

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 31.08.2023)

(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 No.t 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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| | | Special Purpose Vehicle (SPV)/ Bid Process Coordinator (BPC) | Parent Company/ Progress Status | Page No. | |
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| S.No | Transmission project | Special Purpose Vehicle (SPV)/ Bid Process Coordinator | Parent Company/ Progress Status | Page No. |
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| S.No | Transmission project | Special Purpose Vehicle (SPV)/ Bid Process Coordinator (BPC) | Parent Company/ Progress Status | Page No. |
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| Total Transmission Projects Awarded | : | 87 |
|---|---|----|
| Transmission Projects Commissioned/Ready for commissioning | : | 45 |
| Transmission Projects Under Construction | : | 38 |
| Tr. Projects whose construction could No.t be started due to litigation | : | 02 |
| Tr. 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-A, Phase-II

Background

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

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

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

Scope of Transmission Project-

Transmission Line

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

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

Substation

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

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

General Details

| Special Purpose Vehicle (SPV) subsidiary of POWERGRID) | : PO | WERGRID Ramgarh Transmission Limited (A |
|---|-------------|---|
| Bid Process Coordinator (BPC) | : | REC Ltd. |
| Estimated Cost | : | ₹ 353.85 Cr. |
| Levellised Tariff | : | ₹ 39.053 Cr. |
| Request for Proposal | : | 11.05.20 |
| Letter of Intent | : | 29.01.21 |
| Transmission Service Agreement (TSA) | : | 11.11.20 |
| SPV acquisition | : | 09.03.21 |
| Transmission License by CERC | : | 31.05.21 |
| Tariff adoption by CERC | : | 05.05.21 |
| Clearance u/s 164 | : | 20.12.21 |

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

Status of progress of transmission project:-

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

| Length: | 44 km |
|----------------------|-----------------|
| Locations: | 114 Nos. |
| Foundation completed | 114 Nos. |
| Towers erected | 112 Nos. |
| Stringing completed | 25.1 km |
| Scheduled COD | Sep'22/Dec'22** |
| Anticipated COD | Sep'23 |

Status of statutory approvals:

River Crossings

| Total No. of crossings | : | NIL | Nos. |
|------------------------|---|-----|------|
| Power line crossing | | | |
| Total No. of crossings | : | 10 | Nos. |
| Proposal submitted | : | 10 | Nos. |
| Approval obtained | : | 10 | Nos. |
| | | | |

Railway crossing

| Total No. of crossings | : | NIL |
|------------------------|---|-----|
|------------------------|---|-----|

National Highway Crossing

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

Forest:

Forest (0.0920 Ha): Online Submission:28.04.21. Stage-I accorded from O/o Sec (Forest), Govt. of Raj on 18.11.2021 Stage-II issued on 20.01.23.

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

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

| Award placed to M/s KPTL | |
|--------------------------|----------|
| Length: | 50 km |
| Locations: | 129 Nos. |
| Foundation | 129 Nos. |
| Towers erection | 129 No |

| Stringing | 50 km |
|-----------------|-----------------|
| Scheduled COD | Sep'22/Dec'22** |
| Anticipated COD | Sep'23 |

Status of statutory approvals:

| : | NIL | Nos. |
|---|-------------|----------------------|
| | | |
| : | 07 | Nos. |
| : | 07 | Nos. |
| : | 07 | Nos. |
| | | |
| : | NIL | |
| | : : : | : 07 : 07 : 07 |

| National Highway Crossing | | |
|---------------------------|---|---|
| Total No. of crossings | : | 1 |
| Proposal submitted | : | 1 |

Forest:

Approval obtained

Forest (0.1794 Ha): Online Submission:28.04.21. Stage-I clearance accorded on 09.05.22. Working Permission accorded on 20.04.23.Stage-II clearance accorded on 01.05.23.

1

Nos. Nos.

Nos.

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

:

Constraints being faced during execution: Work affected due to COVID-19 pandemic.

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

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

| Land Acquisition | : | Land Taken over |
|----------------------|---|-----------------|
| Civil work completed | : | 90% |
| Equipment supplied | : | 85% |
| Equipment erection | : | 70% |
| Scheduled COD | : | Sep'22/Dec'22** |
| Anticipated COD | : | Sep'23 |
| | | |

(b) Extension of 400 Fatehgarh-II Substation

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

(c) Extension of 400kV Jaisalmer II Substation

| Land Acquisition | : | Available |
|----------------------|---|-----------|
| Civil work completed | : | 99% |

| Equipment supplied | : | 99% |
|--------------------|---|-----------------|
| Equipment erection | : | 99% |
| Scheduled COD | : | Sep'22/Dec'22** |
| Anticipated COD | : | Aug'23 |

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

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

Background

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

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

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

Scope of Transmission Project-

Transmission Line

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

Substation

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

General Details

| : | POWERGRID Bhadla Transmission Limited |
|---|---------------------------------------|
| | REC Transmission Projects Company Ltd |
| • | ₹ 713.82 Cr. |
| • | ₹ 72.893 Cr. |
| : | 05.03.20 |
| : | 29.01.21 |
| : | 11.11.20 |
| : | 04.06.21 |
| : | 25.11.22 |
| : | Applied on 16.06.21 |
| : | 22.02.22 |
| : | To be submitted. |
| : | NIT for all Pkges issued. |
| : | NOAs issued |
| | |

Status of progress of transmission project:-

Fatehgarh II – Bhadla II 765kV D/C line (Twin HTLS)

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

| • | Length: | 202.3 km |
|---|----------------------|----------|
| ٠ | Locations: | 532 Nos. |
| ٠ | Foundation completed | 355 Nos. |
| ٠ | Towers erected | 257 Nos |
| ٠ | Stringing completed | 1.5 km |
| ٠ | Scheduled COD | Dec'22 |
| ٠ | Anticipated COD | Feb'24 |

Status of statutory approvals:

| River Crossings | | | |
|---------------------------|---|-----|------|
| Total No. of crossings | : | NIL | Nos. |
| | | | |
| 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. |

Forest:

Approval obtained

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.

02

Nos.

| PTCC approval | : | Proposal submitted , under approval. |
|------------------|---|--------------------------------------|
| Defence Aviation | : | Proposal approved. |
| Civil Aviation | : | Proposal approved. |

:

Constraints being faced during execution:

- 1. Work affected due to COVID-19 pandemic.
- 2. Supreme Court committee clearance in GIB case received on 18.07.22 with diverted route. Transmission license received on 25.11.22.
- 3. RoW at 14 loc. in Jaisalmer district and 4 loc. in Jodhpur district

Status of progress of Substation and Bay Extensions:-

1. Extension of 765kV Fatehgarh II Substation

| Land Acquisition | : | Available. |
|----------------------|---|------------|
| Civil work completed | : | 85% |
| Equipment supplied | : | 80% |
| Equipment erection | : | 65% |
| Scheduled COD | : | Dec'22 |
| Anticipated COD | | Feb'24 |

2. Extension of 765kV Bhadla II Substation

| Land Acquisition | : | Available |
|----------------------|---|-----------|
| Civil work completed | : | 85% |
| Equipment supplied | : | 80% |
| Equipment erection | : | 65% |
| Scheduled COD | : | Dec'22** |
| Anticipated COD | | Feb'24 |

Constraints being faced during execution:

1.Work affected due to COVID-19 pandemic.

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

Background

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

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

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

Scope of Transmission Project-

Transmission Line

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

Substation

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

General Details

| Special Purpose Vehicle (SPV) subsidiary of POWERGRID) | : | POWERGRID Sikar Transmission Limited (A |
|---|---|---|
| Bid Process Coordinator (BPC) | : | REC Transmission Projects Company Ltd. |
| Estimated Cost | : | ₹ 1562 Cr. |
| Levellised Tariff | : | ₹ 163.705 Cr. |
| Request for Proposal | : | 05.03.20 |
| Letter of Intent | : | 01.02.21 |
| Transmission Service Agreement (TSA) | : | 14.12.20 |
| SPV acquisition | : | 04.06.21 |
| Transmission License by CERC | : | 27.05.22 |
| Tariff adoption by CERC | : | 05.05.22 |
| Clearance u/s 164 | : | 19.04.23 |
| Execution plan submitted to CEA | : | Submitted. |
| NIT issued on | : | NIT for all Pkges issued. |

| EPC awarded on | : | NOAs issued |
|------------------------------|---|-------------|
| Scheduled Date of Completion | : | Dec'22 |

Status of progress of transmission project:-

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

Award placed to M/s KEC

| Length: | 307 km |
|----------------------|----------|
| Locations: | 779 Nos. |
| Foundation completed | 617 Nos. |
| Towers erected | 490 No. |
| Stringing completed | 70.9 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 | : | 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. |
| rippioval obtained | • | 0 1 | 1,05. |

Forest:

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

DFO, Sikar on 20.02.2023 had requested Power Grid to submit hardcopies of forest proposals as per revised area & same were submitted to DFO on 26.04.23. DFO Sikar forwarded proposal on 24.05.23. Compliance of query raised on 05.07.23 by DFO, Nagour under progress

| PTCC approval | : | Proposal under finalization due to change in land. |
|------------------------------------|---|---|
| Defence Aviation Civil Aviation | : | Proposal under finalization due to change in land Proposal under finalization due to change in land. |

Award placed to M/s KEC

| Length: Locations: Foundation completed Towers erected Stringing completed Scheduled COD Anticipated COD | 142.3 k 395 No 269No 189 No 4.1 km Dec'22 Jun'24 | 08. 8 08. | |
|--|--|-----------------|------|
| Status of statutory approvals: | | | |
| River Crossings | | | |
| Total No. of crossings | : | NIL | Nos. |
| 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. |
| 11 | | | |

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

Forest (0.483 Ha, Haryana): Online proposal submitted on 08.08.2021 & accepted by Nodal on 20.08.2021 Stage-I issued on 07.08.23. Demand letter received on 21.08.23. Payment submission under process.

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

Constraints being faced during execution:

- 1. Work affected due to COVID-19 pandemic.
- 2. Supreme Court Committee clearance received on 13.01.22.
- 3. Transmission Licence by CERC received on 27.05.22.

Status of progress of Substation and Bay Extensions:-

1. 765/400kV Sikar II New Substation

| Land Acquisition | : | Land being purchased through open tender. |
|----------------------|---|---|
| Civil work completed | : | to Start |

| Equipment supplied | : | |
|--------------------|---|----------|
| Equipment erection | : | |
| Scheduled COD | : | Dec'22** |
| Anticipated COD | | Jun'24 |

2. Extension of 765kV 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 400kV Neemrana Substation

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

Constraints being faced during execution:

- 1. Work affected due to COVID-19 pandemic.
- 2. Supreme Court Committee clearance received on 13.01.22. Transmission Licence received on 27.05.22.
- 3. POWERGRID was facing difficulty in purchase of land within BPC specified radius. Issue raised with MoP for increasing the radius. Direction for resolution of issue received in meeting held in May'23 under chairmanship of Secretary Power. Persuasion with Govt. of Rajasthan for commencement of works is under progress.

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

Background

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

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

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

Scope of Transmission Project-

Transmission Line

Sikar II- Aligarh 765kV D/C line

Substation

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

General Details

| Special Purpose Vehicle (SPV) subsidiary of POWERGRID) | : | Sikar II – Aligarh Transmission Limited (A |
|---|---|--|
| Bid Process Coordinator (BPC) | : | PFC Consulting Ltd. |
| Estimated Cost | : | ₹ 1006 Cr. |
| Levellised Tariff | : | ₹ 99.701Cr. |
| Request for Proposal | : | 06.03.20 |
| Letter of Intent | : | 16.02.21 |
| Transmission Service Agreement (TSA) | : | 02.11.20 |
| SPV acquisition | : | 08.06.21 |
| Transmission License by CERC | : | 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. |
| NIT issued on | : | NIT for all Pkges issued. |
| EPC awarded on | : | NOAs issued |
| Scheduled Date of Completion | : | Dec'22 |

Status of progress of transmission project:-

1. Sikar II – Aligarh 765kV D/C line

Award placed to M/s KPTL

| 264.2 km |
|----------|
| 704 Nos. |
| 665 Nos. |
| 649 Nos. |
| 239 km |
| Dec'22 |
| 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 Proposal submitted Approval obtained | : : : | 03 03 03 | Nos. Nos. 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 submission under process.

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 765kV Sikar II Substation

| Land Acquisition | : | Land being purchased through open tender. |
|----------------------|---|---|
| Civil work completed | : | |
| Equipment supplied | : | |
| Equipment erection | : | |
| Scheduled COD | : | Dec'22 |
| Anticipated COD | | Jun'24 |

2. Extension of 765kV Aligarh Substation

| Land Acquisition | : | Available |
|----------------------|---|-----------|
| Civil work completed | : | 95% |
| Equipment supplied | : | 95% |
| Equipment erection | : | 92% |
| Scheduled COD | : | Dec'22** |
| Anticipated COD | | Mar'24 |

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.

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

Background

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

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

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

Scope of Transmission Project-

Transmission Line

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

Substation

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

General Details

| Special Purpose Vehicle (SPV) subsidiary of POWERGRID) | : | Khetri Narela Transmission Limited (A |
|---|---|---------------------------------------|
| 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. |
| NIT issued on | : | NIT for all Pkges issued. |
| EPC awarded on | : | NOAs for all package issued except Reactors |
| Scheduled Date of Completion | : | Nov'23 |

1. Khetri – Narela 765kV D/C line

Award placed to M/s TLL

| Length: Locations: | 170 km 459 Nos. |
|-----------------------|--------------------|
| Foundation completed | 271 Nos. |
| Towers erected | 194 Nos. |
| Stringing completed | 2.7 km |
| Scheduled COD | Nov'23 |
| Anticipated COD | Mar'24 |

Status of statutory approvals:

| Power line crossing: Total No. of crossings Proposal submitted Approval obtained | : | 34 34 31 | Nos. Nos. Nos. |
|--|-------------|----------------|----------------------|
| Railway crossing: Total No. of crossings Proposal submitted Approval obtained | : : : | 5 2 0 | Nos. Nos. Nos. |
| National Highway Crossing: Total No. of crossings Proposal submitted Approval obtained | : | 6 5 1 | Nos. Nos. Nos. |

Forest Rajasthan (3.6619 Ha) – Online proposal submitted in Nov'22. After submission of compliance, DFO forwarded proposal to Nodal Officer on 04.05.23. Nodal Officer forwarded proposal to State forest department on 18.08.23 for approval.

Forest Haryana (15.95 Hectare) – Proposal submitted on 03.02.23. Proposal discussed in PSC meeting dated 25.05.23. State Forest Deptt was insisting on providing No.n-forest land for CA which is time consuming. Issue discussed in Inter- ministerial meeting on 03.07.2023, in which submission of DO letter for seeking exemption for providing NFL was asked. DO letter in this regard has been given to Secretary MoEFCC on 15.07.23. Matter further discussed in FAC meeting held on 17.07.23 and proposal for DFL in-principally accepted. DO letter dated 29.08.23 from Secretary (Power), Govt. of India to PCCF (Land Management), Forest Dept. MP has requested to provide degraded land for CA from MP State. Vide letter dated 31.08.23, O/o PCCF (Land Management) issued letter to Secretary (Power), Govt. of India regarding availability of degraded land for CA.

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

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

Award placed to M/s TLL

| Length: | 30 km |
|----------------------|---------|
| Locations: | 97 Nos. |
| Foundation completed | 25 Nos. |
| Towers erected | 2 Nos. |
| Stringing completed | 0 km |
| Scheduled COD | Nov'23 |
| Anticipated COD | Apr'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. |
| • | | 2 | |
| Approval obtained | - | I | 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. DFO, Sonipat has requested Power Grid to provide NFL for CA on 18.04.23. Due No.n availability of land for CA, POWERGRID requested Nodal Officer, Panchkula on 29.05.23 to provide DFL for CA scheme & same has been forwarded to all CCF (T) except South Circle. On 15.06.23, NO, Panchkula has advised CCF, Hisar to identify DFL for CA. Further, CCF, Hisar has conveyed to DFO, Sirsa to identify DFL for CA and same is under process.

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

| : | Land acquired in Mar'23 |
|---|-------------------------|
| : | 35% |
| : | 30% |
| : | |
| : | Nov'23 |
| : | Apr'24 |
| | : |

2. Extension of 765kV Khetri Substation

| Land Acquisition | : | Available |
|----------------------|---|-----------|
| Civil work completed | : | 55% |
| Equipment supplied | : | 50% |
| Equipment erection | : | 10% |
| Scheduled COD | : | Nov'23 |
| Anticipated COD | : | Mar'24 |

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

Background

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

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

Scope of Works under Neemuch Project:

a) Establishment of 2x500 MVA, 400/220 kV Pooling Station (AIS) at Neemuch (Singoli tehsil) with 1x125 MVAr Bus Reactor
400/220 kV, 500 MVA ICT –2 Nos.
400 kV ICT bays – 2 Nos.
220 kV ICT bays – 2 Nos.
400 kV line bays –4 Nos. (2 each for Chittorgarh & Mandsaur lines)
220 kV line bays – (2 Nos. of bays to 500 MW Connectivity/LTA granted to M/s RUMSL)
220 kV Bus coupler bay- 1 No.
220 kV reactor-1 No.
420 kV reactor bay – 1 No.

b) Associated Transmission System:

i) Neemuch PS – Chhittorgarh (PG) s/s 400 kV D/C line (conductor with minimum capacity of 2100 MVA/Ckt at No.minal voltage).

ii) 2 Nos. of 400 kV line bays at Chhittorgarh (PG) 400 kV s/s for Neemuch PS – Chhittorgarh (PG) s/s 400 kV D/C line (conductor with minimum capacity of 2100 MVA/Ckt at No.minal voltage).

iii) Neemuch PS- Mandsaur s/s 400 kV D/C line (conductor with minimum capacity of 2100 MVA/Ckt at No.minal voltage).

iv) 2 No. of 400 kV line bays at Mandsaur 400 kV s/s for Neemuch PS- Mandsaur s/s 400 kV D/c line (conductor with minimum capacity of 2100 MVA/Ckt at No.minal voltage).

| General Details | | |
|-------------------------------|---|---|
| Special Purpose Vehicle (SPV) | : | Neemuch Transmission Limited (A subsidiary of |
| POWERGRID) | | |
| Bid Process Coordinator (BPC) | : | REC Power Development and Consultancy Ltd |
| Estimated Cost | : | ₹ 547 Cr. |
| Levelized Tariff | : | ₹ 78.378 |
| Request for Proposal | : | 28.01.22 |
| Letter of Intent | : | 07.07.22 |

| Transmission Service Agreement (TSA) SPV acquisition | : | 24.08.22 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. |
| NIT issued on | : | NIT for all Pkges issued. |
| EPC awarded on | : | Awarded |
| Scheduled Date of Completion | : | Feb'24 |

Status of progress of Transmission Line:

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

Award placed on M/s TLL.

| Length | : | 118.06 km |
|----------------------|---|-----------|
| Locations | : | 302 Nos. |
| Foundation completed | : | 160 Nos. |
| Towers erected | : | 126 Nos. |
| Stringing completed | : | 12.03 km |
| Scheduled COD | : | Feb'24 |
| Anticipated COD | : | Feb'24 |

Status of statutory approvals:

| River Crossings | : 3 No.s. |
|---------------------------|------------|
| Power line crossing | : 32 No.s. |
| Railway crossing | : 1 No. |
| National Highway Crossing | : 3 No.s. |

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

Award placed on M/s KEC & TLL

| : | 117.5 km |
|---|---|
| : | 306 Nos. |
| : | 187 Nos. |
| : | 146 Nos. |
| : | 6.6 km |
| : | Feb'24 |
| : | Feb'24 |
| | : |

Status of statutory approvals:

Status of statutory approvals:

| Power line crossing | : | | |
|------------------------|---|----|------|
| Total No. of crossings | : | 15 | Nos. |

| Proposal submitted Approval obtained | : | 15 0 | Nos. Nos. |
|---|---|-------------|----------------------|
| Railway crossing Total No. of crossings Proposal submitted Approval obtained | : | 1 0 0 | Nos. Nos. Nos. |
| National Highway Crossing Total No. of crossings Proposal submitted Approval obtained | : | 2 0 0 | Nos. Nos. Nos. |

Forest Rajasthan (50 Ha.): Online submitted on 02.06.23. Discussed in PSC meeting on 15.06.23. DFO, Chittorgarh forwarded proposal to CCF on 10.08.23. CCF inspection completed on 29.08.23.

Forest MP (19 Ha.): Online submitted on 28.02.23. DFO forwarded proposal to Nodal Officer on 08.06.23. Nodal Officer forwarded proposal to Govt. of MP on 13.07.23. Same is under examination.

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 | : | 45% |
| Equipment supplied | : | 30% |
| Equipment erection | : | 10% |
| Scheduled COD | : | Feb'24 |
| Anticipated COD | : | Feb'24 |
| | | |

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

| Land Acquisition | : | Available |
|----------------------|---|-----------|
| Civil work completed | : | 20% |
| Equipment supplied | : | 20% |
| Equipment erection | : | |
| Scheduled COD | : | Feb'24 |
| Anticipated COD | : | Feb'24 |
| | | |

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

| Land Acquisition | : | Available |
|----------------------|---|-----------|
| Civil work completed | : | 75% |
| Equipment supplied | : | 65% |
| Equipment erection | : | 20% |
| Scheduled COD | : | Feb'24 |
| Anticipated COD | : | Feb'24 |

7. System Strengthening Scheme for Eastern and North Eastern Region

Background

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

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

- 1. Creation of 220kV GIS bus at Banka (POWERGRID) S/S
- 2. 400kV Bus extension works at Banka (POWERGRID) 400/132kV Substation
- 400/220kV, 2x500MVA ICTs along with associated bays (220kV bays in GIS and 400kV bays in AIS) 400/220kV, 500MVA ICT – 2 Nos. 400kV ICT(AIS) bays – 2 Nos.

220kV ICT (GIS) bays – 2 Nos.

 2 No.s. of 220kV GIS line bays at Banka (POWERGRID) for termination of Banka (POWERGRID) – Goradih (Sabour New) 220kV D/C line of BSPTCL Future provision: Space for future 220kV GIS bays: 6 Nos.

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

 Upgradation of existing 132kV Namsai (POWERGRID) S/S to 220kV (with 220kV side as GIS)

220kV in GIS:

- i) ICTs: 220/132kV, 2x160MVA
- ii) ICT bay : 2 Nos.
- iii) Bus Reactor: 220kV, 1x50MVAr
- iv) Bus Reactor Bay: 1 No.

v) Line bays: 2 Nos. [for termination of Kathalguri (NEEPCO) – Namsai (POWERGRID) 220kV D/C line]

vi) Bus coupler bay: 1 No.

vii) Space for future line bays: 4 Nos.

132kV:

i) ICT bays: 2 Nos.ii) Space for future line bays: 4 Nos.

- 2. Kathalguri (NEEPCO) Namsai (POWERGRID) 220kV D/C line
- 3. Extension at Kathalguri (NEEPCO) switchyard: 2 Nos. of 220kv GIS line bays for termination of Kathalguri (NEEPCO) Namsai

General Details Special Purpose Vehicle (SPV) subsidiary of POWERGRID)

: ER NER Transmission Limited (ENTL) (A

| Bid Process Coordinator (BPC) | : | REC Power Development and Consultancy Ltd |
|---|---|---|
| Estimated Cost | : | ₹307.87 |
| 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 |
| NIT issued on | : | NIT for S/s Pkgs issued. |
| EPC awarded on | : | Awarded |
| Scheduled Date of Completion | : | 09.10.2025 |
| | | |

Status of progress of Transmission Line:

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

| Length | : | 69.6 kms |
|----------------------|---|----------|
| Locations | : | 219 Nos. |
| Foundation completed | : | 19 Nos. |
| Towers erected | : | 0 Nos. |
| Stringing completed | : | 0 km |
| Scheduled COD | : | Oct'2025 |
| Anticipated COD | : | Oct'2025 |

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 |

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

| Land Acquisition | : | Available |
|----------------------|---|-----------|
| Civil work completed | : | 40% |
| Equipment supplied | : | 02% |
| Equipment erection | : | - |
| Scheduled COD | : | Oct'2024 |
| Anticipated COD | : | Oct'2024 |

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

| Land Acquisition | : | Available |
|----------------------|---|-----------|
| Civil work completed | : | 10% |

| Equipment supplied | : | 02% |
|----------------------|----------|-------------------|
| Equipment erection | : | - |
| Scheduled COD | : | Oct'2025 |
| Anticipated COD | : | Oct'2025 |
| Extn. of 220kV Katha | lguri SS | S (NEEPCO) |
| | | |

| Land Acquisition | : | Available |
|----------------------|---|-----------|
| Civil work completed | : | 02% |
| Equipment supplied | : | 02% |
| 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

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

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

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

Scope of Transmission Project-

Transmission Line

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

Substation

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

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

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

Status of progress of Transmission Line:

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

| Length | : | 184 km |
|----------------------|---|----------|
| Locations | : | 478 Nos. |
| Foundation completed | : | 14 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. 765kV Line Bays at Lakadia PS for 765kV D/C Lakadia PS-Ahmedabad Line

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

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

| : | |
|---|--------|
| : | |
| : | |
| : | |
| : | Mar'25 |
| : | Mar'25 |
| | :: |

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

Background

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

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

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

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

Transmission Line

1. 765KV D/C Ahemdabad-South Gujrat (New Navsari) line

Substation

- 2. 765/400kV 3x1500MVA Ahmedabad New SS with 1x330MVAr 765kV Bus Reactor & 1x125MVAr 400kV Bus Reactor
- 3. 765kV Line Bays at Ahmedabad for 765kV D/C Ahemdabad-South Gujrat (New Navsari) line along with 240MVAR Line Reactor on each ckt.
- 4. 765kV Line Bays at South Gujarat (New Navsari) for 765kV D/C Ahemdabad-South Gujrat (New Navsari) line

General Details

| Special Purpose Vehicle (SPV) of POWERGRID) | : | Khavda II-C Transmission Limited(A subsidiary |
|--|---|---|
| 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. 765KV D/C Ahmedabad-South Gujarat (New Navsari) line

| Length | : | 288 km |
|----------------------|---|----------|
| Locations | : | 798 Nos. |
| Foundation completed | : | 27 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 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. 765/400kV 3x1500MVA Ahmedabad New SS with 1x330MVAr 765kV Bus Reactor & 1x125MVAr 400kV Bus Reactor

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

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

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

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

| : | |
|---|--------|
| : | |
| : | |
| : | |
| : | Mar'25 |
| : | Mar'25 |
| | :: |

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

Background

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

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

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

Scope of works under Khavda Potential RE project:

Transmission Line

1. 765KV D/C Banaskantha-Ahmedabad line

Substation

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

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

| EPC awarded on | : | 10.03.23 - 28.03.23 |
|------------------------------|---|---------------------|
| Scheduled Date of Completion | : | Mar'25 |

Status of progress of Transmission Line:

1. 765KV D/C Banaskantha-Ahmedabad line

| Length | : | 134.6km |
|----------------------|---|----------|
| Locations | : | 348 Nos. |
| Foundation completed | : | 25 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. 765kV line bays at Banaskantha S/s for 765kV D/C Banaskantha-Ahmedabad line

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

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

| Land Acquisition | : | |
|----------------------|---|--------|
| 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:

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

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

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

Scope of works under KPS2 project:

Substation

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

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

Status of progress of Substation and Bay Extensions:-

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

| Land Acquisition | : | Completed |
|----------------------|---|-----------|
| 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

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

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

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

Scope of works under KPS3 project:

Transmission Line

1. 765KV D/C KPS2-KPS3 line

Substation

- 2. 765/400kV 3x1500MVA KPS-3 S/s with 1x330MVAr 765kV Bus Reactor & 1x125MVAr 400kV Bus Reactor
- 3. 2 Nos. 765kV Line Bays at KPS-2 for 765kV D/C KPS-2 KPS3 line

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

:

Status of progress of Transmission Line:

1. 765KV D/C KPS2-KPS3 line

| Length | : | 15.2 km |
|----------------------|---|---------|
| Locations | : | 40 Nos. |
| Foundation completed | : | |
| Towers erected | : | |
| Stringing completed | : | |
| Scheduled COD | : | Dec'24 |
| Anticipated COD | : | Dec'24 |

Status of statutory approvals:

| River Crossings | : Survey in progress |
|---------------------------|----------------------|
| Power line crossing | : Survey in progress |
| Railway crossing | : Survey in progress |
| National Highway Crossing | : Survey in progress |

Status of progress of Substation and Bay Extensions:-

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

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

3. 2 Nos. 765kV Line Bays at KPS-2 for 765kV 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

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

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

Scope of works under ER-WR Interconnection project:

Transmission Line

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

Substation

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

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

Status of progress of Transmission Line:

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

68km

Length :

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

| : | Available |
|---|-----------|
| : | |
| : | |
| : | |
| : | Mar'25 |
| : | Mar'25 |
| | : |

3. 2 Nos. 400kV Line bays at Jagdalpur (CSPTCL) SS for 400kV 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 |

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

Background

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

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

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

Transmission Line

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

Substation

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

| Special Purpose Vehicle (SPV) subsidiary of POWERGRID) | : | Raipur Pool Dhamtari Transmission Limited(A |
|---|---|---|
| Did Drawer Consultantes (DDC) | | DECCI |

| Bid Process Coordinator (BPC) | : | PFCCL |
|--------------------------------------|---|-----------|
| 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 | : | |
| Execution plan submitted to CEA | : | |
| NIT issued on | : | |
| EPC awarded on | : | |
| Scheduled Date of Completion | : | Sep'24 |

Status of progress of Transmission Line:

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

| Length | : | |
|----------------------|---|--------|
| Locations | : | 225 |
| Foundation completed | : | |
| 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. 400kV Line bays at Raipur Pool (POWERGRID) S/s for termination of Raipur Pool-Dhamtari 400KV (Q) D/C line

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

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

| Land Acquisition | : | Available |
|----------------------|---|-----------|
| Civil work completed | : | |
| 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

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

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

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

Substation

- 1. Creation of 220KV level at 765/400KV Dharamjaigarh S/s with installation of 2x500MVA, 400/220 KV ICTs along with associated bays
- 2. 2 Nos. 220KV line bays at Dharamjaigarh S/s for termination of 220KV D/c Dharamjaigarh-Chhuri line

| General Details Special Purpose Vehicle (SPV) subsidiary of POWERGRID) | : | Dharamjaigarh Transmission Limited(A |
|---|---|--------------------------------------|
| Bid Process Coordinator (BPC) | : | PFC |
| 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 220KV level at 765/400KV Dharamjaigarh S/s with installation of 2x500MVA, 400/220 KV ICTs along with associated bays

| Land Acquisition | : | Available |
|----------------------|---|-----------|
| Civil work completed | : | 12% |

| Equipment supplied | : | |
|--------------------|---|--------|
| Equipment erection | : | |
| Scheduled COD | : | Mar'25 |
| Anticipated COD | : | Mar'25 |

2. 2 Nos. 220KV line bays at Dharamjaigarh S/s for termination of 220KV D/c Dharamjaigarh-Chhuri line

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

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

Background

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

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

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

Scope of Transmission Project-

Transmission Line

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

Substation

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

General Details

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

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

Status of progress of transmission project:-

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

| 300 km |
|----------|
| 786 Nos. |
| 23 Nos. |
| 0 Nos. |
| 0 km |
| Sep'24 |
| Sep'24 |
| |

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. Extension of 765kV Bhadla II Substation

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

2. Extension of 765kV Sikar II Substation

| Available |
|-----------|
| |
| |
| |
| |

| Scheduled COD | : | Sep'24 |
|-----------------|---|--------|
| Anticipated COD | | Sep'24 |

Sterlite Power Transmission Ltd.

17. Additional 400kV Feed to Goa and Additional System for Power Evacuation from Generation Projects pooled at Raigarh (Tamnar) Pool

Background

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

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

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

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

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

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

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

Scope of transmission project

- 1. LILO of one ckt. of Narendra (existing) Narendra (New) 400kV D/c quad line at Xeldem
- 2. Xeldem Mapusa400kV D/c (quad) line
- 3. Xeldem (existing) Xeldem (new) 220kV D/C line
- 4. Establishment of 2x500MVA, 400/220kV substation at Xeldem
- 5. Dharamjaygarh Pool section B Raigarh (Tamnar) Pool 765kV D/c line

General Details

| Special Purpose Vehicle | : | Goa-Tamnar Transmission Project Limited (Sterlite Grid 5 Limited; a subsidiary of Sterlite Power Transmission Limited) |
|-----------------------------------|---|--|
| Bid Process Coordinator (BPC) : | : | Power Finance Corporation |
| Estimated Cost (Rs. 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 : | : | 28.06.2017 |
| (TSA) | | |
| 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) 400kV D/C Quad line at Xeldem

| Length | : | 196 CKm |
|----------------------|---|----------------|
| Locations | : | 249 Nos. |
| Foundation completed | : | 70 Nos. |
| Tower erected | : | 0 Nos. |
| Stringing completed | : | 0 ckm |
| Scheduled COD | : | Nov'21/Jul'22* |
| Anticipated COD | : | May'25 |

Constraints/Approval if any:

- 1. Delay in grant of Forest clearance for Diversion of 177.091 Ha of forest land. The Proposal was forwarded by Nodal Officer to Govt of Karnataka and the State Govt had returned the proposal to 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) 400kV D/C line at Xeldem (XN line). SC vide its order in hearing dated 07.04.2022 has approved the

recommendation made by CEC and directed GTTPL to take suitable steps in accordance with the recommendation made therein.

- 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, resubmited 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-orridor to GED, Goa and KPTCL, Karnataka, permission received for GED Portion. Permission from KPTCL is awaited. In principal approval received from KPTCL On 08.09.2022.
- 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.
- 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.

Status of statutory approvals:

Forest area

| I of est uf eu | | |
|-----------------------------------|---|---|
| Details of Tr. Line Falling under | : | |
| Forest | | |
| Locations | : | 97 Nos. ; Length : 39.94 Kms |
| Forest area (Ha) | : | 185.923 На |
| 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 25.08.2022accepted by Project Screening committee on 22 nd Nov'2022. FDP is currently at DFO North Goa. |
| | | Karnataka Forest : DFO Dandeli vide letter dated 26.05.2023 provided the concurrance of route. Modified FDP submitted on 03.07.2023 at all the divisions. Currently, the proposal is with DFO for part-II processing. |

Wildlife area

| Details of Tr. Line Falling under Forest Locations Wildlife area (Ha) Wildlife proposals submitted on Current status | : | 36 Nos. ; Length : 13.95 Kms 64.347 Ha Wild Life Goa :-25 Sep'22 Wild Life Karnataka : 20th Jul'22 GOA: Wild Life proposal submitted on 25.09.2022. FDP is currently at DFO North Goa. Karnataka: Revised proposal submitted on 20th July'22 at DFO Dandeli. Modified FDP submitted |
|---|---|--|
| | | on 03.07.2023 at all the divisions. Currently, the proposal is with DFO for part-II processing. |
| 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. |
| River Crossings | | |
| Total No. of crossings | : | 0 Nos. |
| Proposal submitted | : | 0 Nos. |
| Approval obtained | : | 0 Nos. |
| PTCC approval | | |
| Proposal submitted to Defence | : | Yes |
| Proposal submitted to BSNL | : | Yes |
| Proposal submitted to Railways | : | Yes |
| Current status | : | Received CEA (PTCC) recommendation for Goa |
| | | portion and received PTCC Approval for Karnataka Portion. (Revised approval Required due to change as per CEC route) |
| Defence/Civil Aviation | | |
| Proposal submitted to Defence/Civil | : | Yes proposal submitted |
| Aviation Current Status | : | Approved (Revised approval Required due to change as per CEC route) |

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

| Length | : | 105.488 CKm |
|----------------------|---|----------------|
| Locations | : | 141 Nos. |
| Foundation completed | : | 108 Nos. |
| Tower erected | : | 75 Nos. |
| Stringing completed | : | 3.09 Ckm |
| Scheduled COD | : | May'21 /Jan22* |
| Anticipated COD | : | Jun'24 |

Constraints/Approval if any:

- The progress is suffered due to petition filed by Goa Foundation in Central Empowered Committee (CEC) constituted by Supreme court and High Court of Mumbai & Goa. Central Empowered Committee (CEC) has submitted their report to Supreme Court on 23rd April 2021 and have cleared 400kV D/C Xeldem – Mapusa Line.
- 2. 9 Location are under Right of way 6 Loc in Amona,1 Loc in Piligaon, 1 loc in Karapur and 1 loc. In Virdi Village) of Bicholim Taluka of North Goa District.

Status of statutory approvals:

| Forest | : : : : | 29 Nos.; Length : 7.991 Kms (Changed due to change in SS location) 36.39 Ha. Goa : 01 July'18 Stage-1, Working permission and Stage-2 Approval Received. As per recent Supreme Court order dated 03-06-2022, "No. new permanent structure shall be permitted to come up for whatsoever the purpose within the ESZ". XM Line is falling in ESZ of Bondla wild life sanctuary. Revised survey avoiding ESZ. Revised proposal submitted on 26.09.2022. Proposal has been accepted by Project Screening Committee on 22nd Nov'2022. Part II & Part III processing completed. Currently Proposal is with Secretary (forest)for processing. |
|---|---------|---|
| Wildlife area Details of Tr. Line Falling under Forest Locations | : | N/A |

:

:

:

Power line crossing

Wildlife area (Ha)

Current status

Wildlife proposals submitted on

| 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. |
| Approval obtained | • | 5 1105. |
| 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 | : | Yes proposal submitted |
| Aviation | | |
| Current Status | : | Approved (Revised approval Required due to |
| | | change in Substation Location) |
| 3. Dharamiaygarh Pool Section | в- | Raigarh (Tamnar) Pool 765kV D/C Line |
| Length | : | 137 CKm |
| Locations | • | 179 Nos. |
| Scheduled COD | : | July '21 /Mar '22* |
| Anticipated COD | : | 23.06.2022 (Line Charging Completed) |
| 1 | | |

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

| Length | : | 44.19 CKm |
|----------------------|---|-----------------|
| Locations | : | 65 Nos. |
| Foundation completed | : | 31 Nos. |
| Tower erected | : | 0 Nos. |
| Stringing completed | : | 0 Ckm |
| Scheduled COD | : | May'21 /Jan'22* |
| Anticipated COD | : | Jun'24 |

Constraints/Approval if any:

- The progress is suffered due to petition filed by Goa Foundation in Central Empowered Committee (CEC) constituted by Supreme court and High Court of Mumbai & Goa. Central Empowered Committee (CEC) has submitted their report to Supreme Court on 23rd April 2021 and have cleared 220kV D/C Xeldem – Xeldem Line and Working permission received on 19th Aug 2021.
- 2. 2 Locations are under the Right of way (1 Loc in Xeldem Village of Quepem Taluka, 1 Loc in Sanvordem Village of Sanguem Taluka), of South Goa District.

Forest area Details of Tr. Line Falling under : Forest 33 Nos. ; Length : 11.45 Kms Locations : : 40.09 Ha Forest area (Ha) Forest proposals submitted on Goa : 02 Aug'18 : TSP has submitted revised proposal for avoiding Current status : ESZ, on 26.09.2022 in line with above SC order. Proposal accepted by Project Screening committee on 22nd Nov'2022. Part-II & Part-III processing completed, Currently Proposal is with Secretary (Forest), Goa for further processing. Wildlife area Details of Tr. Line Falling under : N/A Forest Locations : Wildlife area (Ha) : Wildlife proposals submitted on : Current status : **Power line crossing** Total No. of crossings : 3 Nos. Proposal submitted : 3 Nos. Approval obtained : 3 Nos. **Railway crossing** Total No. of crossings : 1 Nos. Proposal submitted : 1 Nos. Approval obtained : 1 Nos. **National Highway / SH Crossing** Total No. of crossings : 1 Nos. Proposal submitted : 1 Nos. Approval obtained : 1 Nos. **River Crossings** Total No. of crossings : 1 Nos. Proposal submitted : 1 Nos. Approval obtained : 1 Nos.

Status of statutory approvals:

| PTCC approval | | |
|--------------------------------|---|--------------------|
| Proposal submitted to Defence | : | Yes |
| Proposal submitted to BSNL | : | Yes |
| Proposal submitted to Railways | : | Yes |
| Current status | : | Pending |
| Defence/Civil Aviation | | |
| 1 | : | Proposal submitted |
| Aviation | | |
| Current Status | : | Approved |

5. 2x500 MVA, 400/220 kV S/s at Xeldem (Goa)

| Land Acquired | : | 100 % |
|----------------------|---|-----------------|
| Civil work completed | : | 55.5% |
| Equipment supplied | : | 59.66 % |
| Equipment erection | : | 9.54 % |
| Scheduled COD | : | May'21/ Jan'22* |
| Anticipated COD | : | Jun'24 |

Constraints/Approval if any:

- 1. The construction work will be started after getting Conversion Sanad from District Collector, South Goa.
- 2. The progress is suffered due to petition filed by Goa Foundation in Central Empowered Committee (CEC) constituted by Supreme court and High Court of Mumbai & Goa. Central Empowered Committee (CEC) has submitted their report to Supreme Court on 23rd April 2021 and have cleared 400/220kV Xeldem Substation.

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

Background :

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

Scope of transmission project

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

General Detail

| Special Purpose Vehicle | : | 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 | : | 28.02.2019 |
| (TSA) | | |
| 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 400kV D/C line

| Length | : | 230.94 CKm |
|----------------------|---|-----------------------------------|
| Locations | : | 278 Nos. |
| Foundation completed | : | 94 Nos. |
| Tower erected | : | 78 Nos. |
| Stringing completed | | 1.68 Ckm |
| Scheduled COD | : | 11 th Nov 2022/ Feb'23 |

Constraints/Approval if any:

- 1. Delay due to stay interim order from Hon'ble High Court dated 19/11/2021 has directed UKTL to No.t take any step to lay the subject transmission line.
- 2. As per HC order dated 20.03.2023, survey work shall be conducted in the presence of petitioners of WP 19432/2022 and WP 3186/2023, and they shall assist the survey work. Survey report shall be placed on this court before next date of hearing 06.04.2023, based on final report submitted to DC Dakshina kannada on dtd. 19.04.2023. Survey report submitted to the high court and further hearing date yet to confirm.
- 3. Hon'ble HC of Karnataka vide its final Order dated 29.03.2023 has quashed the prior approval by CEA under Section 68 citing the reason that central government in delegating the authority of granting prior approval to CEA under section 68 of the Act for laying overhead transmission lines is one without authority of law. Further, the Order clearly mentions that the delegate canNo.t sub-delegate an essential function of decision making. Further, in this regard, clarification has been issued on 21.04.2023 by the Hon'ble HC of Karnataka that the Order is confined only on land of Petitioner of WP20819/2021. Appeal submitted to high court and further hearing completed on 14.06.2023. Vide order dated 27.07.2023 Hon'ble High court of Karnataka has dismissed the orders passed for WP 20819/2021 on dated 29.03.2023 i.e. approval under section 68 for petition land has been treated valid.
- 4. Karnataka: Stage-I received on 27.10.2022. Tree Cutting and working permission pending. Kerala: Stage-I received on 27.10.2022. Tree Cutting clearance pending, Demand Notices received and payment for demand No.te made on 21.12.2022. As the No.n-forest CA land was already approved by the REC before issuance of Stage-I clearance, the new degraded forest land also needs to be approved by the REC before replacing it with the No.n-forest CA land. The matter was discussed in 30th FRCM of IRO Bengaluru in which MoEFCC directed Nodal Officer to submit a request letter to MoEFCC regarding this change. MoEFCC put the case in upcoming REC meeting and conveyed the approval for regularizing the same. Forest tree cutting permission issue is pending with forest

Status of statutory approvals:

department.

| Forest area | | |
|-----------------------------------|---|---|
| Details of Tr. Line Falling under | : | |
| Forest | | |
| Locations | : | 24 Nos. ; Length : 9.45 Kms |
| Forest area (Ha) | : | 48.152 Ha |
| Forest proposals submitted on | : | Kerela : 03 Nov'20 |
| | | Karnataka : 18 Dec'20 |
| Current status | : | Kerela : Stage-I received on 27.10.2022. Tree cutting clearance yet to receive. |
| | | Karnataka : Stage-I received on 27.10.2022. |
| | | Tree cutting clearance yet to receive. |

| Wildlife area Details of Tr. Line Falling under Forest | : | N/A |
|---|---|--|
| Locations | : | |
| Wildlife area (Ha) | : | |
| Wildlife proposals submitted on | : | |
| Current status | : | |
| Power line crossing | | |
| Total No. of crossings | : | 8 Nos. |
| Proposal submitted | : | 8 Nos. |
| Approval obtained | : | 7 Nos. |
| Railway crossing | | |
| Total No. of crossings | : | 1 Nos. |
| Proposal submitted | • | 1 Nos. |
| Approval obtained | : | 1 Nos. |
| National History / SH Cussing | | |
| National Highway / SH Crossing | | 10 Nos. |
| Total No. of crossings | • | |
| Proposal submitted | : | 9 Nos. 7 Nos. |
| Approval obtained | • | / NOS. |
| River Crossings | | |
| Total No. of crossings | : | 0 Nos. |
| Proposal submitted | : | 0 Nos. |
| Approval obtained | : | 0 Nos. |
| PTCC approval | | |
| Proposal submitted to Defence | : | Yes |
| Proposal submitted to BSNL | : | Yes |
| Proposal submitted to Railways | : | Yes |
| Current status | : | PTCC Proposal submitted to DET, (PTCC), |
| | | Chennai. DET(PTCC), Chennai has registered the |
| | | proposal and forwarded to concerned offices i.e. |
| | | BSNL & railway. |
| | | (PTCC)Railway- 1. Southern railway-NOC |
| | | forwarded to DE, |
| | | 4. NOC from Southern Railway-Chennai has been received |
| Defence/Civil Aviation | | · · · · · · · · · · · · · · · · · · · |
| Current Status | : | Defence Aviation : Approved |
| Current Status | • | Civil Aviation : Approved |
| | | |
| | | |

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

| Land Acquired | : | 100 % |
|----------------------|---|---------------------------|
| Civil work completed | : | 95.66% |
| Equipment supplied | : | 100% |
| Equipment erection | | 95.95% |
| Scheduled COD | : | 11 th Nov 2022 |
| Anticipated COD | : | Dec'24 |

Constraints / approval; if any:

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

| Land Acquired | : | Space will be provided by UPCL |
|----------------------|---|---------------------------------------|
| Civil work completed | : | 100% |
| Equipment supplied | : | 100 % |
| Equipment erection | : | 97.19% |
| Scheduled COD | : | 11 th Nov 2022/ Feb'23 |
| Anticipated COD | : | Test charging completed on 30.07.2023 |
| | | |

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

Background -

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

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

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

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

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

Scope of transmission project-

- (i) LILO of second circuit of Zerda –Ranchodpura 400 kV D/c line at Banaskantha (PG) PS
- (ii) LILO of KAPP Vapi 400 kV D/c line at Vapi II
- (iii) Vapi-II Sayali D/C 220kV D/C line
- (iv) Padghe (PG) Kharghar 400 kV D/c (quad) line to be terminated into one ckt. of Kharghar Ghatkopar 400 kV D/c (quad) line (thus forming Padghe (PG) Kharghar 400 kV S/c (quad) line, Padghe (PG) Ghatkopar 400 kV S/c (quad) line)
- (v) LILO of Padghe (PG) Ghatkopar 400kV S/c line at Navi Mumbai GIS (PG)
- (vi) LILO of Apta Kalwa/Taloja 220 kV D/c line (i.e. Apta Kalwa and Apta Taloja 220kV lines) at Navi Mumbai (PG)
- (vii) Pare HEP (NEEPCO) (from near LILO point)- North Lakhimpur (AEGCL) 132 kV D/c line (with ACSR Zebra conductor) along with 2 No. 132 kV line bays at North Lakhimpur end
- (viii) LILO of one circuit of Pare HEP North Lakhimpur (AEGCL) 132kV D/c line (with ACSR Zebra) at Nirjuli (POWERGRID) substation.
- (ix) Establishment of 2 x 500 MVA, 400/220 kV S/s near Vapi / Ambheti (Vapi II)
- (x) 125 MVAr bus reactor at Vapi II Substation

General Detail

| Special Purpose Vehicle | : | Mumbai Urja Marg Limited (erstwhile, Vapi II- |
|-------------------------------|---|---|
| | | North Lakhimpur Transmission Limited) |
| | | (Sterlite Grid 13 Limited; A Subsidiary of |
| | | Sterlite Power Trans. Limited) |
| Bid Process Coordinator (BPC) | : | PFCCL |

| Estimated Cost (Rs. 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 | : | 07.12.2018 |
| (TSA) | | |
| SPV acquisition | : | 23.06.2020 |
| Transmission License by CERC | : | 01.04.2021 |
| Tariff adoption by CERC | : | 01.04.2021 |
| Contract Performance Guarantee | : | 23.06.2020 |
| Clearance u/s 164 | : | 26.10.2021 |
| Execution plan submitted to CEA | : | 20.10.2020 |
| NIT issued on | : | |
| EPC contract awarded on | : | |
| Scheduled Date of Completion | : | Part-A : Oct-22, Part-B : Apr-23, Part-C : Dec- 23 & Dec-22, Part-D : Jun-23 |

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

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

| Length | : | 34.7 CKm |
|-----------------|---|--------------------------------|
| Locations | : | 51 Nos. |
| Scheduled COD | : | 23 Oct'22 |
| Anticipated COD | : | 29 Jun'22 (Charging Completed) |

$\underline{Part\ B}$ - Establishment of new substation at Vapi/Ambethi area and its associated transmission line

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

| Land Acquired | : | 100 % |
|----------------------|---|-------------|
| Civil work completed | : | 24.53% |
| Equipment supplied | : | 96.74% |
| Equipment erection | : | 0 % |
| Scheduled COD | : | 22-Apr-2023 |
| Anticipated COD | : | Mar-24 |

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

| Length | : | 0.314 CKm (As per revised substation location) |
|----------------------|---|--|
| Locations | : | 2 Nos. (As per revised substation location) |
| Foundation completed | : | 0 Nos. |
| Tower erected | : | 0 Nos. |
| Stringing completed | : | 0 Ckm |

| Scheduled COD | : | 22-Apr-2023 |
|-----------------|---|-------------|
| Anticipated COD | : | Mar-24 |

Status of statutory approvals:

| Forest area | | |
|-----------------------------------|---|------------------|
| Details of Tr. Line Falling under | : | N/A |
| Forest | | |
| Locations | : | |
| Forest area (Ha) | : | |
| Forest proposals submitted on | : | |
| Current status | : | |
| Wildlife area | | |
| Details of Tr. Line Falling under | : | N/A |
| Forest | | |
| Locations | : | |
| Wildlife area (Ha) | : | |
| Wildlife proposals submitted on | : | |
| Current status | : | |
| Power line crossing | | |
| Total No. of crossings | : | 0 Nos. |
| Proposal submitted | : | 0 Nos. |
| Approval obtained | : | 0 Nos. |
| Railway crossing | | |
| Total No. of crossings | : | 0 Nos. |
| Proposal submitted | | 0 Nos. |
| Approval obtained | : | 0 Nos. |
| National Highway / SH Crossing | | |
| Total No. of crossings | : | 0 Nos. |
| Proposal submitted | : | 0 Nos. |
| Approval obtained | : | 0 Nos. |
| River Crossings | | |
| Total No. of crossings | : | 0 Nos. |
| Proposal submitted | : | 0 Nos. |
| Approval obtained | : | 0 Nos. |
| PTCC approval | | |
| Proposal submitted to Defence | : | Yes |
| Proposal submitted to BSNL | : | Yes |
| Proposal submitted to Railways | : | Yes |
| Current status | : | Registration con |

Registration completed in CEA and marking completed file forwared to SDE PTCC, Ahemdabad. DG Signal: NOC issued on 11-07-2022

Railway: NOC issued on 26-08-2022

Defence/Civil Aviation

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

4. 125 MVAr bus reactor at Vapi – II Substation

| Land Acquired | : | 100 % |
|----------------------|---|-------------|
| Civil work completed | : | 85% |
| Equipment supplied | : | 100% |
| Equipment erection | : | 0 % |
| Scheduled COD | : | 22-Apr-2023 |
| Anticipated COD | : | Mar-24 |

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

| Length | : | 45.4 ckm |
|----------------------|---|-------------|
| Locations | : | 77 Nos. |
| Foundation completed | : | 63 Nos. |
| Tower erected | : | 55 Nos. |
| Stringing completed | : | 13.32 ckm |
| Scheduled COD | : | 22-Apr-2023 |
| Anticipated COD | : | Mar-24 |

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 Nos. |
| Proposal submitted | : | 0 Nos. |
| Approval obtained | : | 0 Nos. |
| National Highway / SH Crossing | | |
| Total No. of crossings | : | 1 Nos. |
| Proposal submitted | : | 1 Nos. |
| Approval obtained | : | 1 Nos. |
| | | |
| River Crossings | | |
| Total No. of crossings | : | 0 Nos. |
| Proposal submitted | : | 0 Nos. |
| Approval obtained | : | 0 Nos. |
| PTCC approval | | |
| Proposal submitted to Defence | : | Yes |
| Proposal submitted to BSNL | : | Yes |
| Proposal submitted to Railways | : | Yes |
| Current status | : | Proposal submitted, Reregistration completed in |
| | | CEA and marking completed, file has been |
| | | forwarded to SDE PTCC, Ahmedabad. DG |
| | | Signal: NOC issued on 11-07-2022 |
| | | Railway: NOC issued on 26-08-2022 |
| Defence/Civil Aviation | | |
| Proposal submitted to Defence/Civil | : | Proposal submitted |
| Aviation | | L |
| Current Status | : | Defence Aviation : NOC received |
| | | Civil Aviation : NOC received |
| | | |

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

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

| Length | : | 140 CKm |
|----------------------|---|-------------|
| Locations | : | 222 Nos. |
| Foundation completed | : | 105 Nos. |
| Tower erected | : | 82 Nos. |
| Stringing completed | : | 1.928 Ckm |
| Scheduled COD | : | 22-Dec-2023 |
| Anticipated COD | : | Jun-2024 |

Current Status: Detailed Survey completed

Constraints / Approval; if any: 1. ROW issues at all No.n-forest locations (16 locations in Raigad and 68 locations in Thane).

| Forest area Details of Tr. Line Falling under Forest Locations Forest area (Ha) Forest proposals submitted on Current status | :: | 67 Nos. ; Length : 26.09 Kms 119.99 Ha MH: 03 Jun'21, Hard copy submission 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 | • | 18 Nos. |
| Approval obtained | • | 18 Nos. |
| Approvar obtained | • | 101105. |
| 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 | : | 6 Nos. |
| Approval obtained | : | 2 Nos. |
| 11 | | |
| River Crossings | | |
| Total No. of crossings | : | 4 Nos. |
| Proposal submitted | : | 4 Nos. |
| Approval obtained | : | 0 Nos. |
| 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 |
|---|---|---|
| Current Status | : | Defence Aviation Proposal yet to submit Civil Aviation under scrutiny at authority |

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

| Length | : | 38 CKm |
|----------------------|---|--------------|
| Locations | : | 60 Nos. |
| Foundation completed | : | 23 Nos. |
| Tower erected | : | 21 Nos. |
| Stringing completed | : | 2.144 ckm |
| Scheduled COD | : | 22-Dec-2023 |
| Anticipated COD | : | 22-June-2024 |

Current Status: Detailed Survey completed.

Constraints / Approval; if any:

1. ROW issues at all No.n-forest locations (27 Locations in Raigad).).

Status of statutory approvals:

| Forest area Details of Tr. Line Falling under Forest Locations Forest area (Ha) Forest proposals submitted on Current status | ••••••••••••••••••••••••••••••••••••••• | 23 Nos. ; Length : 7.6 Kms 35.224 Ha MH : 03 Jun'21, Hard copy submission 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 | : | N/A |
| Forest | | |
| 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 Nos. |
| Proposal submitted | : | 0 Nos. |
| Approval obtained | : | 0 Nos. |

National Highway / SH Crossing

| Total No. of crossings | : | 0 Nos. |
|---|---|---|
| Proposal submitted | : | 0 Nos. |
| Approval obtained | : | 0 Nos. |
| River Crossings | | |
| Total No. of crossings | : | 0 Nos. |
| Proposal submitted | : | 0 Nos. |
| Approval obtained | : | 0 Nos. |
| PTCC approval | | |
| Proposal submitted to Defence | : | Submitted 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 |
| Current Status | : | Defence Aviation Proposal yet to submit Civil Aviation under scrutiny at authority |

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

| Length | : | 4.8 CKm |
|----------------------|---|-------------|
| Locations | : | 8 Nos. |
| Foundation completed | : | 0 Nos. |
| Tower erected | : | 0 Nos. |
| Stringing completed | : | 0 Ckm |
| Scheduled COD | : | 22-Dec-2022 |
| Anticipated COD | : | Dec-2023 |
| | | |

Current Status: Detailed Survey completed

Constraints / Approval; if any: 1. ROW issues at all 8 locations.

Status of statutory approvals:

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

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

| Locations | | |
|-------------------------------------|-----|---------------------------|
| Wildlife area (Ha) | : | |
| Wildlife proposals submitted on | • | |
| Current status | • | |
| Current Status | • | |
| Power line crossing | | |
| Total No. of crossings | : | 0 Nos. |
| Proposal submitted | : | 0 Nos. |
| Approval obtained | : | 0 Nos. |
| Railway crossing | | |
| Total No. of crossings | : | 0 Nos. |
| Proposal submitted | : | 0 Nos. |
| Approval obtained | : | 0 Nos. |
| National Highway / SH Crossing | | |
| Total No. of crossings | : | 0 Nos. |
| Proposal submitted | : | 0 Nos. |
| Approval obtained | : | 0 Nos. |
| River Crossings | | |
| Total No. of crossings | : | 0 Nos. |
| Proposal submitted | : | 0 Nos. |
| Approval obtained | : | 0 Nos. |
| PTCC approval | | |
| Proposal submitted to Defence | : | No |
| Proposal submitted to BSNL | : | No |
| Proposal submitted to Railways | : | No |
| Current status | : | Proposal is yet to submit |
| Defence/Civil Aviation | | |
| Proposal submitted to Defence/Civil | : | No |
| Aviation | | |
| Current Status | : | Proposal is yet to submit |
| Part D - North Eastern Region Stren | gth | ening Scheme – IX |
| | | |

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

| Length | : 61.99 CKm |
|---------------|---------------|
| Locations | : 91 Nos. |
| Scheduled COD | : 22-Jun-2023 |
| Actual COD | : Aug-23 |

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

| Scheduled COD | : | 22-Jun-2023 |
|---------------|---|-------------|
|---------------|---|-------------|

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

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

20. 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 132kV S/s at Khlierhat (POWERGRID). Both of these ISTS substations are on eastern part of Meghalaya. Due to increasing power demand and for providing reliable power supply in the western part of Meghalaya, necessity of 220kV grid substation in the East Garo Hills district of western Meghalaya was felt to further strengthen its interconnection with grid, which is presently connected through 132 lines in radial manner.

System Studies have been carried out for 2022-23 timeframe. The anticipated peak demand of Meghalaya for 2022-23 timeframe is 478MW and the envisaged installed capacity of about 360MW, majority of these are from hydro generations. In low Hydro scenarios, the dispatch from these stations are expected to be limited to about 180MW, thereby creating a deficit in the supply of about 300MW. Accordingly, to simulate the worst case, low hydro peak demand scenario has been chosen to study the requirement of additional connections to meet the growing demand of Meghalaya. Due to the proximity of Bongaigaon TPS from the western part of Meghalaya, a large quantum of power flows through BTPS – Agia – Medinipathar – Nangalbibra corridor making it N-1 No.n-compliant.

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

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

Scope of transmission project

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

General Details

| Ocheral 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 | : | 06.07.2021 |
| (TSA) | | |
| 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 400kV D/c (Twin ACSR Moose) line (initially operated at 220kV)

| I / | |
|----------------------|-------------|
| Length | : 245 CKm |
| Locations | : 310 Nos. |
| Foundation completed | : 230 Nos. |
| Tower erected | : 112 Nos. |
| Stringing completed | : 28.61 ckm |
| Scheduled COD | : Dec'23 |
| Anticipated COD | : Jun'24 |
| | |

Constraints/Approval if any:

1. Facing severe ROW issues at 3 locations (AP40,41/1 & 46/3) in Dhubri Distric. 08 locations (AP1 to AP 7 & AP27) in Kokrajhar District, 05 locations (AP62, AP63, AP64, AP65 & AP66) in Bongaigaon District and 01 locations (AP86) in Goalpara District.

Status of statutory approvals:

Forest area

| Details of Tr. Line Falling under Forest | : | |
|---|---|--|
| Locations | : | 53No.s ; Length : 20.58kms |
| Forest area (Ha) | : | 93.188Ha |
| 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

| Details of Tr. Line Falling under | : | NIL |
|-------------------------------------|-------|---|
| Forest | | |
| Locations | : | NIL |
| Wildlife area (Ha) | : | NA |
| Wildlife proposals submitted on | : | NA |
| Current status | : | |
| Power line crossing | | |
| Total No. of crossings | : | 13 |
| Proposal submitted | : | 13 |
| Approval obtained | : | 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 | : | 0 |
| River Crossings | | |
| Total No. of crossings | : | 1 |
| Proposal submitted | : | 1 |
| Approval obtained | : | 1 |
| PTCC approval | | |
| Proposal submitted to Defence | : | Yes |
| Proposal submitted to BSNL | : | Yes |
| Proposal submitted to Railways | : | Yes |
| Current status | : | Proposal submitted on 2nd May 2023 |
| Defence/Civil Aviation | | |
| Proposal submitted to Defence/Civil | : | Civil aviation approved |
| Aviation | | Defence Aviation proposal submitted on 07.08.2023 |
| 2. Hatsinghmari (Assam) – Amnati | (M | eghalaya) 132kV (Single ACSR Panther) D/c line |
| Length | (1,1) | 37 CKm |
| Locations | • | 57 Nos. |
| Foundation completed | : | 25 Nos. |
| | • | |

| Foundation completed | : | 25 Nos. |
|----------------------|---|---------|
| Tower erected | : | 4 Nos. |
| Stringing completed | : | 0 Ckm |
| Scheduled COD | : | Dec'23 |
| Anticipated COD | : | Jun'24 |
| Anticipated COD | • | Juli 24 |

Status of statutory approvals:

| Forest area | | |
|--|---|--|
| Details of Tr. Line Falling under | : | N/A |
| Forest Locations | | 0 Nos. ; Length : 0 Kms |
| Forest area (Ha) | • | 0 Nos., Lengur . 0 Kins |
| Forest proposals submitted on | : | |
| Current status | : | |
| Wildlife area | | |
| Details of Tr. Line Falling under | : | N/A |
| Forest | | |
| Locations | : | |
| Wildlife area (Ha) | : | |
| Wildlife proposals submitted on | : | |
| Current status | : | |
| Power line crossing | | |
| Total No. of crossings | : | 0 |
| Proposal submitted | : | N/A |
| Approval obtained | : | N/A |
| Railway crossing | | |
| Total No. of crossings | : | 0 |
| Proposal submitted | : | N/A |
| Approval obtained | : | N/A |
| National Highway / SH Crossing | | |
| Total No. of crossings | : | 0 |
| Proposal submitted | : | N/A |
| Approval obtained | : | N/A |
| River Crossings | | |
| Total No. of crossings | : | 0 |
| Proposal submitted | : | N/A |
| Approval obtained | : | N/A |
| PTCC approval | | |
| Proposal submitted to Defence | : | Yes |
| Proposal submitted to BSNL | : | Yes |
| Proposal submitted to Railways | : | Yes |
| Current status | : | Proposal submitted on 2nd May 2023 |
| Defence/Civil Aviation | | |
| Proposal submitted to Defence/Civil Aviation | : | Civil Aviation approved |
| Current Status | : | Defence Aviation Proposal submitted on 07.08.2023. |

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

| Land Acquired | : | 88% |
|----------------------|---|--------|
| Civil work completed | : | 41 % |
| Equipment supplied | : | 63.3 % |
| Equipment erection | : | 0 % |
| Scheduled COD | : | Dec'23 |
| Anticipated COD | : | Jun'24 |

Constraints/Approval if any:

Land acquisition for balance 3.4 Acre for S/S in Nengkhra, Distt. East Garo Hills, Meghalaya Land registry for 26.56 acre has been completed on 7th Sep'2022.

18.07.2023: DC East Garo Hills forwarded the application for the Acquisition of 1.65 acres land to the Secretariat Govt. of Meghalaya.

Landowner of balance 1.85 acres of land (one owner) are No.t willing to part with their lands.

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

| Land Acquired | : Spac | ce provided by POWERGRID |
|----------------------|--------|--------------------------|
| Civil work completed | : 80 % | 6 |
| Equipment supplied | : 51.0 | 5 % |
| Equipment erection | : 0 % | |
| Scheduled COD | : Dec | '23 |
| Anticipated COD | : Jun' | 24 |
| | | |

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

| Land Acquired | : Space provided by AEGCL |
|----------------------|---------------------------|
| Civil work completed | : 90 % |
| Equipment supplied | : 70 % |
| Equipment erection | : 67 % |
| Scheduled COD | : Dec'23 |
| Anticipated COD | : Jun'24 |
| | |

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

| 5 | | U |
|----------------------|---|--------------------------|
| Land Acquired | : | Space provided by MePTCL |
| Civil work completed | : | 96 % |
| Equipment supplied | : | 70 % |
| Equipment erection | : | 46 % |
| Scheduled COD | : | Dec'23 |
| Anticipated COD | : | Jun'24 |
| | | |

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

Background -.

A comprehensive transmission system for providing connectivity to three Hydra Electric Projects (HEPs) viz Pakaldul (1000MW), Kiru (624 MW) and Kwar (540 MW) of Chenab Valley Power Projects Limited (CVPPL) in Union Territory of Jammu and Kashmir was agreed in the 1st Northern Region Power Committee- Transmission Planning (NRPC (TP)) meeting held on 24/01/2020. It was also agreed that the above projects would be connected to a common pooling station through 400kV 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 400kV 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 - Kishenpur400kV S/c (Quad) line (stringing of second circuit of Dulhasti—Kishenpur 400kV from Kishtwar upto Kishenpur) along with bays at both ends was also agreed to be implemented under ISIS for transfer of 1000MW from Pakaldul HEP to NR on target region on Long-term Access (LTA) basis.

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

Further, in 2nd meeting of NRPCTP held on 01.09.2020, JKPDD had intimated that presently, there are three Nos. of 132/33kV 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 400/132kV transformer at Kishtwar Pooling Station was recommended to be combined with "Transmission system for evacuation of power from Pakaldul HEP in Chenab Valley HEPs - Connectivity System" which has already been No.tified by MoP in Gazette of India dated 25.09.2020 for implementation through TBCB.

Scope of transmission project

- Establishment of 400/132 kV pooling station at Kishtwar (GIS) along with Bus Reactors at Kishtwar pooling station by LILO of one circuit of Kishenpur -Dulhasti 400kV D/C (Quad) line (Single Circuit Strung)
- 2. LILO of one circuit of Kishenpur Dulhasti 400 kV D/c (quad) line at Kishtwar
- 3. 2 Nos. of 400kV bays at Kishtwar (GIS) for LILO of one circuit of Kishenpur -Dulhasti 400kV D/C (Quad) line (Single Circuit Strung
- 4. 1 No of 400kV line bay at Kishtwar (GIS) for 2nd Circuit stringing of Kishtwar Kishenpur section

- 5. 7x66.67 MVA I-Phase, 400/132 kV ICT along with associated bays at Kishtwar Pooling Station
- 6. 4 Nos. of 132kV line bays (GIS) at Kishtwar Pooling Station

General Detail

| Special Purpose Vehicle | : | Kishtwar Transmission Limited. (Sterlite Grid 24 Limited; a subsidiary of Sterlite Power Transmission Limited) |
|---------------------------------|---|--|
| Bid Process Coordinator (BPC) | : | PFC Consulting 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 | : | 17.02.2022* |
| (TSA) | | |
| SPV acquisition | : | 06.12.2022 |
| Transmission License by CERC | : | 12.05.2023 |
| Tariff adoption by CERC | : | 23.03.2023 |
| Contract Performance Guarantee | : | 05.12.2022 |
| Clearance u/s 164 | : | 31.08.2023. |
| Execution plan submitted to CEA | : | 27.12.2022 (Revised plan submitted on |
| | | 22.03.2023) |
| NIT issued on | : | - |
| EPC contract awarded on | : | 12.05.2023 |
| Scheduled Date of Completion | : | 01.04.2025 |

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

Status of progress of transmission project

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

| Length | • | : | 1.72 CKm |
|----------------------|---|---|----------|
| Locations | | : | 5 Nos. |
| Foundation completed | | : | NIL |
| Tower erected | | : | NIL |
| Stringing completed | | : | NIL |
| Scheduled COD | | : | 01Apr'25 |
| Anticipated COD | | : | 01Apr'25 |

Constraints/Approval if any:

Status of statutory approvals:

| Forest area | | |
|-----------------------------------|---|-----|
| Details of Tr. Line Falling under | : | NIL |
| Forest | | |
| Locations | : | NA |

| Wildlife areaDetails of Tr. Line Falling under:NILForestLocations:NAWildlife area (Ha):NAWildlife proposals submitted on:NACurrent status:Power line crossingTotal No. of crossings:Proposal submitted:NAApproval obtained:NAProposal submitted:NAApproval obtained:NAProposal submitted:NAApproval obtained:NAApproval obtained:NAApproval obtained:NAApproval obtained:NAApproval obtained:NAApproval obtained:NAApproval obtained:NAApproval obtained:NA | |
|--|-------|
| ForestLocations: NAWildlife area (Ha): NAWildlife proposals submitted on: NACurrent status:Power line crossingTotal No. of crossings: NILProposal submitted: NAApproval obtained: NARailway crossingTotal No. of crossings: NILProposal submitted: NAApproval obtained: NAProposal submitted: NAProposal submitted: NAMathematical No. of crossings: NILProposal submitted: NAProposal submitted: NAYeroposal submitted: NAProposal submitted: NA | |
| Wildlife area (Ha):NAWildlife proposals submitted on:NACurrent status::Power line crossing:NILProposal submitted:NAApproval obtained:NARailway crossing:NILProposal submitted:NAProposal submitted:NACurrent status:NAApproval obtained:NANa:NAProposal submitted:NAApproval obtained:NAState in the image of th | |
| Wildlife proposals submitted on Current status:NAPower line crossing Total No. of crossings:NILProposal submitted Approval obtained:NARailway crossing Total No. of crossings:NILProposal submitted tited timed:NARailway crossing Total No. of crossings:NILProposal submitted:NA | |
| Current status:Power line crossingNILTotal No. of crossings:NA:Approval obtained:NAApproval obtained:NARailway crossingTotal No. of crossings:NILProposal submitted:NIL:: <td< td=""><td></td></td<> | |
| Power line crossing:NILTotal No. of crossings:NILProposal submitted:NAApproval obtained:NARailway crossing:NILTotal No. of crossings:NILProposal submitted:NA | |
| Total No. of crossings:NILProposal submitted:NAApproval obtained:NARailway crossingTotal No. of crossings:Proposal submitted:NA | |
| Proposal submitted: NAApproval obtained: NARailway crossing: NILTotal No. of crossings: NILProposal submitted: NA | |
| Approval obtained: NARailway crossing: NILTotal No. of crossings: NILProposal submitted: NA | |
| Railway crossing Total No. of crossings : NIL Proposal submitted : NA | |
| Total No. of crossings: NILProposal submitted: NA | |
| Proposal submitted : NA | |
| - | |
| Approval obtained : NA | |
| | |
| National Highway / SH Crossing | |
| Total No. of crossings : NIL | |
| Proposal submitted : NA | |
| Approval obtained : NA | |
| River Crossings | |
| Total No. of crossings : NIL | |
| Proposal submitted : NA | |
| Approval obtained : 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 subm | itted |
| Defence/Civil Aviation | |
| Proposal submitted to Defence/Civil : NA Aviation | |
| Current Status : | |

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

- a. Establishment of 400/132 kV pooling station at Kishtwar (GIS) along with Bus Reactor at Kishtwar pooling station by LILO of one circuit of Kishenpur – Dulhasti 400kV 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 400/132kV ICT along with associated bays at Kishtwar pooling station
- e. 4Nos. of 132kV bays

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

Constraints/Approval if any:

- 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.

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

Background -

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

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

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

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

Scope of transmission project

- Fatehgarh-III Beawar 765kV D/C (2nd) along with 330MVAR Switchable line reactor for each circuit at each end of Fatehgarh-III– Beawar 765kV D/C line Switching equipment for 765 kV 330 MVAR switchable line reactor – 4 No.s. 765 kV, 330 MVAR Switchable line reactor- 4 No.s.
- 2. 2 No.s. of 765kV line bays at both at Beawar II & Fatehgarh-III Substation.

General Details

| Scherul 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. Crs) | : | 1359 |
| Levelized Tariff (Rs. Crs) | : | 135.72 |
| Request for Qualification | : | NA |
| Request for Proposal | : | 19.01.2022 |
| Letter of Intent | : | 03.03.2023 |
| Transmission Service Agreement | : | 01.08.2023 |
| (TSA) | | |
| SPV acquisition | : | 01.08.2023 |
| Transmission License by CERC | : | Petition filed on 05.08.2023 |
| | | |

| Tariff adoption by CERC Contract Performance Guarantee Clearance u/s 164 Execution plan submitted to CEA | Petition filed on 05.08.2023 27.07.2023 Under process |
|---|---|
| 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 203 locations.

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

| Length | : | 660 ckm |
|----------------------|---|----------|
| Locations | : | 800 Nos. |
| Foundation completed | : | 0 |
| Tower erected | : | 0 |
| Stringing completed | : | 0 ckm |
| Scheduled COD | : | Feb'25 |
| Anticipated COD | : | Feb'25 |

Constraints/Approval if any:

Status of statutory approvals:

| Forest a | rea |
|----------|-----|
|----------|-----|

| Details of Tr. Line Falling under | : |
|-----------------------------------|------------------------------|
| Forest | |
| Locations | : 1No.s.; Length : 3.451kms |
| Forest area (Ha) | : 23.122Ha |
| Forest proposals submitted on | : Not Submitted |
| Current status | : Proposal Under Preparation |

Wildlife area

| Details of Tr. Line Falling under | : | NIL |
|-----------------------------------|---|-----|
| Forest | | |
| Locations | : | NIL |
| Wildlife area (Ha) | : | NA |
| Wildlife proposals submitted on | : | NA |
| Current status | : | |
| 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 | : | 17 |
| Proposal submitted | : | 0 |
| Approval obtained | : | 0 |
| River Crossings | | |
| Total No. of crossings | : | 1 |
| 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 |

8. 2 Nos. of Line Bays at Fatehgarh III Substation

:

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

9. 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:

Resurgent Power Venture Pte Limited

23. System strengthening in No.rthern region (NRSS XXXVI) along with LILO of Sikar-Neemrana 400 kV D/C line at Babai (RVPNL)

Background

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

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

Scope of Transmission project

1. Koteshwar Pooling Station - Rishikesh 400kV D/C (HTLS) line - 83.152 Ckm.

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

General Details

| 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 Cl | ERC Pe | titions, IDPL -NOC from Uttrakhand State Govt, |

DFO (Tehri), DFO (Dehradun), Court proceedings etc

NRSS XXXVI Project has been successfully substituted by PFS (PTC India Financial Services Ltd.) to Resurgent Power Ventures Pte Limited which is a joint venture with TATA Power.

Status of progress of transmission project

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

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

| Length: | 77 ckm |
|-----------------------|---|
| Locations: | 102 Nos. |
| Foundation completed: | 26 Nos. |
| Tower erected: | -17 No.s. |
| Stringing completed: | - |
| Scheduled COD: | Dec'19 |
| Anticipated COD: | Dec'24 / Minimum 27 No. of working months required from the date of resolution of CERC Petitions, IDPL -NOC from Uttrakhand State Govt, DFO (Tehri), DFO (Dehradun), Court proceedings etc |

Constraints where Project Authority requires intervention:

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

Foundation, Tower Erection & Stringing section

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

Status of statutory approvals:

Forest Details of Tr. Line Falling under Forest:-Locations: 63 Nos. Length: 22.2 Km. Forest area affected (ha) : 103.453 ha

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

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 Nos. |
| Approval obtained | : | 00 Nos. |
| National Highway Crossing | | |
| Total No. of crossings | : | 04 Nos. |
| Proposal submitted | : | 04 Nos. |
| Approval obtained | : | 00 Nos. |
| | | |
| | | |

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 No.s. of 400 kV bays at PTCUL Rishikesh substation is still awaited.

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

| Length: | 3 ckm |
|----------------|------------|
| Locations: | 06 Nos. |
| Scheduled COD: | Dec'16 |
| Deemed COD: | 30 Oct '17 |

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

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

| Length: | 222 ckm |
|-----------------------|----------|
| Locations: | 304 Nos. |
| Foundation completed: | 304 Nos. |
| Tower erected: | 303 Nos. |
| Stringing completed: | 215 ckm |
| Scheduled COD: | Jun'19 |
| Anticipated COD: | Sep' 23 |

Constarints where Project Authority requires intervention:

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

- 1. AP-51/0 AP-51/4 Badrai & Gopalwas Village
- 2. AP-51/4 to AP-52 Badhra Village
- 3. AP-56 Rambas Village
- 4. AP-65A AP-66/0 Bilawal Village
- 5. AP-77/2 to AP-82 Neemriwali Village

Foundation & Tower Erection

1. Gantry V - Neemriwali Village, Dist. Bhiwani

Status of statutory approvals:

Forest

Details of Tr. Line Falling under Forest:- 3.37 Km Locations: 06 Nos. (Rajsthan) Length: Forest area(ha) : 12.90 Ha (2.80 Kms) Rajsthan + 3.46 Ha (0.57 Kms) Haryana Forest proposals submitted on 15.05.17 for Haryana and on 11.08.17 for Rajasthan.

Current status: Stage I final approval and working permission for both Haryana portion and Rajasthan portion has been received.

Wildlife Clearance

Details of Tr. Line Falling under Wildlife :-Locations: Length: Wildlife area(ha) : 7.452 Ha (2.80 Kms) Khetri Bansyal Conversion Reserve Wildlife proposals submitted on : 16-02-2018 Current status: Proposal recommended by NBWL ,recommendations forwarded to State Govt. (Rajasthan) and approval received on 14.02.2019.

| Power line crossing | | | |
|------------------------|---|---------|-------|
| Total No. of crossings | : | 21 Nos. | |
| Proposal submitted | : | 21 Nos. | Date: |
| Approval obtained | : | 21 Nos. | Date: |
| | | | |
| Railway crossing | | | |
| Total No. of crossings | : | 01 No. | |
| | | | |
| Proposal submitted | : | 01 Nos. | Date: |

National Highway Crossing

| Total No. of crossings Proposal submitted Approval obtained | : : | 01 Nos. 01 Nos. 01 Nos. | Date: Date: |
|---|--------|-------------------------------|----------------|
| State Highway Crossing | | | |
| Total No. of crossings | : | 05 Nos. | |
| Proposal submitted | : | 05 Nos. | Date: |
| Approval obtained | : | 05 Nos. | Date: |
| Canal Crossings (MiNo.r) | | | |
| Total No. of crossings | : | 14 Nos. | |
| Proposal submitted | : | 14 Nos. | Date: |
| Approval obtained | : | 14 Nos. | Date: |

PTCC approval : Proposal Under Approval

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

Defence/Civil Aviation

| Proposal submitted : | 13.03.2018 |
|----------------------|--|
| Current Status : | Civil Aviation approval received on 31.05.18 |
| | Approval from Defence received on 06.06.18 |

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

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

Under commercial operation.

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

| Scheduled COD | Jun'19 |
|---------------|--------|
| Actual COD: | Aug'23 |

Adani Transmission Limited

24. Development of Additional Inter regional AC link for import into Southern region i.e Warora-Warangal and Chilakaluripeta – Hyderabad – KurNo.ol 765 kV link

Background

To facilitate import of 16000 MW power to Southern region by 2018-19 based on the pessimistic scenario of No.n-availability / delay in commissioning of some of the generation projects in Southern region, this 765 kV additional transmission link has been proposed in case of contingencies including total outage of an entire inter-regional link and other critical regional lines for reliability.

Scope of transmission project

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

765 kV bay requirement (in Warangal)

Line bays:06 No.Transformer bays:02 No.Space for future line bays:06 No.

400 kV bay requirement (in Warangal)

Line bays:02 No.Transformer bays:02 No.Space for future line bays:08 No.

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

General Detail

| Warora KurNo.ol Transmission Ltd. (A subsidiary of Adani Transmission Ltd) PFCCL |
|--|
| • |
| PFCCL |
| |
| 4805 |
| 11.09.2015 |
| 30.11.2015 |
| 29.02.2016 |
| 06.01.2016 |
| 06.07.2016 |
| 29.09.2016 |
| 30.08.2016 |
| 01.07.2016 |
| Gazette publication on 10.07.2017 |
| 02.11.2016 |
| |
| 30.08.2016 |
| |

| Scheduled Date of Completion | : | Nov-2019 |
|---------------------------------------|---|------------|
| New SPV acquisition as per CERC Order | : | 26.03.2021 |
| Anticipated Date of Completion | : | Sep'23 |

Ministry of Power(MoP) vide their letter No. 7/1/2017-Trans dated 16.04.2020 conveyed the following.

- 1. MoP, GoI has decided that M/s WKTL, the developer of Warora-Warangal 765 kV D/C Transmission Line is required to complete the balance works in above line as per the original approved route in the coal bearing area of WCL involving 16 towers without any further delay and also to comply all other decisions of MoP conveyed as per above letter dated 16.04.2020. Further, WKTL is required to complete all the elements in the above Scheme within the framework of the contractual obligations. It is also requested that the latest status and implementation schedule of all the elements of above line may be conveyed to CEA at the earliest.
- 2. Lead Long Term Transmission Customer(LTTC), i.e., TANGENDCO Ltd, is requested to take necessary action as per TSA to ensure that there is No. further delay in completion of the above project.

M/s WKTL was also advised that in case of any constraints in completion of the above project as per established procedure, the developer may approach CERC for redressal of the issues if any, as MoP/CEA only facilitates the project implementation in a time bound manner. The Project was stalled due to force majeure issues including No.n resolution of issues pertaining to coal bearing areas associated with Western Coal Fields (WCL) and Singareni Coll. Co. Ltd. (SCCL)

Status of progress of transmission project

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

- Schedule completion : Nov'19
- Actual completion : Aug'23

3. Warora (Pool) – Warangal (New) 765 kV D/C line with 240 MVAR switchable line reactor at both ends

| • | Length: | 664 ckm |
|---|-------------------------|----------|
| • | Locations: | 845 Nos. |
| • | Foundation completed: | 845 Nos. |
| ٠ | Tower erected: | 845 Nos. |
| ٠ | Stringing completed: | 664 ckm |
| • | Schedule completion: | Nov'19 |
| ٠ | Aniticipated completion | Sep '23 |

4. Warangal (New) – Hyderabad 765 kV D/C line with 240 MVAR switchable line reactor at Warangal end of each circuit.

| • | Length: | 268 ckm |
|---|----------------------|----------|
| • | Locations: | 345 Nos. |
| • | Schedule completion: | Nov'19 |

• Actual completion: Aug '23

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

| Length: | 94.9 ckm |
|----------------|----------|
| Locations: | 126 Nos. |
| Scheduled COD: | Nov'19 |
| Actual COD: | Jun'23 |

- 6. Hyderabad- KurNo.ol 765 kV D/C line with 240 MVAR switchable line reactor at KurNo.ol end of each circuit
 - Length: 337 ckmLocations: 432 Nos.
 - Scheduled COD: Nov'19
 - Actual COD: Jul'23
- 7. Warangal (New) Chilakaluripeta 765 kV D/C line with 240 MVAR switchable line reactor at both ends of each circuit
 - Length: 390 ckm
 - Locations: 508 Nos.Scheduled COD: Nov'19
 - Actual COD: Sep'23
- 8. 240 MVAR Switchable Line Reactors with Bays at Warora (Pool) end in each circuit of Warora (Pool)- Rajnandgaon 765kV D/c line with NGR (700 Ohm)

Scheduled COD: Nov'18

Under commercial operation w.e.f. 29.03.2019

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

Background

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

Scope of transmission project:

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

<u>400 kV</u>

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

<u>220 kV</u>

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

General Details:

| Special Purpose Vehicle (SPV) | | th Karanpura Transco Ltd. ubsidary 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 |

| Execution plan submitted to CEA | : | days from submission. 03.11.2016. Revised Execution plan discussed in meeting with CEA on 23.04.2019. |
|--------------------------------------|---|--|
| NIT issued on | : | |
| EPC contract awarded on | : | |
| Scheduled Date of Completion | : | 30.09.2019 |
| Revised Scheduled Date of Completion | : | As per CERC directive, it is finalized by CEA and in consultation with |
| | | NTPC. |

- In accordance with the provision of the TSA, NKTL had approached CERC and vide its order dated 20.03.2019 the matter has been disposed off with following decisions:
 - NKTL is affected by force majeure on account of No.n-issue/delay in issue of NOC by MoC/CCL.
 - LTTCs are directed No.t to take any coercive measures in terms of the TSA till the SCODs are revised taking into account the force majeure events.
 - CERC directed MOC to issue NOC latest by week from issue of the order.
 - Compressed time schedule to implement the project shall be decided by CEA in consultation with NTPC and NKTL.
 - Granted liberty to approach with change in scope and its impact on cost and time overrun.
 - When required to shift line, alternate route shall be provided by MoC.

Status of progress of transmission project:

- 1. North Karanpura Chandwa (Jharkhand) Pooling Station 400kV D/c line (including Multi-circuit portion)
 - Length (as per revised route): 102 Ckm
 - Locations (as per revised route): 115 Nos.
 - Revised schedule completion date: 14 months from the date of NOC from CCL/MoC (considering receipt of forest approval within 200 days).
 - Actual COD: 14.10.2022

2. North Karanpura – Gaya 400kV D/C line (only Double Circuit portion)

- Length (as per revised route): 196 Ckm
- Locations (as per revised route): 286 Nos.
- Foundation completed: 140 Nos.
- Tower erected: 132 Nos.
- Stringing completed: 37.3 Ckm
- Revised schedule completion date: 23 months from the date of NOC from CCL/MoC (considering receipt of forest approval within 300 days). However, due to delayed Forest Clearance NKTL will be able to complete the NK-G line in 12 clear working months from the date of forest clearance (Working Permission).

Constraints where Project Authority requires intervention:

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, agianst which compliance has been submitted by No.dal 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 No.tes 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 No.tes received from DFO Chatra South & Chatra North on 28.07.2023 in view of corrections. Again revised demand No.tes 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.

Final demand for cost against Wildlife Management Plan and Soil & Moisture Conservation Plan as per Stage-I conditions is awaited.

In Bihar portion, there was severe ROW at 5 Locations at Gaya end being faced. 2 No.s. of locations (116/0, 114/1) have been resolved and foundation has been completed.

For location 115/0, work is in progress. For location 114/2, 3rd No.tice has been served on 29.08.2023 with timeline till 07.09.2023. NKTL requested to DLAO Gaya to provide administrative support for completing the location.

For aNo.ther location (114/0), landowners are refusing to accept the compensation order issued by DM Gaya. 3 Nos. of No.tices have been served to landowners. Work shall be started with police protection.

Status of statutory approvals:

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

Details of Tr. Line Falling under Forest:-

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

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

Forest area affected (ha) : 197.0115 Ha. In JH portion & 5.437 Ha. in BH portion.

Forest proposals submitted on : 20.07.2019 for JH portion & 01.08.2019 for BH portion

Current status: Proposal submitted within the timeline committed to CEA on revised route. . JH portion, Stage-I issued on 06.06.2023. Approved demand No.tes received from 3 No.s of DFOs for CA, NPV & Dwarf plantation on 23.08.2023. Demand No.tes is awaited for WLMP & SMCP from DFOs. Working permission is awaited.. BH portion In-Principle Stage – I received on 02.09.2021. Working permission received on 08.02.2022.

Power line crossing

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

Railway crossing

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

National Highway Crossing

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

PTCC approval

Proposal submitted to BSNL in Proposal submitted to Railways in Current status: Submitted on 23-07-2020

Defence/Civil Aviation

Proposal submitted to Defence/Civil Aviation Current Status: NOC for Civil Aviation and Defence Aviation obtained

3. Establishment of 400/220 kV, 2x500 MVA sub-station at Dhanbad

| ٠ | Scheduled completion date: | 07.05.2019 |
|---|----------------------------|---|
| • | Actual completion date: | Progressively Charged from 23-07-2021 to |
| • | | 02-08-2021 and COD declared on 06-08-2021 |

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

| • | Length: | 5.4 Ckm |
|---|------------|---------|
| • | Locations: | 10 Nos |

- 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

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

Background

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 & Wind8.5 GW) of potential has been identified in the states of Tamil Nadu, Andhra Pradesh and Karnataka in Southern Region. The transmission system was evolved for integration of 18.5 GW of identified prioritized SEZs and WEZs in states of Tamil Nadu, Andhra Pradesh and Karnataka with the ISTS network in Southern Region. The transmission system associated with potential RE capacity, based on inputs from SECI/ MNRE has been prioritized for implementation into three phases in the meeting held on 30.08.2019 at CEA, New Delhi. Out of the 18.5 GW REZ in Southern Region, 5.5 GW under Phase-II (Part-II) & 5 GW under Phase-II of the prioritized wind and solar zones has been targeted for completion by Dec'21 and balance 8 GW under Phase-III has been targeted for completion beyond Dec'21.

The proposal has been agreed in the 3rd NCT and 4th ECT meeting held on 21.12.2018 for implementation through TBCB route with a commissioning schedule of June, 2020. The 2.5 GW wind potential identified in Karur / Tiruppur area of Tamil Nadu has been prioritized under Phase-III for implementation beyond Dec'21. The subject transmission scheme involves establishment of Karur Pooling Station and its interconnection with ISTS grid for evacuation of wind potential from Karur / Tiruppur area of Tamil Nadu. The transmission system has been agreed in the 1st meeting of Southern Region Standing Committee on Transmission (SRSCT) held on 07.09.2018. The National Committee on Transmission in its 3rd meeting held on 01.03.2019 has recommended the implementation of the subject transmission scheme through TBCB route. The transmission scheme was also deliberated in the 4th meeting of Empowered committee on Transmission held on 12.07.2019. Ministry of Power vide its letter No. 15/3/2018-Trans-Pt (3) dated 15.10.2019 has forwarded the Gazette Notification dated 10.10.2019 appointing PFCCL as BPC for implementation of the subject scheme through TBCB route.

Scope of transmission project:

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

General Detail

| Special Purpose Vehicle (SPV) | : | Karur Transmission Limited (A subsidiary of Adani Transmission Limited) |
|--------------------------------------|---|--|
| Bid Process Coordinator (BPC) | : | PFC Consulting Limited |
| Estimated Cost (Rs. cr) | : | |
| Request for Qualification | : | 21.10.2019 |
| Request for Proposal | : | 20.02.2020 |
| Letter of Intent | : | 22.12.2021 |
| Transmission Service Agreement (TSA) | : | 08.11.2021 |
| SPV acquisition | : | 18.01.2022 |
| Transmission License by CERC | : | |
| Tariff adoption by CERC | : | 17.05.2022 |
| Contract Performance Guarantee | : | 11.01.2022 |
| Clearance u/s 164 | : | 03.09.2022 |
| Execution plan to CEA | : | 05.05.2022 |
| NIT issued on | : | |
| EPC contract awarded on | : | Mar-2022 |
| Scheduled Date of Completion | : | July-2023 |
| Anticipated completion | : | Oct-2023 |

Status of progress of transmission project:

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

- Land acquisition : 100% (Present Scope)
- Engineering : 100%
- Civil Works : 100%
- Equipment supplied : 100%
- Erection works : 100%
- Schedule completion : July-2023
- Aniticipated completion : Sep-2023

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

| • Length: | 8.51 ckm |
|-------------------------|---|
| • Locations: | 9 Nos. |
| • Foundation completed: | 9 Nos. |
| • Tower erected: | 7 Nos. balance 2 towers shall be erected during |
| • | shutdown. |
| • Stringing completed: | 7.43 ckm |
| • Schedule completion: | July-2023 |
| Anticipated Completion: | Oct-2023 |

Constraints where Project Authority requires intervention : Facing severe Right of Way (RoW) issues in transmission line. Landowners have planted coconut trees alongside of corridor and asking undue compensation demand. Matter already apraised to local administration.

Delay in shutdown for tapping proposal: Due to heavy wind generation from Jul -Sept'23, shutdown of existing 400Kv D/C Pugalur HVAC– Pugalur HVDC for tapping shall No.t be granted due to system constraints. SRLDC has suggested to take shutdown in the month of Oct'23.

- Status of statutory approvals:
- **Defence Aviation** : NOC received on 10.11.2022.
- **Civil Aviation** : Application submitted on 10.11.2022.
- Current Status : NOC received on 22.03.2023.
- **PTCC** : Final NOC received on 13.04.2023.
- LILO Proposal (POWERGRID) : Final NOC received on 18.04.2023.

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

- Land acquisition : 100%
- Engineering : 100%
- Civil Works : 100%
- Equipment supplied : 100%
- Erection works : Work in progress
 - Schedule completion : July-2023
 - Aniticipated completion : Completed, Charging upon approval of shutdown.

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

Background :

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

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

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

Scope of transmission project:

- Establishment of 3X1500 MVA 765/400 kV Khavda (GIS) with 1X330 MVAR 765 kV bus reactor and 1X125 MVAR 420 kV bus reactor
 □ 765/400 kV, 1500 MVA ICT 3 Nos.
 - \Box 765 kV ICT bays 3 Nos.
 - \Box 400 kV ICT bays 3 Nos.
 - \Box 330 MVAR 765 kV bus reactor -1 No.
 - \Box 125 MVAR 420 kV bus reactor -1 No.
 - \square 765 kV reactor bay 1 No.
 - \Box 765 kV line bay 2 Nos.
 - \Box 400 kV reactor bay 1 No.
 - \Box 400 kV line bay 3 Nos.
 - □ 500 MVA, 765/400 kV Spare ICT 1 No.
 - \Box 110 MVAR, 765 kV, 1-ph reactor (spare unit) 1 No.
 - Future Scope: Space for
 - \Box 765/400 kV, ICT along with bays 5 Nos.
 - \Box 400/220 kV, ICT along with bays- 4 Nos.
 - \Box 765 kV Line bays along with switchable line reactor- 6 Nos.
 - \Box 400 kV Line bays 7 Nos.
 - \Box 220 kV Line bays 8 Nos.
 - \Box 765 kV reactor along with bays 2 Nos.
 - \Box 400 kV reactor along with bays 1 No.

 \square 765 kV bus sectionalizer- 1 No.

 \Box 400 kV bus sectionalizer- 1 No.

- Khavda PS (GIS) Bhuj PS 765 kV D/c line
- 2 Nos. of line bays each at Bhuj PS for termination of Khavda PS (GIS) Bhuj PS 765 kV D/c line
 □ 765 kV AIS line bays 2 Nos.

General Detail

| Special Purpose Vehicle (SPV) | : | Khavda Bhuj Transmission Limited |
|---|-------|----------------------------------|
| (A subsidiary of Adani Transmission Lim | ited) | |
| 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 2025 |
| Anterpace completion | • | Juli 2023 |

Status of progress of transmission project :

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

- Land acquisition : Land lease approval received on 16.06.2023 from revenue department, Gandhinagar. Accordingly, land lease payment intimation received from DC Office-Bhuj, Kutch on 22.06.2023. Demand Drafts for corresponding amount were submitted on dt. 15.07.2023 & 25.07.2023. Necessary Land lease formalities to take place post finalization of stamp duty charges which is under finalization at DC, Kutch.
 - Engineering : 92 %
 - Civil Works : 05 %
 - Equipment supplied : 45%
 - Erection works :
 - Schedule completion : Jan-2024
 - Aniticipated completion : Jan 2025

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

| • | Length: | 218 ckm |
|---|-------------------------|-----------|
| • | Locations: | 275 Nos. |
| • | Foundation completed: | 274 Nos. |
| ٠ | Tower erected: | 224 Nos. |
| ٠ | Stringing completed: | 92.10 ckm |
| ٠ | Schedule completion: | Jan-2024 |
| • | Anticipated Completion: | Jan-2025 |

2 Nos. of line bays each at Bhuj PS for termination of Khavda PS (GIS) – Bhuj PS 765 kV D/c line

| Land acquisition | : Space for bay construction issued vide mail dated |
|--------------------------------------|---|
| | 18.08.2022 by POWERGRID, Bhuj |

- Engineering : 100 %
- Civil Works : 100 %
- Equipment supplied : 98 %
- Erection works : 55%
- Schedule completion : Jan-2024
- Aniticipated completion : Jan-2025

Issues:

1. ROU for approach road for substation at Khavda yet to be handed over by Govt of Gujarat for execution of Substation Work. TSP has received demand No.te on 21.08.2023 from Collector, Kutch for payment of ROU charges. Payment under processing.

Status of statutory approvals:

Forest

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

Current status:

Forest proposal: Working Permission received on 21.04.2023.

Power line crossing

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

Railway crossing

| Total No. of crossings | : 00 No. |
|------------------------|----------|
| Proposal submitted | : 00 No. |
| Approval obtained | : 00 No. |

River Crossings

| Total No. of crossings | : 00 No. |
|------------------------|----------|
|------------------------|----------|

| Proposal submitted | : 00 No. |
|--------------------|----------|
| Approval obtained | : 00 No. |

NH Crossings

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

PTCC

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

Defence/Civil Aviation

Current Status

: NOC for Defence Aviation obtained

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

Background :

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

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

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

Scope of transmission project:

- 1) KPS2 (GIS)-Lakadia 765 kV D/C line
- 2) 330 MVAR switchable line reactors at KPS2 end of KPS2(GIS)- Lakadia 765kV D/C line.
 - 330 MVAr, 765 kV switchable for 765 kV line reactor- 2 Nos.
 - Switching equipments for 765 kV line reactor- 2 Nos.
 - 1×110 MVAr spare bus reactor available at KPS 2(GIS) to be used as spare
- 3) 2 Nos. of 765kV line bays each at Lakadia PS & KPS2(GIS) for Khavda PS2(GIS) Lakadia PS 765kV 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 | : Under process | |
| Tariff adoption by CERC | : 06.07.2023 | |
| Contract Performance Guarantee | : Submitted | |
| Clearance u/s 164 | : Applied on 17.07.2023. | |

| Execution plan to CEA | | : Submitted on 16.06.2023. |
|------------------------------|---|----------------------------|
| NIT issued on | : | |
| EPC contract awarded on | | : Awarded |
| Scheduled Date of Completion | | : Mar 2025 |
| Anticipated completion | | : |

Status of progress of transmission project:

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

Length: 355 ckm • Locations: 440 Nos. • • Foundation completed: 10 Nos. • Tower erected: NIL NIL • Stringing completed: • Schedule completion: Mar-2025 Anticipated Completion: Mar-25

Constraints:

• Engineering

1. ROU for Transmission Route from KPS2 Pooling Station to India Bridge for Transmission Line KPS2(GIS)- Lakadia 765 kV D/C awaited.

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

- Land acquisition
 - : 15% (Reactor Engg. Completed.)

: Space to be provided by POWERGRID which is pending.

- Civil Works : 0%
- Equipment supplied : 0 %
- Erection works : 0 %
- Schedule completion : Mar-2025

:

Anticipated completion

Issues:

 Khavda II-A Transmission Ltd, vide letter dated 07.03.2023 to M/s POWERGRID, had sought Engineering inputs & possession of land required for bay construction which is pre-requisite to start the primary engineering & ordering activities. In absence of response on same, follow up letters were sent vide letter dated 10.04.2023, 08.06.2023 & 14.07.2023. POWERGRID vide letter dated 19.06.2023 and 15.07.2023 has provided SLD & Layout which is being evaluated. It was informed by POWERGRID that land possession is yet to be obtained from GPCL (Govt of Gujarat). Notice of Force Majeure under Article 11 of the TSA served to CTUIL vide letter dated 20.07.2023.

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

- Land acquisition : Under process
- Engineering : 0%
- Civil Works : 0%
- Equipment supplied : 0 %
- Erection works : 0 %

- : Mar-2025
- Schedule completionAnticipated completion :

Status of Statutory approvals:

| Forest Details of Tr. Line Falling under Fore Forest area affected (ha) Forest proposal submitted on Wildlife Details of Tr. Line Falling under WLS | S:Le | 0 | |
|--|---------------------|----------------------------|--|
| WLS area affected (ha) WLS proposal submitted on | · 12. | .5907 Ha 05-05-2023 | |
| Power line crossing Total No. of crossings | · | 13 No. | |
| Proposal submitted | • | 13 No. 00 No. | |
| • | • | 00 No. 07 No. | |
| Approval obtained | • | 07 INO. | |
| River Crossings Total No. of crossings Proposal submitted Approval obtained | : : : | 00 No. 00 No. 00 No. | |
| NH Crossings Total No. of crossings Proposal submitted Approval obtained | : : : | 04 No. 00 No. 00 No. | |
| РТСС | | | |
| Proposal submitted to BSNL in | : Un | : Under Preparation | |
| Proposal submitted to Railways in | : Under Preparation | | |
| Current status: | Under Preparation | | |
| Defence/Civil Aviation | | | |
| Current Status | : Un | der Preparation | |

29. 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) 400kV D/c corridor.

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

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

Scope of transmission project:

- 1. Narendra New (GIS) Pune (GIS) 765 D/c Line with 1x330 MVAr switchable line reactor (SLR) on each ckt at both ends.
 - 765 kV line bays 2 (GIS) (at Narendra New)
 - 765 kV line bays -2 (GIS) (at Pune)
 - 765 kV, 330MVAr SLR 2 Nos. (7 x 110 MVAr incl. 1 switchable spare unit) at Pune (GIS)
 - 765 kV, 330 MVAr SLR 2 Nos. (6 x 110 MVAr) at Narendra New (GIS)
- 2. Upgradation of Narendra New (GIS) to rated voltage of 765 kV level along with 4 x 1500 MVA transformer and 2 x 330 MVAr Bus Reactor
 - 765/400 kV, 1500 MVA 4 Nos. (13 x 500 MVA incl. 1 spare unit)
 - 765 kV ICT bays 4 Nos.
 - 400kV 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 | : | In Progress | |
| 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 | : 25 % |
| Civil Works | : - |
| • Equipment supplied | : - |
| • Erection works | : - |
| Schedule completion | : 17.07.2024 |
| Anticipated Completion | : 17.07.2024 |

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

| ٠ | Length: | 635.542 ckm |
|---|-------------------------|---|
| ٠ | Locations: | 793 Nos. |
| ٠ | Engineering: | 81 % |
| ٠ | Survey: | Detailed Survey Completed, Check Survey 87% Completed |
| ٠ | Foundation completed: | - |
| ٠ | Tower erected: | - |
| ٠ | Schedule completion: | 17.07.2024 |
| ٠ | Anticipated Completion: | 17.07.2024 |
| | | |

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

| • Land acquisition | : Space for bay construction issued vide mail dated 18.08.2022 by POWERGRID, Bhuj |
|----------------------|---|
| Civil Works | :- |
| • Equipment supplied | :- |
| • Erection works | :- |

| 1 | : 17.07.2024 : 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 | : Under Preparation |
| Current status: | |
| Power line crossing | |
| Total No. of crossings | : 19 No. |
| Proposal submitted | : 00 No. |
| Approval obtained | : 00 No. |
| River Crossings | |
| Total No. of crossings (No.n nav | - |
| Proposal submitted | : 00 No. |
| Approval obtained | : 00 No. |
| NH Crossings | |
| Total No. of crossings | : 12 No. |
| Proposal submitted | : 00 No. |
| 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 |
| Current Status | . i toposai under preparation |

Indigrid Limited

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

Background

Scope of transmission project

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

2X500 MVA, 400/220kV 400 kV ICT bay-2 220 kV ICT bay-2 400 kV line bay-4 220 kV line bay-4

Space for future Provisions:
400/220 kV ICTs along with bays:2 Nos.
400 kV line bays including the space for switchable line reactors-6 Nos.
220kV line bays: 4 Nos.
400kV bus reactor along with bays: 1 No.

- 2. 1X125 MVAr bus reactor at Kallam PS 400 kV reactor bay-1
- 3. LILO of both circuits of Parli(PG)-Pune(GIS) 400 Kv D/c line at Kallam PS
- Provision of new 50 MVAr switchable line reactor with 400 ohms NGR at Kallam PS end of Kallam-Pune(GIS) 400 kV D/c line 2X50 MVAr, 400 kV Reactor bays-2

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 | : Oct-2023 |

Status of progress of transmission project

- 1. Establishment of 2X500 MVA, 400/220kV substation near Kallam PS
 - Land acquisition : 100%
 - Civil Works : 78%
 - Equipment supplied : 100%
 - Erection works : 40%
 - Schedule completion : Jun-2023
 - Aniticipated completion : Oct-2023

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

- Engineering : 100%
- Civil Works : 98%
- Equipment supplied : 100%
- Erection works : 40%
- Schedule completion : Jun-2023
- Aniticipated completion : Oct-2023

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

- Length: 16.901 KM
- Locations: 47
- Foundation completed: 36
- Tower erected: 17
- Stringing completed: Nil
- Scheduled COD: June-2023
- Anticipated COD: Oct-2023

Status of statutory approvals:

• **RoW Issues:** TSP is facing severe RoW in Beed district and is working with administration to resolve issues.

In Osmanabad district for all location TSP is facing severe RoW for which SDM has scheduled a meeting on 11th September 2023. In addition to this one court case has been lodged against TSP on 31- July-23 at Aurangabad high court.

- **PTCC Approval-** Application submitted.
- Aviation Clearance- Application submitted.
- Provision of new 50 MVAr switchable line reactor with 400 ohms NGR at Kallam PS end of Kallam-Pune(GIS) 400 kV D/c line 2X50 MVAr, 400 kV Reactor bays-2

Status:Both units have been received at site in the month of June-23. . Erection works is 40% done.

Renew Transmission Power Venture Limited

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

Background

Government of India has set a target for establishing 175 GW renewable capacity by 2022, which includes 100 GW from Solar and 60 GW from Wind. Solar Energy Corporation of India (SECI) in association with MNRE has identified Solar Energy Zones (SEZ) and Wind Energy Zones (WEZ) of 66.5 GW in seven RE rich states (Tamil Nadu, Andhra Pradesh, Karnataka, Gujarat, Rajasthan, Maharashtra and Madhya Pradesh) to be evacuated through ISTS. Out of total 66.5 GW REZs, 18.5 GW (Solar-10 GW & Wind8.5GW) of potential has been identified in the states of Tamil Nadu, Andhra Pradesh and Karnataka in Southern Region.

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

Scope of transmission project

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

General Details

| Special Purpose Vehicle | : Koppal-Narendra Transmission Limited (a subsidiary of ReNew Transmission Ventures Private Limited) |
|--------------------------------------|--|
| Bid Process Coordinator (BPC) | : PFC Consulting Limited |
| Estimated Cost (Rs. 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. |

| Foundation completed | : | 348 Nos. (100% foundation completed in Non-Forest |
|----------------------|---|---|
| Area) | | |
| Tower erected | : | 347 Nos. |
| Stringing completed | : | 262.4 ckm |
| Scheduled COD | : | June'23 |
| Anticipated COD | : | Oct'23 |

Constraints / approval; if any:

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

Erection RoW locations: -

| District | Taluka | Village Name | No. of Location | Loc. No. |
|------------|---------------------|--------------|-----------------|----------|
| Vijayapura | Basavan Begawadi | Muttagi | 1 | 7/0 |

Stringing: RoW Stretch

| District | Taluka | Village Name | Stretch Affected (Km) | Stretch |
|----------------------------------|----------|--------------|--------------------------|----------|
| Vijayapura | Nidgundi | Muttagi | 12.03 | AP6C-AP8 |
| Total Stringing stretch affected | | 12.03 | | |

2. Forest proposal submitted on 22.02.2022. Stage-I approval was granted on 02.08.2023 and payment against demand No.te also released on 18.08.2023. Further, working permission also issued by DFO, Koppal on 30.08.2023 and work has been started in the Forest area.

Status of statutory approvals:

Forest area

| Details of Tr. Line Falling under | r Fo | rest:- |
|-----------------------------------|------|---------------------------------|
| Locations | : | 4 Nos. ; Length :1.644 Kms |
| Forest area (Ha) | : | 7.562 Ha |
| Online proposal submitted on | : | Submitted on 22.02.2022 |
| Current status | : | Stage-I Approval : 02.08.2023 |
| | | Working Permission : 30.08.2023 |

Wildlife area

| Details of Tr. Line Falling under | Wildlife:- Nil |
|-----------------------------------|----------------|
| Locations | : |
| Wildlife area (Ha) | : |
| Wildlife proposals submitted on | : |
| Current status | : |
| | |
| Power line crossing | |

| : | 12 Nos. |
|---|---------|
| : | 12 Nos. |
| : | 12 Nos. |
| | • |

| Railway crossing | | |
|-------------------------------|-------------------|--|
| Total No. of crossings | : | 1Nos. |
| Proposal submitted | : | 1Nos. |
| Approval obtained | : | 1 Nos. |
| | | |
| National Highway / SH Cross | sing | |
| Total No. of crossings | : | 13 Nos. |
| Proposal submitted | : | 13 Nos. |
| Approval obtained | : | 13 Nos. |
| | | |
| River Crossings | | |
| Total No. of crossings | : | 1 No. |
| Proposal submitted | : | NA (Non navigable) |
| Approval obtained | : | NA |
| | | |
| PTCC approval | : | Submitted on 28.04.2022 |
| Current status | : | Received on 21.06.2023 |
| | | |
| Defence/Civil Aviation | | |
| Proposal submitted to Defence | /Civil Aviation | : Submitted |
| Current Status | | : Civil Aviation Approval received |
| | | 30.08.2022 and and Defence Aviation received on 08.08.2022 |
| Status of progress of Substat | ion/ Extension: - | |
| | | |
| 2 (a) 3x500MXVA 400/220 | kV Konnol Pool | ing Station alongwith 2x125 MVAr 120kV k |

2. (a) 3x500MVA, 400/220 kV Koppal Pooling Station alongwith 2x125 MVAr, 420kV bus reactors (Scheduled COD: June'2023)

| Scheduled COD | : | June'23 |
|---------------|---|--|
| Actual COD | : | June'23 (Work Completed, CEIG approval received on |
| 13.06.2023) | | |

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

| : | 100% |
|---|---|
| : | 79% |
| : | 64% |
| : | 34% |
| : | Dec'23 |
| : | Dec'23 |
| | : |

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

| Scheduled COD | : | June'23 with existing bus) |
|---------------|---|-------------------------------|
| Actual COD | : | June'23 (Charged on 09.06.23) |

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

Background

Government of India has set a target for establishing 175 GW renewable capacity by 2022, which includes 100 GW from Solar and 60 GW from Wind. Solar Energy Corporation of India (SECI) in association with MNRE has identified Solar Energy Zones (SEZ) and Wind Energy Zones (WEZ) of 66.5 GW in seven RE rich states (Tamil Nadu, Andhra Pradesh, Karnataka, Gujarat, Rajasthan, Maharashtra and Madhya Pradesh) to be evacuated through ISTS. Out of total 66.5 GW REZs, 18.5 GW (Solar-10 GW & Wind8.5GW) of potential has been identified in the states of Tamil Nadu, Andhra Pradesh and Karnataka in Southern Region.

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

Scope of transmission project

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

General Details

| Special Purpose Vehicle | : | Gadag Transmission Limited (a subsidiary of ReNew Transmission Ventures Private Limited) |
|--------------------------------------|---|--|
| Bid Process Coordinator (BPC) | | : REC Power Development and Consultancy Limited |
| Estimated Cost (Rs. 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 | : | Dec'23 |

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 | : | 205 Nos. |
| Tower erected | : | 164 Nos. |
| Stringing completed | : | 12.3 km |
| Scheduled COD | : | Sept'23 |
| Anticipated COD | : | Dec'23 |

Constraints / approval; if any:

1. TSP has requested the office of District Collectors of Bagalkot, Vijayapura, Gadag & Koppal 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 |
|------------|----------------------|--|
| Bagalkote | Bagalkote, Hungund & | Order issued by office of District Collector, |
| | Guledagudda | Bagalkote on 04.11.2022 (dated 27.10.2022). |
| Vijayapura | Basavan Bagewadi, | Order issued by office of District Collector, |
| | Nidagundi & Kohlara | Vijayapura on 06.03.2023 |
| Koppal | Kushtagi | Order issued by office of District Collector, Koppal |
| | | on 07.06.2023 (dated 25.05.2023). |
| Gadag | Gajendragad | Order issued by office of District Collector, Gadag |
| | | on 04.03.2023 |

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

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

| District | Taluka | Village Name | No of Locations | Location No |
|------------|---------------------|--------------|--------------------|--|
| Bagalkote | Bagalkote | Bodnayakdini | 1 | 27/0 |
| Koppal | Kushtagi | Kodatgeri | 1 | 47/7 |
| | Kolara | Kudgi | 1 | 1/0 |
| | Basavan Begawadi | Mutagi | 1 | 7/2 |
| | | Golsangi | 7 | 9/0,10/0,12/1,13/0,14/0,14/ 1,14/2 |
| Vijayapura | Nidoundi | Budani | 2 | 14/5,14/6 |
| Nidgundi | INIUguilui | Benal | 11 | 16/3,16/10,18/1,18/3,19/0, 20/0,20A/0,20B/0,21/0,21B /0,22/0,22/1,22A/0,23/0 |
| | | Yalgur | 1 | 23/1 |
| | | Total | 25 | |

3. Forest proposal vide No. FP/KA/TRANS/400988/2022 was submitted online on Parivesh Portal on 30th Aug 2022. However, same has been returned by MOEFCC on 12th Sept 2022 for resubmission 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 also recommended by the PCCF, Bengaluru on 17.08.2023 and forwarded to State Government for their recommendation.

4. 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).

At location No. 23/1 (Case filled for shifting of tower by land owners, hearing scheduled on 11.09.2023 at Basavana Bagewadi Court).

Status of statutory approvals:

| Forest area | | | | |
|--|-------|---|---|--|
| Locations | : | 1 Nos. ; Length 0.933 Kms | | |
| Forest area (Ha) | : | 4.2920 Ha | | |
| Online proposal | : | Submitted on 30.08.2022. Re-submitted on Parivesh 2.0 portal on 22.09.2022. | | |
| Current status | : | Proposal recomn | nended by the PCCF, Bengaluru on 17.08.2023 and | |
| | | forwarded to State Government for their recommendation. | | |
| Power line crossing | | | | |
| Total No. of crossings | | : | 18 Nos. | |
| Proposal submitted | | : | 18 Nos. | |
| Approval obtained | | : | 17 Nos. | |
| National Highway / SH | I Cro | ssing | | |
| 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) | |
| r roposar submitted | | • | | |

| Approval obtained | : | NA |
|---|---|--|
| PTCC approval Current status | : | Applied on 06.02.2023 |
| Defence/Civil Aviation Current Status | : | Civil Aviation NOC received : 31.05.23 |

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

| Land Acquired | : | 100 % land acquired |
|----------------------|---|---------------------|
| Civil work completed | : | 85% |
| Equipment supplied | : | 99% |
| Equipment erection | : | 65% |
| Scheduled COD | : | Sept'23 |
| Anticipated COD | : | Sept'23 |

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

| Land Acquired | : | 100%. Provided by POWERGRID. |
|----------------------|---|------------------------------|
| Civil work completed | : | 100 % |
| Equipment supplied | : | 100 % |
| Equipment erection | : | 100% |
| Scheduled COD | : | Sept'23 |
| Anticipated COD | : | Sept'23 |
| Scheduled COD | : | Sept'23 |

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

Background

Government of India has set a target for establishing 175 GW renewable capacity by 2022, which includes 100 GW from Solar and 60 GW from Wind. Solar Energy Corporation of India (SECI) in association with MNRE has identified Solar Energy Zones (SEZ) and Wind Energy Zones (WEZ) of 66.5 GW in seven RE rich states (Tamil Nadu, Andhra Pradesh, Karnataka, Gujarat, Rajasthan, Maharashtra and Madhya Pradesh) to be evacuated through ISTS. Out of total 66.5 GW REZs, 18.5 GW (Solar-10 GW & Wind8.5GW) of potential has been identified in the states of Tamil Nadu, Andhra Pradesh and Karnataka in Southern Region.

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

Scope of transmission project

- 1. 400/220 kV, 3x500MVA ICT Augmentation at Gadag Pooling Station
- 2. Gadag Pooling station Koppal PS 400 kV D/C line
- 3. 400 kV Line bays at both end 4 Nos.

General Details

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

Status of progress of transmission project

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

| Length | : | 100 ckm |
|----------------------|---|----------|
| Locations | : | 127 Nos. |
| Foundation completed | : | 34 Nos. |
| Tower erected | : | - |
| Stringing completed | : | - |
| Scheduled COD | : | May'24 |
| Anticipated COD | : | May'24 |

Constraints / approval; if any:

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

| District | Tehsil | Status |
|----------|-------------|--|
| Koppal | Yelburga | Request letter submitted on 12.04.2023. Meeting |
| | | with land owners for Yelburga tehsil has been held |
| | | on 25.07.2023. |
| Koppal | Kukanuru | Meeting with land owners was scheduled on |
| | | 05.08.2023. |
| | | |
| Gadag | Gajendragad | Request letter submitted on 30.05.2023. Meeting |
| | | with land owners yet to be scheduled. |

Status of statutory approvals:

| Power line crossing | | |
|--------------------------------|---|---|
| Total No. of crossings | : | 5 Nos. |
| Proposal submitted | : | 5 Nos. |
| Approval obtained | : | 2 Nos. |
| 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 | : | |
| Defence/Civil Aviation | : | |
| Current Status | : | Submitted (Civil Avaiation - 14.08.2003 ; Defence Aviation - 16.08.2023) |

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

| Land Acquired | : | 100 % (provided by GTL) |
|----------------------|---|-------------------------|
| Civil work completed | : | 68% |
| Equipment supplied | : | 20% |

| Equipment erection | : | 2% |
|--------------------|---|--------|
| Scheduled COD | : | May'24 |
| Anticipated COD | : | May'24 |

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

| Land Acquired | : | 100 % (provided by KNTL) |
|----------------------|---|--------------------------|
| Civil work completed | : | 85% |
| Equipment supplied | : | 58% |
| Equipment erection | : | 5% |
| Scheduled COD | : | May'24 |
| Anticipated COD | : | May'24 |

G R Infraprojects Limited

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

Background

Government of India has set a target for establishing 175 GW renewable capacity by 2022, which includes 100 GW from Solar and 60 GW from Wind. Solar Energy Corporation of India (SECI) in association with MNRE has identified Solar Energy Zones (SEZ) and Wind Energy Zones (WEZ) of 66.5 GW in seven RE rich states (Tamil Nadu, Andhra Pradesh, Karnataka, Gujarat, Rajasthan, Maharashtra, and Madhya Pradesh) to be evacuated through ISTS.

The Ministry of Power, Government of India, vide its 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.

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.

| Sl. No. | Scope of the Transmission Scheme |
|---------|--|
| 1. | Establishment of 400/220 kV, 3x500 MVA at Pachora SEZ PP with 420 kV (125 MVAR) bus reactor 400/220 kV, 500 MVA ICT – 3 Nos. 400 kV ICT bays – 3 Nos. 220 kV ICT bays – 3 Nos. 220 kV line bays – 2 Nos. 220 kV line bays – 6 Nos. 400 kV line bays – 6 Nos. (4 Nos. for Agar & Shajapur solar park interconnection & 2 Nos. for other RE projects) 125 MVAr, 420 kV reactor-1 No. 420 kV reactor bay – 1 No. 220kV Bus coupler bay- 1 No. 220kV Transfer Bus Coupler (TBC) bay - 1 No. Space for future Provisions: 400/220kV ICTs along with bays: 6 Nos. 400kV line bays: 9 Nos. 220kV bus reactor along with bays: 1 No. 220kV Bus sectionalizer bay: 2 Nos. (One No. bay for each Main Bus) |
| 2 | Pachora SEZ PP -Bhopal (Sterlite) 400 kV D/c line (Quad/HTLS) (with minimum capacity of 2100 MVA/ckt at No.minal voltage) along with 80MVAr switchable line reactors with 400 ohms NGR on each circuit at Pachora end, |

Scope of the Transmission Project

| | 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

| Scherun Detunis | | |
|---------------------------------|---|---|
| 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 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.

| Length Locations Foundation completed Tower erected | 287.908 Ckm (Tentative) 357 Nos. (Tentative) 328 Nos. 270 Nos. |
|--|---|
| Stringing completed | : 74.442 Ckm |
| Scheduled COD | : 29-11-2023 |
| Anticipated COD | : 29-11-2023 |
| Status of statutory approvals: a. Forest area | : Nil |
| b. Wildlife area | : Nil |
| c. Power line crossing | |
| Total No. of crossings | : 14 Nos. |
| Proposal submitted | : 14 Nos. |

| Approval obtained | : | 13 Nos. |
|-------------------|---|---------|
|-------------------|---|---------|

d. Railway crossing

| Total No. of crossings | : | 02 Nos. |
|------------------------|---|---------|
| Proposal submitted | : | 02 Nos. |
| Approval obtained | : | 00 Nos. |

e. National Highway

| Total No. of crossings | : | 03 Nos. |
|------------------------|---|---------|
| Proposal submitted | : | 03 Nos. |
| Approval obtained | : | 02 Nos. |

f. River Crossings

| Total No. of crossings | : 03 Nos. |
|------------------------|----------------------|
| Proposal submitted | : NA (Non navigable) |
| Approval obtained | : NA |

g. PTCC approval

| Current status : | Submitted to CEA, Defen | se, BSNL, Railway |
|------------------|-------------------------|-------------------|
|------------------|-------------------------|-------------------|

h. Defence/Civil Aviation

| Current Status | : | Defence & Civil Aviation Proposal Submitted |
|----------------|---|--|
| | | Civil Aviation: NOC obtained 300/357 Nos. Location |

Constraints / approvals; if any:

- 1. Obstruction on ROW by landowners at location 6A/3, 5/1, 5/2,6/0, 6/1, 21/0 & 21A/0.
- 2. For stringing work, TSP needs shutdown of 11 kV & 33 kV lines of MP State Electricity Board ,which is awaited.
- 3. Pending Approval of Railway Overhead line crossings for Under construction Bhopal-Biaora Single Railway Track RTL AP21-AP21A and Sarangpur-Biaora Single Railway Track

Details of follow-up actions:

Status of progress of Substation/ Extension: -

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

| Land Acquired | : | 100 % |
|----------------------|---|------------|
| Civil work completed | : | 85% |
| Equipment supplied | : | 80% |
| Equipment erection | : | 45% |
| Scheduled COD | : | 29-11-2023 |
| Anticipated COD | : | 29-11-2023 |

2. 400 kV line bays at Bhopal (Sterlite) for Pachora SEZ PP-Bhopal (Sterlite) 400 kV D/c line (Quad/HTLS) (with minimum capacity of 2100 MVA/ckt at No.minal voltage) - 02 Nos

| Land Acquired | : | 100 % (provided by Sterlite) |
|----------------------|---|------------------------------|
| Civil work completed | : | 85% |
| Equipment supplied | : | 90% |
| Equipment erection | : | 55 % |
| Scheduled COD | : | 29-11-2023 |
| Anticipated COD | : | 29-11-2023 |

Megha Engineering & Infrastructures Limited

35. 400 kV D/c Khandukhal (Srinagar) – Rampura (Kashipur) line (Twin HTLS*) (KRTL)

Background

Scope of transmission project

- 1. 400 kV D/c Khandukhal(Srinagar) Rampura (Kashipur) line (Twin HTLS*) 194 Km
- 2. 1x80MVAr switchable line reactor at Rampura (Kashipur) end on each circuit of Khandukhal (Srinagar) Rampura (Kashipur) line
 - a) Switching equipment for 420 kV 80 MVAR switchable line reactor –2 Nos.
 - b) 420 kV, 80 MVAr Switchable line reactor- 2 Nos.
- 3. 1 No. of 400 kV line bay at Rampura (Kashipur) S/s
 - a) 400 kV line bay -1 No.
- 4. Upgradation of existing 400kV bays at Khandukhal (Srinagar)
 - a) Upgradation works for 400 kV line bays -2 Nos.

General Details

Special Purpose Vehicle : Khandukhal Rampura Transmission Limited (KRTL) (Subsidiary of Megha Engineering & Infrastructures Limited (100%) Bid Process Coordinator (BPC) : PFC CONSULTING LIMITED (PFCCL) Estimated Cost (Rs. Cr) : -----Levelised Tariff(Rs. Cr) : 58.720 Request for Qualification : -----: 11-03-2022 Request for Proposal : 07-09-2022 Letter of Intent 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 : NEWS paper Publication done on Clearance u/s 164 31.10.2022 & Application submitted and under process. : Will be submitted on or before 05.04.2023 Execution plan submitted to CEA as per TSA : 30.12.2022 NIT issued on EPC contract awarded on : Will be submitted on or before 05.04.2023 as per TSA Scheduled Date of Completion : 30.09.2024

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

| : | 388 Ckm (Tentative) |
|---|---------------------|
| : | 487 Nos. |
| : | 200 Nos. |
| : | 177 Nos. |
| : | 0 Ckm |
| : | Sept'24 |
| : | Sept'24 |
| | : |

a. Power line crossing

| Total No. of crossings | : | 12 Nos. |
|------------------------|---|---------|
| Proposal submitted | : | 12 Nos. |
| Approval obtained | : | 9 Nos. |

b. National Highway

| Total No. of crossings | : | 04 Nos. |
|------------------------|---|---------|
| Proposal submitted | : | 04 Nos. |
| Approval obtained | : | 02 Nos. |

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

- a) Switching equipment for 420 kV 80 MVAR switchable line reactor -2 Nos.
- b) 420 kV, 80 MVAr Switchable line reactor- 2 Nos.

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

CTUIL has communicated PTCUL Vide ref: CTUIL/CMG/2022-23/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)

Meeting communication received from CEA PSPA I division on 20th February'2023 for convening meeting on 24.02.203. Minutes received on 06-03-2023. PTCUL response as per MOM is awaited.

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

As per the VC meeting held on 08.06.2023, Meeting between TSP and PTCUL held on 17.06.2023 regarding estimation of Bay Extensions area. And decision is yet to be communicated by PTCUL.

Status of statutory approvals:

Forest Land Confirmation - Forest proposal submitted on 18.04.2023

- DFO approval of Kotdwar range received and DFO approval of Pouri range Under Progress.
- CA land of 434 Hectors of degraded forest land identified. The documents scrutiny and verification is under progress. Online filing expected on or before 09.09.2023 on Parivash Portal.

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

Background:

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

General Details:

| Special Purpose Vehicle | : KPS1 Transmission Limited (KPS1TL) |
|-------------------------------------|--------------------------------------|
| Bid Process Coordinator (BPC) | : RECPDCL |
| Estimated Cost (Rs. Crs) | : 1104 |
| Levelised Tariff (Rs. Crs) | : 86.23 |
| Request for Qualification | : |
| Request for Proposal : | 25-07-2022 |
| Letter of Intent | : 23-03-2023 & 20-04-2023 |
| Transmission Service Agreement (TSA | A) : 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. Site mobilization activities under progress.
- 2. Design and Engineering works are under progress.

Apraava Energy Private Limited

37. 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

Fatehgarh 3- Bhadla-3 400kV D/C line (Quad) along with 63 MVAr switchable line reactor for each circuit at both ends of Fatehgarh 3- Bhadla 3 400kV D/c line.

- 400kV 63 MVAr Switchable line reactor- 4 No.s
- Switching equipment for 400kV 63MVAr Switchable line reactor- 4 No.s
- 400kV line bays Bhadla-3 S/s & Fatehgarh-3 S/s 4 No.s (2+2)

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 Crs |
| Levelised Tariff (Rs. Cr) | : 62.754 : |
| Request for Proposal | : 07-02-2022 |
| Letter of Intent | : 31-03-2023 |
| Transmission Service Agreement (TSA) | : 02-08-2023 |
| SPV acquisition | : 02-08-2023 |
| Transmission License by CERC | : |
| Tariff adoption by CERC | : |
| Contract Performance Guarantee | : 31.07.2023 |
| Clearance u/s 164 | : |
| Execution plan submitted to CEA | : |
| NIT issued on | : |
| EPC contract awarded on | : |
| Scheduled Date of Completion | : 01.02.2025 |

Status of progress of transmission project

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

- Length: 225 KM
- Locations:
- Foundation completed:
- Tower erected:
- Stringing completed: Nil
- Scheduled COD: February 2025

2. 400kV line bays Bhadla-3 S/s & Fatehgarh-3 S/s – 4 No.s (2+2)

:

:

:

:

- 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 |

38. 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, 400/220kV pooling station at Fatehgarh-4 along with 2x125MVAr Bus reactor
 - 400/220 kV, 500 MVA ICT 5No.s.
 - 400 kV ICT bays 5 No.s.
 - 220 kV ICT bays 5 No.s.
 - 400 kV line bays 2 No.s.
 - 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 No.s.
 - 420 kV reactor bay 2 No.s.
 - 220kV Sectionalization bay: 1 set
 - 220 kV Bus Coupler (BC) Bay -2 No.s.
 - 220 kV Transfer Bus Coupler (TBC) Bay -2 No.s.

Space for Future provisions:

- 765/400kV ICTs along with bays: 6No.s.
- 765kV line bay along with switchable line reactor: 6 No.s.
- 765kV Bus Reactor along with bays: 3 No.s.
- 400/220 kV ICTs along with bays: 8 No.s.
- 400 kV line bays along with switchable line reactor: 10 No.s.
- 400kV Bus Reactor along with bays: 2 No.s.
- 400kV Sectionalization bay: 2 sets
- 220 kV line bays: 13 No.s.
- 220 kV Sectionalization bay: 3 sets
- 220 kV Bus Coupler (BC) Bay -3 No.s.
- 220 kV Transfer Bus Coupler (TBC) Bay -3 No.s.
- Fatehgarh-4 PS- Fatehgarh-3 PS 400kV D/c Twin HTLS* line
 * with minimum capacity of 2100 MVA on each circuit at No.minal voltage
- 3. 2 No.s of 400kV 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 | : |
| Contract Performance Guarantee | : 31.07.2023 |
| Clearance u/s 164 | : |
| Execution plan submitted to CEA | : |
| NIT issued on | : |
| EPC contract awarded on | : |
| Scheduled Date of Completion | : 01.02.2025 |

Status of progress of transmission project

- 1. Establishment of 5x500MVA, 400/220kV pooling station at Fatehgarh-4 along with 2x125MVAr Bus reactor
 - Land acquisition
 - Civil Works
 - Equipment supplied
 - Erection works
 - Schedule completion : February 2025

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

:

:

:

:

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

- Length: 23 KM
- Locations:
- Foundation completed:
- Tower erected:
- Stringing completed: Nil
- Scheduled COD: February 2025

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

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

:

:

Status of statutory approvals:

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

Reliance Power Transmission Limited

39. System strengthening in NR for import of power from North Karanpura and other projects outside NR and system strengthening in WR for import of power from North Karanpura and other projects outside Western Region and also for projects within Western Region (UNDER LITIGATION)

Background

Transmission system for power evacuation from North Karanpurahas been evolved in a comprehensive manner along-with evacuation system for Maithon RB and other generation projects of DVC viz. Koderma, BokaroExtn, Mejia Extn, Durgapur and Raghunathpur and Maithon RB. The comprehensive system consists of common and generation specific transmission schemes. Corresponding to injection of power from North Karanpura and the other generation projects in ER, both NR and WR would require system strengthening. Out of the comprehensive plan of system strengthening, the elements identified for commissioning matching with North Karanpura have been covered under this scheme.

Scope of transmission project

- 1. LuckNo.w Bareilly 765 kV D/C line
- 2. Bareilly Meerut 765 kV D/C line
- 3. Agra Gurgaon(ITP) 400 kV D/C line
- 4. Gurgaon(ITP) Gurgaon (PG) 400 kV D/C line
- 5. Gurgaon (ITP) 400/220 kV GIS Substation
- 6. Sipat/Korba pooling station Seoni 400 kV D/C line

General Details

| Special Purpose Vehicle (SPV) | | th Karanpura Transmission Company Ltd. (A diary 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 No.tices 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.

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

Background

Talcher-II (4x500 MW) generation project of NTPC is located in Orissa. All the units of the generation project are already in operation. Earlier total power from this project was allocated to the states of Southern Region. Subsequently in April 2007 power allocation of Talcher-II has been revised.

For power evacuation from this project to the Southern Region a +/- 500kV 200MW HVDC bi-polar line from Talcher in Eastern Region to Kolar in Southern Region and 400 kV lines beyond Kolar is in operation however, under contingency of outage of one pole of HVDC line, there is constraint in evacuation of power from Talcher-II to Southern Region. An outage of one pole also causes jerk in Eastern-Western-Northern Region, which are operating in synchronism and result in overloading on some of the transmission lines in Eastern and Western Regions. The Talcher- Behrampur–Gazuwaka 400 kV D/C line with series compensation and switching station at Behrampur and the Talcher - Rourkela 400 kV D/C Quad line have been evolved to augment the Talcher-II Transmission System so as to provide a backup system to meet the contingency outage of one pole and increase the reliability of the system. With this system, it would be possible to schedule the power flow on Talcher - Kolar HVDC and Gazuwaka HVDC back to back in such a manner that the reliable evacuation of power from Talcher-II would be ensured.

Scope of transmission project

1. Talcher II- Rourkela 400 kV D/C Quad line

- **2.** Talcher II Behrampur 400 kV D/C line
- 3. Behrampur- Gazuwaka 400 kV D/C line
- 4. 2x315 MVA, 400/220 kV Behrampur substation

General Details

| Special Purpose Vehicle (SPV) | : | Talcher-II Transmission Company Ltd. (A subsidiary of RPTL) |
|--------------------------------------|---|--|
| Bid Process Coordinator | : | Rural Electrification Corporation |
| Estimated Cost (Rs. 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 No.tified 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.