



भारत सरकार
Govt. of India
विद्युत् मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
नई दिल्ली
New Delhi

**Monthly progress Report of
Transmission Projects awarded through
Tariff Based Competitive Bidding (TBCB)
Route
(Under Construction Projects)
(As on 30.11.2023)**

(Published in fulfilment of CEA's obligation under section 73(i) & (j) of the Electricity Act, 2003)

(Disclaimer: The information published in this report is for indicative purpose only and shall not be used as a ground to claim time & cost overrun. Further, in no way this information, as per article 5.8 (Remedial measures) of TSA, relieves the TSP of its obligations in the agreement.)

In this report single star mark (*) represent that 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.

In this report double star mark (**) represent that as 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.

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Summary

Total Transmission Projects Awarded	92
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POWERGRID

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 765 kV and 400 kV transmission system interconnecting Bhadla-II, Fatehgarh-II, Sikar & Khetri along with establishment of 765/400 kV new substation at Sikar-II & Narela and 400/220 kV new substation at Bikaner-II & Ramgarh-II have been planned.

The subject transmission scheme involves establishment of 400/220 kV Ramgarh-II S/s & implementation of Ramgarh-II PS – Fatehgarh-II PS 400 kV D/c & Ramgarh –II PS– Jaisalmer-II (RVPN) 400 kV 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 400 kV D/C line (Twin HTLS)

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

Substation

Establishment of 400/220 kV , 4X 500 MVA substation at Ramgarh –II (Fatehgarh –III) with 2x 125 M6VAr Bus reactors

02 No 400 kV 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.
Levellers 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	: 20.12.21

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

Length:	44 km
Locations:	114 Nos.
Foundation completed	114 Nos.
Towers erected	114 Nos.
Stringing completed	44 km
Scheduled COD	Sep'22/Dec'22**
Anticipated COD	Dec'23

Status of statutory approvals:

River Crossings

Total No. of crossings	:	NIL	Nos.
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Power line crossing

Total No. of crossings	:	10	Nos.
Proposal submitted	:	10	Nos.
Approval obtained	:	10	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 (0.0920 Ha): Online Submission:28.04.21. Stage-I accorded from O/o Sec (Forest), Govt. of Raj on 18.11.2021 Stage-II issued on 20.01.23.

PTCC approval	:	Proposal submitted , under approval.
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Defence Aviation	:	NOC Received
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Civil Aviation	:	NOC Received
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2. Ramgarh II – Jaisalmer-II (RVPNL) 400 kV D/C line (Twin HTLS)

Award placed to M/s KPTL

Length:	50 km
Locations:	129 Nos.
Scheduled COD	Sep'22/Dec'22**
Actual COD	Sep'23

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

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

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

(b) Extension of 400 Fatehgarh-II Substation

Land Acquisition	:	Available
Civil work completed	:	99%
Equipment supplied	:	99%
Equipment erection	:	99%
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD	:	Dec'23

(c) Extension of 400 kV Jaisalmer II Substation

Scheduled COD	:	Sep'22/Dec'22**
Actual COD	:	Sep'23

Constraints 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-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 765 kV and 400 kV transmission system interconnecting Bhadla-II, Fatehgarh-II, Sikar & Khetri along with establishment of 765/400 kV new substation at Sikar-II & Narela and 400/220 kV new substation at Bikaner-II & Ramgarh-II have been planned.

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

Scope of Transmission Project-

Transmission Line

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

Substation

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

General Details

Special Purpose Vehicle (SPV) (A subsidiary of POWERGRID)	:	POWERGRID Bhadla Transmission Limited
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	:	22.02.22 (20.11.2023- for diverted route)
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 765 kV D/C line (Twin HTLS)

Award placed to M/s L&T and M/s KEC

- Length: 202.3 km
- Locations: 529 Nos.
- Foundation completed 442 Nos.
- Towers erected 340 Nos.
- Stringing completed 20.5 km
- Scheduled COD Dec'22
- Anticipated COD Feb'24

Status of statutory approvals:

River Crossings

Total No. of crossings : NIL

Power line crossing

Total No. of crossings : 21 Nos.
Proposal submitted : 21 Nos.
Approval obtained : 21 Nos.

Railway crossing

Total No. of crossings : 02 Nos.
Proposal submitted : 02 Nos.
Approval obtained : 02 Nos.

National Highway Crossing

Total No. of crossings : 02 Nos.
Proposal submitted : 02 Nos.
Approval obtained : 02 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.
Stage-II accorded on 23.11.2022.

PTCC approval : Proposal submitted , under approval.

Defence Aviation : Proposal approved.

Civil Aviation : Proposal approved.

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.
2. Supreme Court committee clearance in GIB case received on 18.07.22 with diverted route.
Transmission license received on 25.11.22.

Status of progress of Substation and Bay Extensions:-

1. Extension of 765 kV Fatehgarh II Substation

Land Acquisition	:	Available.
Civil work completed	:	85%
Equipment supplied	:	85%
Equipment erection	:	70%
Scheduled COD	:	Dec'22
Anticipated COD		Feb'24

2. Extension of 765 kV Bhadla II Substation

Land Acquisition	:	Available
Civil work completed	:	85%
Equipment supplied	:	85%
Equipment erection	:	65%
Scheduled COD	:	Dec'22**
Anticipated COD		Feb'24

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.

3. 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 1.05 GW in Bhadla complex, 2.2 GW in Fatehgarh complex, 1.9 GW in Ramgarh and 2.95 GW in Bikaner.

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

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

Scope of Transmission Project-

Transmission Line

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

Substation

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

General Details

Special Purpose Vehicle (SPV)	:	POWERGRID Sikar Transmission Limited (A subsidiary of POWERGRID)
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	:	19.04.23
Execution plan submitted to CEA	:	Submitted.
EPC awarded on	:	NOAs issued

Scheduled Date of Completion : Dec'22

Status of progress of transmission project:-

1. Bhadla II – Sikar II 765 kV D/C line (Award placed to M/s KEC)

Length	:	309 km
Locations	:	808 Nos.
Foundation completed	:	666 Nos.
Towers erected	:	586 Nos.
Stringing completed	:	119.6 km
Scheduled COD	:	Dec'22
Anticipated COD	:	Jun'24

Status of statutory approvals:

River Crossings

Total No. of crossings : NIL

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	:	03	Nos.

National Highway Crossing

Total No. of crossings	:	04	Nos.
Proposal submitted	:	04	Nos.
Approval obtained	:	04	Nos.

Forest:

Forest (0.5428 Ha): Online Submission:01.06.2021; On 06.10.23, CCF, Jodhpur has sought additional details from DFO, Jodhpur & reply for the same submitted to CCF, Jodhpur on 30.10.23.

PTCC approval : Proposal under finalization due to change in land

Defence Aviation : Proposal under finalization due to change in land

Civil Aviation : Proposal under finalization due to change in land

2. Sikar II - Neemarana 400 kV D/C line (Twin HTLS) (Award placed to M/s KEC)

Length	:	135 km
Locations	:	394 Nos.
Foundation completed	:	283 Nos
Towers erected	:	263 Nos.
Stringing completed	:	26.3 km
Scheduled COD	:	Dec'22
Anticipated COD	:	Jun'24

Status of statutory approvals:**River Crossings**

Total No. of crossings	:	NIL
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Power line crossing

Total No. of crossings	:	19	Nos.
Proposal submitted	:	19	Nos.
Approval obtained	:	19	Nos.

Railway crossing

Total No. of crossings	:	02	Nos.
Proposal submitted	:	01	Nos.
Approval obtained	:	01	Nos.

National Highway Crossing

Total No. of crossings	:	04	Nos.
Proposal submitted	:	03	Nos.
Approval obtained	:	03	Nos.

Forest (13.013 Ha, Rajasthan): Online proposal submitted on 29.06.2021 & accepted by Nodal on 19.08.2021. Stage-I clearance accorded on 22.12.2022. Compliance Submitted on 11.04.2023. Compliance to FRA (Forest Rights Act) under submission for Stage-II approval.

Forest (0.483 Ha, Haryana): Online proposal submitted on 08.08.2021 & accepted by Nodal on 20.08.2021 Stage-I issued on 07.08.23. Demand letter received on 21.08.23. Stage-I compliances are submitted on 09.10.23 & same forwarded to Regional Office, MoEF&CC, Chandigarh on 10.11.2023.

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. 765/400 kV Sikar II New Substation**

Land Acquisition	:	Govt. Land possession awaited
Civil work completed	:	to Start
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Dec'22**
Anticipated COD	:	Jun'24

2. Extension of 765 kV Bhadla II Substation

Land Acquisition	:	Available
Civil work completed	:	99%

Equipment supplied	:	99 %
Equipment erection	:	99 %
Scheduled COD	:	Dec'22**
Anticipated COD	:	Jun'24

3. Extension of 400 kV Neemrana Substation

Land Acquisition	:	Available
Civil work completed	:	99%
Equipment supplied	:	99%
Equipment erection	:	99%
Scheduled COD	:	Dec'22**
Anticipated COD	:	Jun'24

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.
2. Supreme Court Committee clearance received on 13.01.22. Transmission Licence received on 27.05.22.
3. POWERGRID was facing difficulty in purchase of land within BPC specified radius. Issue raised with MoP for increasing the radius. Direction for resolution of issue received in meeting held in May'23 under chairmanship of Secretary Power.
4. Proposal of Govt. land approved in Rajasthan Cabinet meeting held in Sep'23. Demand note received and payment made. Due to code of conduct in Rajasthan State, DC-Sikar requested Chief Election Officer for allowing allotment of land to POWERGRID.

4. 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 765 kV and 400 kV transmission system interconnecting Bhadla-II, Fatehgarh-II, Sikar & Khetri along with establishment of 765/400 kV new substation at Sikar-II & Narela and 400/220 kV new substation at Bikaner-II & Ramgarh-II have been planned.

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

Scope of Transmission Project-

Transmission Line

Sikar II- Aligarh 765 kV D/C line

Substation

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

General Details

Special Purpose Vehicle (SPV)	:	Sikar II – Aligarh Transmission Limited (A subsidiary of POWERGRID)
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	:	20.10.22
Execution plan submitted to CEA :		To be submitted.
EPC awarded on	:	NOAs issued
Scheduled Date of Completion	:	Dec'22

Status of progress of transmission project:-

1. Sikar II – Aligarh 765 kV D/C line (Award placed to M/s KPTL)

Length	:	256.7 km
Locations	:	681 Nos.
Foundation completed	:	657 Nos.
Towers erected	:	646 Nos.
Stringing completed	:	241 km
Scheduled COD	:	Dec'22
Anticipated COD	:	Jun'24

Status of statutory approvals:

River Crossings

Total No. of crossings	:	NIL	Nos.
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Power line crossing

Total No. of crossings	:	36	Nos.
Proposal submitted	:	36	Nos.
Approval obtained	:	36	Nos.

Railway crossing

Total No. of crossings	:	03	Nos.
Proposal submitted	:	03	Nos.
Approval obtained	:	03	Nos.

National Highway Crossing

Total No. of crossings	:	06	Nos.
Proposal submitted	:	06	Nos.
Approval obtained	:	06	Nos.

Forest (15.6043 Ha, Rajasthan): Online proposal submitted on 26.07.2021 & accepted by Nodal on 03.09.2021. Stage-I issued on 10.08.23. Payment done. Stage-I compliances are submitted on 14.09.23 and forwarded to Nodal Officer on 09.10.23.

Forest (15.8589 Ha, Haryana): Online proposal submitted on 19.08.2021 & accepted by Nodal on 23.09.2021. Stage-I issued on 08.05.23. Stage-II issued on 13.07.23.

Forest (1.3668 Ha, UP): Online proposal submitted on 25.08.2021. 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. Working permission accorded on 17.11.22.

PTCC approval	:	Under approval
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Defence Aviation	:	NOC received.
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Civil Aviation	:	NOC received.
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Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.

Status of progress of Substation and Bay Extensions:-**1. Extension of 765 kV Sikar II Substation**

Land Acquisition	:	Govt. Land possession awaited
Civil work completed	:	
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Dec'22**
Anticipated COD	:	Jun'24

2. Extension of 765 kV Aligarh Substation

Scheduled COD	:	Dec'22**
Actual COD	:	Sep'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-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 765 kV and 400 kV transmission system interconnecting Bhadla-II, Fatehgarh-II, Sikar & Khetri along with establishment of 765/400 kV new substation at Sikar-II & Narela and 400/220 kV new substation at Bikaner-II & Ramgarh-II have been planned.

The subject transmission scheme involves establishment of 765/400 kV Narela S/s & implementation of Khetri – Narela 765 kV D/c Line & LILO of 765 kV S/c Meerut – Bhiwani line at Narela.

Scope of Transmission Project-

Transmission Line

1. Khetri – Narela 765 kV D/c Line
2. LILO of 765 kV 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 400 kV (1x125 MVAR) bus reactor.
2. Construction of 02 No 765 kV bays at Khetri for Khetri – Narela 765 kV 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	:	₹ 1618 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	:	27.01.23

Execution plan submitted to CEA	:	To be Submitted.
EPC awarded on	:	NOAs for all package issued except Reactors
Scheduled Date of Completion	:	Nov'23

1. **Khetri – Narela 765 kV D/C line**

Award placed to M/s TLL

Length	:	170 km
Locations	:	459 Nos.
Foundation completed	:	337 Nos.
Towers erected	:	271 Nos.
Stringing completed	:	17.6 km
Scheduled COD	:	Nov'23
Anticipated COD	:	Mar'24

Constraints being faced during execution:

RoW at 79 locations in Jhajjar district and 4 locations In Mahendragarh district, Haryana.

Status of statutory approvals:

Power line crossing:

Total No. of crossings	:	38	Nos.
Proposal submitted	:	38	Nos.
Approval obtained	:	38	Nos.

Railway crossing:

Total No. of crossings	:	5	Nos.
Proposal submitted	:	2	Nos.
Approval obtained	:	1	Nos.

National Highway Crossing:

Total No. of crossings	:	9	Nos.
Proposal submitted	:	8	Nos.
Approval obtained	:	4	Nos.

Forest Rajasthan (3.6619 Ha) – Online proposal submitted in Nov'22. On 12.09.23, Sec (F), govt. of Rajasthan has sought additional details & same has been forwarded to Sec (Forest), Govt. Of Raj by Nodal officer, Jaipur on 10.10.23. Now Proposal is under approval at Sec (Forest), Govt. of Raj.

Forest Haryana (16 Hectare) – Proposal submitted on 03.02.23. . Sec (Forest) Govt. of Haryana has recommended the proposal in Part-IV & forwarded to Regional Office, MoEF&CC, Chandigarh on 27.10.2023. On 17.11.23, Sec(F), Govt. of Haryana has sought additional information from User Agency and reply of the same is under preparation.

Forest Delhi (0.95 Hectare)- Online proposal submitted on 25.08.23. Part-II recommendation done by DFO on 20.11.23 & forwarded to Nodal Officer, New Delhi. Now proposal is under review at Nodal officer, New Delhi.

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

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

Award placed to M/s TLL

Length	:	34.3 km
Locations	:	97 Nos.
Foundation completed	:	34 Nos.
Towers erected	:	12 Nos.
Stringing completed	:	0 km
Scheduled COD	:	Nov'23
Anticipated COD	:	Mar'24

Status of statutory approvals:

Power line crossing:

Total No. of crossings	:	6	Nos.
Proposal submitted	:	6	Nos.
Approval obtained	:	3	Nos.

Railway crossing:

Total No. of crossings	:	2	Nos.
Proposal submitted	:	2	Nos.
Approval obtained	:	1	Nos.

National Highway Crossing:

Total No. of crossings	:	4	Nos.
Proposal submitted	:	4	Nos.
Approval obtained	:	0	Nos.

Forest Haryana (3.107 Ha) – Online proposal submitted on 20.03.23. On 09.11.23, Nodal Officer, Haryana has sought additional information from User Agency and reply of the same submitted to DFO on 22.11.23. Further, compliances are forwarded to Nodal Officer, Haryana on 22.11.2023. Now proposal is under review at Nodal officer, Haryana.

Forest Delhi (0.71 Ha)- Online proposal submitted on 14.10.23. On 23.10.23, DFO has sought additional information & reply for the same is under preparation

Status of progress of Substation and Bay Extensions:-

1. 765/400 kV Narela Substation

Land Acquisition	:	Land acquired in Mar'23
Civil work completed	:	55%
Equipment supplied	:	60%
Equipment erection	:	25%
Scheduled COD	:	Nov'23
Anticipated COD	:	Mar'24

2. Extension of 765 kV Khetri Substation

Land Acquisition	:	Available
Civil work completed	:	85%
Equipment supplied	:	65%
Equipment erection	:	30%
Scheduled COD	:	Nov'23
Anticipated COD	:	Mar'24

6. Transmission system associated with LTA applications from Rajasthan SEZ Part-E, 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 765 kV and 400 kV transmission system interconnecting Bhadla-II, Fatehgarh-II, Sikar & Khetri along with establishment of 765/400 kV new substation at Sikar-II & Narela and 400/220 kV new substation at Bikaner-II & Ramgarh-II have been planned.

The subject transmission scheme involves 765 kV D/c Bhadla-II Sikar-II line (2nd)

Scope of Transmission Project-

Transmission Line

1. Bhadla II - Sikar II 765 kV D/C line (2nd)

Substation

2. Construction of 02 Nos. of 765 kV line bays at Bhadla II for Bhadla II - Sikar II 765 kV D/c line along with 2 x 240 MVAR switchable line reactors.
3. Construction of 02 Nos. of 765 kV line bays at Sikar II for Bhadla II - Sikar II 765 kV D/c line along with 2 x 330 MVAR switchable line reactors.

General Details

Special Purpose Vehicle (SPV) subsidiary of POWERGRID)	:	Bhadla Sikar Transmission Limited (A
Bid Process Coordinator (BPC)	:	PFC Consulting Ltd..
Estimated Cost	:	₹ 1644 Cr.
Levelised Tariff	:	₹ 163 Cr.
Request for Proposal	:	06.03.20
Letter of Intent	:	03.03.23
Transmission Service Agreement (TSA)	:	26.05.22
SPV acquisition	:	28.03.23
Transmission Licence by CERC	:	Applied on 10.04.23
Tariff adoption by CERC	:	Applied on 10.04.23
Clearance u/s 164	:	
Execution plan submitted to CEA	:	

NIT issued on	:	NIT for all Pkges issued.
EPC awarded on	:	NOAs issued for Line & Reactor
Scheduled Date of Completion	:	Sep'24

Status of progress of transmission project:-

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

Award placed to M/s L&T

Length	:	303 km
Locations	:	786 Nos.
Foundation completed	:	136 Nos.
Towers erected	:	1 No.
Stringing completed	:	0 km
Scheduled COD	:	Sep'24
Anticipated COD	:	Sep'24

Status of statutory approvals:

River Crossings

Total No. of crossings	:	Survey in progress
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Power line crossing	:	Survey in progress
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Railway crossing	:	Survey in progress
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National Highway Crossing	:	Survey in progress
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Forest:	:	Survey in progress
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PTCC approval	:	Survey in progress
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Defence Aviation	:	Survey in progress
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Civil Aviation	:	Survey in progress
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Status of progress of Substation and Bay Extensions:-

1. Extension of 765 kV Bhadla II Substation

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

2. Extension of 765 kV Sikar II Substation

Land Acquisition	:	Available
Civil work completed	:	
Equipment supplied	:	
Equipment erection	:	

Scheduled COD	:	Sep'24
Anticipated COD	:	Sep'24

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 EcoNo.mic 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 km of two 400 kV DIC Transmission lines passing through the states of Rajasthan and Madhya Pradesh, a new 2X500 MVA, 400/220 kV pooling substation (AIS) at Neemuch (Madhya Pradesh) and 400 kV 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 Chhittorgarh & Mandsaur lines)
220 kV line bays – (2 Nos. of bays to 500 MW Connectivity/LTA granted to M/s RUMSL)
220 kV Bus coupler bay- 1 No.
220 kV 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 No.minal 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 No.minal voltage).
 - iii) Neemuch PS- Mandsaur s/s 400 kV D/C line (conductor with minimum capacity of 2100 MVA/Ckt at No.minal 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 No.minal voltage).

General Details

Special Purpose Vehicle (SPV)	:	Neemuch Transmission Limited (A subsidiary of POWERGRID)
Bid Process Coordinator (BPC)	:	REC Power Development and Consultancy Ltd
Estimated Cost	:	547 Cr
Levelized Tariff	:	78.378 Cr
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	:	19.07.2023
Execution plan submitted to CEA	:	Submitted.
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	:	118.06 km
Locations	:	302 Nos.
Foundation completed	:	199 Nos.
Towers erected	:	173 Nos.
Stringing completed	:	31 km
Scheduled COD	:	Feb'24
Anticipated COD	:	Feb'24

Status of statutory approvals:

River Crossings : 3 Nos.

Power line crossing : 32 Nos.

Railway crossing : 1 No.

National Highway Crossing : 3 Nos.

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

Award placed on M/s KEC & TLL

Length	:	117.5 km
Locations	:	306 Nos.
Foundation completed	:	243 Nos.
Towers erected	:	212 Nos.
Stringing completed	:	44 km
Scheduled COD	:	Feb'24
Anticipated COD	:	Feb'24

Status of statutory approvals:

Status of statutory approvals:

Power line crossing	:	
Total No. of crossings	:	10 Nos.
Proposal submitted	:	10 Nos.
Approval obtained	:	2 Nos.

Railway crossing	:		
Total No. of crossings	:	1	Nos.
Proposal submitted	:	0	Nos.
Approval obtained	:	0	Nos.

National Highway Crossing	:		
Total No. of crossings	:	2	Nos.
Proposal submitted	:	0	Nos.
Approval obtained	:	0	Nos.

Forest Rajasthan (50 Ha.): Online submitted on 02.06.23. Sec (Forest) has recommended the proposal in Part-IV & forwarded to Regional Office, MoEF&CC, Jaipur on 24.11.23. REC meeting secluded to be held on 11.12.2023.

Forest MP (19 Ha.): Online submitted on 28.02.23. Stage-I issued on 30.11.23.

Status of progress of Substation and Bay Extensions:-

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

Land Acquisition	:	Land handed over by RUMS on 28.01.23
Civil work completed	:	65%
Equipment supplied	:	55%
Equipment erection	:	30%
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	:	50%
Equipment supplied	:	35%
Equipment erection	:	20%
Scheduled COD	:	Feb'24
Anticipated COD	:	Feb'24

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

Land Acquisition	:	Available
Civil work completed	:	80%
Equipment supplied	:	75%
Equipment erection	:	45%
Scheduled COD	:	Feb'24
Anticipated COD	:	Feb'24

8. System Strengthening Scheme for Eastern (ERSS-XXV) and North Eastern Region (NERSS-XV)

Background

Inter-State Transmission System - System Strengthening Scheme for Eastern and North Eastern Regions (hereinafter referred to as 'Project') on build, own, operate & transfer basis and to provide transmission service:

A. Eastern Region Strengthening Scheme –XXV (ERSS-XXV):

1. Creation of 220 kV GIS bus at Banka (POWERGRID) S/S
2. 400 kV Bus extension works at Banka (POWERGRID) 400/132 kV Substation
3. 400/220 kV , 2x500MVA ICTs along with associated bays (220 kV bays in GIS and 400 kV bays in AIS)
400/220 kV , 500MVA ICT – 2 Nos.
400 kV ICT(AIS) bays – 2 Nos.
220 kV ICT (GIS) bays – 2 Nos.
4. 2 Nos. of 220 kV GIS line bays at Banka (POWERGRID) for termination of Banka (POWERGRID) – Goradih (Sabour New) 220 kV D/C line of BSPTCL
Future provision: Space for future 220 kV GIS bays: 6 Nos.

B. North Eastern Region Strengthening Scheme-XV (NERSS-XV):

1. Upgradation of existing 132 kV Namsai (POWERGRID) S/S to 220 kV (with 220 kV side as GIS)
220 kV in GIS:
 - i) ICTs: 220/132 kV , 2x160MVA
 - ii) ICT bay : 2 Nos.
 - iii) Bus Reactor: 220 kV , 1x50MVA
 - iv) Bus Reactor Bay: 1 No.
 - v) Line bays: 2 Nos. [for termination of Kathalguri (NEEPCO) – Namsai (POWERGRID) 220 kV D/C line]
 - vi) Bus coupler bay: 1 No.
 - vii) Space for future line bays: 4 Nos.
132 kV :
 - i) ICT bays: 2 Nos.
 - ii) Space for future line bays: 4 Nos.
2. Kathalguri (NEEPCO) – Namsai (POWERGRID) 220 kV D/C line
3. Extension at Kathalguri (NEEPCO) switchyard: 2 Nos. of 220 kV GIS line bays for termination of Kathalguri (NEEPCO) – Namsai

General Details

Special Purpose Vehicle (SPV)	:	ER NER Transmission Limited (ENTL) (A subsidiary of POWERGRID)
Bid Process Coordinator (BPC)	:	REC Power Development and Consultancy Ltd
Estimated Cost	:	₹307.87 Cr
Levelized Tariff /Annual Trans. charges	:	₹ 35 Cr

Request for Proposal	:	09.11.2021
Letter of Intent	:	30.08.22
Transmission Service Agreement (TSA)	:	10.10.2022
SPV acquisition	:	10.10.2022
Transmission License by CERC	:	Applied on 17.10.2022
Tariff adoption by CERC	:	Applied on 17.10.2022
Clearance u/s 164	:	Under Application
Execution plan submitted to CEA	:	19.10.2022
EPC awarded on	:	Awarded
Scheduled Date of Completion	:	09.10.2025

Status of progress of Transmission Line:

Kathalguri (NEEPCO) – Namsai (POWERGRID) 220 kV D/C line

Length	:	69.6 kms
Locations	:	219 Nos.
Foundation completed	:	49 Nos.
Towers erected	:	0 No.
Stringing completed	:	0 km
Scheduled COD	:	Oct'2025
Anticipated COD	:	Oct'2025

Status of statutory approvals:

River Crossings

Total no. of crossings	:	0 No.
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Power line crossing

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

Railway crossing

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

National Highway Crossing

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

Extn. of 400 kV AIS switchyard and Creation of 220 kV GIS at 400/132 kV Banka (PG) S/s

Land Acquisition	:	Available
Civil work completed	:	60%
Equipment supplied	:	15%
Equipment erection	:	2%
Scheduled COD	:	Oct'2024
Anticipated COD	:	Oct'2024

**Extn. of 132 kV AIS switchyard and Upgradation of existing 132 kV Namsai
(POWERGRID)**

Land Acquisition	:	Available
Civil work completed	:	35%
Equipment supplied	:	35%
Equipment erection	:	-
Scheduled COD	:	Oct'2025
Anticipated COD	:	Oct'2025

Extn. of 220 kV Kathalguri SS (NEEPCO)

Land Acquisition	:	Available
Civil work completed	:	26%
Equipment supplied	:	16%
Equipment erection	:	-
Scheduled COD	:	Oct'2025
Anticipated COD	:	Oct'2025

9. Transmission Scheme for evacuation of 4.5 GW RE injection at Khavda PS under Phase II- Part B

Background

Govt. of India has set a target to establish 500 GW renewable capacity by 2030. To fulfill the above target, MNRE/SECI has identified potential RE zones (REZ) comprising solar and wind capacity of about 66.5 GW in various renewable resource rich states in the country. Out of 16 GW potential identified in Gujarat, 10.5 GW potential REZ has been reviewed and earmarked in Khavda area of Gujarat. Further, Khavda RE park in Kutch, Gujarat with a total capacity of 27.7 GW is also being taken up. For pooling of RE power from various RE developers, 3 Nos. of locations have already been identified for development of ISTS Pooling stations in Khavda area.

The Transmission Scheme for evacuation of above potential is planned to be implemented in three phases, namely Phase-A (8 GW), Phase-B (7 GW) and Phase-C (12.7 GW). Phase-A (8 GW) has been planned to be implemented in two phases, namely Phase-I (3 GW) and Phase-II (5 GW). The scheme for evacuation of 3 GW of Phase-A is already under implementation.

Transmission Scheme for evacuation of 4.5 GW RE injection at Khavda PS under Ph-II (Part-A to D) would cater to additional 5 GW (beyond 3 GW) in Khavda area. The scheme comprises KPS2-Lakadia-Ahmedabad-Navsari (new) 765 kV D/c corridor. Further, 3x1500MVA, 765/400 kV Ahmedabad substation shall be established along with LILO of Pirana(PG)-Pirana(T) 400 kV D/c line at Ahmedabad S/s and reconductoring of Pirana(PG)-Pirana(T) line, both with twin HTLS conductor.

Scope of Transmission Project-

Transmission Line

1. 765 KV D/C Lakadia PS-Ahmedabad line

Substation

2. 2 Nos. 765 kV Line Bays at Lakadia PS for 765 kV D/C Lakadia PS-Ahmedabad Line
3. 2 Nos. 765 kV Line Bays at Ahmedabad for 765 kV D/C Lakadia PS-Ahmedabad Line along with 240MVAR Line Reactor on each ckt.

General Details

Special Purpose Vehicle (SPV) of POWERGRID)	:	Khavda II-B Transmission Limited(A subsidiary
Bid Process Coordinator (BPC)	:	REC Power Development and Consultancy Ltd
Estimated Cost	:	1711.04 cr.
Levelized Tariff	:	110.64 cr.
Request for Proposal	:	06.05.22
Letter of Intent	:	16.02.23
Transmission Service Agreement (TSA)	:	21.03.23
SPV acquisition	:	21.03.23
Transmission License by CERC	:	
Tariff adoption by CERC	:	
Clearance u/s 164	:	
Execution plan submitted to CEA	:	
NIT issued on	:	17.02.22 - 04.03.22

EPC awarded on	:	18.03.23 - 28.03.23
Scheduled Date of Completion	:	Mar'25

Status of progress of Transmission Line:

1. 765 KV D/C Lakadia PS-Ahmedabad line

Length	:	184 km
Locations	:	478 Nos.
Foundation completed	:	40 Nos.
Towers erected	:	
Stringing completed	:	
Scheduled COD	:	Mar'25
Anticipated COD	:	Mar'25

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:-

2. 2 Nos. 765 kV Line Bays at Lakadia PS for 765 kV D/C Lakadia PS-Ahmedabad Line

Land Acquisition	:	Available
Civil work completed	:	2%
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Mar'25
Anticipated COD	:	Mar'25

3. 2 Nos. 765 kV Line Bays at Ahmedabad for 765 kV D/C Lakadia PS-Ahmedabad Line along with 240MVAR Line Reactor on each ckt.

Land Acquisition	:	Land acquisition under process
Civil work completed	:	
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Mar'25
Anticipated COD	:	Mar'25

10. Transmission Scheme for evacuation of 4.5GW RE injection at Khavda PS under Phase II- Part C

Background

Govt. of India has set a target to establish 500GW renewable capacity by 2030. To fulfill the above target, MNRE/SECI has identified potential RE zones (REZ) comprising solar and wind capacity of about 66.5GW in various renewable resource rich states in the country. Out of 16GW potential identified in Gujarat, 10.5GW potential REZ has been reviewed and earmarked in Khavda area of Gujarat. Further, Khavda RE park in Kutch, Gujarat with a total capacity of 27.7GW is also being taken up. For pooling of RE power from various RE developers, 3 Nos. of locations have already been identified for development of ISTS Pooling stations in Khavda area.

The Transmission Scheme for evacuation of above potential is planned to be implemented in three phases, namely Phase-A (8GW), Phase-B (7GW) and Phase-C (12.7GW). Phase-A (8GW) has been planned to be implemented in two phases, namely Phase-I (3 GW) and Phase-II (5GW). The scheme for evacuation of 3GW of Phase-A is already under implementation.

Transmission Scheme for evacuation of 4.5GW RE injection at Khavda PS under Ph-II (Part-A to D) would cater to additional 5GW (beyond 3GW) in Khavda area. The scheme comprises KPS2-Lakadia-Ahmedabad-Navsari (new) 765 kV D/c corridor. Further, 3x1500MVA, 765/400 kV Ahmedabad substation shall be established along with LILO of Pirana(PG)-Pirana(T) 400 kV D/c line at Ahmedabad S/s and reconductoring of Pirana(PG)-Pirana(T) line, both with twin HTLS conductor.

Scope of works under Khavda Phase II- Part C project:

Transmission Line

1. 765 KV D/C Ahmedabad-South Gujarat (New Navsari) line

Substation

2. 765/400 kV 3x1500MVA Ahmedabad New SS with 1x330MVA 765 kV Bus Reactor & 1x125MVA 400 kV Bus Reactor
3. 765 kV Line Bays at Ahmedabad for 765 kV D/C Ahmedabad-South Gujarat (New Navsari) line along with 240MVAR Line Reactor on each ckt.
4. 765 kV Line Bays at South Gujarat (New Navsari) for 765 kV D/C Ahmedabad-South Gujarat (New Navsari) line

General Details

Special Purpose Vehicle (SPV) of POWERGRID)	:	Khavda II-C Transmission Limited(A subsidiary of POWERGRID)
Bid Process Coordinator (BPC)	:	REC Power Development and Consultancy Ltd
Estimated Cost	:	2810.38 cr.
Levelized Tariff	:	281.69 cr.
Request for Proposal	:	06.05.22
Letter of Intent	:	16.02.23
Transmission Service Agreement (TSA)	:	21.03.23
SPV acquisition	:	21.03.23
Transmission License by CERC	:	

Tariff adoption by CERC	:	
Clearance u/s 164	:	
Execution plan submitted to CEA	:	
NIT issued on	:	01.02.22 - 17.05.22
EPC awarded on	:	10.03.23 - 06.04.23
Scheduled Date of Completion	:	Mar'25

Status of progress of Transmission Line:

1. 765 KV D/C Ahmedabad-South Gujarat (New Navsari) line

Length	:	288 km
Locations	:	798 Nos.
Foundation completed	:	49 Nos.
Towers erected	:	05 Nos.
Stringing completed	:	
Scheduled COD	:	Mar'25
Anticipated COD	:	Mar'25

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 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:-

2. 765/400 kV 3x1500MVA Ahmedabad New SS with 1x330MVA 765 kV Bus Reactor & 1x125MVA 400 kV Bus Reactor

Land Acquisition	:	under process
Civil work completed	:	
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Mar'25
Anticipated COD	:	Mar'25

3. 765 kV Line Bays at Ahmedabad for 765 kV D/C Ahmedabad-South Gujrat (New Navsari) line along with 240MVAR Line Reactor on each ckt.

Land Acquisition	:	Land acquisition under process. Land notification published on 13.07.23.
Civil work completed	:	
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Mar'25
Anticipated COD	:	Mar'25

4. 765 kV Line Bays at South Gujarat (New Navsari) for 765 kV D/C Ahmedabad-South Gujrat (New Navsari) line

Land Acquisition	:	Available
Civil work completed	:	1%
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Mar'25
Anticipated COD	:	Mar'25

11. Transmission Network Expansion in Gujarat associated with integration of RE projects from Khavda potential RE zone

Background

Govt. of India has set a target to establish 500GW renewable capacity by 2030. To fulfill the above target, MNRE/SECI has identified potential RE zones (REZ) comprising solar and wind capacity of about 66.5GW in various renewable resource rich states in the country. Out of 16GW potential identified in Gujarat, 10.5GW potential REZ has been reviewed and earmarked in Khavda area of Gujarat. Further, Khavda RE park in Kutch, Gujarat with a total capacity of 27.7GW is also being taken up. For pooling of RE power from various RE developers, 3 Nos. of locations have already been identified for development of ISTS Pooling stations in Khavda area.

The Transmission Scheme for evacuation of above potential is planned to be implemented in three phases, namely Phase-A (8GW), Phase-B (7GW) and Phase-C (12.7GW). Phase-A (8GW) has been planned to be implemented in two phases, namely Phase-I (3 GW) and Phase-II (5GW). The scheme for evacuation of 3GW of Phase-A is already under implementation.

Transmission Scheme for evacuation of 4.5GW RE injection at Khavda PS under Ph-II (Part-A to D) would cater to additional 5GW (beyond 3GW) in Khavda area. The scheme comprises KPS2-Lakadia-Ahmedabad-Navsari (new) 765 kV D/c corridor. Further, 3x1500MVA, 765/400 kV Ahmedabad substation shall be established along with LILO of Pirana(PG)-Pirana(T) 400 kV D/c line at Ahmedabad S/s and reconductoring of Pirana(PG)-Pirana(T) line, both with twin HTLS conductor.

Scope of works under Khavda Potential RE project:

Transmission Line

1. 765 KV D/C Banaskantha-Ahmedabad line

Substation

1. 2 Nos. 765 kV line bays at Banaskantha S/s for 765 kV D/C Banaskantha-Ahmedabad line
2. 2 Nos. 765 kV line Bays at Ahmedabad SS for 765 kV D/C Banaskantha-Ahmedabad line along with 330MVA line Reactor on each ckt.

General Details

Special Purpose Vehicle (SPV) of POWERGRID)	:	Khavda RE Transmission Limited(A subsidiary
Bid Process Coordinator (BPC)	:	REC Power Development and Consultancy Ltd
Estimated Cost	:	1220.14
Levelized Tariff	:	77.33 cr.
Request for Proposal	:	06.05.22
Letter of Intent	:	15.02.23
Transmission Service Agreement (TSA)	:	21.03.23
SPV acquisition	:	21.03.23
Transmission License by CERC	:	
Tariff adoption by CERC	:	
Clearance u/s 164	:	
Execution plan submitted to CEA	:	
NIT issued on	:	03.03.22 - 02.06.22
EPC awarded on	:	10.03.23 - 28.03.23

Scheduled Date of Completion : Mar'25

Status of progress of Transmission Line:

1. 765 KV D/C Banaskantha-Ahmedabad line

Length	:	134.6km
Locations	:	352 Nos.
Foundation completed	:	57 Nos.
Towers erected	:	
Stringing completed	:	
Scheduled COD	:	Mar'25
Anticipated COD	:	Mar'25

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:-

2. 2 Nos. 765 kV line bays at Banaskantha S/s for 765 kV D/C Banaskantha-Ahmedabad line

Land Acquisition	:	Available
Civil work completed	:	5%
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Mar'25
Anticipated COD	:	Mar'25

3. 2 Nos. 765 kV line Bays at Ahmedabad SS for 765 kV D/C Banaskantha-Ahmedabad line along with 330MVAR line Reactor on each ckt.

Land Acquisition	:	Land acquisition under process. Land notification published on 13.07.23.
Civil work completed	:	
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Mar'25
Anticipated COD	:	Mar'25

12. Establishment of Khavda Pooling Station-2 (KPS2) in Khavda RE park

Background:

Govt. of India has set a target to establish 500GW renewable capacity by 2030. To fulfill the above target, MNRE/SECI has identified potential RE zones (REZ) comprising solar and wind capacity of about 66.5GW in various renewable resource rich states in the country. Out of 16GW potential identified in Gujarat, 10.5GW potential REZ has been reviewed and earmarked in Khavda area of Gujarat. Further, Khavda RE park in Kutch, Gujarat with a total capacity of 27.7GW is also being taken up. For pooling of RE power from various RE developers, 3 Nos. of locations have already been identified for development of ISTS Pooling stations in Khavda area.

The Transmission Scheme for evacuation of above potential is planned to be implemented in three phases, namely Phase-A (8GW), Phase-B (7GW) and Phase-C (12.7GW). Phase-A (8GW) has been planned to be implemented in two phases, namely Phase-I (3 GW) and Phase-II (5GW). The scheme for evacuation of 3GW of Phase-A is already under implementation.

Transmission Scheme for evacuation of 4.5GW RE injection at Khavda PS under Ph-II (Part-A to D) would cater to additional 5GW (beyond 3GW) in Khavda area. The scheme comprises KPS2-Lakadia-Ahmedabad-Navsari (new) 765 kV D/c corridor. Further, 3x1500MVA, 765/400 kV Ahmedabad substation shall be established along with LILO of Pirana(PG)-Pirana(T) 400 kV D/c line at Ahmedabad S/s and reconductoring of Pirana(PG)-Pirana(T) line, both with twin HTLS conductor.

Scope of works under KPS2 project:

Substation

1. 765/400 kV 4x1500MVA KPS2 New SS (GIS) with 2x330MVAr 765 kV Bus Reactor & 2x125MVAr 400 kV Bus Reactor

General Details

Special Purpose Vehicle (SPV) POWERGRID)	:	KPS2 Transmission Limited(A subsidiary of
Bid Process Coordinator (BPC)	:	REC Power Development and Consultancy Ltd
Estimated Cost	:	867.78 cr.
Levelized Tariff	:	69.68 cr.
Request for Proposal	:	28.01.22
Letter of Intent	:	16.02.23
Transmission Service Agreement (TSA)	:	21.03.23
SPV acquisition	:	21.03.23
Transmission License by CERC	:	
Tariff adoption by CERC	:	
Clearance u/s 164	:	
Execution plan submitted to CEA	:	
NIT issued on	:	01.02.22 - 05.12.22
EPC awarded on	:	17.03.23 - 27.03.23
Scheduled Date of Completion	:	Dec'24

Status of progress of Substation and Bay Extensions:-

1. 765/400 kV 4x1500MVA KPS2 New SS (GIS) with 2x330MVA 765 kV Bus Reactor & 2x125MVA 400 kV Bus Reactor

Land Acquisition	:	Available
Civil work completed	:	3%
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Dec'24
Anticipated COD	:	Dec'24

Constraints being faced during execution:

1. ROU for approach road to KPS2 Pooling Station

13. Establishment of Khavda Pooling Station-3 (KPS3) in Khavda RE park

Background

Govt. of India has set a target to establish 500GW renewable capacity by 2030. To fulfill the above target, MNRE/SECI has identified potential RE zones (REZ) comprising solar and wind capacity of about 66.5GW in various renewable resource rich states in the country. Out of 16GW potential identified in Gujarat, 10.5GW potential REZ has been reviewed and earmarked in Khavda area of Gujarat. Further, Khavda RE park in Kutch, Gujarat with a total capacity of 27.7GW is also being taken up. For pooling of RE power from various RE developers, 3 Nos. of locations have already been identified for development of ISTS Pooling stations in Khavda area.

The Transmission Scheme for evacuation of above potential is planned to be implemented in three phases, namely Phase-A (8GW), Phase-B (7GW) and Phase-C (12.7GW). Phase-A (8GW) has been planned to be implemented in two phases, namely Phase-I (3 GW) and Phase-II (5GW). The scheme for evacuation of 3GW of Phase-A is already under implementation.

Transmission Scheme for evacuation of 4.5GW RE injection at Khavda PS under Ph-II (Part-A to D) would cater to additional 5GW (beyond 3GW) in Khavda area. The scheme comprises KPS2-Lakadia-Ahmedabad-Navsari (new) 765 kV D/c corridor. Further, 3x1500MVA, 765/400 kV Ahmedabad substation shall be established along with LILO of Pirana(PG)-Pirana(T) 400 kV D/c line at Ahmedabad S/s and reconductoring of Pirana(PG)-Pirana(T) line, both with twin HTLS conductor.

Scope of works under KPS3 project:

Transmission Line

1. 765 KV D/C KPS2-KPS3 line

Substation

2. 765/400 kV 3x1500MVA KPS-3 S/s with 1x330MVA 765 kV Bus Reactor & 1x125MVA 400 kV Bus Reactor
3. 2 Nos. 765 kV Line Bays at KPS-2 for 765 kV D/C KPS-2 KPS3 line

General Details

Special Purpose Vehicle (SPV) POWERGRID)	:	KPS3 Transmission Limited(A subsidiary of
Bid Process Coordinator (BPC)	:	REC Power Development and Consultancy Ltd
Estimated Cost	:	888.54 cr.
Levelized Tariff	:	75.53 cr.
Request for Proposal	:	28.01.22
Letter of Intent	:	27.02.23
Transmission Service Agreement (TSA)	:	21.03.23
SPV acquisition	:	21.03.23
Transmission License by CERC	:	
Tariff adoption by CERC	:	
Clearance u/s 164	:	17.10.2023
Execution plan submitted to CEA	:	
NIT issued on	:	31.01.22 - 01.02.22
EPC awarded on	:	23.03.23 - 27.03.23
Scheduled Date of Completion	:	Dec'24

Status of progress of Transmission Line:

1. 765 KV D/C KPS2-KPS3 line

Length	:	15.2 km
Locations	:	39 Nos.
Foundation completed	:	
Towers erected	:	
Stringing completed	:	
Scheduled COD	:	Dec'24
Anticipated COD	:	Dec'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:-

2. 765/400 kV 3x1500MVA KPS-3 S/s with 1x330MVAr 765 kV Bus Reactor & 1x125MVAr 400 kV Bus Reactor

Land Acquisition	:	Available
Civil work completed	:	1%
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Dec'24
Anticipated COD	:	Dec'24

3. 2 Nos. 765 kV Line Bays at KPS-2 for 765 kV D/C KPS-2 KPS3 line

Land Acquisition	:	Available
Civil work completed	:	2%
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Dec'24
Anticipated COD	:	Dec'24

14. Inter-Regional ER-WR Interconnection

Background

Govt. of India has set a target to establish 500GW renewable capacity by 2030. To fulfill the above target, MNRE/SECI has identified potential RE zones (REZ) comprising solar and wind capacity of about 66.5GW in various renewable resource rich states in the country. Out of 16GW potential identified in Gujarat, 10.5GW potential REZ has been reviewed and earmarked in Khavda area of Gujarat. Further, Khavda RE park in Kutch, Gujarat with a total capacity of 27.7GW is also being taken up. For pooling of RE power from various RE developers, 3 Nos. of locations have already been identified for development of ISTS Pooling stations in Khavda area.

The Transmission Scheme for evacuation of above potential is planned to be implemented in three phases, namely Phase-A (8GW), Phase-B (7GW) and Phase-C (12.7GW). Phase-A (8GW) has been planned to be implemented in two phases, namely Phase-I (3 GW) and Phase-II (5GW). The scheme for evacuation of 3GW of Phase-A is already under implementation.

Scope of works under ER-WR Interconnection project:

Transmission Line

1. 400 kV D/C Jeypore (POWERGRID)-Jagdalpur (CSPTCL) line

Substation

2. 2 Nos. 400 kV Line bays (GIS) at Jeypore (POWERGRID) SS for 400 kV D/C Jeypore (POWERGRID)-Jagdalpur (CSPTCL) line
3. 2 Nos. 400 kV Line bays at Jagdalpur (CSPTCL) SS for 400 kV D/C Jeypore (POWERGRID)-Jagdalpur (CSPTCL) line

General Details

Special Purpose Vehicle (SPV) subsidiary of POWERGRID)	:	ERWR Power Transmission Limited(A
Bid Process Coordinator (BPC)	:	REC Power Development and Consultancy Ltd
Estimated Cost	:	381.33 cr.
Levelized Tariff	:	29.01 cr.
Request for Proposal	:	21.09.22
Letter of Intent	:	15.02.23
Transmission Service Agreement (TSA)	:	21.03.23
SPV acquisition	:	21.03.23
Transmission License by CERC	:	
Tariff adoption by CERC	:	
Clearance u/s 164	:	
Execution plan submitted to CEA	:	
NIT issued on	:	
EPC awarded on	:	
Scheduled Date of Completion	:	Mar'25

Status of progress of Transmission Line:

1. 400 kV D/C Jeypore (POWERGRID)-Jagdalpur (CSPTCL) line

Length : 68 km

Locations	:	167
Foundation completed	:	
Towers erected	:	
Stringing completed	:	
Scheduled COD	:	Mar'25
Anticipated COD	:	Mar'25

Status of statutory approvals:

Railway crossing	(Jeypore side)
Total no. of crossings	: 1 nos.
Proposal submitted	: 0 nos.
Approval obtained	: 0 nos.

National Highway Crossing(Jagdaldpur side)	
Total no. of crossings	: 1 nos.
Proposal submitted	: 0 nos.
Approval obtained	: 0 nos.

Status of progress of Substation and Bay Extensions:-

2. 2 Nos. 400 kV Line bays (GIS) at Jeypore (POWERGRID) SS for 400 kV D/C Jeypore (POWERGRID)-Jagdaldpur (CSPTCL) line

Land Acquisition	:	Available
Civil work completed	:	
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Mar'25
Anticipated COD	:	Mar'25

3. 2 Nos. 400 kV Line bays at Jagdaldpur (CSPTCL) SS for 400 kV D/C Jeypore (POWERGRID)-Jagdaldpur (CSPTCL) line

Land Acquisition	:	Available
Civil work completed	:	
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Mar'25
Anticipated COD	:	Mar'25

15. Transmission System associated with Western Region Expansion Scheme- XXVII (WRES-XXVII)

Background

Govt. of India has set a target to establish 500GW renewable capacity by 2030. To fulfill the above target, MNRE/SECI has identified potential RE zones (REZ) comprising solar and wind capacity of about 66.5GW in various renewable resource rich states in the country. Out of 16GW potential identified in Gujarat, 10.5GW potential REZ has been reviewed and earmarked in Khavda area of Gujarat. Further, Khavda RE park in Kutch, Gujarat with a total capacity of 27.7GW is also being taken up. For pooling of RE power from various RE developers, 3 Nos. of locations have already been identified for development of ISTS Pooling stations in Khavda area.

The Transmission Scheme for evacuation of above potential is planned to be implemented in three phases, namely Phase-A (8GW), Phase-B (7GW) and Phase-C (12.7GW). Phase-A (8GW) has been planned to be implemented in two phases, namely Phase-I (3 GW) and Phase-II (5GW). The scheme for evacuation of 3GW of Phase-A is already under implementation.

Scope of works under Raipur Pool Dhamtari Transmission Limited (RPTL) project:

Transmission Line

1. 400 KV (Q) D/C Raipur Pool-Dhamtari line

Substation

2. 400 kV Line bays at Raipur Pool (POWERGRID) S/s for termination of Raipur Pool-Dhamtari 400 KV (Q) D/C line
3. 400 kV Line bays at Dhamtari (CSPTCL) S/s for termination of Raipur Pool-Dhamtari 400 KV (Q) D/C line

General Details

Special Purpose Vehicle (SPV) subsidiary of POWERGRID)	:	Raipur Pool Dhamtari Transmission Limited(A
Bid Process Coordinator (BPC)	:	REC Power Development and Consultancy Ltd
Estimated Cost	:	380 Cr.
Levelized Tariff	:	29.72 cr.
Request for Proposal	:	21.10.22
Letter of Intent	:	01.03.23
Transmission Service Agreement (TSA)	:	28.03.23
SPV acquisition	:	28.03.23
Transmission License by CERC	:	
Tariff adoption by CERC	:	
Clearance u/s 164	:	16.11.23
Execution plan submitted to CEA	:	
NIT issued on	:	
EPC awarded on	:	
Scheduled Date of Completion	:	Sep'24

Status of progress of Transmission Line:

1. 400 KV (Q) D/C Raipur Pool-Dhamtari line

Length	:	87.5 km
Locations	:	225
Foundation completed	:	6
Towers erected	:	
Stringing completed	:	
Scheduled COD	:	Sep'24
Anticipated COD	:	Sep'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:-

2. 400 kV Line bays at Raipur Pool (POWERGRID) S/s for termination of Raipur Pool-Dhamtari 400 KV (Q) D/C line

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

3. 400 kV Line bays at Dhamtari (CSPTCL) S/s for termination of Raipur Pool-Dhamtari 400 KV (Q) D/C line

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

16. Transmission System associated with Western Region Expansion Scheme- XXVIII (WRES-XXVIII) & XXIX (WRES-XXIX)

Background

Govt. of India has set a target to establish 500GW renewable capacity by 2030. To fulfill the above target, MNRE/SECI has identified potential RE zones (REZ) comprising solar and wind capacity of about 66.5GW in various renewable resource rich states in the country. Out of 16GW potential identified in Gujarat, 10.5GW potential REZ has been reviewed and earmarked in Khavda area of Gujarat. Further, Khavda RE park in Kutch, Gujarat with a total capacity of 27.7GW is also being taken up. For pooling of RE power from various RE developers, 3 Nos. of locations have already been identified for development of ISTS Pooling stations in Khavda area.

The Transmission Scheme for evacuation of above potential is planned to be implemented in three phases, namely Phase-A (8GW), Phase-B (7GW) and Phase-C (12.7GW). Phase-A (8GW) has been planned to be implemented in two phases, namely Phase-I (3 GW) and Phase-II (5GW). The scheme for evacuation of 3GW of Phase-A is already under implementation.

Scope of works under Dharamjaigarh Transmission Limited (DTL) project:

Substation

1. Creation of 220KV level at 765/400KV Dharamjaigarh S/s with installation of 2x500MVA, 400/220KV ICTs along with associated bays and 2 nos. 220KV line bays at Raipur Pool (PS) for termination of 220KV D/c Raipur Pool-Rajnandgaon line
2. Creation of 220KV level at 765/400KV Raipur Pool S/s with installation of 3x500MVA, 400/220KV ICTs along with associated bays and 2 nos. 220KV line bays at Raipur Pool (PS) for termination of 220KV D/c Raipur Pool-Rajnandgaon line

General Details

Special Purpose Vehicle (SPV) subsidiary of POWERGRID)	:	Dharamjaigarh Transmission Limited(A
Bid Process Coordinator (BPC)	:	REC Power Development and Consultancy Ltd
Estimated Cost	:	251 cr.
Levelized Tariff	:	28.69 cr.
Request for Proposal	:	20.09.22
Letter of Intent	:	01.03.23
Transmission Service Agreement (TSA)	:	28.03.23
SPV acquisition	:	28.03.23
Transmission License by CERC	:	
Tariff adoption by CERC	:	
Clearance u/s 164	:	
Execution plan submitted to CEA	:	
NIT issued on	:	16.09.22 - 19.10.22
EPC awarded on	:	14.03.23 - 19.04.23
Scheduled Date of Completion	:	Mar'25

Status of progress of Substation and Bay Extensions:-

1. Creation of 220 KV level at 765/400 KV Dharamjaigarh S/s with installation of 2x500MVA, 400/220 KV ICTs along with associated bays

Land Acquisition	:	Available
Civil work completed	:	35%
Equipment supplied	:	20%
Equipment erection	:	
Scheduled COD	:	Mar'25
Anticipated COD	:	Mar'25

2. Creation of 220KV level at 765/400KV Raipur Pool S/s with installation of 3x500MVA, 400/220 KV ICTs along with associated bays

Land Acquisition	:	Available
Civil work completed	:	10%
Equipment supplied	:	2%
Equipment erection	:	
Scheduled COD	:	Mar'25
Anticipated COD	:	Mar'25

17. Transmission Scheme for Solar Energy Zone in Ananthpuram (Ananthpur) (2500MW) and Kurnool (1000MW)

Background:

Establishment of inter-state transmission system for "Transmission Scheme for Solar Energy Zone in Ananthpuram (Ananthpur) (2500 MW) and Kurnool (1000 MW), Andhra Pradesh", on build, own, operate and transfer (BOOT) basis.

The transmission system comprises establishment of around 267 Kms of two 400kV D/C Transmission lines passing through the state of Andhra Pradesh, a new 7x500 MVA, 400/220kV pooling substation (AIS) at Ananthpuram (Andhra Pradesh) and 400kV bay extension works at Cuddapah & Kurnool –III SS.

Scope:

Transmission Line

1. Ananthpuram PS- Kurnool-III 400kV D/C line
2. Ananthpuram PS- Cuddapah 400kV D/C line

Substation

1. Estab. of 400/220kV, 7x500MVA Pooling Station at Ananthpuram
2. Bay Extn. at Kurnool-III PS
3. Bay Extn. at 400kV Cuddapah S/S

General Details

Special Purpose Vehicle (SPV)	:	Ananthpuram Kurnool Transmission Limited
Bid Process Coordinator (BPC)	:	PFC Consulting Ltd
Estimated Cost	:	
Levelized Tariff	:	128.89 cr.
Request for Proposal	:	29.12.22
Letter of Intent	:	28.07.23
Transmission Service Agreement (TSA)	:	27.09.23
SPV acquisition	:	27.09.23
Transmission License by CERC	:	Applied on 05.10.2023
Tariff adoption by CERC	:	Applied on 05.10.2023
Clearance u/s 164	:	
Execution plan submitted to CEA	:	
NIT issued on	:	
EPC awarded on	:	21.09.23 - 12.10.23
Scheduled Date of Completion	:	Jul'25

Status of progress of Transmission Line:

1. Ananthpuram PS- Kurnool-III 400kV D/C line

Length	:	87 km
Locations	:	
Foundation completed	:	
Towers erected	:	
Stringing completed	:	
Scheduled COD	:	Jul'25
Anticipated COD	:	Jul'25

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. Ananthpuram PS- Cuddapah 400kV D/C line

Length	: 192 km
Locations	:
Foundation completed	:
Towers erected	:
Stringing completed	:
Scheduled COD	: Jul'25
Anticipated COD	: Jul'25

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: -

3. Estab. of 400/220kV, 7x500MVA Pooling Station at Ananthpuram

Land Acquisition	: Available
Civil work completed	:
Equipment supplied	:
Equipment erection	:
Scheduled COD	: Jun'25
Anticipated COD	: Jun25

4. Bay Extn. at Kurnool-III PS

Land Acquisition	: Available
Civil work completed	:
Equipment supplied	:
Equipment erection	:
Scheduled COD	: Jun'25
Anticipated COD	: Jun'25

5. Bay Extn. at 400kV Cuddapah S/S

Land Acquisition	: Available
Civil work completed	:
Equipment supplied	:
Equipment erection	:
Scheduled COD	: Jun'25
Anticipated COD	: Jun'25

18. Transmission system for evacuation of power from REZ in Rajasthan (20 GW) under Phase-III part B1

Background:

In order to integrate and evacuate power from additional potential (20GW) in various renewable energy zones in Rajasthan [Fatehgarh: 9.1GW, Bhadla: 8GW, Ramgarh: 2.9GW] as indicated by SECI, various transmission alternatives were evolved and deliberated in 3rd NRPC-TP meeting held on 19.02.2021. Based on deliberations in above meeting, hybrid (EHVAC & HVDC) transmission system was agreed for evacuation of power from additional 20GW RE Potential in Rajasthan (Phase-III). As part of Phase-III system, Bhadla-3 PS is to be established which shall be integrated with Fatehgarh-II PS and Sikar-II S/s. Further, another new Ramgarh PS shall also be connected with Bhadla-3 for evacuation of power from Ramgarh Complex. Accordingly, the subject scheme “Transmission system for evacuation of power from REZ in Rajasthan (20 GW) under Phase III – Part B1” has been planned to establish connectivity as well as enable the evacuation of RE power from Bhadla-3 PS and Ramgarh PS (beyond Bhadla-3) under phase III.

Scope of Transmission Project-

Substation:

1. Establishment of 2x1500 MVA 765/400 kV & 3x500 MVA 400/220 kV pooling station at Bhadla-III along with 2x330 MVAR (765kV) Bus Reactor & 2x125 MVAR (420kV) Bus Reactor

[765 kV line bays: 2 nos.; 220 kV line bays: 5 nos.; Bays associated with X-mer and Bus Reactor 2X330MVAR 765kV line Reactor]

2. Bay extension at Sikar-II S/s [765 kV line bays: 2 nos.; 2x330 MVAR 765 kV line Reactor]

Transmission Line:

3. Bhadla-III PS – Sikar-II S/s 765 kV D/c line
4. Fatehgarh-II PS – Bhadla-III PS 400 kV D/c line (Quad moose)

General Details

Special Purpose Vehicle (SPV)	:	Bhadla-III Transmission Limited
Bid Process Coordinator (BPC)	:	PFC Consulting Ltd
Estimated Cost	:	2540 Cr.
Levelized Tariff	:	212.40 Cr.
Request for Proposal	:	04.02.22
Letter of Intent	:	28.07.23
Transmission Service Agreement (TSA)	:	27.09.23
SPV acquisition	:	27.09.23
Transmission License by CERC	:	
Tariff adoption by CERC	:	
Clearance u/s 164	:	
Execution plan submitted to CEA	:	
NIT issued on	:	Feb'22-May'23
EPC awarded on	:	12.10.23 - 13.10.23 (RT01 under Award)
Scheduled Date of Completion	:	26.03.25

Status of progress of Transmission Line:

1. Bhadla-III-Sikar-II 765kV D/C line

Length	:	380 km
Locations	:	
Foundation completed	:	
Towers erected	:	
Stringing completed	:	
Scheduled COD	:	Mar'25
Anticipated COD	:	Mar'25

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: -

2. Establishment of 765/400kV, 2X1500MVA 765/400kV Bhadla-III New SS

Land Acquisition	:	Under Process
Civil work completed	:	
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Mar'25
Anticipated COD	:	Mar25

3. Bay Extn. at Sikar-II SS

Land Acquisition	:	Under Process
Civil work completed	:	
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Mar'25
Anticipated COD	:	Mar'25

19. Transmission system associated with LTA applications from Rajasthan SEZ Phase-III Part-C1

Background:

In order to integrate and evacuate power from additional potential (20 GW) in various renewable energy zones in Rajasthan [Fatehgarh: 9.1 GW, Bhadla: 8GW, Ramgarh: 2.9 GW] as indicated by SECI, various transmission alternatives were evolved and deliberated in 3rd NRPC-TP meeting held on 19.02.2021. Based on deliberations in above meeting, hybrid (EHVAC & HVDC) transmission system was agreed for evacuation of power from additional 20 GW RE Potential in Rajasthan (Phase-III).

As part of Phase-III system, Ramgarh PS is to be established which shall be integrated with Bhadla-III PS. Bhadla-III PS shall further be connected to Fatehgarh-II PS and Sikar-II S/s to establish connectivity as well as enable evacuation of RE power from Bhadla-III and Ramgarh PS (beyond Bhadla-III) under phase III. The subject transmission scheme involves establishment of 765/400/220 kV pooling station at Ramgarh, implementation of Ramgarh PS – Bhadla-III 765 kV D/c line which shall facilitate evacuation of RE power from Ramgarh complex for onward dispersal of power to various beneficiaries.

Above transmission system for evacuation of power from REZ in Rajasthan (20 GW) under Phase III was also agreed in 49th Northern Region Power Committee (NRPC) meeting held on 27.09.2021 & 5th National Committee on Transmission (NCT) held on 25.08.2021 and 02.09.2021.

Scope of Transmission Project-

Transmission Line

1. Ramgarh PS- Bhadla-III PS 765kV D/C line

Substation

2. 2x1500MVA, 765/400KV & 2x500MVA Ramgarh S/s along with 2x240MVAr (765kV) switchable Bus Reactor & 2x125MVAr (400kV) Bus Reactor
3. 2x240MVAr (765kV) switchable Line Reactor.
4. 2 Nos. 765kV Line bays at Bhadla-III PS.
5. $\pm$ 2x300MVAr STATCOM, 4x125MVAr(400kV) MSC, 2x125MVAr (400kV) MSR along with 2 Nos. of 400kV bays at Ramgarh PS

General Details

Special Purpose Vehicle (SPV)	:	Ramgarh Transmission Limited
Bid Process Coordinator (BPC)	:	RECPDCL
Estimated Cost	:	1440 Cr.
Levelized Tariff	:	161.50 cr.
Request for Proposal	:	28.01.22
Letter of Intent	:	11.09.23
Transmission Service Agreement (TSA)	:	26.10.23
SPV acquisition	:	26.10.23
Transmission License by CERC	:	Applied on 31.10.23

Tariff adoption by CERC	:	Applied on 31.10.23
Clearance u/s 164	:	
Execution plan submitted to CEA	:	
NIT issued on	:	Jan'22-Feb'22
EPC awarded on	:	12.10.23 - 13.10.23 (ST-02T under award)
Scheduled Date of Completion	:	Oct'25

Status of progress of Transmission Line:

1. Ramgarh-Bhadla-III 765kV D/C line

Length	:	180 km
Locations	:	
Foundation completed	:	
Towers erected	:	
Stringing completed	:	
Scheduled COD	:	Mar'25
Anticipated COD	:	Mar'25

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: -

2. Estab. of 765/400kV, 2X1500MVA 765/400kV Ramgarh New SS

Land Acquisition	:	Under Process
Civil work completed	:	
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Mar'25
Anticipated COD	:	Mar25

3. 2X330MVAR STATCOM at 765/400kV Ramgarh New SS

Land Acquisition	:	Under Process
Civil work completed	:	
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Oct'25
Anticipated COD	:	Oct'25

4. Bay Extn. at Bhadla-III SS

Land Acquisition	:	Under Process
Civil work completed	:	
Equipment supplied	:	
Equipment erection	:	
Scheduled COD	:	Mar'25
Anticipated COD	:	Mar'25

20. Transmission system for evacuation of power from REZ in Rajasthan (20 GW) under Phase-III part H

Background:

In order to integrate and evacuate power from additional 20 GW renewable potential of Renewable Energy Zones (Fatehgarh: 9.1 GW, Bhadla: 8 GW, Ramgarh: 2.9 GW) in Rajasthan, various transmission alternatives were evolved and deliberated in the 3rd NRPC-TP meeting held on 19.02.21. Based on the discussion, hybrid (EHVAC& HVDC) transmission system was agreed in above meeting for evacuation of power from additional 20 GW REZ in Rajasthan (Phase-III). As part of Phase-III system, Fatehgarh-IV & Bhadla-III Pooling stations (new) are to be established which will be interconnected with Fatehgarh-III & Fatehgarh-II PS respectively. Further, renewable sources in Ramgarh complex are also proposed to be pooled at Ramgarh PS which shall be interconnected with Bhadla-III PS. In view of integration & evacuation of additional 20 GW RE in Rajasthan with reliability as well as taking care of RE variability, under Phase-III System, Hybrid transmission system comprising EHV AC (765kV) & HVDC corridors are planned towards Delhi & Southern UP.

The subject transmission scheme involves Establishment of 765/400 kV substation at suitable location near Dausa, implementation of 765 kV Beawar – Dausa D/c line, LILO of both circuits of 765 kV Jaipur (Phagi)-Gwalior D/c at Dausa and LILO of both circuits of 400kV Agra – Jaipur(south) D/c at Dausa which shall facilitate evacuation of RE power from Fatehgarh complex through Fatehgarh-III PS and Beawar S/S for onward dispersal of power to various beneficiaries.

Scope of Transmission Project-

Substation

1. Establishment of 2x1500 MVA 765/400kV substation at suitable location near Dausa along with 2x330 MVAR, 765 kV Bus Reactor & 2x125 MVAR, 420 kV bus Reactor

[765 kV line bays – 6 nos.; 400kV line bay- 4 nos.; Bays associated with X-mer and Bus Reactor 4X240MVAR 765kV Line Reactor; 2X50MVAR 400kV Line Reactor]

2. Bay Extension at Beawar S/s

[765 kV line bays – 2 nos.; 2X240MVAR 765kV Line Reactor]

Transmission Line

3. LILO of both circuits of Jaipur (Phagi)-Gwalior 765 kV D/c at Dausa S/s
4. LILO of both circuits of Agra – Jaipur (south) 400 kV D/c at Dausa S/s
5. Beawar – Dausa 765 kV D/c line

General Details

Special Purpose Vehicle (SPV)	:	Dausa Beawar Transmission Limited
Bid Process Coordinator (BPC)	:	PFCCL
Estimated Cost	:	1870 Cr.
Levelized Tariff	:	200.28 cr.
Request for Proposal	:	03.03.2022
Letter of Intent	:	05.09.23
Transmission Service Agreement (TSA)	:	30.10.23
SPV acquisition	:	30.10.23

Transmission License by CERC	:	
Tariff adoption by CERC	:	
Clearance u/s 164	:	
Execution plan submitted to CEA	:	
NIT issued on	:	Feb'22-Mar'22
EPC awarded on	:	13.10.23 - 01.11.23 (RT01 under award)
Scheduled Date of Completion	:	29.04.25

Status of progress of Transmission Line:

1. Beawar-Dausa 765kV D/C line

Length	:	240 km
Locations	:	
Foundation completed	:	
Towers erected	:	
Stringing completed	:	
Scheduled COD	:	Apr'25
Anticipated COD	:	Apr'25

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 both circuits of Jaipur (Phagi)-Gwalior 765 kV D/c at Dausa

Length	:	80 km
Locations	:	
Foundation completed	:	
Towers erected	:	
Stringing completed	:	
Scheduled COD	:	Apr'25
Anticipated COD	:	Apr'25

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

3. LILO of both circuits of Agra – Jaipur (south) 400kV D/c at Dausa

Length	:	60 km
Locations	:	
Foundation completed	:	
Towers erected	:	
Stringing completed	:	
Scheduled COD	:	Apr'25

Anticipated COD : Apr'25

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

Sterlite Power Transmission Ltd.

21. Additional 400 kV 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 400 kV 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 765 kV 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 765 kV D/c line. Dharamjaygarh sub-station is further connected to Western Region (WR) and Northern Region (NR) grid through Dharamjaygarh – Jabalpur PS 765 kV 2xD/c line and onward 765 kV 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) 400 kV D/c quad line at Xeldem
2. Xeldem - Mapusa 400 kV D/c (quad) line
3. Xeldem (existing) – Xeldem (new) 220 kV D/C line
4. Establishment of 2x500MVA, 400/220 kV substation at Xeldem
5. Dharamjaygarh Pool section B - Raigarh (Tamnar) Pool 765 kV 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. Cr)	: 1531
Levelized Tariff (Rs. Cr)	: 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	: May'25

Status of progress of transmission project

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

Length	: 210 ckm (changed as per revised route suggested by DCF Dandeli)
Locations	: 279 nos (changed as per revised route suggested by DCF Dandeli)
Foundation completed	: 76 Nos.
Tower erected	: 6 Nos.
Stringing completed	: 0 ckm
Scheduled COD	: Nov'21/Jul'22*
Anticipated COD	: May'25

Constraints/Approval if any:

1. Delay in grant of Forest clearance for Diversion of 177.091 Ha of forest land. The Proposal was 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. The 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) 400 kV 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.

4. A joint site visit by GTTPL & KPTCL was completed on 10.07.2023 for utilization of 110 & 220 kV corridor and survey report was submitted to GM (Tech) KPTCL by CE (Elec) on 27.07.2023. KPTCL has provided their concurrence on 04.10.23 for utilization of corridor and recommended for multi circuit of the existing 220 kV Line with 400 line.
5. 4 Locations are under Right of way (2 in Neerlakatti, 1 in Belur & 1 in Kotur village) of Dharwad Taluka of Dharwad District. Support Required from District Collector- Dharwad for Resolution of ROW.
6. Land compensation order as per the guideline adopted by the state of Karnataka awaited from Uttara Kannada, Belagavi & Dharwad district collectors.

Status of statutory approvals:

Forest area

Details of Tr. Line Falling under Forest	:	
Locations	:	159 Nos. ; Length : 54.705 km
Forest area (Ha)	:	Karnataka: 174.652 Ha Goa: 76.998 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 22 nd Nov'2022. Part II processed and FDP is currently with CF for part III processing. Karnataka Forest : DFO Dandeli vide letter dated 26.05.2023 provided the concurrence of route. Modified FDP submitted on 03.07.2023 at all the divisions. For Dandeli, Haliyal & Dharwad division, Part-II is completed and proposal is currently with Nodal officer. For Belagavi division, proposal is still pending with DFO for part-II processing.

Wildlife area

Details of Tr. Line Falling under Forest	:	
Locations	:	33 nos ; Length : 12.852 Kms
Wildlife area (Ha)	:	59.118 Ha (Karnataka: 32.026 Ha; Goa: 27.092 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. Part-II is completed by DFO North Goa. Proposal recommended for NBWL on 20.11.2023.

Karnataka: Revised proposal submitted on 20th July'22 at DFO Dandeli. Modified FDP submitted on 03.07.2023 at all the divisions. Part-II is completed by DFO and proposal is currently with Wildlife Warden, for SBWL consideration.

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 No.
Proposal submitted	: 0 No.
Approval obtained	: 0 No.

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

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

Length	: 105.488 ckm
Locations	: 141 Nos.
Foundation completed	: 118 Nos.
Tower erected	: 97 Nos.

Stringing completed	: 11.48 ckm
Scheduled COD	: May'21 /Jan22*
Anticipated COD	: Jun'24

Constraints/Approval if any:

1. 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 kV D/C Xeldem – Mapusa Line.
2. RoW issues at 7 Locations (6 in Amona, , 1 in Karapur) of Bicholim Taluka of North Goa District.

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. Proposal processed by State Govt. REC meeting conducted on 31.10.2023. . Stage-I issued on 28.11.2023.

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 Defence/Civil Aviation : Yes proposal submitted

Current Status : Approved (Revised approval Required due to change in Substation Location)

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

Length : 137 ckm

Locations : 179 Nos.

Scheduled COD : July '21 /Mar '22*

Anticipated COD : 23.06.2022 (Line Charging Completed)

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

Length : 44.19 ckm

Locations : 65 Nos.

Foundation completed : 38 Nos.

Tower erected : 19 Nos.

Stringing completed : 0 ckm

Scheduled COD : May'21 /Jan'22*

Anticipated COD : Jun'24

Constraints/Approval if any:

1. 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 220 kV D/C Xeldem – Xeldem Line and Working permission received on 19th Aug 2021.
2. 2 Locations are under the Right of Way issue (1 Loc in Sanvordem Village of Sanguem Taluka, 1 Loc in Dharbandora village of Dharbandora Taluka), in South Goa District

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. Proposal processed by State Govt. and currently under process at MOEF&CC Regional office Bengaluru.

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 : 72%
Equipment supplied : 90 %
Equipment erection : 22 %
Scheduled COD : May'21/ Jan'22*
Anticipated COD : Jun'24

Constraints/Approval if any:

1. 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 400/220 kV Xeldem Substation.

22. Establish Transmission System for 400 kV Udupi (UPCL) – Kasargode D/C Line

Background :

Udupi– Kasargode 400 kV (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 400 kV (Quad) D/c line
2. Establishment of 2x500MVA, 400/220 kV GIS substation at Kasargode
3. 2 Nos. of 400 kV 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. Cr)	: 754.87
Levelized Tariff (Rs. Cr)	: 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
Anticipated COD	: Dec'24

Status of progress of transmission project

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

Length	: 230.94 ckm
Locations	: 278 Nos.
Foundation completed	: 100 Nos.
Tower erected	: 79 Nos.
Stringing completed	: 1.68 ckm
Scheduled COD	: 11 th Nov 2022/ Feb'23

Constraints/Approval if any:

1. 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.
2. As per HC order dated 20.03.2023, survey work shall be conducted in the presence of petitioners of WP 19432/2022 and WP 3186/2023, and they shall assist the survey work. Survey report shall be placed on this court before next date of hearing 06.04.2023, based on final report submitted to DC Dakshina Kannada on dtd. 19.04.2023. Survey report submitted to the high court and further hearing date scheduled on 6th Oct'23.
3. Hon'ble HC of Karnataka vide its final Order dated 29.03.2023 has quashed the prior approval by CEA under Section 68 citing the reason that central government in delegating the authority of granting prior approval to CEA under section 68 of the Act for laying overhead transmission lines is one without authority of law. Further, the Order clearly mentions that the delegate can't sub-delegate an essential function of decision making. Further, in this regard, clarification has been issued on 21.04.2023 by the Hon'ble HC of Karnataka that the Order is confined only on land of Petitioner of WP20819/2021. Appeal submitted to high court and further hearing completed on 14.06.2023. Vide order dated 27.07.2023 Hon'ble High court of Karnataka has dismissed the orders passed for WP 20819/2021 on dated 29.03.2023 i.e. approval under section 68 for petition land has been treated valid.
4. RoW issue: Even after revised DC order of higher compensation, majority of landowners are not allowing to start the work. DC Dakshina Kannada/Horticulture department of Mangalore need to revise the tree rate with reference to Kerala tree rates as per demand of the local villagers in Dakshina Kannada.
5. **Court cases in Karnataka:** WP 20819/2021, WP 19432/2022, WP 4679/2023, WP 3186/2023 & 15989/2023 is dismissed by High court of Karnataka and for WP 13921/2023 hearing is expected to be scheduled in December 2023.

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.

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 : 7 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 No.
Proposal submitted : 9 Nos.
Approval obtained : 7 Nos.

River Crossings

Total No. of crossings : 0 No.
Proposal submitted : 0 No.
Approval obtained : 0 No.

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

Current Status : Defence Aviation : Approved
Civil Aviation : Approved

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

Land Acquired : 100 %
Civil work completed : 99.82%
Equipment supplied : 100%
Equipment erection : 98.31%
Scheduled COD : 11th Nov 2022
Anticipated COD : Dec'24

Constraints / approval; if any:

3. 2 Nos. of 400 kV line bays and Bus Bar extension works at UPCL Switchyard

Land Acquired	: Space will be provided by UPCL
Civil work completed	: 100%
Equipment supplied	: 100 %
Equipment erection	: 99.44%
Scheduled COD	: 11 th Nov 2022/ Feb'23
Anticipated COD	: Test charging completed on 30.07.2023.

Current Status: Test charge completed, and COD is Dependent on commissioning of Udupi-Kasargode line.

23. 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 220 kV outlets from the substation.

Part D is under North-Eastern Region Strengthening Scheme – IX and planned to reduce overloading of Pare – Naharlagun / Nirjuli 132 kV 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 220 kV D/C line
- (iv) Padghe (PG) – Kharghar 400 kV D/c (quad) line to be terminated into one ckt. of Kharghar – Vikhroli 400 kV D/c (quad) line (thus forming Padghe (PG) - Kharghar 400 kV S/c (quad) line, Padghe (PG) - Vikhroli 400 kV S/c (quad) line)
- (v) LILO of Padghe (PG) – Vikhroli 400 kV 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 220 kV 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) 132 kV 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 MVA 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)	: PFCCCL

Estimated Cost (Rs. Cr)	: 2600
Levelized Tariff (Rs. Cr)	: 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

Part A - Additional 400 kV 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.
Scheduled COD	: 23 Oct'22
Anticipated COD	: 29 th Jun'22 (Charging Completed)

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

2. Establishment of 2x500 MVA, 400/220 kV S/s near Vapi / Ambheti (Vapi – II)

Land Acquired	: 100 %
Civil work completed	: 55.17%
Equipment supplied	: 96.78%
Equipment erection	: 3.68 %
Scheduled COD	: 22-Apr-2023
Anticipated COD	: Mar-24

Current Status:

MUML has filed application of 63/AA on 18.01.2023 at DC Valsad office however application was rejected by DC Valsad office citing the non-agriculturist identity of landowner. Subsequently, MUML has approached Special Secretary Revenue Department (SSRD) to plead a resolution.

The SSRD's Order issued on 11.10.2023 states that “till further hearing of the case with-to maintain status-quo in the revenue records and place in respect of the land in question and It is hereby ordered that no/any other changes or transfers of the same kind shall be made.”

Though the necessary police protection permission was previously granted by the SP, Office Valsad but recently the Police Dept. has re-informed that in accordance with the SSRD order (11.10.2023)

there shall be an absolute stay condition over the ongoing SS works & till SSRD's further permission for continuation of SS works, they cannot provide Police Protection. Next Hearing on SSRD is scheduled on 04.12.2023.

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

Length	: 0.314 ckm (As per revised substation location)
Locations	: 2 Nos. (As per revised substation location)
Foundation completed	: 0 No.
Tower erected	: 0 No.
Stringing completed	: 0 ckm
Scheduled COD	: 22-Apr-2023
Anticipated COD	: Mar-24

Status of statutory approvals:

Forest area : NA

Wildlife area : NA

Power line crossing : NA

Railway crossing : NA

National Highway / SH Crossing : NA

River Crossings : NA

PTCC approval

Proposal submitted to Defence	: Yes
Proposal submitted to BSNL	: Yes
Proposal submitted to Railways	: Yes
Current status	: Received on 28-09-2023

Defence/Civil Aviation

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

4. 125 MVar bus reactor at Vapi – II Substation

Land Acquired	: 100 %
Civil work completed	: 90%
Equipment supplied	: 100%
Equipment erection	: 0 %
Scheduled COD	: 22-Apr-2023
Anticipated COD	: Mar-24

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

Length	: 45.4 ckm
Locations	: 77 Nos.
Foundation completed	: 69 Nos.
Tower erected	: 59 Nos.
Stringing completed	: 17.162 ckm
Scheduled COD	: 22-Apr-2023
Anticipated COD	: Mar-24

Constraints:

1. Work stopped at Location 1/0 due to order of Hon'ble SC on disputed land.
2. In Loc. No., 32/0, 22/1, 23/0, 25/1, 31/0, 41/0 Police protection is required, and a request letter to grant police protection has already been submitted to the SP office by TSP on 05.10.2023.
3. Work hampered at Loc. No. 4A/0 because DC - Silvassa has issued instructions to CE for shifting of MUML tower 4A/0 from present location due to their Helipad construction plan.

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	: 8 Nos.
Approval obtained	: 8 Nos.

Railway crossing

Total No. of crossings	: 0 No.
Proposal submitted	: 0 No.
Approval obtained	: 0 No.

National Highway / SH Crossing

Total No. of crossings	: 1 Nos.
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Proposal submitted	: 1 Nos.
Approval obtained	: 1 Nos.

River Crossings

Total No. of crossings	: 0 No.
Proposal submitted	: 0 No.
Approval obtained	: 0 No.

PTCC approval

Proposal submitted to Defence	: Yes
Proposal submitted to BSNL	: Yes
Proposal submitted to Railways	: Yes
Current status	: Received on 28-09-2023

Defence/Civil Aviation

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

Part C - Additional ISTS feed to Navi Mumbai 400/220 kV substation of POWERGRID

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

Length	: 140 ckm
Locations	: 222 Nos.
Foundation completed	: 124 Nos.
Tower erected	: 105 Nos.
Stringing completed	: 17.67 ckm
Scheduled COD	: 22-Dec-2023
Anticipated COD	: Jun-2024

Current Status: Detailed Survey completed

Constraints / Approval; if any:

1. ROW issues at all Non-forest locations (6 locations in Raigad and 48 locations in Thane).
2. Pot Hissa issues for Identification of actual Landowners & area assessment to be resolved, due to which many locations are not getting started (in Ambarnath Taluka – 21 nos location & 12 km of stringing are impacted, in Bhiwandi Taluka - 3.2 km of stringing are impacted, and in Kalyan 7.25 km of stringing are impacted).

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	: Stage-1 approval received on 30.12.2022. Tree Cutting and working permission received from CCF Thane on 23.01.2023.
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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	: 19 Nos.
Approval obtained	: 18 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	: 7 Nos.
Proposal submitted	: 7 Nos.
Approval obtained	: 2 Nos.

River Crossings

Total No. of crossings	: 4 Nos.
Proposal submitted	: 4 Nos.
Approval obtained	: 0 No.

PTCC approval

Proposal submitted to Defence	: Submitted on 21.06.23
Proposal submitted to BSNL	: Submitted on 21.06.23
Proposal submitted to Railways	: Submitted on 21.06.23
Current status	: Submitted on 21.06.23

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation	: Civil Aviation submitted. Defence Aviation Proposal submitted on 09-10-23
Current Status	: Defence Aviation is under scrutiny at authority Civil Aviation is under scrutiny at authority

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

Length	: 38 ckm
Locations	: 60 No.
Foundation completed	: 28 Nos.
Tower erected	: 24 Nos.
Stringing completed	: 2.144 ckm

Scheduled COD	: 22-Dec-2023
Anticipated COD	: June-2024

Current Status: Detailed Survey completed.

Constraints / Approval; if any:

1. ROW issues at all non-forest locations (13 Locations in Raigad and 2 locations in Thane).

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	:	Stage-1 approval received on 30.12.2022. Tree Cutting working permission received from CCF Thane on 23.01.2023.

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	:	0 No.
Proposal submitted	:	0 No.
Approval obtained	:	0 No.

National Highway / SH Crossing

Total No. of crossings	:	0 No.
Proposal submitted	:	0 No.
Approval obtained	:	0 No.

River Crossings

Total No. of crossings	:	0 No.
Proposal submitted	:	0 No.
Approval obtained	:	0 No.

PTCC approval

Proposal submitted to Defence	:	Submitted on 21.06.23
Proposal submitted to BSNL	:	Submitted on 21.06.23

Proposal submitted to Railways	: Submitted on 21.06.23
Current status	: Submitted on 21.06.23

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation	: Civil Aviation submitted. Defence Aviation Proposal submitted on 09-10-23
Current Status	: Defence Aviation is under scrutiny at authority Civil Aviation is under scrutiny at authority

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

Length	: 4.8 ckm
Locations	: 10 Nos.
Foundation completed	: 0 No.
Tower erected	: 0 No.
Stringing completed	: 0 ckm
Scheduled COD	: 22-Dec-2022
Anticipated COD	: Mar'24

Constraints / Approval; if any:

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 No.
Proposal submitted	: 0 No.
Approval obtained	: 0 No.

Railway crossing

Total No. of crossings	: 0 No.
Proposal submitted	: 0 No.
Approval obtained	: 0 No.

National Highway / SH Crossing

Total No. of crossings : 0 No.
 Proposal submitted : 0 No.
 Approval obtained : 0 No.

River Crossings

Total No. of crossings : 0 No.
 Proposal submitted : 0 No.
 Approval obtained : 0 No.

PTCC approval

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

Defence/Civil Aviation

Proposal submitted to Defence/Civil : No
 Aviation
 Current Status : Proposal submitted

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 : 61.99 ckm
 Locations : 91 Nos.
 Scheduled COD : 22-Jun-2023
 Actual COD : Aug-23

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

Scheduled COD : 22-Jun-2023
 Actual COD : Aug-23

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

Length : 33.42 ckm
 Locations : 56 Nos.
 Scheduled COD : 22-Jun-2023
 Actual COD : Aug-23

24. Establishment of new 220/132 kV substation at Nangalbibra

Background -

Presently, the state of Meghalaya has one 400/220 kV S/s at Byrnihat (MePTCL) and one 132 kV 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 220 kV 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 No.n-compliant.

Therefore, a new 220/132 kV substation may be required at Nangalbibra which would be fed from Bongaigaon 400/220 kV Substation through 400 kV D/c line (initially operated at 220 kV). This interconnection would reduce the critical loading on BTPS – Agia 220 kV 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) 132 kV (Single Moose) D/c line. In addition, MePTCL has planning to develop Nangalbibra (ISTS) – Mawngap 220 kV 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) 220/132 kV S/s to 400 kV 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 132 kV 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) 132 kV D/c line may be required.

Scope of transmission project

1. Establishment of new 220/132 kV , 2x160MVA substation at Nangalbibra
2. Extension at 220 kV GIS in Bongaigaon (POWERGRID) 400/220 kV S/s: 2 No. of GIS line bays for termination of Bongaigaon (POWERGRID) – Nangalbibra 400 kV D/c line (initially operated at 220 kV)
3. Extension at Hatsinghmari (Assam) S/s: 2 No. of 132 kV line bays for termination of Hatsinghmari (Assam) – Ampati (Meghalaya) 132 kV D/c line
4. Extension at Ampati (Meghalaya) S/s: 2 No. of 132 kV line bays for termination of Hatsinghmari (Assam) – Ampati (Meghalaya) 132 kV D/c line
5. Bongaigaon (POWERGRID) – Nangalbibra 400 kV D/c (Twin ACSR Moose) line (initially operated at 220 kV)
6. Hatsinghmari (Assam) – Ampati (Meghalaya) 132 kV (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. Cr)	:	560
Levelized Tariff (Rs. Cr)	:	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	:	28.12.2022.
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 400 kV D/c (Twin ACSR Moose) line (initially operated at 220 kV)**

Length	:	246 ckm
Locations	:	309 No.
Foundation completed	:	244 Nos.
Tower erected	:	169 Nos.
Stringing completed	:	47.70 ckm
Scheduled COD	:	Dec'23
Anticipated COD	:	Jun'24

Constraints/Approval if any:

1. Facing severe ROW issues at 9 locations (3/1, AP4, AP5, AP6, AP7, AP9, AP12, AP27 & AP30) in Kokrajhar District, 07 locations (33/1, AP36, AP40, 41/1, 41/3, AP43 & AP44) in Dhubri District, 06 locations (28/2, AP62, AP63, AP64, AP65 & AP66) in Bongaigaon District, 02 locations (AP83 & AP86) in Goalpara District and 02 locations (116/4 & 116/5) in East Garo Hills District.

Status of statutory approvals:**Forest area**

Details of Tr. Line Falling under Forest	:	
Locations	:	53 Nos. ; Length : 20.58 km
Forest area (Ha)	:	93.188 Ha
Forest proposals submitted on	:	Assam (61.6 Ha)-28.02.2022, Meghalaya (31.588 Ha)-15.05.2022,

Current status : Stage-1 clearance and working permission received for Assam and Meghalaya.

Wildlife area : NA

Power line crossing

Total No. of crossings : 13
Proposal submitted : 13
Approval obtained : 13

Railway crossing

Total No. of crossings : 4
Proposal submitted : 4
Approval obtained : 4

National Highway / SH Crossing

Total No. of crossings : 9
Proposal submitted : 9
Approval obtained : 8

River Crossings

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

PTCC approval

Proposal submitted to Defence : Yes
Proposal submitted to BSNL : Yes
Proposal submitted to Railways : Yes
Current status : Proposal submitted on 2nd May 2023

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation : Civil aviation approved
Defence Aviation proposal submitted on 07.08.2023

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

Length : 37 ckm
Locations : 57 Nos.
Foundation completed : 25 Nos.
Tower erected : 9 Nos.
Stringing completed : 0 ckm
Scheduled COD : Dec'23
Anticipated COD : Jun'24

Status of statutory approvals:

Forest area : NA

Wildlife area : NA

Power line crossing : NA

Railway crossing : NA

National Highway / SH Crossing : NA

River Crossings : NA

PTCC approval

Proposal submitted to Defence	: Yes
Proposal submitted to BSNL	: Yes
Proposal submitted to Railways	: Yes
Current status	: Proposal submitted on 2nd May 2023

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation	: Civil Aviation approved
Current Status	: Defence Aviation Proposal submitted on 07.08.2023.

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

Land Acquired	: 88%
Civil work completed	: 46 %
Equipment supplied	: 86 %
Equipment erection	: 0 %
Scheduled COD	: Dec'23
Anticipated COD	: Jun'24

Constraints/Approval if any:

1. Scquisition of balance 1.85 Acre land of S/S in Nengkhra, Distt. East Garo Hills, Meghalaya.

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

Land Acquired	: Space provided by POWERGRID
Civil work completed	: 96 %
Equipment supplied	: 97 %
Equipment erection	: 27 %
Scheduled COD	: Dec'23
Anticipated COD	: Jun'24

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

Land Acquired	: Space provided by AEGCL
Civil work completed	: 100 %
Equipment supplied	: 100 %
Equipment erection	: 98 %
Scheduled COD	: Dec'23
Anticipated COD	: Jun'24

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

Land Acquired	: Space provided by MePTCL
Civil work completed	: 96 %
Equipment supplied	: 100 %
Equipment erection	: 96 %
Scheduled COD	: Dec'23
Anticipated COD	: Jun'24

25. Transmission System for evacuation of power from Pakaldul HEP in Chenab Valley HEPs – Connectivity System

Background -

A comprehensive transmission system for providing connectivity to three Hydra Electric Projects (HEPs) viz Pakaldul (1000MW), Kiru (624 MW) and Kwar (540 MW) of Chenab Valley Power Projects Limited (CVPPL) in Union Territory of Jammu and Kashmir was agreed in the 1st Northern Region Power Committee- Transmission Planning (NRPC (TP)) meeting held on 24/01/2020. It was also agreed that the above projects would be connected to a common pooling station through 400 kV dedicated transmission line to be implemented by developer of these projects. Accordingly, establishment of common pooling station at Kishtwar by LILO of one circuit of Kishenpur — Dulhasti 400 kV D/c (Quad) line (Single Circuit Strung) was agreed to be implemented under ISIS to provide connectivity to above projects. Subsequently, during 2nd meeting of NRPC (TP) held on 01/09/2020, transmission system i.e. Kishtwar switching station - Kishenpur 400 kV S/c (Quad) line (stringing of second circuit of Dulhasti—Kishenpur 400 kV from Kishtwar upto Kishenpur) along with bays at both ends was also agreed to be implemented under ISIS for transfer of 1000MW from Pakaldul HEP to NR on target region on Long-term Access (LTA) basis.

Above transmission system for evacuation of Power from Pakaldul HEP in Chenab valley was also agreed in 48th Northern Region Power Committee (NRPC) meeting held on 02/09/2020 & 3rd National Committee on Transmission (NCT) held on 26th and 28th May, 2020. Subsequently, Ministry of Power, Government of India, vide its Gazette Notification No. CG-DL-E-28092020-222045 dated 25.09.2020 had declared establishment of Kishtwar Switching Station (GIS) including 400 kV bay at Kishtwar for stringing of second circuit of Dulhasti—Kishenpur 400 kV from Kishtwar upto Kishenpur through tariff based competitive bidding process route as part of "Transmission System for Evacuation of power from Pakaldul HEP in Chenab Valley HEPs – connectivity system".

Further, in 2nd meeting of NRPCTP held on 01.09.2020, JKPDD had intimated that presently, there are three Nos. of 132/33 kV GSS in vicinity to proposed Kishtwar Switching Station (GIS). In order to provide reliable power to the area, based on the request of JKPDD implementation of 2x200 MVA, 400/132 kV ICTs at Kishtwar Pooling Station along with 4 No. of 132 kV line bays at Kishtwar PS was agreed as system strengthening scheme in matching timeframe of Kishtwar PS. The matter was also discussed and agreed in. During the 4th meeting of NCT held on 20.01.2021 & 28.01.2021, it was also clarified that as per CERC Sharing Regulations, 2020 that transmission charges for the 400/132 transformers shall be apportioned to J&K only. Further, implementation of 400/132 kV transformer at Kishtwar Pooling Station was recommended to be combined with "Transmission system for evacuation of power from Pakaldul HEP in Chenab Valley HEPs - Connectivity System" which has already been No.tified by MoP in Gazette of India dated 25.09.2020 for implementation through TBCB.

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 400 kV 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 400 kV bays at Kishtwar (GIS) for LILO of one circuit of Kishenpur -Dulhasti 400 kV D/C (Quad) line (Single Circuit Strung)
4. 1 No of 400 kV 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 132 kV 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 Limited.
Estimated Cost (Rs. Cr)	: 311
Levelized Tariff (Rs. Cr)	: 38.846
Request for Qualification	: NA
Request for Proposal	: 04.02.2021
Letter of Intent	: 22.03.2022
Transmission Service Agreement (TSA)	: 17.02.2022*
SPV acquisition	: 06.12.2022
Transmission License by CERC	: 12.05.2023
Tariff adoption by CERC	: 23.03.2023
Contract Performance Guarantee	: 05.12.2022
Clearance u/s 164	: 31.08.2023.
Execution plan submitted to CEA	: 27.12.2022 (Revised plan submitted on 22.03.2023)
NIT issued on	: -
EPC contract awarded on	: 12.05.2023
Scheduled Date of Completion	: 01.04.2025

*CTU, CVPPL and KTL signed the TSA unconditionally on 17.02.2022, however, JKPCL signed the TSA with conditions on 15.10.22 and withdrew those condition on 24.11.2022. Due to delay in signing of TSA, SPV acquisition got delayed.

Status of progress of transmission project

1. LILO of one circuit of Kishenpur – Dulhasti 400 kV D/c (Quad) line at Kishtwar

Length	: 2.8 ckm
Locations	: 5 Nos.
Foundation completed	: 3 Nos.
Tower erected	: NIL
Stringing completed	: NIL
Scheduled COD	: 01 Apr'25
Anticipated COD	: 01 Apr'25

Constraints/Approval if any:

Status of statutory approvals:

Forest area : NA

Wildlife area : NA

Power line crossing : NA

Railway crossing : NA

National Highway / SH Crossing : NA

River Crossings : NA

PTCC approval

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

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation	: Defence Aviation Proposal submitted on 4 Oct'23. Civil Aviation - NA
Current Status	:

2. 400/132 kV (GIS) Pooling Station at Kishtwar

- a. Establishment of 400/132 kV pooling station at Kishtwar (GIS) along with Bus Reactor at Kishtwar pooling station by LILO of one circuit of Kishenpur – Dulhasti 400 kV D/c (Quad) line (Single Circuit Strung)
- b. 2Nos. of 400 kV bays at Kishtwar (GIS) for LILO of one circuit of Kishenpur – Dulhasti 400 kV D/c (Quad) line
- c. 1No. of 400 kV line bay at Kishtwar (GIS) for 2nd circuit stringing of Kishtwar-Kishenpur section
- d. 7X66.67MVA, I-Phase 400/132 kV ICT along with associated bays at Kishtwar pooling station
- e. 4Nos. of 132 kV bays

Land Acquired	: 70%
Civil work completed	: 1.51 %
Equipment supplied	: 0 %
Equipment erection	: 0 %
Scheduled COD	: 01Apr'25
Anticipated COD	: 01Apr'25

Constraints/Approval if any:

1. Acquisition of balance land (09 acre) is pending for substation.
2. Support sought from DC Kishtwar in resolution of bottle necks in the form of turning Radius or width of the road for substation equipment movement.

26. Establish Inter-State Transmission System for Transmission System for Evacuation of Power from REZ in Rajasthan (20GW) under Phase-III Part G

Background –

To integrate and evacuate power from additional 20 GW renewable potential of Renewable Energy Zones (Fatehgarh: 9.1 GW, Bhadla: 8GW, Ramgarh: 2.9 GW) in Rajasthan, various transmission alternatives were evolved and deliberated in the 3rd NRPC-TP meeting held on 19.02.21. Based on the discussion, hybrid (EHVAC& HVDC) transmission system was agreed in above meeting for evacuation of power from additional 20 GW REZ in Rajasthan (Phase-III).

As part of Phase-III system, Fatehgarh-4 & Bhadla-3 Polling stations (new) are to be established which will be interconnected with Fatehgarh-3 & Fatehgarh-2 PS respectively. Further, renewable sources in Ramgarh complex are also proposed to be pooled at Ramgarh PS which shall be interconnected with Bhadla-3 PS. In view of integration & evacuation of additional 20 GW RE in Rajasthan with reliability as well as taking care of RE variability, under Phase-III System, Hybrid transmission system comprising EHV AC (765 kV) & HVDC corridors are planned towards Delhi & Southern UP.

The subject transmission scheme involves implementation of Fatehgarh-3– Beawar 765 kV D/c (2nd) line which shall facilitate evacuation of RE power from Fatehgarh complex through Fatehgarh-3 PS for onward dispersal of power to various beneficiaries.

Above transmission system for evacuation of power from REZ in Rajasthan (20 GW) under Phase III was also agreed in 49th Northern Region Power Committee (NRPC) meeting held on 27/09/2021 & 5th National Committee on Transmission (NCT) held on 25/08/2021 and 2/09/2021. Subsequently, Ministry of Power, Government of India, vide its Gazette Notification CG-DL-E-08122021-231686 (No. 4661) dated 06.12.2021 declared establishment of Transmission system for evacuation of power from REZ in Raj (20 GW) under Phase III Part G through tariff based competitive bidding process route as part of “Transmission system for evacuation of power from REZ in Rajasthan (20 GW) under Phase III”.

Scope of transmission project

1. Fatehgarh-III – Beawar 765 kV D/C (2nd) along with 330MVAR Switchable line reactor for each circuit at each end of Fatehgarh-III– Beawar 765 kV D/C line
2. 2 Nos. of 765 kV line bays at both at Beawar II & Fatehgarh-III Substation.

General Details

Special Purpose Vehicle	: Fatehgarh III Beawar Transmission Limited (Sterlite Grid 19 Limited; a subsidiary of Sterlite Power Transmission Limited)
Bid Process Coordinator (BPC)	: Power Finance Corporation Consulting Ltd.
Estimated Cost (Rs. Cr)	: 1359
Levelized Tariff (Rs. Cr)	: 135.72
Request for Qualification	: NA
Request for Proposal	: 19.01.2022
Letter of Intent	: 03.03.2023
Transmission Service Agreement (TSA)	: 01.08.2023
SPV acquisition	: 01.08.2023
Transmission License by CERC	: Petition filed on 05.08.2023
Tariff adoption by CERC	: Petition filed on 05.08.2023

Contract Performance Guarantee	: 27.07.2023
Clearance u/s 164	: Under process
Execution plan submitted to CEA	:
NIT issued on	:
EPC contract awarded on	: April-2023
Scheduled Date of Completion	: Feb'2025
Anticipated COD	: Feb'2025

1. Fatehgarh III - Beawar 765 kV D/c line

Length	: 630.46 ckm
Locations	: 810 Nos.
Foundation completed	: 221 Nos.
Tower erected	: 49 Nos.
Stringing completed	: 0 ckm
Scheduled COD	: Feb'25
Anticipated COD	: Feb'25

Constraints/Approval if any:

1. Facing ROW issues at 123 locations.
2. Stay imposed by Hon'ble HC on 14 locations in Luni Village of Jodhpur District of Rajasthan since landowners has filed a case

Status of statutory approvals:

Forest area

Details of Tr. Line Falling under Forest	:
Locations	: 4 Nos.; Length : 3.451kms
Forest area (Ha)	: 11.344Ha
Forest proposals submitted on	: Not Submitted
Current status	: Proposal submitted on 06.11.23 on Parivesh Portal

Wildlife area : NA

Power line crossing

Total No. of crossings	: 18
Proposal submitted	: 0
Approval obtained	: 0

Railway crossing

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

National Highway / SH Crossing

Total No. of crossings	: 6
Proposal submitted	: 0
Approval obtained	: 0

River Crossings

Total No. of crossings	: 0
Proposal submitted	: 0
Approval obtained	: 0

PTCC approval

Proposal submitted to Defence	: No
Proposal submitted to BSNL	: No
Proposal submitted to Railways	: No
Current status	: Proposal Under Preparation

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation	: No
Current Status	: Proposal Under Preparation

2. 2 Nos. of Line Bays at Fatehgarh III Substation

Land Acquired	:
Civil work completed	: 0 %
Equipment supplied	: 0 %
Equipment erection	: 0 %
Scheduled COD	: Feb'25
Anticipated COD	: Feb'25

Current Status:

1. Design/drawing details from PGCIL is required to start design and engineering activities for sub-station bay extension. Following up with PGCIL since 21.03.2023.

3. 2 Nos. of Line Bays at Beawar II Substation

Land Acquired	:
Civil work completed	: 0 %
Equipment supplied	: 0 %
Equipment erection	: 0 %
Scheduled COD	: Feb'25
Anticipated COD	: Feb'25

Current Status:

Constraints/Approval if any:

27. Name of transmission project - Establish Inter-State Transmission System for “Transmission System for Evacuation of Power from REZ in Rajasthan (20GW) under Phase-III Part F

Background: In order to integrate and evacuate power from additional potential of renewable energy zones (20 GW) in Rajasthan (Fatehgarh: 9.1GW, Bhadla: 8GW, Ramgarh: 2.9GW) over and above 17 GW Solar Energy Zones (SEZ), various transmission alternatives were evolved & discussed with stakeholders and deliberated in the 3rd NRPC-TP meeting held on 19.02.21. Based on the discussions, hybrid (EHVAC & HVDC) transmission system was agreed in above meeting for evacuation of power from additional 20 GW REZ in Rajasthan (Phase-III).

As part of Phase-III system, Fatehgarh-4 & Bhadla-3 Pooling stations (new) are to be established which will be interconnected with Fatehgarh-3 & Fatehgarh-2 PS respectively. Further, renewable sources in Ramgarh complex are also proposed to be pooled at Ramgarh PS which shall be interconnected with Bhadla-3 PS. In view of integration & evacuation of additional 20 GW RE in Rajasthan with reliability as well as taking care of RE variability, under Phase-III System, Hybrid transmission system comprising EHV AC (765 kV) & HVDC corridors are planned towards Delhi & Southern UP.

The subject transmission scheme involves establishment of 765/400 kV Substation at suitable location near Beawar, implementation of Fatehgarh-3– Beawar 765 kV D/c line, LILO of both circuit of Ajmer-Chittorgarh 765 kV D/c at Beawar and LILO of 400 kV Kota–Merta line at Beawar S/s which shall facilitate evacuation of RE power from Fatehgarh complex to Beawar and onward dispersal of power beyond Beawar to various beneficiaries.

Above transmission system for evacuation of power from REZ in Rajasthan (20 GW) under Phase III was also agreed in 49th Northern Region Power Committee (NRPC) meeting held on 27/09/2021 & 5th National Committee on Transmission (NCT) held on 25th Aug, 2021 and 2nd Sep, 2021.

The project is a major boost for the development of renewable energy in Rajasthan. It will help to harness the state's abundant renewable energy resources and contribute to the country's clean energy goals. The project will also help to improve the power supply situation in Rajasthan and reduce the state's dependence on imported coal.

Scope of transmission project

1. Establishment of 2x1500MVA 765/400 kV Substation at suitable location near Beawar along with 2x330 MVA 765 kV Bus Reactor & 2x125 MVA 420 kV Bus Reactor.
2. LILO of both circuit of Ajmer-Chittorgarh 765 kV D/c at Beawar.
3. LILO of 400 kV Kota –Merta line at Beawar.
4. Fatehgarh-III– Beawar 765 kV D/c along with 330 MVA Switchable line reactor for each circuit at each end of Fatehgarh-3– Beawar 765 kV D/c line.
5. +/- 2x330 MVA STATCOM, 4x125 MVA MSC, 2x125 MVA MSR at Fatehgarh-3 PS along with 2 Nos. of 400 kV bays at Fatehgarh-3 PS.

General Details

Special Purpose Vehicle	: Beawar Transmission Limited (BTL) (Sterlite Grid 27 Limited; a subsidiary of Sterlite Power Transmission Limited)
Bid Process Coordinator (BPC)	: REC Power Development and Consultancy Limited.
Estimated Cost (Rs. Cr)	: 2600

Levelized Tariff (Rs. Cr)	: 274.93
Request for Qualification	: NA
Request for Proposal	: 19.01.2022
Letter of Intent	: 25.08.2023
Transmission Service Agreement (TSA)	: 20.09.2023
SPV acquisition	: 20.09.2023
Transmission License by CERC	: Filed on 27.09.2023
Tariff adoption by CERC	: Filed on 27.09.2023
Contract Performance Guarantee	:
Clearance u/s 164	: Under Preparation
Execution plan submitted to CEA	:
NIT issued on	:
EPC contract awarded on	:
Scheduled Date of Completion	: 20.09.2025
Anticipated COD	: 20.09.2025

Status of progress of transmission project

1. Fatehgarh-III PS– Beawar 765 kV D/c

Length	: 634.74 ckm
Locations	: 802 Nos.
Foundation completed	: 0 Nos.
Tower erected	: 0 Nos.
Stringing completed	: 0 ckm
Scheduled COD	: Mar'25
Anticipated COD	: Mar'25

Constraints/Approval if any:

1.

Status of statutory approvals:

Forest area

Details of Tr. Line Falling under Forest	:
Locations	: 4 Nos.; Length : 3.451kms
Forest area (Ha)	: 11.344Ha
Forest proposals submitted on	: Not Submitted
Current status	: Proposal Under Preparation

Wildlife area : NA

Power line crossing

Total no. of crossings	: 18
Proposal submitted	: 0
Approval obtained	: 0

Railway crossing

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

National Highway / SH Crossing

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

River Crossings : NA

PTCC approval

Proposal submitted to Defence	: No
Proposal submitted to BSNL	: No
Proposal submitted to Railways	: No
Current status	: Proposal Under Preparation

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation	: No
Current Status	: Proposal Under Preparation

2. LILO of both circuit of Ajmer-Chittorgarh 765 kV D/c at Beawar

Length	: 136.39 ckm
Locations	: 181
Foundation completed	: 0 nos
Tower erected	: 0 nos
Stringing completed	: 0 ckm
Scheduled COD	: Mar'25
Anticipated COD	: Mar'25

Constraints/Approval if any:

Status of statutory approvals:

Forest area : NA

Wildlife area : NA

Power line crossing

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

Railway crossing

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

National Highway / SH Crossing

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

River Crossings : NA

PTCC approval

Proposal submitted to Defence	: No
Proposal submitted to BSNL	: No
Proposal submitted to Railways	: No
Current status	: Proposal Under Preparation

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation	: No
Current Status	: Proposal Under Preparation

3. LILO of 400 kV Kota –Merta line at Beawar

Length	: 64.154 ckm
Locations	: 89 nos
Foundation completed	: 0 nos
Tower erected	: 0 nos
Stringing completed	: 0 ckm
Scheduled COD	: Mar'25
Anticipated COD	: Mar'25

Constraints/Approval if any:

Status of statutory approvals:

Forest area : NA

Wildlife area : NA

Power line crossing

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

Railway crossing : NA

National Highway / SH Crossing

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

River Crossings : NA

PTCC approval

Proposal submitted to Defence : No
Proposal submitted to BSNL : No
Proposal submitted to Railways : No
Current status : Proposal Under Preparation

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation : No
Current Status : Proposal Under Preparation

4. Establishment of 2x1500 MVA 765/400 kV Substation at suitable location near Beawar along with 2x330 MVar 765 kV Bus Reactor & 2x125 MVar 420 kV Bus Reactor

:
Land Acquired
Civil work completed : 0 %
Equipment supplied : 0 %
Equipment erection : 0 %
Scheduled COD : Mar'25
Anticipated COD : Mar'25

Constraints/Approval if any:**5. +/- 2x330 MVar STATCOM, 4x125 MVar MSC, 2x125 MVar MSR at Fatehgarh-3 PS along with 2 Nos. of 400 kV bays at Fatehgarh-3 PS.**

:
Land Acquired
Civil work completed : 0 %
Equipment supplied : 0 %
Equipment erection : 0 %
Scheduled COD : Sep'25
Anticipated COD : Sep'25

Resurgent Power Venture Pte Limited

28. 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 400 kV 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 400 kV 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 400 kV 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. Cr.)	:	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 400 kV D/C (HTLS) line

The route alignment & detailed survey is completed.

Tower Package is awarded. Check survey is under progress.

Length:	77 ckm
Locations:	102 Nos.
Foundation completed:	26 Nos.
Tower erected:	18 Nos.
Stringing completed:	
Scheduled COD:	Dec'19
Anticipated COD:	Dec'24 / Minimum 27 No. of working months required from the date of resolution of CERC Petitions, IDPL -NOC from Uttrakhand State Govt, DFO (Tehri), DFO (Dehradun), Court proceedings etc

Constraints where Project Authority requires intervention:

Severe RoW issues: Severe RoW issues are existing in the following sections:

Foundation, Tower Erection & Stringing section

1. AP-1/0 – AP-4 - Sontiyal, Fafran, Mann Villages.
2. AP-10 to AP-13 - Amsari & Thaniyul Village
3. AP-22 - Phalsari Village
4. AP-30 to AP-33 - Raundeli Village
5. AP-35/0 - AP-39/0 - Agar & Bhingarki Village
6. AP-48/0 – AP-49/0 - Pater & Barkot Village

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest:-

Locations: 63 Nos.

Length: 22.2 Km.

Forest area affected (ha) : 103.453 ha

Current status: In the month of Dec 2022 online submission of FDP has been successfully done. Tree enumeration under Tehri, Narendra Nagar & Dehradun forest division has been completed and tree enumeration is also completed. Hard copy of the proposal is yet to be submitted as PTCUL NOC is awaited. Matter escalated through Secretary Power, Govt. Of India to Chief Secretary (Uttarakhand) on 4 November 2022. The matter has been intervened by Joint Secretary (Transmission), Ministry of Power, Government of India, New Delhi in the month of July 2023 with Secretary (Energy), Government of Uttarakhand. A meeting was held under the chairmanship of Secretary Energy, Govt. of Uttarakhand on 30 November 2023 for resolution of the issue pertaining to issuance of final NOC from PTCUL.

A meeting was also held on 01 December 2023 by Chief Secretary, Govt. of Uttarakhand for discussions on the pending Forest Diversion Proposal, ROW issues and PTCUL NOC.

Power line crossing

Total No. of crossings	:	09 Nos.
Proposal submitted	:	09 Nos.
Approval obtained	:	09 Nos.

Railway crossing

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

National Highway Crossing

Total No. of crossings	:	04 Nos.
Proposal submitted	:	04 Nos.
Approval obtained	:	00 No.

River Crossings

Total No. of crossings	:	Nil
Proposal submitted	:	Nos.
Approval obtained	:	Nos.

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:	Dec 24

Constraints where Project Authority requires intervention:

Final NOC from PTCUL for construction of 2 Nos. of 400 kV bays at PTCUL Rishikesh substation is still awaited.

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

Length: 3 ckm

Locations:	06 Nos.
Scheduled COD:	Dec'16
Deemed COD:	30 Oct '17

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

The route alignment & detailed survey is completed.

Tower Package is awarded.

Length:	222 ckm
Locations:	304 Nos.
Scheduled COD:	Jun'19
Actual COD:	Oct' 23

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

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

Under commercial operation.

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

Scheduled COD	Jun'19
Actual COD:	Aug'23

Adani Transmission Limited

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

Background

NTPC Ltd. has planned to establish a 1980 MW (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 400 kV D/c (Quad) (ii) North Karanpura – Jharkhand Pool (Chandwa) 400 kV 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 400/220 kV , 2x500 MVA sub-station at Dhanbad along with LILO of both circuits of Ranchi – Maithon-RB 400 kV 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. 220 kV D/c lines, one each to Govindpur and Jainamore 220 kV sub-stations.

Scope of transmission project:

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

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. cr)	: 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 No.n-issue/delay in issue of NOC by MoC/CCL.
- LTTCs are directed No.t 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 400 kV 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 400 kV D/C line (only Double Circuit portion)

- Length (as per revised route): 196 ckm
- Locations (as per revised route): 286 Nos.
- Foundation completed: 142 Nos.
- Tower erected: 133 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:

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. State Govt has forwarded the proposal to IRO office on 27.01.2023 for further process. REC meeting was held on 21.02.2023 wherein forest proposal for NK-G JH line was discussed. MOM of the meeting has been received on 01.03.2023. EDS raised by IRO in REC meeting have been received by NKTL by 18.03.2023. Compliance against the same has been submitted by NKTL to respective DFOs by 23.03.2023. Stage-I approval was granted on 06.06.2023. Demand Notes have been received from DFO Chatra South on 23.06.2023, DFO Chatra North on 26.06.2023 and DFO Latehar on 02.07.2023. Upon verification, same were rejected by PCCF, Ranchi on 21.07.2023 due to errors in calculations. Revised demand Notes received from DFO Chatra South & Chatra North on 28.07.2023. and from Latehar forest division on 31.07.2023. Same were again rejected by PCCF office on 10.08.2023 in view of corrections. Again revised demand Notes with required corrections issued by DFO Latehar on 14.08.2023 and DFO Chatra North on 17.08.2023. Same were approved by PCCF office on 23.08.2023. Payment for the same was done on 07.10.2023 and compliance against the same was submitted.

Final demand for cost against Wildlife Management Plan and Soil & Moisture Conservation Plan (WLMP & SMCP) as per Stage-I conditions is awaited due to pending approval of WLMP & SMCP from forest dept.. As approval of WLMP & SMCP is getting delayed, NKTL requested PCCF office for demand notes for partial payment of 2.5% of project cost for payment and proceeding for working permission. Accordingly, demand notes received on 31.10.2023 from respective DFO offices and approved on 01.11.2023. Accordingly, payment against the same was done on 06.11.2023. Working permission is under process and awaited.

In Bihar portion, there was severe ROW at 5 Locations at Gaya end being faced. 4 Nos. of locations (116/0, 114/1, 115/0, 114/2) have been resolved and foundation has been completed.

For another location (114/0), landowners are refusing to accept the compensation order issued by DM Gaya. 3 Nos. of Notices have been served to landowners. With support of police protection, work has started. Resistance is also being faced from landowners during work.

Status of statutory approvals:

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

Details of Tr. Line Falling under Forest:-

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

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

Forest area affected (ha) : 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, Stage-I issued on 06.06.2023. Approved demand Notes received from 3 No.s of DFOs for CA, NPV & Dwarf plantation on 23.08.2023. Payment against the same made on 07.10.23 and complianes submitted. Demand Notes of partial payment agaisnt WLMP & SMCP received from DFOs on 31.10.23. Working permission is awaited.. 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 400 kV D/c line at Dhanbad

- Length: 5.4 ckm
- Locations: 10 No.
- 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

30. Transmission scheme for evacuation of 3 GW 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 765/400 kV , 3x1500MVA & 400/220 kV , 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 765 kV 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
- 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

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
Actual completion	:	Feb 2024

Status of progress of transmission project :

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

- Land acquisition : Land lease approval received on 16.06.2023 from revenue department, Gandhinagar. Accordingly, land lease payment intimation received from DC Office-Bhuj, Kutch on 22.06.2023. Demand Drafts for corresponding amount were submitted on dt. 15.07.2023 & 25.07.2023. Necessary Land lease formalities to take place post finalization of stamp duty charges which is under finalization at DC, Kutch.
- Civil Works : 98 %
- Equipment supplied : 100%
- Erection works : 90%
- Schedule completion : Jan-2024
- Anticipated completion : Feb 2024

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

- Length: 218 ckm
- Locations: 275 Nos.
- Foundation completed: 275 Nos.
- Tower erected: 271 Nos.
- Stringing completed: 180.89 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 POWERGRID, Bhuj
- Engineering : 100 %
- Civil Works : 100 %
- Equipment supplied : 100 %
- Erection works : 100%
- Schedule completion : Jan-2024
- Anticipated completion : Jan-2024

Issues:

1. ROU for approach road for substation at Khavda yet to be handed over by Govt of Gujarat for execution of Substation Work. TSP has received demand Note on 21.08.2023 from Collector, Kutch for payment of ROU charges. Payment done vide DD dated 01.09.2023. Stamp duty

payment for land & ROU of approach road received from Collector & paid vide DD dated 25.10.2023. Service charge payment DD under submission/preparation.

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: Working Permission received on 21.04.2023.

Power line crossing

Total No. of crossings	: 07 No.
Proposal submitted	: 07 No.
Approval obtained	: 07 No.

Railway crossing : NA

River Crossings : NA

NH Crossings

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

PTCC

Proposal submitted to BSNL in	: Submitted
Proposal submitted to Railways in	: NOC Received
Current status:	: NOC Received on 02.11.2023

Defence/Civil Aviation

Current Status	: NOC for Civil & Defence Aviation received
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31. Transmission scheme for evacuation of 4.5GW RE injection at Khavda P.S. under Phase II-Part A

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 10.5 GW, 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 4.5 GW RE injection at Khavda P.S. under Phase II-Part A. The subject scheme includes establishment of KPS2(GIS)-Lakadia 765 kV D/C line, 2 Nos. of 765 kV line bays each at Lakadia PS & KPS2(GIS).

Scope of transmission project:

- 1) KPS2 (GIS)-Lakadia 765 kV D/C line
- 2) 330 MVAR switchable line reactors at KPS2 end of KPS2(GIS)- Lakadia 765 kV D/C line.
 - 330 MVAR, 765 kV switchable for 765 kV line reactor- 2 Nos.
 - Switching equipments for 765 kV line reactor- 2 Nos.
 - 1×110 MVAR spare bus reactor available at KPS 2(GIS) to be used as spare
- 3) 2 Nos. of 765 kV line bays each at Lakadia PS & KPS2(GIS) for Khavda PS2(GIS) - Lakadia PS 765 kV D/c line

General Detail

Special Purpose Vehicle (SPV) (A subsidiary of Adani Transmission Limited)	: Khavda II-A Transmission Limited
Bid Process Coordinator (BPC):	REC Power Development & Consulting Ltd
Estimated Cost (Rs. Cr.)	: Rs. 1270 Cr.
Request for Qualification	: NA (Single Stage Bidding)
Request for Proposal	: 06.05.2022
Letter of Intent	: 16.02.2023
Transmission Service Agreement (TSA)	: 28.03.2023
SPV acquisition	: 28.03.2023
Transmission License by CERC	: Under process
Tariff adoption by CERC	: 06.07.2023
Contract Performance Guarantee	: Submitted

Clearance u/s 164	: Applied on 17.07.2023.
Execution plan to CEA	: Submitted on 16.06.2023.
NIT issued on	:
EPC contract awarded on	: Awarded
Scheduled Date of Completion	: Mar 2025
Anticipated completion	: Mar 2025

Status of progress of transmission project:

A) KPS2(GIS)-Lakadia 765 kV D/C line

- Length: 355 ckm
- Locations: 440 No.
- Foundation completed: 80 Nos.
- Tower erected: NIL
- Stringing completed: NIL
- Schedule completion: Mar-25
- Anticipated Completion: Mar-25

Constraints:

1. ROU for Transmission Route from KPS2 Pooling Station to India Bridge for Transmission Line KPS2(GIS)- Lakadia 765 kV D/C awaited.
2. RoW Issue being faced in stretch from Bhuj to Lakadia. Undue compensation demand from farmers & involvement of Kisan Sangh. Work is completely stopped since 26-10-2023. 89 locations getting affected under Taluka-Bhuj (67 locs) & Anjar (22 locs).

B) 2 Nos. of line bays at KPS2(GIS) for Khavda PS2(GIS) -Lakadia PS 765 kV D/c line

- Land acquisition : Space to be provided by POWERGRID which is pending.
- Engineering : 25% (Reactor Engg. Completed.)
- Civil Works : 0%
- Equipment supplied : 0 %
- Erection works : 0 %
- Schedule completion : Mar-2025
- Anticipated completion :

Issues:

1. Khavda II-A Transmission Ltd, vide letter dated 07.03.2023 to M/s POWERGRID, had sought Engineering inputs & possession of land required for bay construction which is pre-requisite to start the primary engineering & ordering activities. In absence of response on same, follow up letters were sent vide letter dated 10.04.2023, 08.06.2023 & 14.07.2023. POWERGRID vide letter dated 19.06.2023 and 15.07.2023 has provided SLD & Layout which is being under discussion due to significant cost implication to Khavda II-A Transmission Ltd due to layout prepared by PGCIL. A letter to CTUIL, PGCIL was given on 14.10.2023 on advice of JS, Transmission, MOP vide meeting dated 13.10.2023 to have a joint discussion on said issue. Joint discussion was done & accordingly, 3 layouts submitted to CTU vide letter dated 22.11.2023 by Khavda II-A Transmission Ltd

Further, it was informed by POWERGRID vide letter dated 06.11.2023 that land possession is yet to be obtained from GPCL (Govt of Gujarat).

C) 2 Nos. of line bays at Lakadia (PS) for Khavda PS2(GIS) -Lakadia PS 765 kV D/c line

- Land acquisition : Available
- Engineering : 55%
- Civil Works : 5%
- Equipment supplied : 0 %
- Erection works : 0 %
- Schedule completion : Mar-2025
- Anticipated completion : Mar-2025

Status of Statutory approvals:

Forest

Details of Tr. Line Falling under Forest : Length: 33.179 KM
Forest area affected (ha) : 222.296 Ha
Forest proposal submitted on : 19-04-2023

Wildlife

Details of Tr. Line Falling under WLS : Length: 1.879 KM
WLS area affected (ha) : 12.5907 Ha
WLS proposal submitted on : 05-05-2023

Power line crossing

Total No. of crossings : 13 Nos.
Proposal submitted : 05 Nos.
Approval obtained : 00 Nos.

NH Crossings

Total No. of crossings : 04 Nos.
Proposal submitted : 04 Nos.
Approval obtained : 00 Nos.

PTCC

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

Defence/Civil Aviation

Current Status : Under Preparation

32. ISTS Network Expansion Scheme In Western Region & Southern Region For Export Of Surplus Power During High RE Scenario In Southern Region.

Background :

Government of India has set a target of reaching 500 GW of installed capacity from renewable energy sources by the year 2030. In order to achieve the target, various Solar, Wind, Wind-Solar Hybrid policies have been enunciated by Central and State Governments. Southern Region is envisaged to be amongst leading potential green energy generation hubs, implementing large capacity renewable projects under these policies.

NLDC as part of operational feedbacks has highlighted that high loading beyond Kolhapur which is attributable to multiple factors viz. high generation at Kudgi TPS, low generation at plants in southern Maharashtra, high load around Kolhapur area, high renewable (Solar) generation in Southern Region etc. In addition, a number of large RE based generation projects are envisaged in the Southern Region especially in the prioritized REZs of Koppal, Gadag, Karur and Tuticorin areas. Stage-II Connectivity and LTA applications have already been received / granted from several generation projects in these areas.

Transmission system for integration and immediate evacuation of power from these REZs has already been planned and is under different phases of implementation. However, constraints are observed for export of surplus power from REZs in Southern Region to Western Region under high RE scenario in SR as well as to mitigate operational constraints being faced on Kolhapur (PG) – Kolhapur (MSETCL) – Karad (MSETCL) 400 kV D/c corridor.

The scheme was agreed in the 2nd Consultation Meeting for Evolving Transmission Schemes in Western Region (CMETS-WR) held on 28.12.2021 & Southern Region (CMETS-SR) held on 29.12.2021. The scheme was also discussed in the 40th and 41st SRPC meeting held on 31.01.2021 and 02.03.2022 respectively and in 41st WRPC meeting held on 23.02.2022. In the 8th National Committee Meeting (NCT) held on 25.03.2022, the above scheme was recommended for implementation through TBCB route.

The responsibility of the TSP was to establish the following Inter-State Transmission System - ISTS Network Expansion scheme in Western Region & Southern Region for export of surplus power during high RE scenario in Southern Region (hereinafter referred to as 'Project') on build, own, operate & transfer basis and to provide transmission service:

Scope of transmission project:

1. Narendra New (GIS) – Pune (GIS) 765 D/c Line with 1x330 MVar switchable line reactor (SLR) on each ckt at both ends.
 - 765 kV line bays – 2 (GIS) (at Narendra New)
 - 765 kV line bays – 2 (GIS) (at Pune)
 - 765 kV , 330MVar SLR – 2 Nos. (7 x 110 MVar incl. 1 switchable spare unit) at Pune (GIS)
 - 765 kV , 330 MVar SLR – 2 Nos. (6 x 110 MVar) at Narendra New (GIS)
2. Upgradation of Narendra New (GIS) to rated voltage of 765 kV level along with 4 x 1500 MVA transformer and 2 x 330 MVar Bus Reactor
 - 765/400 kV , 1500 MVA – 4 Nos. (13 x 500 MVA incl. 1 spare unit)
 - 765 kV ICT bays – 4 Nos.
 - 400 kV ICT bays - 2 Nos.

General Detail

Special Purpose Vehicle (SPV)	:	WRSR Power Transmission Limited (A subsidiary of Adani Transmission Limited)
Bid Process Coordinator (BPC)	:	REC Power Development and Consultancy Limited
Estimated Cost (Rs. Cr.)	:	Rs. 2109.45 Cr.
Request for Proposal	:	25.07.2022
Letter of Intent	:	26.12.2022
Transmission Service Agreement (TSA)	:	17.01.2023
SPV acquisition	:	17.01.2023
Transmission License by CERC	:	17.04.2023
Tariff adoption by CERC	:	26.03.2023
Contract Performance Guarantee	:	12.01.2023
Clearance u/s 164	:	01.12.2023
Execution plan to CEA	:	Submitted on 17.05.23.
EPC contract awarded on	:	13.07.2023
Scheduled Date of Completion	:	Jul'24
Anticipated completion	:	Jul'24

Status of progress of transmission project:

Upgradation of Narendra New (GIS) Substation to its rated voltage level of 765 kV

- Land acquisition : N/A
- Engineering : 55 %
- Civil Works : -
- Equipment supplied : -
- Erection works : -
- Schedule completion : 17.07.2024
- Anticipated Completion : 17.07.2024

Narendra New (GIS) – Pune (GIS) 765 kV D/c line

- Length: 635.542 ckm
- Locations: 793 Nos.
- Engineering: 97 %
- Survey: Detailed Survey Completed, Check Survey 99% Completed, 88 % Profile Approved
- Foundation completed: 30
- Tower erected: -
- Schedule completion: 17.07.2024
- Anticipated Completion: 17.07.2024

2 Nos. of line bays at Pune (GIS) Substation for termination of Narendra New (GIS) – Pune (GIS) 765 kV D/c line

- Land acquisition : Space for bay construction issued vide mail dated 18.08.2022 by POWERGRID, Bhuj
- Civil Works : Soil Investigation is completed
- Equipment supplied : -

- Erection works : -
- Schedule completion : 17.07.2024
- Anticipated completion : 17.07.2024

Current status:

Details of Tr. Line Falling under Forest : Length: 11.481 km
 Forest area affected (ha) : 76.8036 Ha
 Forest proposal submitted on : 26.10.23

Current status:

Power line crossing

Total No. of crossings : 19 Nos.
 Proposal submitted : 17 Nos.
 Approval obtained : 00 No.

River Crossings

Total No. of crossings (No.n navigable) : 06 Nos.
 Proposal submitted : 00 No.
 Approval obtained : 00 No.

NH Crossings

Total No. of crossings : 12 Nos.
 Proposal submitted : 12 Nos.
 Approval obtained : 00 Nos.

Railway Crossings

Total no. of crossings : 04 Nos.
 Proposal submitted : 02 Nos.
 Approval obtained : 00 Nos.

PTCC

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

Defence/Civil Aviation

Current Status : Proposal under preparation

Indigrid Limited

33. 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, 400/220 kV substation near Kallam PS
2. 1X125 MVar bus reactor at Kallam PS 400 kV reactor bay
3. LILO of both circuits of Parli(PG)-Pune(GIS) 400 kV D/c line at Kallam PS
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

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. Cr)	: 245
Levelised Tariff(Rs. Cr)	: 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	: Jun-2023
Anticipated COD	: Dec-2023

Status of progress of transmission project

1. **Establishment of 2X500 MVA, 400/220 kV substation near Kallam PS**
 - Land acquisition : 100%
 - Civil Works : 89%
 - Equipment supplied : 100%
 - Erection works : 70%

- Schedule completion : Jun-2023
 - Anticipated completion : Dec-2023
2. 1X125 MVA reactor at Kallam PS 400 kV reactor bay-1
- Engineering : 100%
 - Civil Works : 98%
 - Equipment supplied : 100%
 - Erection works : 90%
 - Schedule completion : Jun-2023
 - Anticipated completion : Dec-2023
3. LILO of both circuits of Parli(PG)-Pune(GIS) 400 kV D/c line at Kallam PS
- Length: 16.901 KM
 - Locations: 47
 - Foundation completed: 40
 - Tower erected: 31
 - Stringing completed: Nil
 - Scheduled COD: June-2023
 - Anticipated COD: Dec-2023

Status of statutory approvals:

- **RoW Issues:** TSP is facing severe Row in both Beed district as well as Osmanabad District, KTL is working with local administration support to resolve the Row.

District	Foundation (completed/Total)	Erection
Osmanabad	6/12 (Pending locations 6/0, 7/0, 7/1, 8/0 & 8/1, 8/2)	2/12
Beed	34/35 (Pending location 4/5)	29/35
Total	40/47	31/47

- **PTCC Approval-** Application submitted.
 - **Aviation Clearance-** Approval obtained.
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
- Status:** Both units have been received at site in the month of June-23. Oil push for one reactor has been completed and for other WIP.

Renew Transmission Power Venture Limited

34. 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 & 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 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, 420 kV bus reactors
3. 400 kV 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. Cr)	: 750
Levelised Tariff (Rs. Cr)	: 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	: 10.03.2022
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

Length	: 276 ckm
Locations	: 352 Nos.

Scheduled COD	:	June'23
Actual COD	:	Oct'23

Status of progress of Substation/ Extension: -

2. (a) 3x500MVA, 400/220 kV Koppal Pooling Station alongwith 2x125 MVar, 420 kV bus reactors

Scheduled COD	:	June'23
Actual COD	:	Oct'23

(b) 2x500MVA, 400/220 kV ICT at Koppal Pooling Station

Land Acquired	:	100%
Civil work completed	:	97%
Equipment supplied	:	100%
Equipment erection	:	92%
Scheduled COD	:	Dec'23
Anticipated COD	:	Jan'24

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

Scheduled COD	:	June'23 with existing bus)
Actual COD	:	Oct'23

35. 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 MVA, 400 kV bus reactors
3. 400 kV 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. Cr)	: 350
Levelised Tariff (Rs. Cr)	: 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	: 31.05.2022
Scheduled Date of Completion	: Sept’23
Anticipated Completion	: Feb’24

Status of progress of transmission project

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

Length	:	93.2 km
Locations	:	232 Nos.
Foundation completed	:	215 Nos.
Tower erected	:	203 Nos.
Stringing completed	:	39.64 km
Scheduled COD	:	Sept'23
Anticipated COD	:	Feb'24

Constraints / approval; if any:

1. TSP is facing severe ROW issues at the following locations for which support of State administration is required in resolving the ROW issues: -

Tower Foundation Locations under RoW : -

District	Taluka	Village Name	No of Locations	Location No
Bagalkote	Bagalkote	Bodnayakdini	1	27/0
Vijayapura	Basavan Begawadi	Mutagi	1	7/2
	Nidgundi	Golsangi	4	9/0,10/0,14/0,14/1
		Budani	1	14/6
		Nidgundi	6	18/3,19/0,20/0, 20B/0, 22A/0,23/1
		Total	13	

Tower Erection Locations under RoW : -

District	Taluka	Village Name	No of Locations	Location No
Koppal	Kushtagi	M kurabnalla	2	47/4,47/5
Vijayapura	Basavan Begawadi	Mutagi	2	5/0,7/1
	Nidgundi	Golsangi	1	11/0
		Angadagiri	1	14/7
		Nidgundi	1	21/0
		Total	7	

2. 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. Queries on the proposal have been received on 07.01.2023 (after 107 days of submission) from DFO, Bagalkot. As per Karnataka Govt revenue records, there is no forest land involved under survey No. 75,76 & 77 of Nellur Village, Gajendragad Taluka under Gadag District, however, Deputy Conservator of Forest, Bagalkot on 07.01.2023 vide letter No. KDF-BGKD0B2(FC)/7/2022-DCF-BGLT has informed that the land under above survey No. 75, 76 & 77 falls under forest and TSP need to take the forest clearance for same. Accordingly, reply

to the queries including forest in Gadag (private land as per revenue record) district was submitted on 02.02.2023.

DFO, Bagalkote and DFO, Gadag have recommended the proposal on 03.03.2023 & 16.05.2023. Proposal recommended by the PCCF, Bengaluru on 17.08.2023 and also recommended by the State Government on 12.09.2023 and sent to IRO, Bengaluru.

DFO & Nodal officer have submitted their response to the queries raised by IRO, Bengaluru on 20.10.2023 & 31.10.23 respectively. Currently proposal is pending with DFO Office to submit reply to the observation raised by IRO, Bengaluru on 22.11.2023.

3. Court Case: At Loc no. 29/3 : Hon'ble High Court vide interim order dated 20.07.2023 in WP No. 104402/2023, directed not to proceed any work for installation. Vide order dated 12.09.2023 (issued on 27.09.2023), Hon'ble Court was please to dispose off the Writ and instructed GTL to pay the compensation/ damages amount. Due to which, the work at said location was at standstill from 24.07.2023 to 27.09.2023.

At location No. 23/1: Case filled for shifting of tower by land owners, hearing scheduled on 12.12.2023 at Basavana Bagewadi Court.

Status of statutory approvals:

Forest area

Locations	:	1 Nos. ; Length 0.933 Km
Forest area (Ha)	:	4.2920 Ha
Online proposal	:	Submitted on 30.08.2022. Re-submitted on Parivesh 2.0 portal on 22.09.2022.
Current status	:	Proposal recommended by the PCCF, Bengaluru on 17.08.2023 and also recommended by the State Government on 12.09.2023. Further, DFO, Nodal Officer & State Government have submitted their response on 20.10.2023, 30.10.2023 & 13.11.2023 respectively against the observation raised by the IRO, Bengaluru on 03.10.2023. Currently proposal is pending with DFO Office to submit reply to the observation raised by IRO, Bengaluru on 22.11.2023.

Power line crossing

Total No. of crossings	:	18 Nos.
Proposal submitted	:	18 Nos.
Approval obtained	:	17 Nos.

National Highway / SH Crossing

Total No. of crossings	:	12 Nos.
Proposal submitted	:	12 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	:	Applied on 06.02.2023
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Defence/Civil Aviation

Current Status	:	NOC received : 31.05.23
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2. 2x500MVA, 400/220 kV Gadag Pooling Station alongwith 1x125 MVar, 400 kV bus reactors

Land Acquired	:	100 %
Civil work completed	:	96%
Equipment supplied	:	100%
Equipment erection	:	94%
Scheduled COD	:	Sept'23
Anticipated COD	:	Jan'24

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

Scheduled COD	:	Sept'23
Actual COD	:	Nov'23

36. Transmission Scheme for Solar Energy Zone in Gadag (1500 MW), Karnataka – 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. 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 II-A transmission scheme (Part-A, Phase-II, 1500 MW) involves Augmentation 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. 400/220 kV , 3x500MVA ICT Augmentation at Gadag Pooling Station
2. Gadag Pooling station – Koppal PS 400 kV D/C line
3. 400 kV Line bays at both end - 4 Nos.

General Details

Special Purpose Vehicle	: Gadag II- A Transmission Limited (a subsidiary of ReNew Transmission Ventures Private Limited)
Bid Process Coordinator (BPC)	: REC Power Development and Consultancy Limited
Estimated Cost (Rs. Cr)	: 307
Levelised Tariff (Rs. Cr)	: 24.543
Request for Proposal	: 10.02.2022
Letter of Intent	: 19.09.2022
Transmission Service Agreement (TSA)	: 18.11.2022
SPV acquisition	: 18.11.2022
Transmission License by CERC	: 26.02.2023
Tariff adoption by CERC	: 09.02.2023
Contract Performance Guarantee	: 07.11.2022
Clearance u/s 164	: 26.07.2023
Execution plan submitted to CEA	: 17.03.2023
NIT issued on	:
EPC contract awarded on	: 30.12.2022
Scheduled Date of Completion	: May'24
Anticipated Completion	: May'24

Status of progress of transmission project

1. Gadag Pooling station – Koppal Pooling Station 400 kV D/c line

Length	:	100 ckm
Locations	:	127 Nos.
Foundation completed	:	46 Nos.
Tower erected	:	1 Nos.
Stringing completed	:	-
Scheduled COD	:	May'24
Anticipated COD	:	May'24

Constraints / approval; if any:

TSP has requested the office of District Collectors of Koppal & Gadag for fixation of compensation towards Right of Way (RoW) to land owners. The status of issuance of DCs order are as under:

District	Tehsil	Status
Koppal	Yelburga	Request letter submitted on 12.04.2023. Order issued by office of District Collector, Koppal on 23.11.2023.
Koppal	Kukanuru	Meeting with land owners has been held on 05.09.2023 and order yet to be issued. Order issued by office of District Collector, Koppal on 23.11.2023.
Gadag	Gajendragad	Request letter submitted on 30.05.2023. Meeting with land owners has been held on 23.11.23 and order awaited.

400 KV D/C Gadag PS- Koppal PS transmission line is passing through Mushigeri, Gulaguli, Rudrapura and Bevinkatti villages under Gajendragad Taluka, Gadag. During the construction, TSP have been informed by M/s Fortum that they have taken the land on lease for development of Solar generation project nearby Gulaguli village and project land is falling under corridor of 400 KV D/C Gadag PS- Koppal PS transmission line. As on date, M/s Fortum has not yet started any activity on said project land.

M/s Fortum is not allowing the work and asking for diverting the line. Due to these hinderances, work on tower location no. 3A/1, 3A/2, 4/0 & corridor length 1.226 km is getting affected.

Status of statutory approvals:

Power line crossing

Total No. of crossings	:	5 Nos.
Proposal submitted	:	4 Nos.
Approval obtained	:	2 Nos.

Railway crossing

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

National Highway / SH Crossing

Total No. of crossings	:	4 Nos.
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Proposal submitted	:	4 Nos.
Approval obtained	:	3 Nos. (SH)

PTCC approval	:	Submitted on 21.07.2023
Current status	:	

Defence/Civil Aviation	:	
Current Status	:	Approval received on 25.09.2023

2. 400/220 kV , 3x500MVA ICT Augmentation at Gadag Pooling Station (Schedule COD: May'24)

Land Acquired	:	100 % (provided by GTL)
Civil work completed	:	87%
Equipment supplied	:	40%
Equipment erection	:	21%
Scheduled COD	:	May'24
Anticipated COD	:	May'24

3. 400 kV Line bays at Koppal PS: 2 Nos.

Land Acquired	:	100 % (provided by KNTL)
Civil work completed	:	90%
Equipment supplied	:	77%
Equipment erection	:	43%
Scheduled COD	:	May'24
Anticipated COD	:	May'24

G R Infraprojects Limited

37. 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.	Establishment of 400/220 kV , 3x500 MVA at Pachora SEZ PP with 420 kV (125 MVAR) bus reactor • 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. (4 Nos. for Agar & Shajapur solar park interconnection & 2 Nos. for other RE projects) • 125 MVAR, 420 kV reactor-1 No. • 420 kV reactor bay – 1 No. • 220 kV Bus coupler bay- 1 No. • 220 kV Transfer Bus Coupler (TBC) bay - 1 No. Space for future Provisions: • 400/220 kV ICTs along with bays: 6 Nos. • 400 kV line bays: 8 Nos. • 220 kV line bays: 9 Nos. • 420 kV bus reactor along with bays: 1 No. • 220 kV Bus sectionalizer bay: 2 Nos. (One No. bay for each Main Bus)
2	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 , 2x80MVA Line reactor bays (at Pachora) – 2 Nos.
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)

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. Cr)	: 486.00 Cr
Levelised Tariff (Rs. Cr)	: 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	: 13.09.2022
Tariff adoption by CERC	: 08/08/2022
Contract Performance Guarantee	: 21.05.2022
Clearance u/s 164	: 28/12/2022
Execution plan submitted to CEA	: 21.09.2022
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 80MVA switchable line reactors with 400 ohms NGR on each circuit at Pachora end, Switchable line Reactors (at Pachora end) –420 kV , 2x80MVA Line reactor bays (at Pachora) – 2 Nos.

Length	: 287.908 ckm (Tentative)
Locations	: 357 Nos. (Tentative)
Foundation completed	: 357 Nos.
Tower erected	: 357 Nos.
Stringing completed	: 272.534 ckm
Scheduled COD	: 29-11-2023
Anticipated COD	: 29-12-2023

Status of statutory approvals:

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

Total No. of crossings	: 14 Nos.
Proposal submitted	: 14 Nos.

Approval obtained : 14 Nos.

d. Railway crossing

Total No. of crossings : 02 Nos.

Proposal submitted : 02 Nos.

Approval obtained : 02 Nos.

e. National Highway

Total No. of crossings : 03 Nos.

Proposal submitted : 03 Nos.

Approval obtained : 03 Nos.

f. River Crossings

Total No. of crossings : 03 Nos.

Proposal submitted : NA (Non navigable)

Approval obtained : NA

g. PTCC approval

Current status : Provisional NOC Received

h. Defence/Civil Aviation

Current Status : Defence Aviation: NOC Received

Civil Aviation: NOC for 300/357 Nos. of Towers received,
NOC for 57 towers pending from
WR Mumbai AAI.

Constraints / approvals; if any:

1. Obstruction on ROW by landowners at location 6A/1. This is the long pending ROW since 25th Apr 2023. Earlier on 16th May 2023, the landowner agreed on the compensation amount, as per the Govt. Circular and TSP has completed the foundation work. But for erection work again he is obstructing the work since 25th Oct 2023. Same has been intimated to DM Bhopal on 31st Oct 2023.
2. Installation of SEMs (Special Energy Meters) on 220 kV side at Pachora Substation is pending from the end of RUMSL.
3. Terminations of OPGW cables in all incoming line of 220 kV is pending from the end of RUMSL.

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	:	97%
Equipment supplied	:	100%
Equipment erection	:	100%
Scheduled COD	:	29-11-2023

Anticipated COD : 29-12-2023

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	: 99%
Equipment supplied	: 100%
Equipment erection	: 100%
Scheduled COD	: 29-11-2023
Anticipated COD	: 29-12-2023

Megha Engineering & Infrastructures Limited

38. 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 400 kV 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. Cr)	: 800
Levelised Tariff(Rs. Cr)	: 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	: 27.01.2023
Tariff adoption by CERC	: 12.01.2023
Contract Performance Guarantee	: 07.10.2022
Clearance u/s 164	:
Execution plan submitted to CEA	:
NIT issued on	: 30.12.2022
EPC contract awarded on	:
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**

Length	:	388 ckm (Tentative)
Locations	:	487 Nos.
Foundation completed	:	234 Nos.
Tower erected	:	214 Nos.
Stringing completed	:	0 ckm
Scheduled COD	:	Sept'24
Anticipated COD	:	Sept'24

a. Power line crossing

Total No. of crossings	:	12 Nos.
Proposal submitted	:	12 Nos.
Approval obtained	:	11 Nos.

b. National/statehighway Highway

Total No. of crossings	:	12 Nos.
Proposal submitted	:	12 Nos.
Approval obtained	:	10 Nos.

2. 1x80MVAr switchable line reactor at Rampura (Kashipur) end on each circuit of Khandukhal (Srinagar) - Rampura (Kashipur) line

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.

CTUIL has communicated PTCUL Vide ref: CTUIL/CMG/2022-23/Khandukhal/02, Dt: 17.11.2022 for handing over of site for implementation/upgradation of bay extensions to be carried out. CTUIL has sought intervention of CEA upon receipt of communication from PTCUL dated 01/02/23 (Addressed to CTUIL and communication of the same received through KRTL).

Meeting convened by CEA on 24.02.2023. PTCUL response as per MOM is awaited.

CTUIL has issued letter to MD, PTCUL to resolve the issue of lease agreement of 400 kV Bay Extensions land vide ref. No. CTUIL/CMG/2023-24/PTCUL Dt: 29.05.2023.

Meeting between TSP and PTCUL held on 17.06.2023 regarding estimation of Bay Extensions area. Draft lease rent agreement has been received from EE/O&M/PTCUL on 29.11.2023 through mail.

Status of statutory approvals:

Forest Land Confirmation - Forest Documents (Form-A (Part-I), Diversion of Forest Land) uploaded on 23.09.2023 vide proposal no: FP/UK/TRANS/445596/2023.

39. Transmission scheme for injection beyond 3 GW RE power at Khavda PS1 (KPS1)

Background:

Scope of transmission project

Augmentation of Khavda PS1 765/400 kV GIS Substation	:	500 MVA, 1-Phase, 765/400 kV ICT – 13 Nos. 765 kV line bays – 2 Nos. 400 kV ICT bays – 4 Nos. 400 kV line bays – 3 Nos. 110MVA, 765 kV Bus Reactor-4 Nos. 765 kV Reactor bay – 1 No. 125MVA, 420 kV Reactor -1 No. 400 kV Reactor Bay- 1 No. 765 KV Bus sectionalizer - 2 Nos. 400 KV Bus sectionalizer- 2 Nos.
765 kV D/C Transmission Line from KPS1 to Khavda PS GIS (KPS2)	:	21 km (Appx.)

General Details:

Special Purpose Vehicle	:	KPS1 Transmission Limited (KPS1TL)
Bid Process Coordinator (BPC)	:	RECPDCL
Estimated Cost (Rs. Cr)	:	1104
Levelised Tariff (Rs. Cr)	:	86.23
Request for Qualification	:	-----
Request for Proposal	:	25-07-2022
Letter of Intent	:	23-03-2023 & 20-04-2023
Transmission Service Agreement (TSA)	:	20-04-2023
SPV acquisition	:	20-04-2023
Transmission License by CERC	:	Under review of CERC
Tariff adoption by CERC	:	Approved on 05.09.2023
Contract Performance Guarantee	:	04-04-2023 & 18-04-2023
Clearance u/s 164	:	Gazette published on 08.07.2023
Execution plan submitted to CEA	:	Submitted
NIT issued on	:	NIT floated on 25.07.2022

EPC contract awarded on : Activity under progress

Scheduled Date of Completion : 19.02.2025

Status of progress of transmission project:

1. 765kV Transmission Line from KPS1 to KPS2:

- Length : 20.515 km
- Location : 57 No.
- Foundation completed : NIL
- Tower Erected : NIL
- Stringing : NIL
- Schedule completion : Jan-25
- Anticipated completion: Jan-25

(Detailed Survey, Soil Investigation, Tower Design completed)

Status of Statutory Proposals

Power Line Crossing

Total No. of Crossings : 1 No.
Proposal submitted : 0 No.
Approval obtained : 0 No.

PTCC : Under Preparation

Defense/Civil Aviation : Under Preparation

2. 765/400kV KPS1 GIS SS: -

1. Agencies (M/S Menard) Mobilized for Stone Column works (Ground Improvement).
2. Stage Manufacturing starts as per schedule for Reactor & ICT (Vendors: HEIL & CGL).

Apraava Energy Private Limited

40. Transmission System for evacuation of power from REZ in Rajasthan (20GW) under phase III- Part A3

Background

Project is a part of evacuation scheme for 20 GW renewable power from Renewable Energy Zones in Rajasthan. The scheme involves construction of a 400 kV D/c (Quad) transmission link between Fatehgarh-3 & Bhadla-3 Pooling stations (new), which will be interconnected with Fatehgarh-3 & Fatehgarh-2 PS respectively. This scheme shall facilitate evacuation of RE power from Fatehgarh/Bhadla complex for onward dispersal of power to various beneficiaries.

Scope of transmission project

1. Fatehgarh 3- Bhadla-3 400 kV D/C line (Quad) along with 63 MVar switchable line reactor for each circuit at both ends of Fatehgarh 3- Bhadla 3 400 kV D/c line.
2. 400 kV line bays Bhadla-3 S/s & Fatehgarh-3 S/s – 4 Nos.

General Details

Special Purpose Vehicle	: Fatehgarh III transmission Limited (Wholly owned subsidiary of Apraava Energy Private Limited)	
Bid Process Coordinator (BPC)	: PFC Consulting Limited	
Estimated Cost (Rs. Cr)	: INR 650.3 Cr	
Levelised Tariff (Rs. Cr)	: 62.754	:
Request for Proposal	: 07-02-2022	
Letter of Intent	: 31-03-2023	
Transmission Service Agreement (TSA)	: 02-08-2023	
SPV acquisition	: 02-08-2023	
Transmission License by CERC	:	
Tariff adoption by CERC	:	
Contract Performance Guarantee	: 31.07.2023	
Clearance u/s 164	:	
Execution plan submitted to CEA	:	
NIT issued on	:	
EPC contract awarded on	: 04.09.2023	
Scheduled Date of Completion	: 01.02.2025	

Status of progress of transmission project

1. Fatehgarh 3- Bhadla-3 400 kV D/C line (Quad) line

- Length: 225 KM
- Locations: 559 Nos.
- Foundation completed:
- Tower erected:
- Stringing completed: Nil

- Scheduled COD: February 2025

2. 400 kV line bays Bhadla-3 S/s & Fatehgarh-3 S/s

- Engineering :
- Civil Works :
- Equipment supplied :
- Erection works :
- Schedule completion : February- 2025

Status of statutory approvals:

Power line crossing	:Survey in progress
National Highway Crossing	:Survey in progress
Railway Crossing	:Survey in progress

Notes :

1. Detailed Survey completed except for last portion of 15 km at Bhadla 3 end. 15 km is pending because of unavailability of 400 kV bay extension coordinates at Fatehgarh III & Bhadla-III substation, which is necessary to determine the final gantry position at both the locations.
2. Check Survey completed for 150 km
3. Transmission line length for the project may change due to above pending information.

41. Transmission System for evacuation of power from REZ in Rajasthan (20GW) under phase III- Part A1

Background

Project is part of a evacuation scheme for 20 GW renewable power from Renewable Energy Zones in Rajasthan. The scheme involves construction of Pooling station at Fatehgarh -IV and a 400 kV D/c (Twin) transmission link between Fatehgarh-4 & Fatehgarh -3 transmission limited.

Scope of transmission project

1. Establishment of 5x500MVA, 400/220 kV pooling station at Fatehgarh-4 along with 2x125MVAr Bus reactor
 - 400/220 kV , 500 MVA ICT - 5Nos.
 - 400 kV ICT bays – 5 Nos.
 - 220 kV ICT bays - 5 Nos.
 - 400 kV line bays - 2 Nos.
 - 220 kV line bays- As per connectivity granted to RE developers (7 No. of bays considered at present).
 - 125 MVAr, 420 kV bus reactor - 2 Nos.
 - 420 kV reactor bay - 2 Nos.
 - 220 kV Sectionalization bay: 1 set
 - 220 kV Bus Coupler (BC) Bay -2 Nos.
 - 220 kV Transfer Bus Coupler (TBC) Bay -2 Nos.

Space for Future provisions:

 - 765/400 kV ICTs along with bays: 6Nos.
 - 765 kV line bay along with switchable line reactor: 6 Nos.
 - 765 kV Bus Reactor along with bays: 3 Nos.
 - 400/220 kV ICTs along with bays: 8 Nos.
 - 400 kV line bays along with switchable line reactor: 10 Nos.
 - 400 kV Bus Reactor along with bays: 2 Nos.
 - 400 kV Sectionalization bay: 2 sets
 - 220 kV line bays: 13 Nos.
 - 220 kV Sectionalization bay: 3 sets
 - 220 kV Bus Coupler (BC) Bay -3 Nos.
 - 220 kV Transfer Bus Coupler (TBC) Bay -3 Nos.
2. Fatehgarh-4 PS- Fatehgarh-3 PS 400 kV D/c Twin HTLS* line
* with minimum capacity of 2100 MVA on each circuit at Nominal voltage
3. 2 No.s of 400 kV line bays at Fatehgarh-3

General Details

Special Purpose Vehicle

: Fatehgarh IV transmission Limited

Bid Process Coordinator (BPC)	: PFC Consulting Limited (PFCCL)
Estimated Cost (Rs. Cr)	: 342.7
Levelised Tariff (Rs. Cr)	: 24.867
Request for Proposal	: 07-02-2022
Letter of Intent	: 31-03-2023
Transmission Service Agreement (TSA)	: 02-08-2023
SPV acquisition	: 02-08-2023
Transmission License by CERC	:
Tariff adoption by CERC	:
Contract Performance Guarantee	: 31.07.2023
Clearance u/s 164	:
Execution plan submitted to CEA	:
NIT issued on	:
EPC contract awarded on	: 27.10.2023
Scheduled Date of Completion	: 01.02.2025

Status of progress of transmission project

1. Establishment of 5x500MVA, 400/220 kV pooling station at Fatehgarh-4 along with 2x125MVAr Bus reactor

- Land acquisition : 67% completed
- Civil Works : Yard levelling commenced
- Equipment supplied :
- Erection works :
- Schedule completion : February 2025

2. Fatehgarh-4 PS- Fatehgarh-3 PS 400 kV D/c Twin HTLS* line

* with minimum capacity of 2100 MVA on each circuit at No.minal voltage

- Length: 21 km
- Locations: 59 Nos.
- Foundation completed:
- Tower erected:
- Stringing completed: Nil
- Scheduled COD: February 2025

3. 2 No.s of 400 kV line bays at Fatehgarh-3

- Engineering :
- Civil Works :
- Equipment supplied :
- Erection works :
- Schedule completion : February- 2025

Status of statutory approvals:

Power line crossing
National Highway Crossing

:Survey in progress
:Survey in progress

Reliance Power Transmission Limited

42. 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 (UNDER LITIGATION**)**

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. LuckNo.w – 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. Cr)	: 2700
Levelised Tariff(Rs. Cr)	: 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 No.tified 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 (POWERGRID) 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 No.tified 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 No.t 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 POWERGRID to file an affidavit on the necessity of the project. POWERGRID has filed an affidavit on 17.08.2020 wherein it has been stated that the transmission scheme under the scope of TSP is presently No.t 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.

43. Augmentation of Talcher-II Transmission System (UNDER LITIGATION)

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 +/- 500 kV 200MW HVDC bipolar 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-Bhrampur- Gazuwaka 400 kV D/C line with series compensation and switching station at Bhrampur 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 – Bhrampur 400 kV D/C line
3. Bhrampur- Gazuwaka 400 kV D/C line
4. 2x315 MVA, 400/220 kV Bhrampur 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. cr)	:	1400
Levelised Tariff(Rs. Cr)	:	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 – Bhrampur 400 kV D/C line
3. Bhrampur – 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 (POWERGRID) 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 No.t 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 POWERGRID to file an affidavit on the necessity of the project. POWERGRID 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.