-04-2022.
2. MOP letter to Chief Secretary, Govt of Karnataka and Additional Chief Secretary (Energy), Govt. of Karnataka bearing Ref No. DO NO. 34-6/4/2022-Trans (MoP) dated 03-06-2022

Status of statutory approvals:

Forest area

Details of Tr. Line Falling under Forest:-

Locations : 4 nos. ; Length :1.644 Kms
Forest area (Ha) : 7.562 Ha
Online proposal submitted on : Submitted on 22.02.2022
Current status : Acceptance by Nodal – 17.05.2022
Hard Copies submitted to DFO/DC -23.05.2022
Receipts uploaded in Parivesh – 24.05.2022
Marked to DFO – 04.06.2022
Underprocess with DFO for their recommendation.

Wildlife area

Details of Tr. Line Falling under Wildlife:- Nil

Locations :
 Wildlife area (Ha) :
 Wildlife proposals submitted on :
 Current status :

Power line crossing

Total no. of crossings : 12 nos.
 Proposal submitted : 12 nos.
 Approval obtained : 8 nos.

Railway crossing

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

National Highway / SH Crossing

Total no. of crossings : 13 nos.
 Proposal submitted : 13 nos.
 Approval obtained : 9 nos. (SH)

River Crossings

Total no. of crossings : 1 no.
 Proposal submitted : NA (Non navigable)
 Approval obtained : NA

PTCC approval

Current status : Submitted on 28.04.2022

Current status : Approval Pending

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation : Submitted (Civil Aviation
 24.04.2022 & Defence Aviation –
 18.05.2022)

Current Status : Approval Pending

Status of progress of Substation/ Extension: -

2. a.1). 2x500MVA, 400/220 kV Koppal Pooling Station alongwith 2x125 MVA, 420kV bus reactors (Scheduled COD: June'2023; Anticipated COD: Dec'2022)

a.2). 1x500MVA, 400/220 kV Koppal Pooling Station (Scheduled COD: June'2023; Anticipated: June'2023)

(b) 2x500MVA, 400/220 kV ICT at Koppal Pooling Station (Scheduled COD: Dec'2023; Anticipated COD: Dec'2023)

Land Acquired	:	94%
Civil work completed	:	25%
Equipment supplied	:	35%
Equipment erection	:	29%
Scheduled COD	:	June'23 & Dec'23
Anticipated COD	:	Dec'22, June'23 & Dec'23

3. 400kV GIS Line bay at Narendra (New) & associated works: 2 nos

Land Acquired	:	100% (provided by PGCIL)
Civil work completed	:	10 %
Equipment supplied	:	4 %
Equipment erection	:	0 %
Scheduled COD	:	June'23
Anticipated COD	:	Dec'22

24. Name of transmission project - Transmission Scheme for Solar Energy Zone in Gadag (1000 MW), Karnataka – Part-A, Phase-I

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. Solar Energy Corporation of India (SECI) in association with MNRE has identified Solar Energy Zones (SEZ) and Wind Energy Zones (WEZ) of 66.5 GW in seven RE rich states (Tamil Nadu, Andhra Pradesh, Karnataka, Gujarat, Rajasthan, Maharashtra and Madhya Pradesh) to be evacuated through ISTS. Out of total 66.5 GW REZs, 18.5 GW (Solar-10 GW & Wind8.5GW) of potential has been identified in the states of Tamil Nadu, Andhra Pradesh and Karnataka in Southern Region.

The 2.5 GW Solar potential identified in Gadag area of Karnataka and the transmission schemes “Transmission scheme for Solar Energy Zone in Gadag (2500MW), Karnataka – Part A” agreed in NCT meeting for implementation into two phases (Phase-1: 1000 MW, Phase-2: 1500 MW). The Gadag transmission scheme (Part-A, Phase-I, 1000 MW) involves establishment of Gadag Pooling Station and its interconnection with ISTS grid for evacuation of potential Renewable Energy from Gadag area of Karnataka.

Scope of transmission project

1. Gadag Pooling station – Narendra (New) 400 kV D/c line
2. 2x500MVA, 400/220 kV Gadag Pooling Station alongwith 1x125 MVar, 400kV bus reactors
3. 400kV GIS Line bays at Narendra (New) Substation- 2 nos.

General Details

Special Purpose Vehicle	: Gadag Transmission Limited (a subsidiary of ReNew Transmission Ventures Private Limited)
Bid Process Coordinator (BPC)	: REC Power Development and Consultancy Limited
Estimated Cost (Rs. Crs)	: 350
Levelised Tariff (Rs. Crs)	: 29.70
Request for Proposal	: 09.09.2021
Letter of Intent	: 27.01.2022
Transmission Service Agreement (TSA)	: 10.12.2021
SPV acquisition	: 17.03.2022
Transmission License by CERC	: 18.07.2022
Tariff adoption by CERC	: 08.06.2022
Contract Performance Guarantee	: 17.03.2022
Clearance u/s 164	: Submitted to CEA 27.7.2022
Execution plan submitted to CEA	: 11.07.2022
NIT issued on	:
EPC contract awarded on	:
Scheduled Date of Completion	: Sept'23
Anticipated Completion	: June'23 & Sept'23

Status of progress of transmission project

1. Gadag Pooling station – Narendra (New) 400 kV D/c line

Length	:	93.2 Kms
Locations	:	232 nos.
Foundation completed	:	5 nos.
Tower erected	:	-
Stringing completed	:	-
Scheduled COD	:	Sept'23
Anticipated COD	:	June'23

2. (a) 1x500MVA, 400/220 kV Gadag Pooling Station alongwith 1x125 MVA, 400kV bus reactors (Scheduled COD: Sept'2023, Anticipated COD: June'2023)

(b) 1x500MVA, 400/220 kV ICT at Gadag Pooling Station (Scheduled COD: Sept'2023; Anticipated COD: Sept'2023)

Land Acquired	:	Land identified and under acquisition
Civil work completed	:	
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Sept'23
Anticipated COD	:	June'23 & Sept'23
Current Status	:	Design & Engineering work in progress.

3. 400kV GIS Line bay at Narendra (New) : 2 nos.

Land Acquired	:	Under process
Civil work completed	:	
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Sept'23
Anticipated COD	:	June'23
Current Status	:	Design & Engineering work in progress.

25. Name of Project: - Transmission System for evacuation of power from RE projects in Rajgarh (2500 MW) SEZ in Madhya Pradesh

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. Solar Energy Corporation of India (SECI) in association with MNRE has identified Solar Energy Zones (SEZ) and Wind Energy Zones (WEZ) of 66.5 GW in seven RE rich states (Tamil Nadu, Andhra Pradesh, Karnataka, Gujarat, Rajasthan, Maharashtra, and Madhya Pradesh) to be evacuated through ISTS.

The Ministry of Power, Government of India, vide its notification nos. 15/3/2018-Trans-Pt(1) dated 27/01/2020 & 15/3/2018-Trans-Pt(1) dated 19/07/2021 has appointed REC Power Development and Consultancy Limited (erstwhile REC Transmission Projects Company Limited) to be the Bid Process Coordinator (BPC) for the purpose of selection of Bidder as Transmission Service Provider (TSP) to establish transmission system for “Transmission System For Evacuation of Power From RE Projects in Rajgarh (2500 MW) SEZ in Madhya Pradesh” through tariff based competitive bidding process.

The 2.5 GW solar potential has been identified in Rajgarh area of Madhya Pradesh. The Transmission system for evacuation of Power from RE projects in Rajgarh SEZ in Madhya Pradesh involves the following scheme.

Scope of the Transmission Project

Sl. No.	Scope of the Transmission Scheme
1.	<p>Establishment of 400/220 kV, 3x500 MVA at Pachora SEZ PP with 420 kV (125 MVAR) bus reactor</p> <ul style="list-style-type: none">• 400/220 kV, 500 MVA ICT – 3 nos.• 400 kV ICT bays – 3 nos.• 220 kV ICT bays – 3 nos.• 400 kV line bays – 2 nos.• 220 kV line bays – 6 nos. <p>(4 nos. for Agar & Shajapur solar park interconnection & 2 nos. for other RE projects)</p> <ul style="list-style-type: none">• 125 MVAR, 420 kV reactor-1 no.• 420 kV reactor bay – 1 no.• 220kV Bus coupler bay- 1 no.• 220kV Transfer Bus Coupler (TBC) bay - 1 no. <p>Space for future Provisions:</p> <ul style="list-style-type: none">• 400/220kV ICTs along with bays: 6 nos.• 400kV line bays: 8 nos.• 220kV line bays: 9 nos• 420kV bus reactor along with bays: 1 no• 220kV Bus sectionalizer bay: 2 nos. <p>(One no. bay for each Main Bus)</p>
2	<p>Pachora SEZ PP -Bhopal (Sterlite) 400 kV D/c line (Quad/HTLS) (with minimum capacity of 2100 MVA/ckt at nominal voltage) along with 80MVAR switchable line reactors with 400 ohms NGR on each circuit at Pachora end, Switchable line Reactors (at Pachora end) –420 kV, 2x80MVAR Line reactor bays (at Pachora) – 2 nos.</p>

3	2 no. of 400 kV line bays at Bhopal (Sterlite) for Pachora SEZ PP-Bhopal (Sterlite) 400 kV D/c line (Quad/HTLS) (with minimum capacity of 2100 MVA/ckt at nominal voltage)
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General Details

Special Purpose Vehicle	: Rajgarh Transmission Limited (A subsidiary of G R Infraprojects Limited)
Bid Process Coordinator (BPC)	: REC Power Development and Consultancy Limited
Estimated Cost (Rs. Crs)	: 486.00 Cr
Levelised Tariff (Rs. Crs)	: 40.819 Cr
Request for Qualification	: NA
Request for Proposal	: 09.09.2021
Letter of Intent	: 31.03.2022
Transmission Service Agreement	: 02.12.2021
SPV acquisition	: 30.05.2022
Transmission License by CERC	: already applied and first hearing completed on Dated 29/07/2022 (Order Reserved)
Tariff adoption by CERC	: already applied and first hearing completed on Dated 29/07/2022 (Order Reserved)
Contract Performance Guarantee	: 21.05.2022
Clearance u/s 164	: Application yet to be Submitted,
Execution plan submitted to CEA	: Yet to be Submitted
NIT issued on	: NA
EPC contract awarded on	: KEC International Limited, dated 09/06/2022
Scheduled Date of Completion	: 29-11-2023

Status of progress of Transmission project

1. Pachora SEZ PP -Bhopal (Sterlite) 400 kV D/c line (Quad/HTLS) (with minimum capacity of 2100 MVA/ckt at nominal voltage) along with 80MVar switchable line reactors with 400 ohms NGR on each circuit at Pachora end, Switchable line Reactors (at Pachora end) –420 kV, 2x80MVar Line reactor bays (at Pachora) – 2 nos.

Length	: 286.972 Ckm (Tentative)
Locations	: 351 nos. (Tentative)
Foundation completed	: 0 / 351 nos
Tower erected	: 0 / 351 nos
Stringing completed	: 0 / 286.972 Ckm
Scheduled COD	: 29-11-2023
Anticipated COD	: 29-11-2023

Status of statutory approvals:

- a. Forest area : Nil
- b. Wildlife area : Nil
- c. Power line crossing

Total no. of crossings	: 15 nos.
Proposal submitted	: 0 nos.

Approval obtained : 0 nos.

d. Railway crossing

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

e. National Highway

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

f. River Crossings

Total no. of crossings : 3 no.
Proposal submitted : NA (Non navigable)
Approval obtained : NA

g. PTCC approval

Current status : Yet to be Submit

h. Defence/Civil Aviation

Current Status : Yet to be Submit

Constraints / approvals; if any:

Details of follow-up actions:

Status of progress of Substation/ Extension: -

1. Establishment of 400/220 kV, 3x500 MVA at Pachora SEZ PP with 420 kV (125 MVAR) bus reactor

Land Acquired : 100 %
Civil work completed : 0 %
Equipment supplied : 0 %
Equipment erection : 0 %
Scheduled COD : 29-11-2023
Anticipated COD : 29-11-2023

2. 400 kV line bays at Bhopal (Sterlite) for Pachora SEZ PP-Bhopal (Sterlite) 400 kV D/c line (Quad/HTLS) (with minimum capacity of 2100 MVA/ckt at nominal voltage) - 02 Nos

Land Acquired : 100 % (provided by Sterlite)
Civil work completed : 0 %
Equipment supplied : 0 %
Equipment erection : 0 %
Scheduled COD : 29-11-2023
Anticipated COD : 29-11-2023

26. 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.

27. 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.