



**Monthly progress Report of
Transmission Projects awarded
through
Tariff Based Competitive Bidding
(TBCB) Route
(Under Construction Projects)
(As on 30.11.2022)**

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

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S.No	Transmission project	Special Purpose Vehicle (SPV)/ Bid Process Coordinator (BPC)	Parent Company/ Progress Status	Page No.
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Total Transmission Projects Awarded	:	70
Transmission Projects Commissioned/Ready for commissioning	:	43
Transmission Projects Under Construction	:	23
Tr. Projects whose construction could not be started due to litigation	:	02
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1. 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) subsidiary of POWERGRID)	: POWERGRID Ramgarh Transmission Limited (A
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	103 nos.
Towers erected	49 Nos
Stringing completed	
Scheduled COD	Sep'22/Dec'22**
Anticipated COD	Sep'23

Status of statutory approvals:

River Crossings

Total no. of crossings : NIL nos.

Power line crossing

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

Railway crossing

Total no. of crossings : NIL

National Highway Crossing

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

Forest:

Forest (0.0920 Ha): Online Submission:28.04.21. Stage-I accorded from O/o Sec (Forest), Govt. of Raj on 18.11.2021. Stage-I compliance submitted on 03.06.2022 & same forwarded to Sec (Forest), Govt of Rajasthan.

PTCC approval : Proposal submitted , under approval.

Defence Aviation	:	NOC Received
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:	129 nos.
Foundation completed	108 nos.
Towers erected	71 No
Stringing completed	
Scheduled COD	Sep'22/Dec'22**
Anticipated COD	Sep'23

Status of statutory approvals:

River Crossings

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

Total no. of crossings	:	07	nos.
Proposal submitted	:	07	nos.
Approval obtained	:	07	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	:	1	nos.

Forest:

Forest (0.1794 Ha): Online Submission:28.04.21. Stage-I clearance accorded on 09.05.22. Demand note received and approval for the same u/p. Stage-I compliance submitted on 17.06.2022.

PTCC approval	:	Proposal submitted , under approval.
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Defence Aviation	:	NOC Received
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	:	50%
Equipment supplied	:	65%
Equipment erection	:	20%
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD	:	Sep'23

2. Extension of 400 Fatehgarh-II Substation

Land Acquisition	:	Available
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Civil work completed	:	93 %
Equipment supplied	:	88 %
Equipment erection	:	75%
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD		Sep'23

3. Extension of 400kV Jaisalmer II Substation

Land Acquisition	:	Available
Civil work completed	:	93%
Equipment supplied	:	85 %
Equipment erection	:	70 %
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD		Sep'23

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.
2. Complete project lies in the GIB Potential area. Clearance from the Supreme court committee received on 18.07.22.

2. 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 (A subsidiary of POWERGRID)
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	705 nos.
Towers erected	677 nos.
Stringing completed	131.3 km
Scheduled COD	Sep'22/Dec'22**
Anticipated COD	Mar'23

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	:	25	nos.
Approval obtained	:	23	nos.

Railway crossing

Total no. of crossings	:	05	nos.
Proposal submitted	:	05	nos.
Approval obtained	:	03	nos.

National Highway Crossing

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

Forest:

Forest (1.7425 Ha, Bikaner Division): Online proposal submitted on 07.06.2021& accepted by Nodal on 28.07.2021. Stage-I clearance accorded on 16.06.2022

Forest (1.7066 Ha, Jhunjhunu, Sikar, Churu Division): 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. Part-III recommendation done by CF, Bikaner on 06.01.22 and CF, Jaipur on 12.01.22 & 13.04.22 respectively and forwarded to NO, Jaipur. Part-IV done by NO, Jaipur and forwarded to Sec (Forest), Govt. of Raj

on 16.05.22. Sec (Forest) sought additional information on 28.06.2022 from NO, Jaipur and reply of the same submitted to Sec (Forest), Govt. of Raj on 23.09.2022.

PTCC approval : Under Preparation.

Defence Aviation : Proposal Submitted.

Civil Aviation : Proposal approved..

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

Award placed to M/s TLL

Length:	125.6km
Locations:	336nos.
Foundation completed	333 nos.
Towers erected	305 nos.
Stringing completed	30.5 km
Scheduled COD	Sep'22/Dec'22**
Anticipated COD	Mar'23

Status of statutory approvals:

River Crossings

Total no. of crossings : NIL nos.

Power line crossing

Total no. of crossings : 28 nos.

Proposal submitted : 28 nos.

Approval obtained : 28 nos.

Railway crossing

Total no. of crossings : 04 nos.

Proposal submitted : 04 nos.

Approval obtained : 04 nos.

National Highway Crossing

Total no. of crossings : 3 nos.

Proposal submitted : 3 nos.

Approval obtained : 3 nos.

Forest:

Forest proposal (1.6238 Ha, Raj): Online proposal submitted on 10.12.2021. Stage-I received on 14.10.2022.

Forest proposal (4.3378 Ha, Haryana): Online proposal submitted on 22.12.2021. Online proposal under review at NO, Chandigarh. On 28.02.222, NO, Panchkula has accepted online proposal and requested to submit hardcopies of proposal. Hard copies of proposals are prepared and the same submitted to respective DFOs on 26.03.22. On 19.04.2022. Part-II done by DFOs (Mahendergarh & Rewari). Part-III pending at CF, Gurgaon from 27.10.2022.

PTCC approval : Proposal submitted.

Defence Aviation : Proposal Approved.

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.
2. RoW issues being faced in 400kV 2xD/c Bikaner-II – Khetri Line. Matter being taken up with the Distt. Administration.
3. Stringing works affected due to delay in supply of HTLS conductor in view of restrictions on procurement from land border-sharing countries.

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	:	77%
Equipment supplied	:	70%
Equipment erection	:	30%
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD	:	Mar'23

**2. 400/220kV New Bikaner II Substation STATCOM
(±300MVar 2x125MVar MSC, 1x125MVar MSR)**

Land Acquisition	:	Land possession taken in Jan'22.
Civil work completed	:	77%
Equipment supplied	:	55%
Equipment erection	:	5%
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD	:	Mar'23

3. Extension of 400kV Khetri Substation

Land Acquisition	:	Available
Civil work completed	:	98 %
Equipment supplied	:	98 %
Equipment erection	:	95 %
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD	:	Mar'23

4. Extension of 400kV Bhiwadi Substation

Land Acquisition	:	Available
Civil work completed	:	98%
Equipment supplied	:	98%
Equipment erection	:	95%
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD	:	Mar'23

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.

3. 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 (A subsidiary of POWERGRID)	:	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	:	25.11.22
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 | Feb'24 |

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	:	21	nos.
Approval obtained	:	15	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 approved.
Civil Aviation	:	Proposal approved.

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.

Status of progress of Substation and Bay Extensions:-

1. Extension of 765kV Fatehgarh II Substation

Land Acquisition	:	Available.
Civil work completed	:	50%
Equipment supplied	:	45%
Equipment erection	:	10%
Scheduled COD	:	Dec'22
Anticipated COD		Feb'24

2. Extension of 765kV Bhadla II Substation

Land Acquisition	:	Available
Civil work completed	:	60%
Equipment supplied	:	50%
Equipment erection	:	20%
Scheduled COD	:	Dec'22**
Anticipated COD		Feb'24

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.

4. 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) (A subsidiary of POWERGRID)	:	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: | 307 km |
| • Locations: | 798 nos. |
| • Foundation completed | 448 nos. |
| • Towers erected | 298 No |
| • Stringing completed | 15 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	:	17	nos.
Approval obtained	:	17	nos.

Railway crossing

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

National Highway Crossing

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

Forest:

Forest (0.6231 Ha): 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: 135 km
- Locations: 354 nos.
- Foundation completed 166 Nos
- Towers erected 104 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 : 15 nos.

Approval obtained : 15 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 : 03 nos.

Approval obtained : 00 nos.

Forest (13.013 Ha, Rajasthan): 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. Part-V done by Sec (Forest), Govt. of Rajasthan on 06.06.22 & same forwarded to IRO, Jaipur. IRO, Jaipur has sought additional information on 14.07.22 & reply for the same submitted to NO, Jaipur on 04.08.2022. NO, Jaipur has sought detailed clarification from DFO, Sikar on 07.09.22 as details provided are not satisfactory & reply of the same forwarded to NO, Jaipur on 19.09.2022

Forest (0.483 Ha, Haryana): Online proposal submitted on 08.08.2021 & accepted by Nodal on 20.08.2021 and forwarded to concerned DFO on 01.09.2021. Part-II recommendation done by DFO on 10.06.2022. Part-III recommendation done by CF, Gurgaon on 28.06.2022 and forwarded to NO, Panchkula. NO, Panchkula has sought additional information on 05.08.2022 & reply of the

forwarded to NO, Panchkula on 29.09.2022. Further, NO, Panchkula on 12.10.2022 has requested to furnish NOC from irrigation dept & same 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.
3. Transmission Licence by CERC received on 27.05.22.

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	:	96%
Equipment supplied	:	92 %
Equipment erection	:	82%
Scheduled COD	:	Dec'22**
Anticipated COD	:	Aug'23

3. Extension of 400kV Neemrana Substation

Land Acquisition	:	Available
Civil work completed	:	98%
Equipment supplied	:	95%
Equipment erection	:	88%
Scheduled COD	:	Dec'22**
Anticipated COD	:	Aug'23

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.

5. 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) subsidiary of POWERGRID)	:	Sikar II – Aligarh Transmission Limited (A
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 639 nos.
- Towers erected 613 nos
- Stringing completed 163 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 : 36 nos.

Proposal submitted : 34 nos.

Approval obtained : 34 nos.

Railway crossing

Total no. of crossings : 03 nos.

Proposal submitted : 03 nos.

Approval obtained : 01 nos.

National Highway Crossing

Total no. of crossings : 05 nos.

Proposal submitted : 05 nos.

Approval obtained : 02 nos.

Forest (15.6043 Ha, Rajasthan): 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. Part-IV done by NO, Jaipur on 12.09.22 and forwarded to Sec (Forest), Govt. of Raj. Now proposal is under review at Sec (Forest), Govt. of Raj.

Forest (15.8589 Ha, Haryana): Online proposal submitted on 19.08.2021 & accepted by Nodal on 23.09.2021 and forwarded to concerned DFOs on 10.09.2021. Part-II recommendation done on DFO, Mewat on 23.08.2022 & forwarded to CF, Gurgaon. Part-III recommendation done by CF, Gurgaon on 20.09.2022 & forwarded to NO, Panchkula. Proposal has discussed in 1st Project Screening Committee meeting held on 21.10.2022 at NO, Panchkula.

Forest (1.3668 Ha, UP): Online proposal submitted on 25.08.201. Stage-I clearance accorded on 24.06.2022. Demand letter from DFO, Mathura received on 12.07.2022 and payment done on 08.08.22. Stage-I compliance submitted to respective DFOs on 16.08.2022.

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. Transmission Licence received on 28.05.22.

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	:	65%
Equipment supplied	:	55%
Equipment erection	:	45%
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.

6. 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 (A subsidiary of POWERGRID)
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	:	26.09.22
Tariff adoption by CERC	:	23.07.22
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	113 nos.
Towers erected	6 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	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

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	:	10%
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Nov'23
Anticipated COD	:	Nov'23

7. Transmission system for evacuation of power from Neemuch Solar Park (1000 MW):

Background

Establishment of inter-state transmission system for "Transmission System for Evacuation of Power from Neemuch (Special Economic Zone) SEZ", on build, own, operate and transfer (BOOT) basis from the Bid Process Coordinator - REC Power Development and Consultancy.

The transmission system comprises establishment of around 277 Kms of two 400kV DIC Transmission lines passing through the states of Rajasthan and Madhya Pradesh, a new 2X500 MVA, 400/220kV pooling substation (AIS) at Neemuch (Madhya Pradesh) and 400kV bay extension works. The project is targeted for implementation in 18 months.

Scope of Works under Neemuch Project:

- a) Establishment of 2x500 MVA, 400/220 kV Pooling Station (AIS) at Neemuch (Singoli tehsil) with 1x125 MVAr Bus Reactor
400/220 kV, 500 MVA ICT –2 nos.
400 kV ICT bays – 2 nos.
220 kV ICT bays – 2 nos.
400 kV line bays –4 nos. (2 each for Chittorgarh & Mandsaur lines)
220 kV line bays – (2 nos. of bays to 500 MW Connectivity/LTA granted to M/s RUMSL)
220kV Bus coupler bay- 1 no.
220kV Transfer Bus Coupler (TBC) bay - 1 no.
125 MVAR, 420 kV reactor-1 no.
420 kV reactor bay – 1 no.
- b) Associated Transmission System:
 - i) Neemuch PS – Chhittorgarh (PG) s/s 400 kV D/C line (conductor with minimum capacity of 2100 MVA/Ckt at nominal voltage).
 - ii) 2 nos. of 400 kV line bays at Chhittorgarh (PG) 400 kV s/s for Neemuch PS – Chhittorgarh (PG) s/s 400 kV D/C line (conductor with minimum capacity of 2100 MVA/Ckt at nominal voltage).
 - iii) Neemuch PS- Mandsaur s/s 400 kV D/C line (conductor with minimum capacity of 2100 MVA/Ckt at nominal voltage).
 - iv) 2 no. of 400 kV line bays at Mandsaur 400 kV s/s for Neemuch PS- Mandsaur s/s 400 kV D/c line (conductor with minimum capacity of 2100 MVA/Ckt at nominal voltage).

General Details

Special Purpose Vehicle (SPV) subsidiary of POWERGRID)	:	Neemuch Transmission Limited (A
Bid Process Coordinator (BPC) Ltd	:	REC Power Development and Consultancy
Estimated Cost	:	₹ 547 Cr.
Levelized Tariff	:	₹ 78.378
Request for Proposal	:	28.01.22

Letter of Intent	:	07.07.22
Transmission Service Agreement (TSA)	:	24.08.22
SPV acquisition	:	24.08.22
Transmission License by CERC	:	Applied on 31.08.2022
Tariff adoption by CERC	:	Applied on 31.08.2022
Clearance u/s 164	:	
Execution plan submitted to CEA	:	Submitted.
NIT issued on	:	NIT for all Pkges issued.
EPC awarded on	:	Awarded
Scheduled Date of Completion	:	Feb'24

Status of progress of Transmission Line:

1. Neemuch PS- Mandsaur s/s 400 kV D/C line

Award placed on M/s TLL.

Length	:	117.297 km
Locations	:	302 nos.
Foundation completed	:	0 nos.
Towers erected	:	0 nos
Stringing completed	:	0 km
Scheduled COD	:	Feb'24
Anticipated COD	:	Feb'24

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. Neemuch PS - Chhittorgarh (PG) 400kV D/c Line

Award placed on M/s KEC & TLL

Length	:	234 km
Locations	:	612 nos.
Foundation completed	:	0 nos.
Towers erected	:	0 nos
Stringing completed	:	0 km
Scheduled COD	:	Feb'24
Anticipated COD	:	Feb'24

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. Establishment of 2x500 MVA, 400/220 kV Pooling Station (AIS) at Neemuch with 1x125 MVA Bus Reactor

Land Acquisition	:	Land under acquisition
Civil work completed	:	
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Feb'24
Anticipated COD	:	Feb'24

2. 2 nos. 400 kV line bays at Mandsaur for Neemuch PS- Mandsaur s/s 400 kV D/c line

Land Acquisition	:	Available
Civil work completed	:	
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Feb'24
Anticipated COD	:	Feb'24

3. 2 nos. 400kV Line bays at Chittorgarh for Neemuch PS - Chhittorgarh 400kV D/c Line

Land Acquisition	:	Available
Civil work completed	:	
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Feb'24
Anticipated COD	:	Feb'24

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

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

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

Background

Additional 400 kV feed to Goa. The peak demand met by Goa during the year 2014-15 was 489 Mega Watt (MW) and as per the 18th Electric Power Survey (EPS), the peak demand of 815 MW was expected by the end of 12th Plan and 1192 MW by the end of 13th plan.

At present demand of Goa is mainly catered through Mapusa 3x315 Mega Volt Ampere (MVA), 400/220 kV substation, which gets feed from Kolhapur 400 kV substation through a 400 kV line.

Goa system is also connected with Maharashtra and Karnataka through 220 kV lines. To supply the projected power requirement of Goa with reliability, an additional 400 kV in feed to Goa was required. The matter was discussed in the 38th meeting of Standing Committee on Power System Planning in Western Region, held on 17-07-2015 at New Delhi wherein the provision for a new 400kV Substation in Goa at Xeldem along with its interconnections with the Inter State Transmission System was agreed.

Accordingly, following transmission system was discussed and approved in the 39th and 40th Standing Committee Meeting (SCM) of Western Region (WR) held on 30.11.2015 and 01.06.2016 respectively and 39th and 40th SCM of Southern Region (SR) held on 28-29.12.2015 and 19.11.2016 respectively.

Additional System for Power Evacuation from Generation Projects pooled at Raigarh (Tamnar) Pool - Raigarh (Tamnar) Power Station (PS) has been planned to pool about 3000MW power from Jindal Power Limited (4x600) and TRN Energy Pvt. Ltd. (2X300) generation project and onward transfer of same through 765kV D/c line to Raigarh (Kotra) generation complex. For evacuation of power reliably from Raigarh (Tamnar) PS, a second corridor was planned from this pooling station to Dharamjaygarh 765 kV S/s through 765kV D/c line. Dharamjaygarh sub-station is further connected to Western Region (WR) and Northern Region (NR) grid through Dharamjaygarh – Jabalpur PS 765kV 2xD/c line and onward 765kV transmission system.

Accordingly, Raigarh Pool (Tamnar) – Dharamjaygarh PS (Section B) 765 kV D/c Line was agreed in 38th and 39th SCM of WR held on 17.07.2015 and 30.11.2015 respectively as Additional System for Power Evacuation from Generation Projects pooled at Raigarh (Tamnar) Pool. Original TDC was 07.06.2018.

The transmission scheme was ratified in 31st Western Regional Power Committee (WRPC) meeting held on 31.03.2016 at Raipur.

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. Xeldem (existing) – Xeldem (new) 220kV D/C line
4. Establishment of 2x500MVA, 400/220kV substation at Xeldem

5. 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*
Anticipated Date of Completion	: Dec'24

*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	: 196 CKm
Locations	: 249 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 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.
2. Delay in grant of Wildlife clearance for Diversion of 33.273 Ha of wildlife area. The Proposal was pending with Govt of Karnataka due to petition filed by Goa Foundation in Central Empowered Committee (CEC).
 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.
 6. Change in CA & Medicinal rates by PCCF, Karnataka State vide order dated 24.05.2022.
 7. Revised proposal of Forest for Goa State as per CEC Recommendation submitted on 25.08.2022. Parivash Portal was not working due to some technical problem in, resubmitted the proposal on 23.09.2022.
 8. 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. Permission from KPTCL is awaited. In principal approval received from KPTCL On 08.09.2022.
 9. A letter submitted to PCCF Goa and Karnataka on 05.09.2022 for seeking permission in Eco Sensitive Zone of Bhagwan Mahavir wildlife sanctuary and Dandeli wildlife sanctuary respectively. In preview of Hon'ble Supreme court order dated 03.06.2002 "No permanent Structure is permitted in ESZ area".
 10. Support Required from state Govt. for route alignment on proposal submitted as per CEC recommendation & Hon'ble SC order.
 11. Support required from MEOFF CC for Clarification on Compensatory afforestation as per FC rule 2022 and functioning of online portal.

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
12. Forest issue was reviewed during PMG Review Meeting held on 22.08.2022 under chairmanship of Secretary (Power), MoP.
13. Reviewed by Secretary (Power), MoP during PMG review meeting held on 03.10.2022. Secretary (Power), MOP directed to Chief Engineer (PSPM), CEA to convene a stakeholder meeting for resolving the forest issue.
14. Pursuant to the direction of Secretary (Power), MoP, a meeting held under chairmanship of Member (Power System), CEA on 14.10.2022 for resolving the issue of forest.
15. Meeting of the 3rd Project Screening committee of Goa Forest Department held on 22.10.2022 in which Proposal of Goa Portion for Xelem-Narendra line was accepted and forwarded to concerned DFO's for further processing.
16. Project and issues were reviewed by Secretary (Power), MoP during meeting held on 14.11.2022.

Status of statutory approvals:

Forest area

Details of Tr. Line Falling under Forest	:	
Locations	:	97 nos ; Length : 39.94 Kms
Forest area (Ha)	:	185.923 Ha
Forest proposals submitted on	:	Karnataka : 20 Jul'22 ; Goa : 25 Aug'22 (as per CEC Route)
Current status	:	Goa State Forest : Revised Proposal submitted on 25.08.2022.-accepted by

Project Screening committee on 22nd Nov'2022. Online updation will be done after restoration of the Parivesh Portal.
Karnataka Forest : Revised proposal submitted on 20th July'22 at DFO Dandeli.

Wildlife area

Details of Tr. Line Falling under Forest :
Locations : 36 nos ; Length : 13.95 Kms
Wildlife area (Ha) : 64.347 Ha
Wildlife proposals submitted on : Wild Life Goa :-25 Sep'22
Wild Life Karnataka : 20th Jul'22
Current status : GOA: Wild Life proposal submitted on 25.09.2022.
Karnataka: Revised proposal submitted on 20th July'22 at DFO Dandeli.

Power line crossing

Total no. of crossings : 5 nos (Subjected to change as per Route change)
Proposal submitted : 5 nos
Approval obtained : 5 nos

Railway crossing

Total no. of crossings : 1 nos (Subjected to change as per Route change)
Proposal submitted : 1 nos
Approval obtained : 1 nos

National Highway / SH Crossing

Total no. of crossings : 4 nos (Subjected to change as per Route change)
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. (Revised approval Required due to change as per CEC route)

Defence/Civil Aviation

Proposal submitted to : Yes proposal submitted
Defence/Civil Aviation
Current Status : Approved (Revised approval Required due to change as per CEC route)

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

Length : 105.488 CKm
Locations : 141 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. Change in CA & Medicinal rates by PCCF, Karnataka State vide order dated 24.5.2022.
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”. 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.
5. A letter submitted to PCCF Goa and Karnataka on 05.09.2022 for seeking permission in Eco Sensitive Zone of Bhagwan Mahavir wildlife sanctuary and Dandeli wildlife sanctuary respectively. In preview of Hon'ble Supreme court order dated 03.06.2002 “ No permanent Structure is permitted in ESZ area”.
6. Re-routing of the XM Line in line with the orders passed by the Deputy Collector.

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. Project was reviewed by Secretary (Power), MoP during meeting held on 22.08.2022.
10. Reviewed by Secretary (Power), MoP during PMG review meeting held on 03.10.2022. Secretary (Power), MOP directed to Chief Engineer (PSPM), CEA to convene a stakeholder meeting for resolving the forest issue.
11. Pursuant to the direction of Secretary (Power), MoP, a meeting held under chairmanship of Member (Power System), CEA on 14.10.2022 for resolving the issue of forest.
12. Meeting of the 3rd Project Screening committee of Goa Forest Department held on 22nd Nov'2022 in which Proposal of Goa for Xelem-Mapusa line was accepted and forwarded to concerned DFO's for further processing.
13. Project and issues were reviewed by Secretary (Power), MoP during meeting held on 14.11.2022.

Status of statutory approvals:

Forest area

Details of Tr. Line Falling under Forest	:	
Locations	:	29 nos; Length : 7.991 Kms (Changed due to change in SS location)
Forest area (Ha)	:	36.39 Ha.
Forest proposals submitted on	:	Goa : 01 July'18
Current status	:	Stage-1, Working permission and Stage-2 Approval Received. 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. Revised survey avoiding ESZ. Revised proposal submitted on 26.09.2022. Proposal has been accepted by Project Screening Committee on 22 nd Nov'2022. Online updation will be done after restoration of the Parivesh Portal.

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 (Revised approval Required due to change in Substation Location)

Defence/Civil Aviation

Proposal submitted to : Yes proposal submitted
Defence/Civil Aviation
Current Status : Approved (Revised approval Required due to change in Substation Location)

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 : 44.19 CKm

Locations	: 65 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.
5. Delay in 220 kv Bays construction for Termination of 220 kV Xeldem-Xeldem Line by GED, construction work is yet to be started. Needs to expedite the start of construction in 220 kV Bays to align the commissioning of 220 kV Xeldem-Xeldem & 400/220 kV Substation by Dec'23.
6. Change in CA & Medicinal rates by PCCF, Karnataka State vide order dated 24.5.2022
7. A letter submitted to PCCF Goa and Karnataka on 05.09.2022 for seeking permission in Eco sensitive zone of Bhagwan Mahavir wildlife sanctuary and Dandeli wildlife sanctuary respectively. In preview of Hon'ble Supreme court order dated 03.06.2002 “No permanent Structure is permitted in ESZ 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.
10. Project was reviewed by Secretary (Power), MoP during meeting held on 22.08.2022.
11. Reviewed by Secretary (Power), MoP during PMG review meeting held on 03.10.2022. Secretary (Power), MOP directed to Chief Engineer (PSPM), CEA to convene a stakeholder meeting for resolving the forest issue.
12. Pursuant to the direction of Secretary (Power), MoP, a meeting held under chairmanship of Member (Power System), CEA on 14.10.2022 for resolving the issue of forest.
13. Project and issues were reviewed by Secretary (Power), MoP during meeting held on 14.11.2022.

Status of statutory approvals:

Forest area

Details of Tr. Line Falling under Forest	:	
Locations	:	33 nos ; Length : 11.45 Kms
Forest area (Ha)	:	40.09 Ha
Forest proposals submitted on	:	Goa : 02 Aug'18
Current status	:	TSP has submitted revised proposal for avoiding ESZ, on 26.09.2022 in line with above SC order. Proposal accepted by Project Screening committee on 22 nd Nov'2022. Online updation will be done after restoration of the Parivesh Portal.

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.
8. Sanad application & Technical Clearance applications submitted on 23.08.2022 to District South Goa.

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.
9. Reviewed by Secretary (Power), MoP during PMG review meeting held on 03.10.2022.
10. Issue of sanad approval was discussed during DPIIT review meeting under chairmanship of Director, DPIIT, held for Goa on 20.10.2022. Director, DPIIT advised G/o Goa to expedite.
11. Reviewed by Secretary (Power), MoP during PMG review meeting held on 14.11.2022.

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

Background - Udupi– Kasargode 400kV (Quad) D/c line was planned for improving reliability of power supply & stability in Northern area of Kerala and relieving congestion between S1 (Andhra 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)/Jul'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	: 85 nos

Tower erected	: 74 nos
Stringing completed	: 0.84 Ckm
Scheduled COD	: 11 th Nov 2022/ Feb'23
Anticipated COD	: Jul'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. DC Dakshin Kannada vide order dated 08.08.2022 and DC Udupi vide Order dated 16.08.2022 has finalized land compensation. State Government has notified the order of 85/15 land compensation on 22.08.2022 in line with the MoP guidelines dated 15.10.2015. DC Dakshin Kannada vide order dated 01.12.2022 and DC Udupi vide Order dated 18.10.2022 has revised land compensation rates. TSP is unable to start the construction work in Mangalore due to severe ROW issue in Dakshina kannada & karkalla region of Udupi, people are not ready to start the survey work and denying to enter the locations.
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.
5. Facing 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. Interim order granted earlier is restricted to the petitioner's (40 nos.) properties vide hearing dated 28.09.2022 and is extended till the next date of hearing. Order reserved vide hearing dated 29.10.2022.
6. **Karnataka:** FDP submitted on 18.12.2020. Tree Cutting clearance pending, Demand Notices from Kundapur and mangalore DFO's, yet to be raised.
Kerala: FDP submitted on 03.11.2020. Tree Cutting clearance pending, Demand Notices from Kundapur and mangalore DFO's , yet to be raised.
7. Landowners in Kerala section formed committee and has stopped all construction activities of UKTL in Kerala for more than 3 months, 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.
11. UKTL Letter No.- 348 Dtd.- 09-08-2022 to Deputy collector (LR) Regarding Tree crop valuation committee-Valuation of rubber and other trees for Power Transmission Project, UKTL.
12. UKTL Letter No.- 349 Dtd.- 16-08-2022 to MD PCKL Kottayam regarding Request for permission to start the construction work in Land owned by plantation corporation of Kerala Ltd, Kasargod for 400kV D/C Udupi -Kasargod Transmission Line Project.
13. UKTL Letter No.- 350 Dtd.- 19-08-2022 to DC-Kasargod regarding Permission and support required to initiate work at Severe ROW Locations for Power Transmission Project, UKTL.
14. UKTL Letter No.- 351 Dtd.- 23-08-2022 to Ass.commissioner -Mangalore division regarding Request for providing rates of land of concerned villages coming under Bantwal, Mangalore, Mulki and Mudbidri Taluka for construction 400 kV D/C Udupi Kasargode Transmission Limited.
15. UKTL Letter No.- 352 Dtd.- 24-08-2022 to Ass.commissioner -Kundapur division Udupi district regarding Request for providing rates of land of concerned villages coming under Bantwal, Mangalore, Mulki and Mudbidri Taluka for construction 400 kV D/C Udupi Kasargode Transmission Limited.
16. UKTL Letter No.- 351 Dtd.- 24-08-2022 to Minister of electricity ,Govt. of Kerala, regarding work stopped due to resistance caused by local leaders demanding unreasonably high compensation to landowners-Reg.
17. Project and its issues were reviewed by secretary, MoP during PMG Review meeting held on 22.08.2022.
18. Project and issues were reviewed by Secretary (Power), MoP during meeting held on 14.11.2022.

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 : Stage-I received on 27.10.2022. Tree cutting clearance yet to receive. Karnataka : Stage-I received on 27.10.2022. Tree cutting clearance yet to receive.

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	:	10 nos
Proposal submitted	:	9 nos
Approval obtained	:	7 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 Proposal submitted to DET, (PTCC), Chennai. DET(PTCC), Chennai has registered the proposal and forwarded to concerned offices i.e. BSNL & railway. (PTCC)Railway- 1. Southern railway-NOC forwarded to DE,

4. NOC from Southern Railway-Chennai has been received

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	: 68.30%
Equipment supplied	: 82.47%
Equipment erection	: 15.80%
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 99.83% % and balance is in process
4. Applied for permanent / construction power connection.
5. PEB erection, main column & rafter erection for 220kv building completed, Alignment and EOT crane beam erection WIP. 400kV PEB erection work started and WIP, Brick work inside the building in 220kv completed, Boundary wall almost completed, 220kV Puff panel erection WIP, 220kV PEB flooring work in final stage, Pull pit inside the building completed. FFPH flooring and inside foundation WIP
6. Major equipment like ICT, Reactor, GIS, PEB structure received at site and material delivery-equipment structure, PEB Puff panels, stringing hardware, conductor, cables also reached at site. SAS, PLCC,FOTE and Relay panel delivery pending.
7. 2 no's Reactor and 2 Nos of ICT shifted on foundation plinth.

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. In Kerala Farmers has formed committee and asking for higher compensation of land and surface damage.
3. Delay in CLU/Lease of Kasargod SS land as per land assignment act 1960 of Kerala.

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.
 8. UKTL vide letter dated 26.08.2022 to Add. Chief secretary-Revenue, Thiruvananthapuram regarding Support required from Government of Kerala for invoking land assignment Act 1960 for 400kV Substation Udupi Kasaragod Transmission Limited.
 9. UKTL Letter No.- 352 dated 27.08.2022 to Director -KSEB regarding Request for update on Kasargode Sub-Station Downstream line- Udupi Kasargode Transmission Line.
 10. Project was reviewed by Secretary (Power), MoP during meeting held on 22.08.2022
 11. Project and issues were reviewed by Secretary (Power), MoP during meeting held on 14.11.2022.

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	: 87.31%
Equipment supplied	: 100 %
Equipment erection	: 93.39%
Scheduled COD	: 11 th Nov 2022/ Feb'23
Anticipated COD	: 15 th Dec'22

Current Status:

1. A meeting was held between UKTL and UPCL for document sharing and start of Bay extension work.
2. EPC Partner has been taken on board.
3. Design and Engineering work completed, supply of material completed
4. Construction work is in progress. Land levelling, compaction ,antiweed treatment and gravel laying under progress, balance earthing along with Phase marking WIP

5. All foundation work completed. Equipment erection completed. Jumpering work completed
6. CRB & SPR building completed, painting wip-outdoor
7. Cable laying 99% Completed., Equipment Testing completed, Relay testing started and WIP, SAS configuration WIP.
8. Battery erection completed, PLCC and FOTE panel erection completed, Splicing work in FOTE WIP, Fire hydrant pipe connection is in final stage

Constraints / approval; if any:

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

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

Background -

CERC vide order in Petition Number 151/RC/2022 Dated 25.08.2022 has approved change of name of "Vapi-II - North Lakhimpur Transmission Limited" to "Mumbai Urja Marg Limited". The Project comprises of four parts (Viz. Part-A, Part-B, Part-C, Part-D)

Part A is under Western Region Strengthening Scheme-XIX and planned to address the high loading under high RE scenario.

Part B is under Western Region strengthening scheme-XIX and planned to strengthening the evacuation system associated with Kakrapar Atomic Power Plant (KAPP) and further to meet the increasing demand of Southern Gujarat, UT of Dadra & Nagar Haveli (DNH) and to address the issue of critical loading at Vapi and Kala 400/220 kV substations.

Part C is under Western Region Strengthening Scheme-XIX and planned to ensure supply of power to Mumbai area with reliability and security by providing additional ISTS feed to Navi Mumbai 400/220 kV sub- station along-with 220kV outlets from the substation.

Part D is under North-Eastern Region Strengthening Scheme – IX and planned to reduce overloading of Pare – Naharlagun / Nirjuli 132kV S/c line. Accordingly, the additional transmission system was identified for strengthening the evacuation system associated with Pare HEP.

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 : Mumbai Urja Marg Limited (erstwhile, 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)	: 2600
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 / Ambhethi (Vapi – II)

Land Acquired	: 100 %
Civil work completed	: 0 %

Equipment supplied	: 96.71%
Equipment erection	: 0 %
Scheduled COD	: 22-Apr-2023
Anticipated COD	: Dec-23

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. Fourth hearing completed on 28-09-2022 and final hearing completed on 12-10-2022 order of mutation entry is awaited.

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. Fourth hearing completed on 28-09-2022 next hearing scheduled on 12-10-2022.
10. District Administration support needed to start the construction work at new Goima land.

11. Cases filled u/s 16 of Indian telegraph act 1885 for ROW. Hearings should be fast tracked and orders to be issued from SDM & DM to resolve the ROW and start the construction activity with police protection.

Details of follow up actions:

1. CEA letter dated 30-04-2021 to District Collector, Valsad requested to extend necessary support to VNLTTL 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 VNLTTL 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.
9. Reviewed by Secretary (Power), MoP during PMG review meeting held on 22.08.2022 and Secretary (Coordination), Cabinet Secretariat held on 24.08.2022.
10. Hon'ble Cabinet Minister (Power, New & Renewable Energy) vide DO no 6/2/2017-Trans dated- 14-09-2022 requested Chief Minister of Gujarat to extend support in resolution of substation land issue for completion of the overall scheme within agreed timelines.
11. Project was reviewed by Secretary (Power), MoP during meeting held on 22.08.2022.
12. Project and issues were reviewed by Secretary (Power), MoP during meeting held on 03.10.2022
13. Project and issues were reviewed by Secretary (Power), MoP during meeting held on 14.11.2022.

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

Length	: 2 CKm (As per revised substation location)
Locations	: 3 nos (As per revised substation location)
Foundation completed	: 0 nos
Tower erected	: 0 nos
Stringing completed	: 0 Ckm
Scheduled COD	: 22-Apr-2023
Anticipated COD	: Dec-23

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, Ahmedabad. DG Signal: NOC issued on 11-07-2022
 Railway: NOC issued on 26-08-2022

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 : Dec-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 : 45 nos
 Tower erected : 33 nos
 Stringing completed : 0 Ckm
 Scheduled COD : 22-Apr-2023
 Anticipated COD : Jul-2023

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.
2. Project and issues were reviewed by Secretary (Power), MoP during meeting held on 14.11.2022.

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. DG Signal: NOC issued on 11-07-2022

Railway: NOC issued on 26-08-2022

Defence/Civil Aviation

Proposal submitted to : Proposal submitted
Defence/Civil Aviation
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 : 201 nos
Foundation completed : 14 nos
Tower erected : 5 nos
Stringing completed : 0 Ckm
Scheduled COD : 22-Dec-2023
Anticipated COD : 22-Jun-2024

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 approval received.
3. ROW issues at all non-forest locations (130 locations). Chronic ROW issue as landowners are not accepting the compensation rate decided by land compensation committee chaired by SDM as per guidelines of state for transmission line dated 31.05.2017.
4. SDM orders for all 5 Tehsils (Panvel, Thane, Ambernath, Kalyan, Bhiwandi) for revised rates as per New GR dated 02.11.2022 are in process and are pending.

Forest area

Details of Tr. Line Falling under :
Forest
Locations : 67 nos ; Length : 26.09 Kms
Forest area (Ha) : 119.99 Ha
Forest proposals submitted on : MH: 03 Jun'21, Hard copy submission
Current status : At State Government

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	: 18 nos
Approval obtained	: 16 nos

Railway crossing

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

National Highway / SH Crossing

Total no. of crossings	: 6 nos
Proposal submitted	: 5 nos
Approval obtained	: 0 nos

River Crossings

Total no. of crossings	: 4 nos
Proposal submitted	: 4 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 Civil Aviation under scrutiny at authority

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

Length	: 38 CKm
Locations	: 52 nos
Foundation completed	: 0 nos
Tower erected	: 0 nos
Stringing completed	: 0 Ckm
Scheduled COD	: 22-Dec-2023
Anticipated COD	: 22-June-2024

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 approval received
3. Delay in processing of Forest Diversion Proposal.
4. ROW issues at all non-forest locations (29 locations). Chronic ROW issue as landowners are not accepting the compensation rate decided by land compensation committee chaired by SDM as per guidelines of state for transmission line dated 31.05.2017.
5. SDM orders for all 2 Thesils (Panvel, Ambernath) for revised rates as per New GR dated 02.11.2022 are in process and are pending.

Status of statutory approvals:**Forest area**

Details of Tr. Line Falling under Forest	:	
Locations	:	23 nos ; Length : 7.6 Kms
Forest area (Ha)	:	35.224 Ha
Forest proposals submitted on	:	MH : 03 Jun'21, Hard copy submission
Current status	:	At State Government

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
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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	: Civil Aviation submitted
Defence/Civil Aviation	
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-June-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
3. ROW issues at all 8 locations. Chronic ROW issue as landowners are not accepting the compensation rate decided by land compensation committee chaired by SDM as per guidelines of state for transmission line dated 31.05.2017.
4. SDM orders for 1 Thesil (Panvel) for revised rates as per New GR dated 02.11.2022 are in process and is pending.

Status of statutory approvals:

Forest area

Details of Tr. Line Falling under	: N/A
Forest	
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	: 80 nos
Tower erected	: 62 nos
Stringing completed	: 23.62 Ckm
Scheduled COD	: 22-Jun-2023

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 of 3.55 Ha for these 3 locations is submitted on 09.08.2022. Additional Forest proposal will take around 6 months to get approved.

Details of Followup actions:

1. CEA Letter dated 29-10-2021 to Forest Dept, Govt of Assam seeking support in grant of Forest clearances.
2. Project was reviewed by Secretary (Power), MoP during meeting held on 03.10.2022.
3. Project was reviewed by Secretary (Power), MoP during meeting held on 14.11.2022.
4. Project and forest issue for 3 locations was reviewed by Secretary (Coordination), Cabinet Secretariat during meeting held on 30.11.2022

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 30.03.2022. Working Permission issued on 15.06.2022.

Arunachal : Stage-I received on 09.12.2021, Working Permission issued on 07.01.2022

Proposal for additional forest submission of 3 Nos. Location , Length 1.5Km and Total Area 3.551 Ha is submitted on 09.08.2022

However, due to some issue in PARIVESH Portal, the proposal has been again submitted on the portal on 17.09.2022.

Now proposal has been processed in offline mode on 30th Nov'22

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	: Final NOC received on 23.11.2022

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	: 100%
Electrical work completed	: 100%
Equipment Supplied	: 100 %
Scheduled COD	: 22-Jun-2023
Anticipated COD	: Dec-22

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

Length	: 33.42 ckm
Locations	: 56 nos
Foundation completed	: 6 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. Due to non-receipt of revised demand note from DC Itanagar 11 Nos. of location are under hold in Capital region.
3. Due to non-disbursement of compensation payments from DC Papumapre to the respective land owners, 12 Nos. of Location are under hold in Papumpare District.

Details of Followup actions:

1. CEA vide letter dated 03.10.2022 to Secretary, Department of Power, Arunachal Pradesh requested for intervention and to extend necessary administrative support in resolving the compensation issues in the district of Capital Complex and DC Papumpare.
2. Project and issues were reviewed by Secretary (Power), MoP during meeting held on 14.11.2022.

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 : 1 nos

National Highway / SH Crossing

Total no. of crossings : 2 nos

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 : As per guideline of IV Calculation is changed by CEA vide letter on dated 5th of August 2022. case has been sent to CEA on 12th August 2022. IV Calculation will be done by CEA

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation : Submitted

Current Status : NOC Received for Civil Aviation.
NOC received for Defence Aviation.

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

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

Scope of transmission project:

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

General Detail

Special Purpose Vehicle	: 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	: Dec'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	: 812 nos
Tower erected	: 812 nos
Stringing completed	: 656.3 Ckm
Scheduled COD	: 31-Dec-2020. /Aug'21*
Anticipated COD	: Dec'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 5 locations of 2.164 km (in Morbi, Spans for stringing)
- 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. 1 case in High court and 131 cases in Civil/District court are pending (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. Morbi: RoW clearance for 5 locations are balance for spans for stringing.

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
9. Reviewed by Secretary (Power), MoP during PMG review meeting held on 22.08.2022 and Secretary (Coordination), Cabinet Secretariat held on 24.08.2022.
10. Reviewed by Secretary (Power), MoP during PMG review meeting held on 03.10.2022
11. Project and issues were reviewed by Secretary (Power), MoP during meeting held on 14.11.2022.

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	:	85 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	: 31 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	: 100 %
Equipment supplied	: 100 %
Equipment erection	: 99 %
Scheduled COD	: 31 st Dec'2020/Aug'21*
Anticipated COD	: Dec'22 (Bus 1 charging under progress)

Constraints/Approval if any:

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

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	: 100 %
Equipment supplied	: 100 %
Equipment erection	: 98%
Scheduled COD	: 31 st Dec'2020/Aug'21*
Anticipated COD	: Dec'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	: 31 st Dec'2020/Aug'21*
Anticipated COD	: Dec'22 (Work already completed)

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

Background -

Presently, the state of Meghalaya has one 400/220 kV S/s at Byrnihat (MePTCL) and one 132kV S/s at Khlierhat (POWERGRID). Both of these ISTS substations are on eastern part of Meghalaya. Due to increasing power demand and for providing reliable power supply in the western part of Meghalaya, necessity of 220kV grid substation in the East Garo Hills district of western Meghalaya was felt to further strengthen its interconnection with grid, which is presently connected through 132 lines in radial manner.

System Studies have been carried out for 2022-23 timeframe. The anticipated peak demand of Meghalaya for 2022-23 timeframe is 478MW and the envisaged installed capacity of about 360MW, majority of these are from hydro generations. In low Hydro scenarios, the dispatch from these stations are expected to be limited to about 180MW, thereby creating a deficit in the supply of about 300MW. Accordingly, to simulate the worst case, low hydro peak demand scenario has been chosen to study the requirement of additional connections to meet the growing demand of Meghalaya. Due to the proximity of Bongaigaon TPS from the western part of Meghalaya, a large quantum of power flows through BTPS – Agia – Medinipathar – Nangalbibra corridor making it N-1 non-compliant.

Therefore, a new 220/132kV substation may be required at Nangalbibra which would be fed from Bongaigaon 400/220kV Substation through 400kV D/c line (initially operated at 220kV). This interconnection would reduce the critical loading on BTPS – Agia 220kV D/c line of AEGCL and improve the voltage profile as well as reliability of power supply in the western part of Meghalaya. Further, for drawal of power from Nangalbibra (ISTS), MePTCL has planned to develop Nangalbibra (ISTS) – Nangalbibra (Meghalaya) 132kV (Single Moose) D/c line. In addition, MePTCL has planning to develop Nangalbibra (ISTS) – Mawngap 220kV D/c line so that Bongaigaon (POWERGRID) – Nangalbibra (ISTS) – Mawngap (MePTCL) – Byrnihat (MePTCL) – Bongaigaon (POWERGRID) ring would be completed for power transfer with reliability. Considering future load growth, space for expansion of Nangalbibra (ISTS) 220/132kV S/s to 400kV at a later date would also be kept.

The western most part of Meghalaya is connected through long radial line from Nangalbibra (MePTCL) – Rongkhon – Ampati – Phulbari 132kV link. For reliable supply of power and improved voltage profile in western most part of Meghalaya, a second source from Assam side through Hatsinghmari (AEGCL) – Ampati (MePTCL) 132kV D/c line may be required.

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	: A Fresh Application was made to CEA.
Execution plan submitted to CEA	: 16.09.2022
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	: 310 nos
Foundation completed	: 58 nos
Tower erected	: 12 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. Delay in Forest Diversion Proposal for Assam as well as Meghalaya portion. In both the states proposal is currently at DFO level.
3. Identification of CA Land is pending for Meghalaya portion since 8th June'22 due to nonavailability of degraded forest land.
4. Delay due to heavy rainfall & subsequently waterlogged since May'22. Issue of water logging resolved by 25.10.2022.
5. Identification of CA Land is pending for Meghalaya portion since 8th June'22 due to nonavailability of degraded forest land. [Ongoing]
6. Facing severe ROW issues at 3 locations (27/0-Kathalguri village, 29/0 & 30/0-Garokhuta village) in Kokrajhar Tehsil of Kokrajhar District and not able to do execution work Since 01.11.2022.

Details of follow-up actions:

1. Issue was reviewed by CEA during meeting 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.
2. Project was reviewed by Secretary (Power), MoP during meeting held on 22.08.2022.
3. Project was reviewed by Secretary (Power), MoP during meeting held on 03.10.2022.
4. Project and issues were reviewed by Secretary (Power), MoP during meeting held on 14.11.2022.
5. CA Land: JS (Trans), MoP vide letter dated 11.11.2022 to CS, govt of Meghalaya requested to look into the matter and direct the concerned officers to consider the request of project developer to identify CA land in the neighboring States, preferably in Assam State, for timely completion of the project.
6. Letter issued to Circle Officer vide dated 4th Nov'22 regarding hindrance created & threatening given by Landowners.
7. Letter issued to SP, Kokrajhar & Circle Officer vide dated 24th Nov'22 regarding hindrance created & threatening given by Land owners.

Status of statutory approvals:**Forest area**

Details of Tr. Line Falling under Forest	:	
Locations	:	53nos ; 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 completed, FDP is currently at DFO since 07.05.2022 Meghalaya- Tree enumeration completed, FDP is currently at DFO since 15.06.2022

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	:	13
Approval obtained	:	10

Railway crossing

Total no. of crossings	:	4
Proposal submitted	:	4

Approval obtained : 0

National Highway / SH Crossing

Total no. of crossings : 9

Proposal submitted : 9

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 Defence/Civil Aviation : Civil aviation approved
Defense Aviation Proposal yet to submit

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

Length : 37 CKm

Locations : 57 nos

Foundation completed : 1 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	:	88%
Civil work completed	:	0 %
Equipment supplied	:	0 %
Equipment erection	:	0 %
Scheduled COD	:	Dec'23
Anticipated COD	:	Dec'23

Constraints/Approval if any:

Support required for acquisition of balance 3.4 Acre land of S/S in Nengkhra, Distt. East Garo Hills, Meghalaya

Details of Follow-up actions:

1. Project was reviewed by Secretary (Power), MoP during meeting held on 22.08.2022.
2. Project was reviewed by Secretary (Power), MoP during meeting held on 03.10.2022
3. Project was reviewed by Secretary (Power), MoP during meeting held on 14.11.2022
4. NBTL vide letter dated 04.10.2022 and 13.11.2022 to DC, East Garo Hills has requested for support to acquire 3.4 Acre of Land.

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:

13. Name of transmission project - Transmission System for evacuation of power from Pakaldul HEP in Chenab Valley HEPs – Connectivity System

Background -

Scope of transmission project

1. Establishment of 400/132 kV pooling station at Kishtwar (GIS) along with Bus Reactors at Kishtwar pooling station by LILO of one circuit of Kishenpur -Dulhasti 400kV D/C (Quad) line (Single Circuit Strung)
2. LILO of one circuit of Kishenpur – Dulhasti 400 kV D/c (quad) line at Kishtwar
3. 2 Nos. of 400kV bays at Kishtwar (GIS) for LILO of one circuit of Kishenpur -Dulhasti 400kV D/C (Quad) line (Single Circuit Strung)
4. 1 No of 400kV line bay at Kishtwar (GIS) for 2nd Circuit stringing of Kishtwar – Kishenpur section
5. 7x66.67 MVA I-Phase, 400/132 kV ICT along with associated bays at Kishtwar Pooling Station
6. 4 nos. of 132kV line bays (GIS) at Kishtwar Pooling Station

General Detail

Special Purpose Vehicle	: Kishtwar Transmission Limited. (Sterlite Grid 24 Limited; a subsidiary of Sterlite Power Transmission Limited)
Bid Process Coordinator (BPC)	: PFC Consulting Ltd
Estimated Cost (Rs. Crs)	: 250
Levelized Tariff (Rs. Crs)	: 38.846
Request for Qualification	: NA
Request for Proposal	: 04.02.2021
Letter of Intent	: 22.03.2022
Transmission Service Agreement (TSA)	: Delay in TSA signing by JKPCL(LTTC)
SPV acquisition	: Delay due to non-signing of TSA by JKPCL
Transmission License by CERC	:
Tariff adoption by CERC	:
Contract Performance Guarantee	:
Clearance u/s 164	:
Execution plan submitted to CEA	:
NIT issued on	:
EPC contract awarded on	:
Scheduled Date of Completion	: 01.04.2025

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	:	Mar '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 : 96%
- Equipment supplied: : 97%
- Erection works : 94%
- Schedule completion : Nov'19
- Anticipated completion : Feb '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.

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: 827 nos.
- Tower erected: 694 nos.
- Stringing completed: 229.72 ckm
- Schedule completion: Nov'19
- Anticipated completion Mar '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
Mancherial 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 for administrative support to execute 6 Location(116/8, 116/9, 116/11, 116/14, 118/6,123/0) which concern under Warora tahasil, district chandrapur was submitted to concern DC chandrapur on 20/09/21. 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 and DM order received on 19/8/2022. Resolution for the above is still awaited.

Order for the balance 4 location (101/2, 101/3, 101/5, 100A/0) 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. SDM Order Received on 8/6/2022

Erection Activity ROW :116/6,117/0,118/0,118A/3,118A/5,118A/7,118A/8,118A/9 and 118B/4

Total 09 locations Chandrapur District - 1st Hearing was held on 25/08/2022, 2nd hearing will held on 08/09/2022. Final hearing is scheduled on 07/12/2022.

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. Work commenced at Loc. No. 71/0 with Police Protection.
 2. Loc No 58/2,58/3 and 58/4 - District Mancherial.
 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 in 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. For section 89-90, it is decided to change the alignment by introducing additional tower so that the work shall be completed as per required timelines.

Writ Petition no. 29260/2022 This petition was dismissed by Hon'ble court for default on 30.11.2022 – Order awaited

- c) Heavy untimely rainfall in July has hampered the work badly. Various, Orange and Yellow alerts were issued by IMD in the month.
- d) 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. Now piling work has been started.

e) 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 memebers were changed and the Sub division level committees have also formed newly in the month of Nov'2021 on RoFR issues, hence latest GP resolution and Sub division level committee resolution are required for issue of Form-1 certificate for diverison of said proposed forest land. 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.

- i.) Revision in GR regarding compensation: Government of Maharashtra vide GR dated 02nd November 2022 has revised the compensation payment towards Corridor area and will have financial implication on TSP.

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. **Final Stage approval received on 05th August 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. The shutdown was reapplied and confirmed on 06.09.2022 & 29.09.2022 but differed. Shutdown was again applied for 07.10.22 and 17.10.22. Battery point finalisation is pending with PGCIL Warora.

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: 343 nos.
- Tower erected: 341 nos.
- Stringing completed: 248.24 ckm
- Schedule completion: Nov'19
- Anticipated completion: Dec '22

Constarints where Project Authority requires intervention:

- a) **RoW issue:** Severe RoW issue in the below stretches-
Jangaon District, Telangana State: AP 10 - AP 11

Yadadri Bhongir District, Telengana: 17/3, 21/6, 23/1, 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. Continuous hearings are being conducted by the Concerned RDO, however work is being held up at Loc. No. 47/0, 43/4, 52/2
Critical RoW is being faced at 7 locations, 03 nos. in Rangareddy and 04 nos. in Yadadri Bhuvangiri district of Telanaga wherein Administration's continuous support is required to complete the work.

Heavy untimely rainfall in July, has hampered the work badly. Various, Orange and Yellow alerts were issued by IMD in the month.

- 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. Stay at Loc. No. 2/6 could be vacated by Hon'ble High court of Telengana on 02nd September. As per Hon'ble high court order all the compliances fulfilled. However, administrative support from DC office is awaited. Work yet to commence at the location.

O.S no. 121 of 2018 filed in District Court (Bhongir) 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. Next hearing date awaited

Writ Petition no. 38068 of 2022 filed in Hon'ble High Court of Telangana by land owner of loc. no. 31/0 of 765 kV D/C Warangal – Hyderabad Line ON 16.9.2022.

IA Number : IA/1/2022 (OS 121) filed in Hon'ble District Court of Bhongiri, Telangana State by land owner of loc. no. 31/0 of 765 kV D/C Warangal – Hyderabad Line ON 12.7.2022.

- 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	:	16 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
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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:	116 nos.
Tower erected:	105 nos.
Stringing completed:	34.08 cKm.
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.
 - Heavy untimely rainfall in July, has hampered the work badly. Various, Orange and Yellow alerts were issued by IMD in the month.
 - **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. This petition was dismissed by Hon'ble court for default on 01.08.2022

Status of statutory approvals:
Forest - Nil

Power line crossing

Total no. of crossings	:	08 nos.
Proposal submitted	:	08 nos.
Approval obtained	:	04 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: 430 nos.
- Stringing completed: 329.53 ckm
- Scheduled COD: Nov'19
- Anticipated COD: Mar'23

Constraints where Project Authority requires intervention:

- a) **Severe ROW:** Work hampered due to severe RoW issue in below stretch
Nagarkurnool District, Telengana 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, 25430 of 2022 and 32681 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.

Injunction order has been given by the Hon'ble court for 8333 of 2022. Counter for the same has been filed on 31st March 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.

Writ Petition no. 32681 This petition was dismissed by Hon'ble court for default on 08.09.2022.

Writ Petition no. 25430 This petition was dismissed by Hon'ble court for default on 21.09.2022.

f) Work hampered badly during July, August 2022 because of heavy rainfall.

g) River Krishna was flooded unexpectedly and hence after completing 3 piling, the work on 4th piling was forced to be abandoned. Work could not be started because of high water level.

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	:	25.11.2022 (Approved)

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: 505 nos.
- Tower erected: 396 nos.
- Stringing completed: 58.018 ckm
- Scheduled COD: Nov'19
- Anticipated COD: Mar'23

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.

Writ Petition no. 28672 of 2022 filed in Hon'ble High Court of Telangana by land owner of loc. no. 34B/0 & 34C/0 of 765 kV D/C Warangal – C PETA Line. Hon'ble High Court has granted the stay on work.

Writ Petition no. 28672 This petition was dismissed by Hon'ble court for default on 21.09.2022 However, required police protection from the administration of Suryapeta District is awaited to commence the work at said location.

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

d) Heavy untimely rainfall in July, August'22 has hampered the work 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. Final Stage II Approval received on 22nd Aug 2022

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	:	03 no.
Approval obtained	:	02 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 (a subsidiary of Resurgent Power venture Pte Limited)
Bid Process Coordinator (BPC)	:	RECTPCL
Estimated Cost (Rs. Crs.)	:	437
Request for Qualification	:	25.08.2015
Request for Proposal	:	12.11.2015
Date of Letter of Intent	:	29.03.2016
Transmission Service Agreement (TSA)	:	13.01.2016
SPV acquisition	:	22.08.2016
Transmission License by CERC	:	07.12.2016
Tariff adoption by CERC	:	14.12.2016
Contract Performance Guarantee	:	11.08.2016
Clearance u/s 164	:	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 Koteshwar – Rishikesh agreeing with option no-02 for the termination of line traversing through IDPL land.

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

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

As per the instructions of Hon' able 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

On dated 25.08.22 Secretary, Animal Husbandry called a meeting regarding to the final IDPL NOC which has to be received from Animal Husbandry Dept. Govt. of Uttarakhand where he direct the NRSS XXXVI to resubmit the area of land which has to be utilize by NRSS XXXVI Transmission for the termination of Rishikesh - Koteswar TL Line of Animal Husbandry Dept. So as per above directive NRSS XXXVI is resubmitting the proposal for the erection of 03 nos of towers at Animal Husbandry Dept. land. NOC from Animal Husbandry Dept. Govt. of Uttarakhand has been received on 25.11.2022.

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

DFO Tehri through letter dated 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. Uttrakhand for IDPL NOC so that revised forest proposal can be submitted in compliance to DFO Dehradun letter no.1633/12-1 Dehradun dated ; 10.12.2018.
- b) CEA took meeting with NRSSXXXVI on 16.10.2020 review the issue.
- c) A meeting was held under the chairmanship of Joint Secretary (Trans), MoP on 11.11.2020 through video conference to review the status
- d) CEA once again requested Chief secretary for intervention vide letter dated 10.12.2020.
- e) A meeting was held under the chairmanship of Joint Secretary (Trans), MoP on 10.02.2021 to review the status of the NoC. TSP informed that there is no progress on NoC front. And support is required to expedite the same.
- f) A DO letter dated 22/02/2021 was sent to Chief Secretary, Uttrakhand by JS, MoP requesting to expedite the issuing of NoC.
- g) A meeting was taken by Secretary (P) on 15.06.21 to review the issues in the transmission project. Subsequently a meeting was taken by Member (PS) on 28-06-21, to review the same.

Status of statutory approvals:

Forest

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

Forest area affected (ha) : 96.60 ha

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

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

Power line crossing

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

Railway crossing

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

National Highway Crossing

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

Approval obtained : - nos. Date:

State Highway Crossing

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

River Crossings

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

PTCC approval

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

Defence/Civil Aviation

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

2.2 Nos. 400 kV bays at Rishikesh S/S

Land Acquired: NA
Civil work completed: -
Equipment supplied: -
Equipment erection: -
Scheduled COD Dec'19
Anticipated COD: Mar'23 / Minimum 27 no. of working months
required from the date of resolution of CERC Petitions, IDPL -NOC from 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 (RRVNL) – Bhiwani (PG) D/C line

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

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

Constarints where Project Authority requires intervention:**Severe RoW issues:**

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

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

Status of statutory approvals:**Forest**

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

Locations: 06 nos. (Rajsthan)

Length:

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

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

Current status: 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 (RRVPL) substation for LILO Line

Scheduled COD Dec'16

Deemed COD: 30 Oct'17

Under commercial operation.

6. 2 Nos. 400kV bays at Babai (RRVPL) 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 Uttarakhand 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
- Revised schedule completion date: 14 months from the date of NOC from CCL/MoC (considering receipt of forest approval within 200 days).
- Actual COD: 14.10.2022

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
- Foundation completed: 140 nos
- Tower erected: 132 nos
- 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.

Nodal informed NKTL to complete the area correction and other compliances in online portal in Part-I proposal in consultation with forest department. Same has been

completed and uploaded in online proposal on 30.08.2022 after due verification by respective DFOs. DFOs have completed the site visits. DFO Chatra south and DFO Chatra North have completed Part-II and forwarded to CF Chatra on 03.09.2022 and 07.09.2022 respectively. DFO Latehar has completed Part-II and forwarded to CF Medininagar on 13.09.2022. CF Chatra and CF Medininagar has completed Part-III and forwarded the proposal to Nodal, Ranchi on 20.09.2022. Nodal has completed Part-IV and forwarded the proposal to State Govt. Govt. Of Jharkhand for further Part-V process. Further, State Govt. had raised EDS, against which compliance has been submitted by nodal office on 29.11.2022 to State Govt.

Presently, proposal is with State Govt. for Part-V process.

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 delay 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) : 197.0115 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 State Govt. level for Part-V 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 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 PFCL 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	:	03.09.2022.
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 : 100%
- Engineering : 60%
- Civil Works : 20%
- Equipment supplied : 20%
- 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 100 % Completed
- Schedule completion: July-2023
- Anticipated completion: July-2023
- **Status of statutory approvals:**
- **Defence Aviation** : NOC received on 10.11.2022.
- **Civil Aviation** : Application submitted on 10.11.2022.
- **Current Status** : Approval Awaited.
- **PTCC**
- Proposal submitted to LD telecommunication Division on 20.11.2022

- Current status : Approval Awaited.
- LILO Proposal to PGCIL. : Application Submitted on 19.09.2022
- Current Status : Approval awaited.

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

- Land acquisition : 80%(Present Scope Land Acquisition completed), Soil Investigation & Contour work also completed.
- Engineering : 20%
- Civil Works : Levelling & Precast Boundary wall work is in progress:
- Equipment supplied :
- Erection works :
- Schedule completion : July-2023
- Anticipated completion : July-2023

18. 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) (A subsidiary of Adani Transmission Limited)	:	Khavda Bhuj 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	:	02.09.2022
Execution plan to CEA	:	Submitted on 10.05.22
NIT issued on	:	
EPC contract awarded on	:	Awarded
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 : DC Office has put up the proposal on 12.09.2022 to Revenue Dept, Gandhinagar for approval. (Land to be recieved on lease basis from Govt. Of Gujarat)
- Engineering : 16 %
- Civil Works :
- Equipment supplied :
- Erection works :
- Schedule completion : Jan-2024
- Aniticipated completion : Jan-2024

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

- Length: 109 ckm
- Locations: 275 nos
- Foundation completed: 29 nos
- Tower erected: 00 nos
- Stringing completed: 00 ckm
- 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 construction issued vide mail dated 18.08.2022 by PGCIL, Bhuj
- Engineering : 95%
- Civil Works : 1 %
- Equipment supplied :
- Erection works :
- Schedule completion : Jan-2024
- Anticipated completion : Jan-2024

Issues:

- Land for substation at Khavda S/s along with approach road yet to be handed over by Govt of Gujarat for execution of Substation Work. Regarding the same, following correspondence has been done by KBTL-

S No	Description	From	To
1	Confirmation of modality for land handover vide letter no. KBTL/24022022 dated 24.02.2022	KBTL	Chief Project Officer, GPCL, Gujarat
2	Confirmation of modality for handover of land at Khavda for Substation vide letter no. KBTL/ADMIN/2022/07 dated 07.04.2022	KBTL	District Collector, Kutch
3	Regarding Handover of land vide letter no. KBTL/20042022/04 dated 27.04.2022	KBTL	Chief Project Officer, GPCL, Gujarat
4	Letter regarding revised co-ordinates of Khavda S/s due to overlapping of patch with AGEL allotted land vide letter no. KBTL/ADMIN/2022/29 dated 06.05.2022	KBTL	District Collector, Kutch
5	Letter regarding handing over of land for setting up the approach road vide letter no. KBTL/ADMIN/2022/35 dated 15.06.2022	KBTL	District Collector, Kutch
6	Letter regarding handing over of ROU for approach road for KPS-1 vide letter no. KBTL/08092022/05 dated 08.09.2022	KBTL	Chief Project Officer, GPCL, Gujarat

- **Status:** S/s Land Proposal pending with Revenue department, Gandhinagar (Govt of Gujarat) since 12-09-22 for approval.
- Subsequent to KBTL letter no KBTL/08092022/05 dated 08-09-22 regarding RoU for approach road, a letter dated 18-10-22 from District Collector., Bhuj issued for conducting DILR Survey to District Land Revenue Office, Bhuj which is yet to be done.

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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 vide letter dated 11.05.2022 and DCF, Banni Grassland vide letter dated 19.05.2022 raised observations regarding specification for installation of bird divertors as per recent order of Hon'ble Supreme Court issued for protection of GIB and along with undertaking for same and tree details to be felled. The company vide its letter dated 27.05.2022 submitted requisite details for installation of Bird Divertors in accordance with specification guidelines issued by CEA in respect of bird divertors along with Undertaking. Further, RFO, Sargu & Sarau vide its letter dated 02.07.2022 & 05.07.2022 respectively to DCF, Banni Grassland submitted tree felling details. DCF, Banni Grassland vide letter dated 05.07.2022 raised observation regarding specification of bird divertors to be installed in the transmission line as per direction of Hon'ble Supreme Court.

The company vide its letter dated 25.07.2022 again submitted the required details. DCF, Banni Grassland forwarded the online proposal to CF, Kutch Circle on 02.09.2022. CF, Kutch raised certain observations & sought clarification regarding tower height, line execution methodology, undergrounding of transmission line, feasibility of insulated cabling & installation of bird diverter etc. The company vide its letter dated 01.10.2022 submitted the clarifications to the observations raised.

CF, Kutch processed the EDS compliance on dt. 03.11.2022 & subsequently, Nodal Officer, Gandhinagar on dt. 17.11.2022 forwarded the Proposal to State, Govt. for further forwarding of Proposal to IRO.

Power line crossing

Total no. of crossings : 07 no.
Proposal submitted : 07 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 : 01 no.
Approval obtained : 00 no

PTCC

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

Defence/Civil Aviation

Current Status : NOC for Defence Aviation obtained

19. 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:

- KTL has successfully completed the acquisition of land, further process of Non-Agricultural land has been initiated with concern authority The acquired land has a village road which needs a diversion and same has been taken up with the concern authority.
- Design and Engineering Works is under Progress. TSP has completed ~60% of Substation Engineering Works.
- 400kV yard land levelling work has been completed
- 220kV yard levelling WIP. Planned to be completed in Dec 22
- Boundary wall WIP.
- Foundation excavation completed for both the ICTs
- 400kV Gantry Tower foundation WIP.

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

• Status:

- Design and Engineering Works is under Progress. TSP has completed ~60% of Substation Engineering Works
- Foundation excavation completed.

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

Status:

- a) Route Survey Activity for Transmission Line Route has been completed & construction WIP.
- b) Design and Engineering Works is under Progress. TSP has completed 80% of Transmission Line Engineering Works.

Length: 16.901 KM

Locations: 47

Foundation completed: 01

Tower erected: 00

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 ~60% of Substation Engineering Works

Status of statutory approvals:

- **Forest Land Confirmation-** Forest land parcels details for Osmanabad has been recieved and same details are awaiting from Beed
- **Approval for Tapping Arrangement of both Ckt. of Parli(PG)-Pune(GIS) 400KV D/C line-** Approved
- **State Highway X-ing Approval-** NOC recieved
- **PTCC Approval-** Application submitted.
- **Aviation Clearance-** Route Survey has been done by AAI authorised agency. Reports awaited.

20. 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 MVA, 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	:	216 nos
Tower erected	:	168 nos
Stringing completed	:	24.92 kms
Scheduled COD	:	June'23
Anticipated COD	:	Mar'23

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:

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. Meeting with land owners for Tadkal village held on 05.09.2022. However, order yet to be issued. Work on 11 locations and 4 kms affected.
Gadag	Gajendragad	Order issued by office of District Collector, Gadag on 03.11.2022.
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.

2. With the help of administration, TSP was able to resolve 09 nos locations. However, still facing severe ROW issues at the following 39 locations and not able to do the work.

District	Taluka	Village Name	No. of Location	Loc. No.
Vijayapura	Basavan Bagewadi	Mutagi	2	AP-6 & AP-8
		Golasangi	2	AP-9 & 8/9

		Mukartihala	3	AP-10/2 & 10/3,10/4,
		Unnibhavi	2	10/5, 10/6,
	Nidagundi	Nidgundi	1	16/8
		Badavadki	1	18/0
Bagalkot	Bagalkot	Devalapur	1	27/5
	Hungund	Hiremalgaon	2	29/0, 30/3
Gadag	Gajendragada	Gowdagari	3	44A/0 to 46
Koppal	Yelburga	Mudhol	2	50/7, 50/8
		Itagi	13	51/9 to 51A/9
Koppal	Kuknoor	Tadakal	7	AP51D, AP52, AP53, AP54, AP55, AP56 & AP57

3. Forest proposal submitted on 22.02.2022. After acceptance of proposal by Nodal officer, hard copy of the proposal has been submitted to DFO, Koppal on 23.05.2022. Joint visits, Enumeration and ground assessment has been done. Currently proposal is pending with the office of DFO, Koppal for last six months for their recommendation..
4. Due to unprecedented continuous heavy rains in Karnataka, the execution work including mobilization of material, manpower and machinery was severely affected from 28th Aug 2022 to 20th Sept 2022 and 30th September 2022 to 28th October 2022.

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
3. A meeting was held under the chairmanship of Secretary (Power), MoP on 22.08.2022 to review the status of the project. TSP appraised on the delay in forest approval and the severe ROW issued in the transmission line, as detailed above,
4. A meeting was held under the chairmanship of Secretary (Power), MoP on 03.10.2022 to review the status of the project.
5. CEA letter to Principal Chief Conservator of Forests, bearing Ref No. CEA-PS-13-22(13)/1/2018-PSPM Division-Part (1) dated 28-10-2022 to expedite the process of stage-I approval.
6. MOP letter to Chief Secretary, Govt of Karnataka bearing Ref No. DO NO. 6/4/2017-Trans dated 22-11-2022 for immediate resolution of ROW issues as well as approval of forest proposal and administrative support.

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	:	12 nos.

Railway crossing

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

National Highway / SH Crossing

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

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
	:	Approval Pending

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation	:	Submitted
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Current Status	:	Civil Aviation Approval received 30.08.2022 and and Defence Aviation received on 08.08.2022
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Status of progress of Substation/ Extension: -

2. a.1). 2x500MVA, 400/220 kV Koppal Pooling Station alongwith 2x125 MVar, 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	:	58%
Equipment supplied	:	75%
Equipment erection	:	14%
Scheduled COD	:	June'23 & Dec'23
Anticipated COD	:	Mar'23, 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	:	61 %
Equipment supplied	:	75 %
Equipment erection	:	3 %
Scheduled COD	:	June'23
Anticipated COD	:	Mar'23

21. 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 & Wind 8.5GW) 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	: 06.10.2022
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	:	42 nos.
Tower erected	:	Work Started
Stringing completed	:	-
Scheduled COD	:	Sept'23
Anticipated COD	:	June'23

Constraints / approval; if any:

1. Vide letters dated 13th June 2022, TSP has requested District Collector, Bagalkot for fixation of compensation towards Right of Way (RoW) to land owners. Meeting with land owners held on 07.10.2022. Order dated 27.10.2022 received on 04.11.2022.
2. Due to unprecedented continuous heavy rains in Karnataka, the execution work including mobilization of material, manpower and machinery was severely affected from 28th Aug 2022 to 20th Sept 2022 and 30th September 2022 to 28th October 2022.
3. Forest proposal vide no. FP/KA/TRANS/400988/2022 was submitted online on Parivesh Portal on 30th Aug 2022. However, same has been returned by MOEFCC on 12th Sept 2022 for re-submission as per new forms on Parivesh portal. Proposal was re-submitted on 22nd September 2022, however, same is yet to accepted and under examination.

Details of follow-up actions:

1. CEA letter to Principal Chief Conservator of Forests, bearing Ref No. CEA-PS-13-22(13)/1/2018-PSPM Division dated 16-11-2022 to expedite the process of stage-I approval.
2. MOP letter to Chief Secretary, Govt of Karnataka bearing Ref No. DO NO. 6/4/2017-Trans dated 22-11-2022 for approval of forest proposal.

Status of statutory approvals:

Forest area

Details of Tr. Line Falling under Forest:-

Locations	:	0 nos. ; Length 0.341 Kms
Forest area (Ha)	:	1.569 Ha
Online proposal submitted on	:	Submitted on 30.08.2022. Re-submitted on Parivesh 2.0 portal on 22.09.2022.
Current status	:	Under examination.

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	:	15 nos.
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Proposal submitted	:	12nos.
Approval obtained	:	7 nos.

Railway crossing

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

National Highway / SH Crossing

Total no. of crossings	:	9 nos.
Proposal submitted	:	7 nos.
Approval obtained	:	6 nos. (SH)

River Crossings

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

PTCC approval

Current status	:	Yet to submit
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Defence/Civil Aviation

Current Status	:	Yet to submit
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2. (a) 1x500MVA, 400/220 kV Gadag Pooling Station alongwith 1x125 MVA, 400kV bus reactors (Scheduled COD: Sept'2023)

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

Land Acquired	:	82 % land acquired. Balance under acquisition
Civil work completed	:	Land leveling work in progress.
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	:	100%. Provided by PGCIL.
Civil work completed	:	
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Sept'23
Anticipated COD	:	June'23

22. 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 Second hearing Scheduled on Dated 08/09/2022 (Order Reserved)

Tariff adoption by CERC	: already applied and final hearing completed and order released Dated 08/08/2022
Contract Performance Guarantee	: 21.05.2022
Clearance u/s 164	: Approval still awaited
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	: 24 nos
Tower erected	: 01 nos
Stringing completed	: 0 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
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h. Defence/Civil Aviation

Current Status	:	Yet to be Submit
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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	:	10 %
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

Status of statutory approvals:

a. Forest area	:	Nil
b. Wildlife area	:	Nil
c. Power line crossing		
Total no. of crossings	:	15 nos.
Proposal submitted	:	12 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:

- 1.
- 2.

Details of follow-up actions:

1. Request for Permission of Control Blasting in substation area has been applied in the office of ADM- Agar District- Dated 04/08/2022, Permission is still awaited. Due to encounter of Hard rock in Sub-Station Area, Productivity in Land development work has been slow down.

23. Name of the Transmission Scheme – 400 kV D/c Khandukhal (Srinagar) – Rampura (Kashipur) line (Twin HTLS*) (KRTL)

Background

Scope of transmission project

1. 400 kV D/c Khandukhal(Srinagar) – Rampura (Kashipur) line (Twin HTLS*) – 194 Km
2. 1x80MVA switchable line reactor at Rampura (Kashipur) end on each circuit of Khandukhal (Srinagar) - Rampura (Kashipur) line
 - a) Switching equipment for 420 kV 80 MVAR switchable line reactor –2 nos.
 - b) 420 kV, 80 MVA Switchable line reactor- 2 nos.
3. 1 no. of 400 kV line bay at Rampura (Kashipur) S/s
 - a) 400 kV line bay -1 no.
4. Upgradation of existing 400kV bays at Khandukhal (Srinagar)
 - a) Upgradation works for 400 kV line bays -2 nos.

General Details

Special Purpose Vehicle	: Khandukhal Rampura Transmission Limited (KRTL) (Subsidiary of Megha Engineering & Infrastructures Limited (100%))
Bid Process Coordinator (BPC)	: PFC CONSULTING LIMITED (PFCCL)
Estimated Cost (Rs. Crs)	: -----
Levelised Tariff(Rs. Crs)	: 58.720
Request for Qualification	: -----
Request for Proposal	: 11-03-2022
Letter of Intent	: 07-09-2022
Transmission Service Agreement (TSA)	: 07-10-2022
SPV acquisition	: 07-10-2022
Transmission License by CERC	: Submitted on 11-10-2022 (Dairy No. 433/2022, Dt: 12.10.2022)
Tariff adoption by CERC	: Submitted on 11-10-2022 (Dairy No. 431/2022, Dt: 12.10.2022)

Contract Performance Guarantee	: 07-10-2022
Clearance u/s 164	: NEWS paper Publication done on 31.10.2022 & Application submitted and under process.
Execution plan submitted to CEA	: Will be submitted on or before 05.04.2023 as per TSA
NIT issued on	: Under process
EPC contract awarded on	: Will be submitted on or before 05.04.2023 as per TSA
Scheduled Date of Completion	: 30.09.2024

Status of progress of transmission project

1. 400 kV D/c Khandukhal(Srinagar) – Rampura (Kashipur) line (Twin HTLS*) – 194 KM

- Status: 134.77 KM Detail survey in plain & Hill area has been completed against 194 KM. Preparation of Profile and towers schedules under Progress. Balance Hilly terrain area Detail survey under process.
- 2. **1x80MVAr switchable line reactor at Rampura (Kashipur) end on each circuit of Khandukhal (Srinagar) - Rampura (Kashipur) line**
 - a) **Switching equipment for 420 kV 80 MVAR switchable line reactor –2 nos.**
 - b) **420 kV, 80 MVAr Switchable line reactor- 2 nos.**
- Status: KRTL has requested PTCUL Vide ref: MEIL/PD-Proj/KRTL/1322/2022-23/ 892B Date: 28.10.2022 for handing over of site to initiate the preliminary works i.e. SLD preparations etc.,

3. 1 no. of 400 kV line bay at Rampura (Kashipur) S/s

- b) **400 kV line bay -1 no.**
- Status: KRTL has requested PTCUL Vide ref: MEIL/PD-Proj/KRTL/1322/2022-23/ 892B Date: 28.10.2022 for handing over of site to initiate the preliminary works i.e. SLD preparations etc.,

4. Upgradation of existing 400kV bays at Khandukhal (Srinagar)

- b) **Upgradation works for 400 kV line bays -2 nos.**

- **Status:** KRTL has requested PTCUL Vide ref: MEIL/PD-Proj/KRTL/1322/2022-23/892B Date: 28.10.2022 for handing over of site to initiate the preliminary works i.e. SLD preparations etc.,

Status of statutory approvals:

- Forest Land Confirmation- KRTL has requested DFO of Kotdwara Vide ref: MEIL/PD-Proj/KRTL/1322/2022-23/729/01 Date: 31.10.2022 to permit for carrying out Detail survey & tree enumeration - support of division, rangers etc., for identifying the Forest Land in T/L route.
- KRTL has completed 24.27 KM Detail survey in forest area out of 25 KM (Approx). Balance work are under progress.

24. 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.

25. 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.