



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 31.12.2023)**

(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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S.No	Transmission project	Special Purpose Vehicle (SPV)	Bid Process Coordinator (BPC)	Parent Company	Page No.
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S.No	Transmission project	Special Purpose Vehicle (SPV)	Bid Process Coordinator (BPC)	Parent Company	Page No.
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(For the projects marked ”*” , their SPV is transferred in Dec’23,.However, the details for the same are awaited.)

Summary

Total Transmission Projects Awarded	99
Transmission Projects Commissioned/Ready for commissioning	48
Transmission Projects Under Construction	47
Transmission Projects whose construction could not be started due to litigation	02
Transmission Project where TSP has requested for closing of project	01
Transmission Projects scrapped/cancelled by CERC	01

POWERGRID

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

Background	
<p>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.</p> <p>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.</p> <p>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.</p>	
Scope of Transmission Project	
<u>Transmission Line</u>	
<ul style="list-style-type: none"> Fatehgarh II – Bhadla II 765 kV D/C line (2nd) 	
<u>Substation</u>	
<ul style="list-style-type: none"> 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. 	
<u>General Details</u>	
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.
Levellised Tariff	₹ 72.893 Cr.
Request for Proposal	05.03.20
Letter of Intent	29.01.21
Transmission Service Agreement (TSA)	11.11.20
SPV acquisition	04.06.21
Transmission License by CERC	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	464 Nos.
• Towers erected	377 Nos.
• Stringing completed	33.1 km
• Scheduled COD	Dec'22
• Anticipated COD	Mar'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	
Defence Aviation	Proposal submitted , under approval
	Proposal approved

Civil Aviation	Proposal approved
Constraints being faced during execution:	
<ol style="list-style-type: none"> 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	Mar'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	Mar'24
Constraints being faced during execution:	
1. Work affected due to COVID-19 pandemic	

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

Background	
<p>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.</p> <p>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.</p> <p>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.</p>	
Scope of Transmission Project-	
<u>Transmission Line</u>	
<ul style="list-style-type: none"> • Bhadla II – Sikar II 765 kV D/C line • Sikar II – Neemrana 400 kV D/C (Twin HTLS) 	
<u>Substation</u>	
<ul style="list-style-type: none"> • Establishment of 765/400 kV Sikar II Substation with 2x 1500 MVA 765/400 kV ICTs, 2x 330 MVA, 765 kV Bus Reactors and 1x 125 MVA, 400 kV Bus Reactor and 2x 330MVA 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 2/240MVA switchable line reactors. • Construction of 02 No 400 kV bays at Neemrana for Sikar II – Neemrana 400 kV D/C line. 	
<u>General Details</u>	
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	683 Nos.
Towers erected	604 Nos.
Stringing completed	128 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; Stage-I received on 06.12.23.	
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	368 Nos.
Foundation completed	287 Nos.
Towers erected	269 Nos.
Stringing completed	33.4 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	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. Stage-II accorded on 21.12.23.	

PTCC approval	Proposal under preparation.
Defence Aviation	Proposal under preparation.
Civil Aviation	Proposal under preparation.
Constraints being faced during execution:	
<ol style="list-style-type: none"> 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:	
<ol style="list-style-type: none"> 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. 	

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

Background	
<p>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.</p> <p>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.</p> <p>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.</p>	
Scope of Transmission Project-	
<u>Transmission Line</u>	
Sikar II- Aligarh 765 kV D/C line	
<u>Substation</u>	
<ul style="list-style-type: none"> • 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 	
<u>General Details</u>	
Special Purpose Vehicle (SPV) (A subsidiary of POWERGRID)	Sikar II – Aligarh Transmission Limited
Bid Process Coordinator (BPC)	PFC Consulting Ltd.
Estimated Cost	₹ 1006 Cr.
Levelling Tariff	₹ 99.701 Cr.
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	679 Nos.
Foundation completed	664 Nos.
Towers erected	651 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.
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
Defence Aviation	NOC received.
Civil Aviation	NOC received.
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	100%
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.	

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

Background	
<p>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.</p> <p>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.</p> <p>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.</p>	
Scope of Transmission Project-	
<u>Transmission Line</u>	
<ol style="list-style-type: none"> 1. Khetri – Narela 765 kV D/c Line 2. LILO of 765 kV S/c Meerut – Bhiwani line at Narela. 	
<u>Substation</u>	
<ol style="list-style-type: none"> 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	462 Nos.
Foundation completed	347 Nos.
Towers erected	282 Nos.
Stringing completed	20 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 sought additional details & same was forwarded to Sec (Forest), Govt. of Rajasthan by Nodal officer, Jaipur on 10.10.23. Sec (Forest), Govt. of Rajasthan forwarded to RO on 08.12.23. RO, MoEF&CC, Jaipur has sought additional information from State Govt. on 14.12.23 & reply for the same forwarded to Nodal Officer, Jaipur on 21.12.23.	
Forest Haryana (16 Hectare) –	
Proposal submitted on 03.02.23. . Sec (Forest) Govt. of Haryana recommended the proposal in Part-IV & forwarded to Regional Office, MoEF&CC, Chandigarh on 27.10.2023. On 13.12.23,	

PCCF, Haryana has directed concerned DFOs to verify no. of trees to be felled in the corridor & same expected shortly. On 14.12.23, Power Grid has furnished an undertaking to DCF (WL), Rohtak as per PCCF(WL) directives regarding mitigation plan for Migratory Birds Flight Path near Bhindawas Wildlife Sanctuary. Now proposal is under review at DFOs level.

Forest Delhi (0.95 Hectare)-

Online proposal submitted on 25.08.23. Part-IV recommendation done by Sec (F), Govt of Delhi on 01.12.23 & forwarded to Regional Office, MoEF&CC, Lucknow. Now proposal is under review at RO, MoEF&CC, Lucknow.

PTCC approval	Under approval.
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	39 Nos.
Towers erected	15 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. Part-IV recommendation done by Sec (F), Govt. of Haryana on 15.12.23 & forwarded to RO, MoEF&CC, Chandigarh. Now proposal is under review at RO, MoEF&CC, Chandigarh.

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 pending due to want of NOC from Haryana Forest Dept. due to canal crossings, which is expected shortly.

Status of progress of Substation and Bay Extensions:-**1. 765/400 kV Narela Substation**

Land Acquisition	Land acquired in Mar'23
Civil work completed	65%
Equipment supplied	70%
Equipment erection	35%
Scheduled COD	Nov'23
Anticipated COD	Mar'24

2. Extension of 765 kV Khetri Substation

Land Acquisition	Available
Civil work completed	85%
Equipment supplied	75%
Equipment erection	45%
Scheduled COD	Nov'23
Anticipated COD	Mar'24

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

Background	
<p>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.</p> <p>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.</p> <p>The subject transmission scheme involves 765 kV D/c Bhadla-II Sikar-II line (2nd)</p>	
<u>Scope of Works :</u>	
<u>Transmission Line</u>	
1. Bhadla II - Sikar II 765 kV D/C line (2 nd)	
<u>Substation</u>	
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.	
<u>General Details</u>	
Special Purpose Vehicle (SPV)	PFC Consulting Ltd..
Bid Process Coordinator (BPC)	₹ 1644 Cr.
Estimated Cost	₹ 163 Cr.
Levelized Tariff	06.03.20
Request for Proposal	03.03.23
Letter of Intent	26.05.22
Transmission Service Agreement (TSA)	28.03.23
SPV acquisition	PFC Consulting Ltd..
Transmission License 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 Line:	
1. Bhadla II - Sikar II 765kV D/C line (2nd)	
Award placed to M/s L&T	
Length	300 km
Locations	786 Nos.
Foundation completed	209 Nos.
Towers erected	22 Nos.
Stringing completed	0 km
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
2. 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
3. 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

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

Background	
<p>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.</p> <p>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.</p>	
Scope of Works under Neemuch Project:	
<p>a) Establishment of 2x500 MVA, 400/220 kV Pooling Station (AIS) at Neemuch (Singoli tehsil) with 1x125 MVAr Bus Reactor 400/220 kV , 500 MVA ICT –2 Nos. 400 kV ICT bays – 2 Nos. 220 kV ICT bays – 2 Nos. 400 kV line bays –4 Nos. (2 each for Chittorgarh & Mandsaur lines) 220 kV line bays – (2 Nos. of bays to 500 MW Connectivity/LTA granted to M/s RUMSL) 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.</p>	
<p>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).</p>	
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:

4. 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	229 Nos.
Towers erected	179 Nos.
Stringing completed	53 km
Scheduled COD	Feb'24
Anticipated COD	Mar'24

Status of statutory approvals:

River Crossings	3 Nos.
Power line crossing	32 Nos.
Railway crossing	1 No.
National Highway Crossing	3 Nos.

Forest Rajasthan (19.46 Ha.):

Proposal submitted on 19.07.23. Proposal is under approval with Secretary (Forest), Rajasthan. Stage-I approval awaited.

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

Award placed on M/s KEC & TLL

Length	116.5 km
Locations	307 Nos.
Foundation completed	251 Nos.
Towers erected	230 Nos.
Stringing completed	59 km
Scheduled COD	Feb'24
Anticipated COD	Mar'24

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 proposal submitted on 02.06.2023. Stage-I accorded on 21.12.23 with special condition of (i) Increase in Tower height, (ii) Construction of boundary wall & (iii) cost required for Solar Pump. Demand note awaited.	
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	80%
Equipment supplied	70%
Equipment erection	50%
Scheduled COD	Feb'24
Anticipated COD	Mar'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	65%
Equipment supplied	50%
Equipment erection	30%
Scheduled COD	Feb'24
Anticipated COD	Mar'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	90%
Equipment supplied	85%
Equipment erection	65%

Scheduled COD	Feb'24
Anticipated COD	Mar'24

7. 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):	
<ol style="list-style-type: none"> 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) <ul style="list-style-type: none"> 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):	
<ol style="list-style-type: none"> 1. Upgradation of existing 132 kV Namsai (POWERGRID) S/S to 220 kV (with 220 kV side as GIS) <ul style="list-style-type: none"> 220 kV in GIS: <ol style="list-style-type: none"> i) ICTs: 220/132 kV, 2x160MVA ii) ICT bay : 2 Nos. iii) Bus Reactor: 220 kV, 1x50MVAr 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 : <ol style="list-style-type: none"> 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 km
Locations	219 Nos.
Foundation completed	57 Nos.
Towers erected	8 Nos.
Stringing completed	0 km
Scheduled COD	Oct'2025
Anticipated COD	Oct'2025
Status of statutory approvals	
River Crossings	
Total no. of crossings	0 No.
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	78%
Equipment supplied	35%
Equipment erection	25%
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	37%
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	40%
Equipment supplied	16%
Equipment erection	-
Scheduled COD	Oct'2025
Anticipated COD	Oct'2025

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

Background	
<p>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.</p> <p>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.</p> <p>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.</p>	
Scope of Transmission Project-	
<u>Transmission Line</u>	
1. 65 KV D/C Lakadia PS-Ahmedabad line	
<u>Substation</u>	
<ol style="list-style-type: none"> 1. 2 Nos. 765 kV Line Bays at Lakadia PS for 765 kV D/C Lakadia PS-Ahmedabad Line 2. 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)	Khavda II-B Transmission Limited(A subsidiary of POWERGRID)
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	47 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	3%
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

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

Background	
<p>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.</p> <p>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.</p> <p>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.</p>	
Scope of works under Khavda Phase II- Part C project:	
<u>Transmission Line</u>	
1. 765 KV D/C Ahmedabad-South Gujrat (New Navsari) line	
<u>Substation</u>	
<p>2. 765/400 kV 3x1500MVA Ahmedabad New SS with 1x330MVA 765 kV Bus Reactor & 1x125MVA 400 kV Bus Reactor</p> <p>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.</p> <p>4. 765 kV Line Bays at South Gujarat (New Navsari) for 765 kV D/C Ahmedabad-South Gujrat (New Navsari) line</p>	
General Details	
Special Purpose Vehicle (SPV)	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	74 Nos.
Towers erected	12 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 1x330MVAr 765 kV Bus Reactor & 1x125MVAr 400 kV Bus Reactor	
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
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.	
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 Ahemdabad-South Gujrat (New Navsari) line	
Land Acquisition	Available
Civil work completed	3%
Equipment supplied	
Equipment erection	
Scheduled COD	Mar'25
Anticipated COD	Mar'25

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

Background	
<p>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.</p> <p>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.</p> <p>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.</p>	
<u>Scope of works under Khavda Potential RE project:</u>	
<u>Transmission Line</u>	
1. 765 KV D/C Banaskantha-Ahmedabad line	
<u>Substation</u>	
<p>1. 2 Nos. 765 kV line bays at Banaskantha S/s for 765 kV D/C Banaskantha-Ahmedabad line</p> <p>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.</p>	
General Details	
Special Purpose Vehicle (SPV)	Khavda RE Transmission Limited(A subsidiary of POWERGRID)
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	76 Nos.
Towers erected	16 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 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

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

Background	
<p>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.</p> <p>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.</p> <p>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.</p>	
<u>Scope of works under KPS2 project:</u>	
<u>Substation</u>	
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)	KPS2 Transmission Limited(A subsidiary of POWERGRID)
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	100%
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	

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

Background	
<p>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.</p> <p>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.</p> <p>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.</p>	
Scope of works under KPS3 project:	
<u>Transmission Line</u>	
1. 1. 765 KV D/C KPS2-KPS3 line	
<u>Substation</u>	
2. 765/400 kV 3x1500MVA KPS-3 S/s with 1x330MVAr 765 kV Bus Reactor & 1x125MVAr 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)	KPS3 Transmission Limited(A subsidiary of POWERGRID)
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:-	
1. 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
2. 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

13. Inter-Regional ER-WR Interconnection

Background	
<p>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.</p> <p>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.</p>	
Scope of works under ER-WR Interconnection project:	
<u>Transmission Line</u>	
1. 400 kV D/C Jeypore (POWERGRID)-Jagdalpur (CSPTCL) line	
<u>Substation</u>	
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)	ERWR Power Transmission Limited(A subsidiary of POWERGRID)
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 Nos.
Foundation completed	10 Nos.
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 (Jagdalpur 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)-Jagdalpur (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 Jagdalpur (CSPTCL) SS for 400 kV D/C Jeypore (POWERGRID)-Jagdalpur (CSPTCL) line	
Land Acquisition	Available
Civil work completed	2%
Equipment supplied	
Equipment erection	
Scheduled COD	Mar'25
Anticipated COD	Mar'25

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

Background	
<p>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.</p> <p>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.</p>	
<u>Scope of works under Raipur Pool Dhamtari Transmission Limited (RPTL) project:</u>	
<u>Transmission Line</u>	
1. 400 KV (Q) D/C Raipur Pool-Dhamtari line	
<u>Substation</u>	
<p>1. 400 kV Line bays at Raipur Pool (POWERGRID) S/s for termination of Raipur Pool-Dhamtari 400 KV (Q) D/C line</p> <p>2. 400 kV Line bays at Dhamtari (CSPTCL) S/s for termination of Raipur Pool-Dhamtari 400 KV (Q) D/C line</p>	
General Details	
Special Purpose Vehicle (SPV)	Raipur Pool Dhamtari Transmission Limited(A subsidiary of POWERGRID)
Bid Process Coordinator (BPC)	REC Power Development and Consultancy Ltd
Estimated Cost	380 Cr.
Levelized Tariff	29.72 cr.
Request for Proposal	28.10.22
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 Nos.
Foundation completed	35 Nos.
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	3%
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	3%
Equipment supplied	
Equipment erection	
Scheduled COD	Sep'24
Anticipated COD	Sep'24

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

Background	
<p>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.</p> <p>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.</p>	
Scope of works under Dharamjaigarh Transmission Limited (DTL) project:	
Substation	
<ol style="list-style-type: none"> 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 2. 2 Nos. 220 KV line bays at Dharamjaigarh S/s for termination of 220 KV D/c Dharamjaigarh-Chhuri line 	
General Details	
Special Purpose Vehicle (SPV)	Dharamjaigarh Transmission Limited(A subsidiary of POWERGRID)
Bid Process Coordinator (BPC)	REC Power Development and Consultancy Ltd
Estimated Cost	251 cr.
Levelized Tariff	28.69 cr.
Request for Proposal	26.09.22
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	45%
Equipment supplied	25%
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 and 2 nos. 220KV line bays at Raipur Pool (PS) for termination of 220KV D/c Raipur Pool-Rajnandgaon line	
Land Acquisition	Available
Civil work completed	15%
Equipment supplied	15%
Equipment erection	
Scheduled COD	Dec'24
Anticipated COD	Dec'24

16. 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 of Transmission Project-	
<u>Transmission Line</u>	
<ol style="list-style-type: none"> 1. Ananthpuram PS- Kurnool-III 400kV D/C line 2. Ananthpuram PS- Cuddapah 400kV D/C line 	
<u>Substation</u>	
<ol style="list-style-type: none"> 3. Estab. of 400/220kV, 7x500MVA Pooling Station at Ananthpuram 4. Bay Extn. at Kurnool-III PS 5. Bay Extn. at 400kV Cuddapah S/S 	
General Details	
Special Purpose Vehicle (SPV)	Ananthpuram Kurnool Transmission Limited (A subsidiary of POWERGRID)
Bid Process Coordinator (BPC)	PFC Consulting Ltd..
Estimated Cost	₹ 1644 Cr.
Levelised 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 Licence 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	Sep'25
Status of progress of transmission project:-	
1. Ananthpuram PS- Kurnool-III 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	
Total No. of crossings	Survey in progress
Power line crossing	Survey in progress
Railway crossing	Survey in progress
National Highway Crossing	Survey in progress
Forest	Survey in progress
PTCC approval	Survey in progress
Defence Aviation	Survey in progress
Civil Aviation	Survey in progress
Status of progress of Substation and Bay Extensions:-	
1. 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	Jun'25
2. Bay Extn. at Kurnool-III PS	
Land Acquisition	Available
Civil work completed	
Equipment supplied	
Equipment erection	
Scheduled COD	Jun'25
Anticipated COD	Jun'25
3. 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

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

Background	
<p>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.</p>	
Scope of Transmission Project-	
<u>Transmission Line</u>	
<p>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)</p>	
<u>Substation</u>	
<p>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</p> <p>[765 kV line bays: 2 nos.; 220 kV line bays: 5 nos.; Bays associated with X-mer and Bus Reactor 2X330MVAR 765kV line Reactor]</p> <p>2. Bay extension at Sikar-II S/s [765 kV line bays: 2 nos.; 2x330 MVAR 765 kV line Reactor]</p>	
General Details	
Special Purpose Vehicle (SPV)	Bhadla-III Transmission Limited (A subsidiary of POWERGRID)
Bid Process Coordinator (BPC)	PFC Consulting Ltd
Estimated Cost	2540 Cr.
Levelised 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 Licence 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 project:-	
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	Mar25

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

Background	
<p>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).</p> <p>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 Fategarh-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.</p> <p>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.</p>	
Scope of Transmission Project-	
<u>Transmission Line</u>	
1. Ramgarh PS- Bhadla-3 PS 765kV D/C line	
<u>Substation</u>	
<ol style="list-style-type: none"> 1. 2x1500MVA, 765/400KV & 2X500MVA Ramgarh S/s along with 2X240MVAr(765kV) switchable Bus Reactor & 2X125MVAr(400kV) Bus Reactor 2. 2X240MVAr(765kV) switchable Line Reactor. 3. 2 Nos. 765kV Line bays at Bhadla-3 PS. 4. ±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-II Transmission Limited (A subsidiary of POWERGRID)
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

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

Background	
<p>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.</p> <p>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.</p>	
Scope of Transmission Project-	
<u>Transmission Line</u>	
<ol style="list-style-type: none"> LILO of both circuits of Jaipur (Phagi)-Gwalior 765 kV D/c at Dausa S/s LILO of both circuits of Agra – Jaipur (south) 400 kV D/c at Dausa S/s Beawar – Dausa 765 kV D/c line 	
<u>Substation</u>	
<ol style="list-style-type: none"> 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] Bay Extension at Beawar S/s [765 kV line bays – 2 nos.; 2X240MVAR 765kV Line Reactor] 	
General Details	
Special Purpose Vehicle (SPV)	Dausa Beawar Transmission Limited (A subsidiary of PGCIL)
Bid Process Coordinator (BPC)	PFCCCL

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

List fo transmission projects having SPV transferred to PGCIL:

20. Transmission Scheme for integration of Renewable Energy Zone (Phase-II) in Koppal-II (Phase-A & B) and Gadag-II (Phase- A) in Karnataka
21. Transmission System for evacuation of additional 7 GW RE Power from Khavda RE Park under Phase-III Part B
22. *Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex): PART-A
23. Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex): PART-D

Sterlite Power Transmission Ltd.

24. 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	77 Nos.
Tower erected	11 Nos.
Stringing completed	0 ckm
Scheduled COD	Nov'21/Jul'22*
Anticipated COD	May'25
Constraints/Approval if any:	
<ol style="list-style-type: none"> 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 No.dal 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. As per Supreme Court order to use Right of way (ROW) of 110 kV line of Supa-Ponda & 220 kV line of Ambewadi -Ponda line for construction of Xeldem-Narendra line, the survey on CEC recommended route is done and TSP has submitted modified proposal for Wild Life in Karnataka to DFO Dandeli.
5. Revised proposal of Forest for Goa State as per CEC Recommendation submitted on 25.08.2022. Parivash Portal was No.t working due to some technical problem in, resubmitted the proposal on 23.09.2022.
6. As per Supreme court order to use Right of way (ROW) of 110 kV line of Supa-Ponda & 220 kV line of Ambewadi -Ponda line for construction of Xeldem-Narendra line, TSP has applied for permission to use co-orrridor to GED, Goa and KPTCL, Karnataka, permission received for GED Portion. Permission from KPTCL is awaited. In principal approval received from KPTCL On 08.09.2022.
7. A letter submitted to PCCF Goa and Karnataka on 05.09.2022 for seeking permission in Eco Sensitive Zone of Bhagwan Mahavir wildlife sanctuary and Dandeli wildlife sanctuary respectively. In preview of Hon'ble Supreme court order dated 03.06.2002 "No permanent Structure is permitted in ESZ area".
8. DCF conveyed his concurrence vide letter dated 26.05.2023 for finalization of forest route in Karnataka as suggested by forest Department.
9. To follow the route suggested by DCF Dandeli concurrence from GED and KPTCL is required to utilize the existing corridor of 220 kV line as proposed by the Karnataka Forest Department.
10. 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 recommded for multi circuit of the exisiting 220 kV Line with 400 line.
11. 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.
12. 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. All division (Dandeli, Haliyal, Belagavi & Dharwad) Part-II & Part-III is completed and proposal is currently with Nodal officer.
Wildlife area	
Details of Tr. Line Falling under Forest	
Locations	33 Nos. ; Length : 12.852 Km
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 06.12.2023. 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 ch change nage as per Route change)
Proposal submitted	4 Nos.
Approval obtained	4 Nos.
PTCC approval	
Proposal submitted to Defence	Yes
Proposal submitted to BSNL	Yes
Proposal submitted to Railways	Yes

Current status	Received CEA (PTCC) recommendation for Goa portion and received PTCC Approval for Karnataka Portion. (Revised approval Required due to change as per CEC route)
Defence/Civil Aviation	
Proposal submitted to 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	124 Nos.
Tower erected	102 Nos.
Stringing completed	33.38 ckm
Scheduled COD	May'21 /Jan22*
Anticipated COD	Jun'24
Constraints/Approval if any:	
<ol style="list-style-type: none"> 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.
Wildlife area	
Details of Tr. Line Falling under Forest	
Locations	N/A
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*
Actual 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	48 Nos.
Tower erected	27 Nos.
Stringing completed	0 ckm
Scheduled COD	May'21 /Jan'22*
Anticipated COD	Jun'24
Constraints/Approval if any:	

<p>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.</p>	
<p>Status of statutory approvals:</p>	
<p>Forest area</p>	
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 SC order. Proposal accepted by Project Screening committee on 22.11.22. Proposal processed by State Govt. and currently under process at MOEF&CC Regional office Bengaluru.
<p>Wildlife area</p>	
Details of Tr. Line Falling under Forest	N/A
Locations	
Wildlife area (Ha)	
Wildlife proposals submitted on	
Current status	
<p>Power line crossing</p>	
Total No. of crossings	3 Nos.
Proposal submitted	3 Nos.
Approval obtained	3 Nos.
<p>Railway crossing</p>	
Total No. of crossings	1 Nos.
Proposal submitted	1 Nos.
Approval obtained	1 Nos.
<p>National Highway / SH Crossing</p>	
Total No. of crossings	1 Nos.
Proposal submitted	1 Nos.
Approval obtained	1 Nos.
<p>River Crossings</p>	

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
1. 2x500 MVA, 400/220 kV S/s at Xeldem (Goa)	
Land Acquired	100 %
Civil work completed	76%
Equipment supplied	94 %
Equipment erection	37 %
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 23 rd April 2021 and have cleared 400/220 kV Xeldem Substation.	

25. 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 Details	
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	101 Nos.
Tower erected	79 Nos
Stringing completed	1.68 ckm
Scheduled COD	11 th Nov 2022/ Feb'23
Anticipated COD	Dec'24

Constraints/Approval if any:

1. Delay in getting tree cutting permission in Kerala state.
2. Severe ROW issues in Karnataka Region. DC Dakshin Kannada vide order dated 08.08.2022 and DC Udupi vide Order dated 16.08.2022 has finalized land compensation. State Government has notified the order of 85/15 land compensation on 22.08.2022 in line with the Mop guidelines dated 15.10.2015. DC Dakshin Kannada vide order dated 01.12.2022 and DC Udupi vide Order dated 18.10.2022 has revised land compensation rates. TSP is unable to start the construction work in Mangalore due to severe ROW issue in Dakshin Kannada & karkalla region of Udupi. 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.
3. **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 date is not confirmed yet but expected in the Month of Feb'24.
4. In Udupi district, DC Udupi has revised the land compensation order which is of 4 times of guidance value on dtd. 15th Dec 2023. Further DC Udupi have planned to conduct a meeting with concerned landowners in the month of Jan'24 to start the construction work at balance locations in Udupi section.

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.
PTCC approval	
Proposal submitted to Defence	Yes
Proposal submitted to BSNL	Yes
Proposal submitted to Railways	Yes
Current status	CEA has asked for revised EPR zone earth resistance calculation, which is located near to Kasargod Substation. Required details shared by TSP with CEA on 23 rd Dec 2023.
Defence/Civil Aviation	
Current Status	Defence Aviation : Approved Civil Aviation : Approved
2. Establishment of 2x500MVA, 400/220 kV GIS S/s at Kasargode	
Land Acquired	100 %
Civil work completed	99.87%
Equipment supplied	100%
Equipment erection	99.59%
Scheduled COD	11 th Nov 2022
Anticipated COD	Dec'24
Constraints / approval; if any:	
2. 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:	
<ol style="list-style-type: none"> 1. Test charge completed, and COD is Dependent on commissioning of Udupi-Kasargode line. 2. Land lease for 2 Nos. of 400 kV UPCL bays is pending from UPCL(Adani). 	

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

Background	
<p>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)</p> <p>Part A is under Western Region Strengthening Scheme-XIX and planned to address the high loading under high RE scenario.</p> <p>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.</p> <p>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.</p> <p>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.</p>	
Scope of transmission project	
<p>(i) LILO of second circuit of Zerda –Ranchodpura 400 kV D/c line at Banaskantha (PG) PS</p> <p>(ii) LILO of KAPP – Vapi 400 kV D/c line at Vapi – II</p> <p>(iii) Vapi-II – Sayali D/C 220 kV D/C line</p> <p>(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)</p> <p>(v) LILO of Padghe (PG) – Vikhroli 400 kV S/c line at Navi Mumbai GIS (PG)</p> <p>(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)</p> <p>(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</p> <p>(viii) LILO of one circuit of Pare HEP – North Lakhimpur (AEGCL) 132 kV D/c line (with ACSR Zebra) at Nirjuli (POWERGRID) substation.</p> <p>(ix) Establishment of 2 x 500 MVA, 400/220 kV S/s near Vapi / Ambheti (Vapi – II)</p> <p>(x) 125 MVA bus reactor at Vapi – II Substation</p>	
General Details	
Special Purpose Vehicle	Mumbai Urja Marg Limited (erstwhile, Vapi II- North Lakhimpur Transmission Limited)

	(Sterlite Grid 13 Limited; A Subsidiary of Sterlite Power Trans. Limited)
Bid Process Coordinator (BPC)	PFCCL
Estimated Cost (Rs. 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
<u>Part A - Additional 400 kV outlets from Banaskantha 765/400 kV S/s</u>	
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)
<u>Part B - Establishment of new substation at Vapi/Ambethi area and its associated transmission line</u>	
2. Establishment of 2x500 MVA, 400/220 kV S/s near Vapi / Ambheti (Vapi – II)	
Land Acquired	100 %
Civil work completed	59.56%
Equipment supplied	96.78%
Equipment erection	6.72 %
Scheduled COD	22-Apr-2023
Anticipated COD	Mar-24
<u>Current Status:</u>	
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.	
1. Matter was raised in SSRD and hearing held on 04.12.2023, final order has been ruled in favour of MUML by SSRD, Ahmedabad on 12.12.2023. However, no compliance to SSRD order has been initiated by DC Valsad till date.	

1. 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
2. 125 MVar bus reactor at Vapi – II Substation	
Land Acquired	100 %
Civil work completed	95%
Equipment supplied	100%
Equipment erection	0 %
Scheduled COD	22-Apr-2023
Anticipated COD	Mar-24
3. Vapi-II – Sayali D/C 220 kV D/C line	
Length	45.4 ckm
Locations	77 Nos.
Foundation completed	73 Nos.
Tower erected	64 Nos.
Stringing completed	20.04 Ckm
Scheduled COD	22-Apr-2023
Anticipated COD	Mar-24
Constraints	
<ol style="list-style-type: none"> 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. DM- Silvasa vide joint visit dated 23.10.2023, has directed MUML to stop any further work at site at location (4A/0) in Syali, DNH (a permanent Helipad has been proposed after the tower erection) impacting stringing activity.	
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.
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	
1. 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	211 Nos.
Foundation completed	146 Nos.
Tower erected	121 Nos.
Stringing completed	29.78 Ckm
Scheduled COD	22-Dec-2023
Anticipated COD	Jun-2024
<u>Current Status:</u>	
Detailed Survey completed	
Constraints / Approval; if any:	
<ol style="list-style-type: none"> 1. ROW issues at all Non-forest locations (01 locations in Raigad and 26 locations in Thane). 2. Delay in apporval in private tree cutting permission which is impacting 14 locations & 33.34 km in Thane district and 2.71 km stringing impacted in Raigad District. 	
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.
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
1. LILO of Padghe (PG) – Vikhroli 400 kV S/c line at Navi Mumbai GIS (PG)	
Length	38 ckm
Locations	62 Nos.
Foundation completed	39 Nos.
Tower erected	25 Nos.
Stringing completed	3.69 ckm
Scheduled COD	Dec-2023
Anticipated COD	June-2024
<u>Current Status:</u>	
Detailed Survey completed.	
Constraints / Approval; if any:	
<ol style="list-style-type: none"> 11 locations held in NMSEZ (Navi Mumbai Special Economic Zone) area due to demand of route diversion by land owners. Severe ROW in non-forest locations (12 Locations in Raigad) as landowners are not accepting the compensation rate decided by land compensation committee chaired by SDM as per guidelines of state for transmission line dated 02.11.2022. Delay in approval for tree cutting permission in private land which is impacting 0.02 km stringing in Raigad District. 	

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

1. 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:	
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 : Nil	
Railway crossing: Nil	
National Highway / SH Crossing: Nil	
River Crossings: Nil	
PTCC approval	
Proposal submitted to Defence	No
Proposal submitted to BSNL	No
Proposal submitted to Railways	No
Current status	Proposal submitted
Defence/Civil Aviation	
Proposal submitted to Defence/Civil Aviation	No
Current Status	Proposal submitted
Part D - North Eastern Region Strengthening Scheme – IX	

1. 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
1. 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

27. 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.

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	259 Nos.
Tower erected	192 Nos.
Stringing completed	53.454 ckm
Scheduled COD	Dec'23
Anticipated COD	Jun'24
Constraints/Approval if any:	
1. Facing severe ROW issues at 13 locations (3/0, 3/2, AP4, AP5, AP6, AP7, AP9, AP12, AP19, AP24, AP25, AP27 & AP30) in Kokrajhar District, 06 locations (33/1, AP40, 41/1, 41/3, AP43 & AP44) in Dhubri District, 06 locations (28/2, AP62, AP63, AP64, AP65 & AP66) in Bongaigaon District, 01 locations (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
Defence/Civil Aviation	
Proposal submitted to Defence/Civil Aviation	Civil aviation approved Defence aviation approved on 04.12.2023.
2. Hatsinghmari (Assam) – Ampati (Meghalaya) 132 kV (Single ACSR Panther) D/c line	
Length	37 ckm
Locations	57 Nos.
Foundation completed	29 Nos.
Tower erected	19 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 02.05.2023. Approval is awaited from DET, PTCC Kolkata.
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	93%
Civil work completed	46 %
Equipment supplied	86 %
Equipment erection	0 %
Scheduled COD	Dec'23
Anticipated COD	Jun'24
Constraints/Approval if any:	
Land required: approx.: 30 acres Land registry for 28.11 acres has been completed. Landowner of balance 1.85 acres of land (one owner) are not willing to part with their lands.	
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	99%
Equipment supplied	99%
Equipment erection	76%
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	99 %
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	99 %
Equipment supplied	100 %
Equipment erection	99 %

Scheduled COD	Dec'23
Anticipated COD	Jun'24

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

<p>Background -</p> <p>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.</p> <p>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".</p> <p>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.</p>
<p>Scope of transmission project</p>
<p>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)</p>

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 2 nd 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, JKPCCL 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	
<ul style="list-style-type: none"> 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	5.78%
Equipment supplied	26.32%
Equipment erection	0 %
Scheduled COD	01Apr'25
Anticipated COD	01Apr'25
Constraints/Approval if any:	
<ol style="list-style-type: none"> 1. Acquisition of balance land (09 acre) is pending for substation. Order for Tree felling permission issued on 28th Aug'23. 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. 	

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

Background –	
<p>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.</p> <p>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.</p> <p>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”.</p>	
Scope of transmission project	
<ol style="list-style-type: none"> 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	30.11.2023
NIT issued on	
EPC contract awarded on	April-2023
Scheduled Date of Completion	Feb'2025
Anticipated COD	Feb'2025
Current Status:	
Row clearance received for 293 locations.	
1. Fatehgarh III - Beawar 765 kV D/c line	
Length	630.46 ckm
Locations	810 Nos.
Foundation completed	277 Nos.
Tower erected	86 Nos.
Stringing completed	0 ckm
Scheduled COD	Feb'25
Anticipated COD	Feb'25
Constraints/Approval if any:	
<ol style="list-style-type: none"> 1. Facing ROW issues at 208 locations. 2. Stay imposed by Hon'ble HC of Jodhpur on dated 09.11.2023 since landowners has filed a case (14 locations in Luni Village of Jodhpur District are under stay). 3. Stay imposed by Hon'ble HC of Jodhpur on dated 21.12.2023 since landowners has filed a case (9 locations in Luni Village of Jodhpur District are under stay). 	
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	06.11.23
Current status	Under Process
Wildlife area	NA
Power line crossing	
Total No. of crossings	18
Proposal submitted	9 Proposal Submitted and balance are under preparation
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
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
1. 2 Nos. of Line Bays at Fatehgarh III Substation	
Land Acquired	To be provided by PGCIL
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.	
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:	

30. 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	32 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	
Details of Tr. Line Falling under Forest	
Locations	4 Nos.; Length : 1.626 kms
Forest area (Ha)	10.94 Ha
Forest proposals submitted on	03.12.23
Current status	Under Approval
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
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	10 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
Details of Tr. Line Falling under Forest	:
Locations	Under Preparation
Forest area (Ha)	Under Preparation
Forest proposals submitted on	Under Preparation
Current status	:
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
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	3 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
Details of Tr. Line Falling under Forest	
Locations	
Forest area (Ha)	5.3544 Ha
Forest proposals submitted on	27.12.2023
Current status	Under Approval
Details of Tr. Line Falling under Forest	
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 MVA 765 kV Bus Reactor & 2x125 MVA 420 kV Bus Reactor	
Land Acquired	17.34 %
Civil work completed	0 %
Equipment supplied	0 %
Equipment erection	0 %
Scheduled COD	Mar'25
Anticipated COD	Mar'25
Constraints/Approval if any:	
5. 2 Nos. of Line Bays at Beawar II Substation	
Land Acquired	Under Acquisition
Civil work completed	0 %
Equipment supplied	0 %
Equipment erection	0 %
Scheduled COD	Mar'25
Anticipated COD	Mar'25
6. 2 Nos. of Line Bays at Fatehgarh III Substation	
Land Acquired	Co-ordinates awaited from PGCIL
Civil work completed	0 %
Equipment supplied	0 %
Equipment erection	0 %
Scheduled COD	Mar'25
Anticipated COD	Mar'25
Constraints/Approval if any: Land coordinates are still awaited from PGCIL end for New Bays.	

7. +/- 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	Co-ordinates awaited from PGCIL
Civil work completed	0 %
Equipment supplied	0 %
Equipment erection	0 %
Scheduled COD	Sep'25
Anticipated COD	Sep'25

List fo transmission projects having SPV transferred to Sterlite:

- 31.** Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex): PART-B

Resurgent Power
Venture Pte
Limited

32. System strengthening in Northern region (NRSS XXXVI) along with LILO of Sikar-Neemrana 400 kV D/C line at Babai (RRVNL)

Background	
<p>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.</p> <p>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.</p>	
Scope of Transmission project	
<ol style="list-style-type: none"> 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, NOC from Power Transmission Corporation of Uttarakhand (PTCUL), 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. Koteshwar Pooling Station - Rishikesh 400 kV D/C (HTLS) line	
The route alignment & detailed survey is completed. Tower Package is awarded. Tower foundation & erection work is under progress in non forest area.	
Length	77 ckm
Locations	102 Nos.
Foundation completed	28 Nos.
Tower erected	21 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, PTCUL NOC, Stage 1 Forest Clearance from DFO (Narendranagar), 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	
Foundation, Tower Erection & Stringing section	
<ol style="list-style-type: none"> 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	
<p>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.</p> <p>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.</p> <p>DFO Tehri & DFO Narendranagar have recommended the Forest Diversion proposal on the Parivesh 2.0 portal. Approval of DFO Dehradun is awaited.</p>	
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 (RRVNL) – Bhiwani (PG) D/C line	
Length	222 ckm
Locations	304 Nos.
Scheduled COD	Jun'19
Actual COD	Nov' 23
5. 2 Nos. 400 kV bays at Babai (RRVNL) substation for LILO Line	
Scheduled COD	Dec'16
Deemed COD	30 Oct'17
Under commercial operation.	
6. 2 Nos. 400 kV bays at Babai (RRVNL) substation for Bhiwani Line	
Scheduled COD	Jun'19
Actual COD	Nov'23

List fo transmission projects having SPV transferred to Tata Power:

- 33.** Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex): PART-C

Adani Transmission Limited

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

Background	
<p>NTPC Ltd. has planned to establish a 1980MW (3x660MW) thermal power project at North Karanpura in the state of Jharkhand. Accordingly, Immediate evacuation system for the same was finalized with following transmission system: (i) North Karanpura – Gaya 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.</p>	
Scope of transmission project:	
<ol style="list-style-type: none"> 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) 	
(i) Establishment of 400/220 kV , 2x500 MVA sub-station at Dhanbad	
<u>400 kV</u>	
<ul style="list-style-type: none"> • ICTs: 400/220 kV , 2x500 MVA • ICTs bays: 2 No. • Line bays: 4 No. • 400 kV bus reactor bays: 2 No. • Bus reactor: 2x125 MVAR • Space for future bays: 4 No. • Space for future 400/220 kV , 500 MVA ICT along with associated bay 	
<u>220 kV</u>	
<ul style="list-style-type: none"> • ICTs bays: 2 No. • Line bays: 4 No. • Space for future bays: 4 No. 	
General Details:	
Special Purpose Vehicle (SPV)	North Karanpura Transco Ltd. (A subsidiary of M/s Adani Transmission Limited)
Bid Process Coordinator (BPC)	RECTPCL
Estimated Cost (Rs. 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 romsubmission.
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.
<p>➤ 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:</p> <ul style="list-style-type: none"> • 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.
Length	42 kms
Bihar(BH)	
Location	5 No.
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	
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 Nos.
• Revised schedule completion date	Jul-21,
• Actual completion date	Progressively Charged from 23-07-2021 to 27-07-2021 and COD declared on 06-08-2021

35. Transmission scheme for evacuation of 3 GW RE injection at Khavda P.S. under Phase-I

Background	
<p>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.</p> <p>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.</p> <p>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.</p>	
Scope of transmission project:	
<ul style="list-style-type: none"> • 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)	Khavda Bhuj Transmission Limited (A subsidiary of Adani Transmission Limited)
Bid Process Coordinator (BPC)	PFC Consulting Limited
Estimated Cost (Rs. Cr.)	Rs. 1180 Cr.
Request for Qualification	NA (Single Stage Bidding)
Request for Proposal	06.05.2021
Letter of Intent	22.12.2021
Transmission Service Agreement (TSA)	14.10.2021
SPV acquisition	18.01.2022
Transmission License by CERC	
Tariff adoption by CERC	10.05.2022
Contract Performance Guarantee	Submitted

Clearance u/s 164	02.09.2022
Execution plan to CEA	Submitted on 10.05.22
NIT issued on	
EPC contract awarded on	Awarded
Scheduled Date of Completion	Jan 2024
Anticipated completion	Jan 2024
Status of progress of transmission project :	
A) Establishment of 3X1500 MVA 765/400 kV Khavda (GIS)	
Land acquisition	Land possession handover vide allotment letter No. Jaman-7/ Vashi/ RE Park/ Substation/ 105771/2023, Dt: 16-11-2023 & Jaman-7/RE Park/Approach Road/105802/2023, Dt: -17-11-2023. However, tripartite lease agreement is still to be done.
Civil Works	100 %
Equipment supplied	100%
Erection works	100%
Schedule completion	Jan-2024
Aniticipated completion	Jan- 2024
B) Khavda PS GIS – Bhuj PS 765 kV D/C Line -	
• Length	218 ckm
• Locations	275 Nos.
• Schedule completion	Jan-2024
• Anticipated Completion	Completed. Charged on 30.12.2023
2 Nos. of line bays each at Bhuj PS for termination of Khavda PS (GIS) – Bhuj PS 765 kV D/c line	
• Schedule completion	Jan-2024
• Actual completion	Completed. Charged on 20.12.2023

36. Transmission scheme for evacuation of 4.5GW RE injection at Khavda P.S. under Phase II-Part A

Background :	
<p>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.</p> <p>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.</p> <p>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).</p>	
Scope of transmission project:	
<ol style="list-style-type: none"> 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. <ul style="list-style-type: none"> • 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)	Khavda II-A Transmission Limited (A subsidiary of Adani 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	25.09.2023

Tariff adoption by CERC	06.07.2023
Contract Performance Guarantee	Submitted
Clearance u/s 164	12.10.2023
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
<u>Status of progress of transmission project:</u>	
A) KPS2(GIS)-Lakadia 765 kV D/C line	
• Length	355 ckm
• Locations	452 Nos.
• Foundation completed	114 Nos.
• Tower erected	02 Nos.
• Stringing completed	NIL
• Schedule completion	Mar-2025
• Anticipated Completion	Mar-25
Constraints:	
<ol style="list-style-type: none"> 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	Mar-2025
Issues:	
<ol style="list-style-type: none"> 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. POWERGRID vide letter dated 19.06.2023 and 15.07.2023 has provided SLD & Layout. In this regard, a meeting was taken by Member (Power Systems), CEA on 22.12.2023 to discuss and resolve the issue. 	
A) 2 Nos. of line bays at Lakadia (PS) for Khavda PS2(GIS) -Lakadia PS 765 kV D/c line	

• Land acquisition	Under process
• Engineering	75%
• Civil Works	7%
• Equipment supplied	0 %
• Erection works	0 %
• Schedule completion	Mar-2025
• Anticipated completion	Mar-2025
Status of Statutory approvals:	
<u>Forest</u>	
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
<u>Wildlife</u>	
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	15 Nos.
Proposal submitted	07 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	Submitted.

37. 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)

<ul style="list-style-type: none"> • 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	Foundation works for 4 Nos. Reactors & 3 Nos. ICTs are under progress.
• 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	47
• Tower erected	-
• Schedule completion	17.07.2024
• Anticipated Completion	17.07.2024
Issues :	
<ul style="list-style-type: none"> • Due to Assembly elections, administration at both states viz Maharashtra and Karnataka are engaged in training/ meetings. As such compensation orders are getting delayed due to which work is getting hampered at site. In this regard, support letter was issued by CTUIL to the respective DCs on 15th December. However orders are still awaited. 	
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: PSC meeting was conducted on 20th Nov'23. PSC Committee has advised to verify the Forest area from respective DFO's and revert to PSC office. Same is being persuing with Forest Officials.	
Power line crossing	
Total No. of crossings	19 Nos.
Proposal submitted	19 Nos.
Approval obtained	05 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 No.
Railway Crossings	
Total no. of crossings	04 Nos.
Proposal submitted	03 Nos.

Approval obtained	00 No.
PTCC	
Proposal submitted to BSNL in	
Proposal submitted to Railways in	
Current status	Proposal under preparation
Defence/Civil Aviation	
Current Status	Proposal under preparation

List fo transmission projects having SPV transferred to Adani:

38. Transmission System for evacuation of additional 7 GW RE Power from Khavda RE Park under Phase-III Part A

Indigrid Limited

39. Transmission System for evacuation of power from RE Projects in Osmanabad area (1 GW) in Maharashtra

Background	
Scope of transmission project	
<ol style="list-style-type: none"> 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	Jan-2024	
Status of progress of transmission project		
1. Establishment of 2x500 MVA, 400/220 kV substation near Kallam PS		
Land acquisition	100%	
Civil Works	93%	
Equipment supplied	100%	
Erection works	90%	
Schedule completion	Jun-2023	
Anticipated completion	Jan-2024	
2. 1x125 MVAr bus reactor at Kallam PS 400 kV reactor bay-1		
Engineering	100%	
Civil Works	98%	
Equipment supplied	100%	
Erection works	100%	
Schedule completion	Jun-2023	
Anticipated completion	Jan-24	
3. LILO of both circuits of Parli(PG)-Pune(GIS) 400 kV D/c line at Kallam PS		
Length	16.901 KM (67.904 cKM)	
Locations	47	
Foundation completed	46	
Tower erected	42	
Stringing completed	20.7 cKM	
Scheduled COD	June-2023	
Anticipated COD	Jan-24	
Status of statutory approvals:		
<ul style="list-style-type: none"> ● 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	11/12 (Pending locations 6/0)	7/12
Beed	35/35	35/35
Total	46/47	42/47
<ul style="list-style-type: none"> ● PTCC Approval 		Application submitted.
<ul style="list-style-type: none"> ● Aviation Clearance 		Approval obtained.
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		

Status:

Both units have been received at site in the month of June-23. Mechanical erection has been completed.

Renew Transmission Power Venture Limited

40. Evacuation of power from RE sources in Koppal Wind Energy Zone (Karnataka) (2500MW)

Background	
<p>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.</p> <p>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.</p>	
Scope of transmission project	
<ol style="list-style-type: none"> 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 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 MVA, 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	100%
Equipment supplied	100%
Equipment erection	100%
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

41. Transmission Scheme for Solar Energy Zone in Gadag (1000 MW), Karnataka – Part-A, Phase-I

Background	
<p>Government of India has set a target for establishing 175 GW renewable capacity by 2022, which includes 100 GW from Solar and 60 GW from Wind. Solar Energy Corporation of India (SECI) in association with MNRE has identified Solar Energy Zones (SEZ) and Wind Energy Zones (WEZ) of 66.5 GW in seven RE rich states (Tamil Nadu, Andhra Pradesh, Karnataka, Gujarat, Rajasthan, Maharashtra and Madhya Pradesh) to be evacuated through ISTS. Out of total 66.5 GW REZs, 18.5 GW (Solar-10 GW & Wind8.5GW) of potential has been identified in the states of Tamil Nadu, Andhra Pradesh and Karnataka in Southern Region.</p> <p>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.</p>	
Scope of transmission project	
<ol style="list-style-type: none"> 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 ReNewTransmission 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	
Scheduled Date of Completion	Sept’23
Anticipated Completion	Mar’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	221 Nos.
Tower erected	208 Nos.
Stringing completed	53.25 km
Scheduled COD	Sept'23
Anticipated COD	Mar'24
Constraints / approval; if any:	
1. TSP is facing severe ROW issues at the following locations	
Tower Foundation Locations under RoW : -	

District	Taluka	Village Name	No of Locations	Location No
Vijayapura	Basavan Begawadi	Mutagi	1	7/2
	Nidgundi	Golsangi	3	9/0,10/0,14/1
		Budani	1	14/6
		Nidgundi	4	18/3,19/0,20/0, 23/1
		Total	9	
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	3	5/0,6/0,7/1
	Nidgundi	Golsangi	1	11/0
		Angadagiri	1	14/7
		Nidgundi	1	21/0
		Total	8	

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.

Currently proposal is pending with Nodal Officer (PCCF Office) to submit reply to the observation raised by IRO, Bengaluru on 22.11.2023. Applicant has submitted their response to DFO, Gadag on 06.12.2023.

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: The Hon'ble High Court (Kalaburgi Bench) vide its order dated 19.12.2023, directed the landowner to approach the appropriate forum within two weeks from the date of receipt of a certified copy of the order and till then, status-quo shall be maintained. In view of the same, the work at the location no. 23/1 of 400 kV D/C Gadag PS – Narendra (New) line, is at standstill w.e.f 19.12.2023.

Status of statutory approvals:

Forest area

Locations	1 Nos. ; Length 0.933 Km (Total Stringing stretch affected 6.2 km)
Forest area (Ha)	4.2920 Ha (Gadag & Bagalkote districts)
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 Nodal Officer (PCCF Office) to submit reply to the observation raised by IRO, Bengaluru on 22.11.2023. Applicant has submitted their response to DFO, Gadag on 06.12.2023

Power line crossing

Total No. of crossings	18 Nos.
Proposal submitted	18 Nos.
Approval obtained	18 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	Applied on 06.02.2023
Current status	Under Process
Defence/Civil Aviation	
Current Status	Defence Aviation NOC received -31.5.23 Civil Aviation for 194/232 location received.
1. 2x500MVA, 400/220 kV Gadag Pooling Station alongwith 1x125 MVA, 400 kV bus reactors	
Land Acquired	100 %
Civil work completed	98%
Equipment supplied	100%
Equipment erection	96%
Scheduled COD	Sept'23
Anticipated COD	Jan'24
2. 400 kV GIS Line bay at Narendra (New) : 2 Nos.	
Scheduled COD	Sept'23
Actual COD	Nov'23

42. Transmission Scheme for Solar Energy Zone in Gadag (1500 MW), Karnataka – Part-A, Phase-II

Background	
<p>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.</p> <p>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.</p>	
Scope of transmission project	
<ol style="list-style-type: none"> 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	54 Nos.	
Tower erected	6 Nos.	
Stringing completed	-	
Scheduled COD	May'24	
Anticipated COD	May'24	
Constraints / approval; if any:		
1. 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 02.01.2024
Koppal	Kukanuru	Request letter submitted on 12.04.2023. Order issued by office of District Collector, Koppal on 02.01.2024
Gadag	Gajendragad	Request letter submitted on 30.05.2023. Order issued by office of District Collector, Gadag on 27.12.2023
2. 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 and work on tower location no. 3A/1, 3A/2, 4/0 & corridor length 1.226 km is getting affected. A meeting chaired by CE, PSPM, CEA has been held with Fortum on 22.12.2023 at CEA, New Delhi. CE, PSPM has instructed M/s Fortum to allow GTATL to work with immediate effect in all the locations under the transmission line pertaining to GTATL and compensation for the same will be paid in line with prevailing regulations of compensation for transmission lines in Karnataka. Negotiation with respective landowners is under progress.		
3. TSP is facing severe ROW issues at the following locations :-		
Tower Foundation Locations under RoW :		

District	Taluka	Village Name	No of Locations	Location No
Koppal	Yelburga	Shiragumpi	1	6/3
		Hiremyageri	1	9/9
		Karmuddi	2	10C/3, 11/1

	Kuknoor	Sanganala	1	11/3
		Kuknoor	1	12/3
		Itagi	3	13/5,13/6,14/11
		Ningapura	2	14/5, 14/8
		Talakal	14	15/0, 16/0,16/1, 17/0, 18/0, 18/1, 18/2, 18/3, 18/4, 19/1, 19/2, 20, 20A, 21
		Virupapura	3	12/7, 12/8, 12/10
Gadag	Gajendragad	Gulaguli	2	3A/1,3A/2
		Bevinkatti	2	5/3, 5/4
		Rudrapura	1	4/0
	Total		33	

Status of statutory approvals:	
Power line crossing	
Total No. of crossings	5 Nos.
Proposal submitted	5 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.
Proposal submitted	4 Nos.
Approval obtained	3 Nos. (SH)
PTCC approval	Submitted on 21.07.2023
Current status	Under Process
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	90%
Equipment supplied	39%
Equipment erection	28%
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	92%
Equipment supplied	89%
Equipment erection	67%
Scheduled COD	May'24
Anticipated COD	May'24

G R Infraprojects Limited

43. Transmission System for evacuation of power from RE projects in Rajgarh (2500 MW) SEZ in Madhya Pradesh

Background	
<p>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.</p> <p>The Ministry of Power, Government of India, vide its No.tification 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.</p> <p>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.</p>	
Scope of the Transmission Project	
Sl. No.	Scope of the Transmission Scheme
1.	<p>Establishment of 400/220 kV , 3x500 MVA at Pachora SEZ PP with 420 kV (125 MVAR) bus reactor</p> <ul style="list-style-type: none"> • 400/220 kV , 500 MVA ICT – 3 Nos. • 400 kV ICT bays – 3 Nos. • 220 kV ICT bays – 3 Nos. • 400 kV line bays – 2 Nos. • 220 kV line bays – 6 Nos. <p>(4 Nos. for Agar & Shajapur solar park interconnection & 2 Nos. for other RE projects)</p> <ul style="list-style-type: none"> • 125 MVAr, 420 kV reactor-1 No. • 420 kV reactor bay – 1 No. • 220 kV Bus coupler bay- 1 No. • 220 kV Transfer Bus Coupler (TBC) bay - 1 No. <p>Space for future Provisions:</p> <ul style="list-style-type: none"> • 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. <p>(One No. bay for each Main Bus)</p>

2	Pachora SEZ PP -Bhopal (Sterlite) 400 kV D/c line (Quad/HTLS) (with minimum capacity of 2100 MVA/ckt at No.minal voltage) along with 80MVAR switchable line reactors with 400 ohms NGR on each circuit at Pachora end, Switchable line Reactors (at Pachora end) –420 kV , 2x80MVAR Line reactor bays (at Pachora) – 2 Nos.
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 No.minal 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 80MVAR switchable line reactors with 400 ohms NGR on each circuit at Pachora end, Switchable line Reactors (at Pachora end) –420 kV , 2x80MVAR Line reactor bays (at Pachora) – 2 Nos.

Length	287.908 ckm (Tentative)
Locations	357 Nos. (Tentative)
Foundation completed	357 Nos.
Tower erected	357 Nos.
Stringing completed	284.643 ckm
Scheduled COD	29-11-2023
Anticipated COD	28-01-2024

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:	
<p>1. Installation of SEMs (Special Energy Meters) on 220 kV line side at Pachora Substation is pending as procurement of metering panel is underway.</p> <p>2. Information regarding FOTE configuration and network layout of the downstream is pending from RUMSL.</p>	
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	98.50%
Equipment supplied	100%
Equipment erection	100%
Scheduled COD	29-11-2023
Anticipated COD	28-01-2024
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	99.5%
Equipment supplied	100%
Equipment erection	100%
Scheduled COD	29-11-2023
Anticipated COD	28-01-2024

Megha Engineering & Infrastructures Limited

44. 400 kV D/c Khandukhal (Srinagar) – Rampura (Kashipur) line (Twin HTLS*) (KRTL)

Background	
Scope of transmission project	
<ol style="list-style-type: none"> 1. 400 kV D/c Khandukhal(Srinagar) – Rampura (Kashipur) line (Twin HTLS*) – 194 Km 2. 1x80MVAR switchable line reactor at Rampura (Kashipur) end on each circuit of Khandukhal (Srinagar) - Rampura (Kashipur) line <ol style="list-style-type: none"> a) Switching equipment for 420 kV 80 MVAR switchable line reactor –2 Nos. b) 420 kV, 80 MVAR Switchable line reactor- 2 Nos. 3. 1 No. of 400 kV line bay at Rampura (Kashipur) S/s <ol style="list-style-type: none"> a) 400 kV line bay -1 No. 4. Upgradation of existing 400 kV bays at Khandukhal (Srinagar) <ol style="list-style-type: none"> 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)	-----
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	Application submitted and under process.

Execution plan submitted to CEA	Submitted
NIT issued on	NIT floated on 30.12.2022
EPC contract awarded on	LOI Issued on 10-02-2023 & Detailed LOA Issued on 15-02-2023
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	384 ckm
Locations	487 Nos.
Foundation completed	260 Nos.
Tower erected	237 Nos
Stringing completed	01 Nos.
Scheduled COD	0 ckm
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	
<p>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.</p> <p>CTUIL has communicated PTCUL Vide ref: CTUIL/CMG/2022-23/Khandukal/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).</p> <p>Meeting convened by CEA on 24.02.2023. PTCUL response as per MOM is awaited.</p> <p>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.</p> <p>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.</p>	
Status of statutory approvals:	

Forest Land Confirmation	Forest Documents (Form-A (Part-II), Diversion of Forest Land) uploaded on 30.11.2023 vide proposal no: FP/UK/TRANS/445596/2023. (Part-3) Verification of documents is under progress with CF/Kotdwar, Ram Nagar & Pouri.
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45. 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. 110MVAr, 765 kV Bus Reactor-4 Nos. 765 kV Reactor bay – 1 No. 125MVAr, 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) (SPV Owner: M/s Megha)
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)	
<u>Status of Statutory Proposals</u>	
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

46. 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	
<ol style="list-style-type: none"> 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	29.11.2023
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	5
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 :	
<p>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.</p> <p>2. Check Survey completed for 210 km</p> <p>3. Transmission line length for the project may change due to above pending information.</p>	

47. 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 No.minal voltage

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

General Details

Special Purpose Vehicle	Fatehgarh IV transmission Limited (Wholly owned subsidiary of Apraava Energy Private 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	28.11.2023
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	Sale deed executed for the entire land; however mutation and physical possession for part land is pending
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	Survey in progress
National Highway Crossing	Survey in progress
Constraints / approvals; if any	
Detailed Survey completed except for last portion of 5 km at Fatehgarh III substation end. This is pending because of unavailability of 400 kV bay extension coordinates at Fatehgarh III substation, which is necessary to determine the final gantry position at both the locations.	

Reliance Power Transmission Limited

48. 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	
<ol style="list-style-type: none"> 1. Lucknow – Bareilly 765 kV D/C line 2. Bareilly – Meerut 765 kV D/C line 3. Agra – Gurgaon(ITP) 400 kV D/C line 4. Gurgaon(ITP) – Gurgaon (PG) 400 kV D/C line 5. Gurgaon (ITP) 400/220 kV GIS Substation 6. Sipat/Korba pooling station – Seoni 400 kV D/C line 	
General Details	
Special Purpose Vehicle (SPV)	North Karanpura Transmission Company Ltd. (A subsidiary of RPTL)
Bid Process Coordinator (BPC)	Rural Electrification Corporation
Estimated Cost (Rs. 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.

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

Background	
<p>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.</p> <p>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-Behrapur- Gazuwaka 400 kV D/C line with series compensation and switching station at Behrapur 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.</p>	
Scope of transmission project	
<ol style="list-style-type: none"> 1. Talcher II- Rourkela 400 kV D/C Quad line 2. Talcher II – Behrapur 400 kV D/C line 3. Behrapur- Gazuwaka 400 kV D/C line 4. 2x315 MVA, 400/220 kV Behrapur 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 – Behrampur 400 kV D/C line**
- 3. Behrampur – Gazuwaka 400 kV D/C line**
- 4. 2x315 MVA, 400/220 kV Behrampur substation**

The Company had approached Central Electricity Regulatory Commission (CERC) for allowing tariff revision and Force Majeure due to delay in grant of clearance u/s 164 of Electricity Act (EA). CERC No.tified 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.

