



**Monthly progress Report of
Transmission Projects awarded
through
Tariff Based Competitive Bidding
(TBCB) Route
(Under Construction Projects)
(As on 30.04.2022)**

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

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Total Transmission Projects Awarded	:	64
Transmission Projects Commissioned/Ready for commissioning	:	38
Transmission Projects Under Construction	:	22
Tr. Projects whose construction could not be started due to litigation	:	02
Tr. Project where TSP has requested for closing of project	:	01
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1. Eastern Region Strengthening Scheme-XVIII

Background

The major generation projects in ER in future are envisaged in the central and western part of the region (Odisha, Jharkhand and Bihar); however, no major generation addition is expected in the eastern part (West Bengal). Thus, in order to provide reliable and secure power supply within the region from various future generation sources and also to facilitate power exchange with the neighbouring regions under various operating conditions, it was felt necessary to build a strong transmission network interconnecting eastern and western part of ER.

Accordingly, implementation of high capacity Ranchi – Medinipur – Jeerat 765kV D/c line along with establishment of 765/400kV substations at Medinipur and Jeerat, was approved in the 17th Standing Committee Meeting on Power System Planning of ER to provide a strong East – West connection in the Eastern Region as well as to feed large load centres of West Bengal viz. Jeerat and Subhashgram area. For further dispersal of power from these 765/400kV sub-stations, various 400kV lines have been planned.

Scope of transmission project:

Transmission Lines:

- Ranchi (New) – Medinipur 765kV D/c line with Hexa ACSR Zebra conductor along with 765kV, 240 MVAR switchable line reactor with 750Ω NGR in each circuit at Medinipur end (total: 765kV, 7x80 MVAR single phase units, 1 unit as spare).
- Medinipur - Jeerat (New) 765kV D/c line with Hexa ACSR Zebra conductor along with 765kV, 240 MVAR switchable line reactor with 600 Ω NGR in each circuit at Jeerat (New) end (total: 765kV, 7x80 MVAR single phase units, 1 unit as spare).
- Jeerat (New) – Subhasgram 400kV D/c line (ACSR Quad Moose)
- Jeerat (New) – Jeerat (WBSETCL) 400kV D/c line (ACSR Quad Moose)
- LILO of both circuits of Chandithala – Kharagpur 400kV D/c line at Medinipur.
- LILO of Jeerat (WBSETCL) – Subhasgram (PG) 400kV S/c section at Rajarhat (POWERGRID) [Line deleted from scope]

Substation:

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

765kV

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

400kV

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

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

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

765kV

- ICTs: 7×500MVA, 765/400kV (1 spare unit)
- ICT bays: 2 no.
- Line bays: 2 no.
- Bus reactor: 7×110 MVAR single phase unit including one (1) spare unit
- Bus reactor bay: 2 no.
- Space for future line bays (along with space for switchable line reactor): 4 no.
- Space for future ICT bays: 2 no.
- Space for future 765/400 kV ICT: (6x500MVA single phase units)

400kV

- ICT bays: 2 no.
 - Line bays: 4 no.
 - Bus reactor: 2×125 MVAR
 - Bus reactor bay: 2 no.
 - Space for future line bays (along with space for switchable line reactor): 4 no.
 - Space for future ICT bays: 2 no.
- 2 no. 400kV GIS line bays at Jeerat (WBSETCL)

General Details:

Special Purpose Vehicle (SPV)	:	Powergrid Medinipur-Jeerat Transmission Limited (A subsidiary of POWERGRID)
Bid Process Coordinator (BPC)	:	Power Finance Corporation
Estimated Cost	:	₹ 3994 Cr
Levellised Tariff	:	₹ 498.652 Cr
Request for Qualification	:	14-Jun-2016
Request for Proposal	:	06-Oct-2016
Letter of Intent	:	21-Feb-2017
Transmission Service Agreement (TSA)	:	17-Nov-2016
SPV acquisition	:	28-Mar-2017
Transmission License by CERC	:	20-June-2017
Tariff adoption by CERC	:	12-June-2017
Contract Performance Guarantee	:	28-Mar-2017
Clearance u/s 164	:	15- Feb-2018
Execution plan submitted to CEA	:	2-June-2017
NIT issued on	:	02-Nov-2016
EPC awarded on	:	31-Mar-2017
Scheduled Date of Completion	:	28-Jul-2020/ Dec'20*
Anticipated Date of Completion	:	May-2022

Status of progress of transmission project:

1. Ranchi – Medinipur 765kV D/C line

- Length : 269 Km
- Locations : 718 nos.
- Scheduled COD : July'2020/ Dec'2020*
- Actual COD : Feb'21

Line commissioned w.e.f. 09.02.2021.

2. Medinipur - Jeerat (New) 765kV D/C line

Award placed on 31.03.2017 to M/s. L&T

- Length: 169 Km
- Locations: 461 nos.
- Scheduled COD July'2020/ Dec'2020*
- Actual COD Sept' 2021

Line commissioned w.e.f. 29.09.2021.

3. Jeerat (New) – Subhasgram 400kV D/C line

(Award placed on 31.03.2017 to M/s. L&T)

- Length: 107 Km
- Locations: 312 nos.
- Foundation 313 nos .
- Tower erection 312 nos.
- Stringing 95 kms
- Scheduled COD July'2020/ Dec'2020*
- Anticipated COD May'2022

Status of statutory approvals:

Forest: Nil

Power line crossing (66kV and above)

Total no. of crossings	:	11	nos.
Proposal submitted	:	11	nos. Date: 3 nos. each in Jul & Nov'18
Approval obtained	:	11	nos. Date: 3 nos each in Sep & Nov'18

Railway crossing

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

National Highway Crossing

Totalno. of crossings	:	01	nos.
Proposal submitted	:	01	nos.
Approval obtained	:	01	(at final stage)

River Crossings : NIL

Defence/Civil Aviation : Approved.

Constraints being faced during execution:

1. Work has been affected due to COVID-19 pandemic.
2. Work affected by Cyclone Amphan in May'20.
3. Work affected due to state assembly election in Apr'21.
4. Work also affected due to 2nd wave of COVID-19 in Apr'21.

Constarints where Project Authority requires intervention:

1. **PTCC approval** : Submitted on 23.01.2021.proposal at BSNL,KOLKATA office. Approval awaited.
2. Severe RoW being faced. Administration support required for clearance of fronts. Letter written to Chief Secretary, Govt of West Bengal seeking help in resolution of RoW.
3. In a meeting held on 28.06.2021, Member(PS), CEA reviewed this project

4. Jeerat (New) – Jeerat (WBSETCL) 400kV D/C line

Award placed on 31.03.2017 to M/s. L&T

- Length : 25.58 Km
- Locations : 81 nos.
- Scheduled COD : July'2020/ Dec'2020*
- Anticipated COD : Sept'2021

Commissioned wef 29.09.2021.

5. LILO of Jeerat (WBSETCL) – Subhasgram (PG) 400kV at Rajarhat

(Award placed on 31.03.2017 to M/s. L&T)

- Length : 12 Km
- Locations : 37 nos.
- Scheduled COD : Jul' 20

Status: Scope **Deleted** vide CEA letter dated 04.04.18.

6. LILO of both circuits of Chandithala – Kharagpur 400kV D/C line at Medinipur

(Award placed on 31.03.2017 to M/s. L&T)

- Length : 74 Km
- Locations : 199 Nos.
- Scheduled COD : July' 2020/ Dec'2020*
- Actual COD : Feb' 2021

Line commissioned w.e.f. 09.02.2021.

7. 2x1500 MVA , 765/400 kV Substation at Medinipur

(Award placed on 29.09.2017 to M/s BHEL)

Scheduled COD	:	July'2020/ Dec'2020*
Actual COD	:	Sept' 2021

As per transmission service agreement dated 17.11.2016 Medinipur substation is commissioned w.e.f. 09.02.2021. However, bays related to Medinipur -Jeerat **line commissioned on 29.09.21**

8. 2x1500 MVA , 765/400 kV Substation at Jeerat (New)

(Award placed on 29.09.2017 to M/s BHEL)

Land acquired	:	100 %
Civil work completed	:	100 %
Equipment supplied	:	100 %
Equipment erection	:	99 %
Scheduled COD	:	July'2020/ Dec'2020*
Actual COD	:	Sept' 2021

As per transmission service agreement dated 17.11.2016, Jeerat substation is commissioned w.e.f. 29.09.2021. However, bays related to the Jeerat -Subhashgram line shall be commissioned with the completion of line.

9. Extension of 400 kV Substation at Jeerat (WBSETCL)

(Work being executed by WBSETCL.)

Commissioned wef 29.09.21

2. Transmission System for providing connectivity to RE Projects at Bhuj-II (2000 MW) in Gujarat

Background

Govt. of India has set a target for establishing 175 GW renewable capacity by 2022 which includes 100 GW Solar, 60 GW Wind generation capacity. This includes installation of 3.5 GW, 4.5 GW & 20 GW of solar/wind capacity in WR under Phase-I (Dec'20/Mar'21), Phase-II (Dec'21) & Phase-III (Beyond Dec'21) respectively.

For integration and evacuation of power from envisaged wind potential in Bhuj (2GW)/Dwarka (1.5GW) areas under Phase-I and Lakadia (2GW) under Phase-II, a high capacity 765kV and 400kV transmission system interconnecting Bhuj, Lakadia, Banaskantha, Vadodara & Dwarka along with establishment of 765/400/220kV new substations at Bhuj-II & Lakadia and 400/220kV new substation at Jam Khambhaliya (Dwarka) have been planned.

The subject transmission scheme involves implementation of Bhuj-II PS along with reconfiguration of Bhuj-PS – Lakadia PS 765kV D/C line so as to the establish Bhuj II – Lakadia 765 kV D/C line as well as Bhuj- Bhuj II 765kV D/C line. This would help in providing a strong ISTS Grid connectivity to various RE projects envisaged in the vicinity of the proposed Bhuj-II Pooling station.

The proposed Transmission System was discussed and agreed in the 1st meeting of Western Region Standing Committee on Transmission (WRSCT) held on 5.9.2018. Further in the 2nd WRSCT meeting held on 21.05.2019, 1×240 MVAR, 765 kV switchable line reactor in each circuit at Bhuj-II PS end of Bhuj II – Lakadia 765 kV D/c line was also agreed due to shift in location of Bhuj-II PS.

The Transmission System has also been agreed in 38th WRPC meeting held on 28.06.2019. Hon'ble Commission i.e CERC has also granted Regulatory Approval for the same vide order dated 10.10.2019 in petition No. 197/MP/2019.

Scope of Transmission Project:

Transmission Line

1. Reconfiguration of Bhuj PS – Lakadia PS 765kV D/c line so as to establish Bhuj-II – Lakadia 765 kV D/C line as well as Bhuj-Bhuj-II 765kV D/C line

Substation

1. Establishment of 2×1500 MVA (765/400kV), 4×500 MVA (400/220kV) Bhuj-II PS (GIS) with 765kV (1×330 MVAR) and 420kV (1×125 MVAR) bus reactor
(2×1500MVA (765/400kV), 4×500MVA (400/220kV)), 1×500 MVA (765/400kV), 1-ph ICT (spare unit);

400 kV ICT bay-6nos.; 765 kV ICT bay-2nos.; 220 kV ICT bay-4 nos.; 765 kV line bay-4 nos.; 220 kV line bay -7nos.; 1x330 MVar, 765 kV; 1x125 MVar, 420 kV; 765 kV reactor Bays -1 no.; 400 kV reactor Bays -1 no.; 1x110 MVAR, 765 kV, 1-ph Reactor (spare unit).

Space for Future provisions:

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

2. 1x240MVar switchable Line reactor for each circuit at Bhuj-II PS end of Bhuj-II- lakadia 765 kV D/c line (2x240 MVAR, 765 kV with 400-ohm NGR; 765 kV Reactor Bays-2 no.; 1x80 MVAR, 765 kV, 1ph switchable line Reactor (spare unit) at Bhuj-II end).

General Details

Special Purpose Vehicle (SPV) (Formerly as Bhuj-II Transmission Ltd)	: POWERGRID BHUJ TRANSMISSION LIMITED
Bid Process Coordinator (BPC)	: PFC Consulting Ltd.
Estimated Cost	: ₹ 645 Cr.
Levellised Tariff	: ₹ 123.76 Cr.
Request for Proposal	: 12.06.2019
Letter of Intent	: 31.07.2019
Transmission Service Agreement (TSA)	: 23.04.2019
SPV acquisition	: 16.10.19
Transmission License by CERC	: 03.03.2020
Tariff adoption by CERC	: 05.03.2020
Clearance u/s 164	: Notification(Dt 24 th Jul'20) published in Gazette of India on 21 th August 2020.
Execution plan submitted to CEA	: Submitted on 20.05.2020.
NIT issued on	: NIT for all Pkges issued.
EPC awarded on	: All Package awarded
Scheduled Date of Completion	: Dec'2020/ May'2021*/Aug'21**
Anticipated Date of Completion	: Sep'22

Status of progress of transmission project:-

1. **Reconfiguration of Bhuj PS – Lakadia PS 765kV D/c line so as to establish Bhuj-II –Lakadia 765 kV D/C line as well as Bhuj-Bhuj-II 765kV D/C line**
Award placed to M/s Transrail Lighting Limited

Awarded to M/s Transrail Lighting limited

- Length: 106 km
- Locations: 284 nos.
- Foundation completed: 284 nos.
- Towers erected : 284 nos.
- Stringing completed: 68 km
- Scheduled COD Dec'20/ May'21*/Aug'21**
- Anticipated COD May '22

Status of statutory approvals:

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

2.Defence/Civil Aviation : Proposal is being prepared (On hold because of pending survey due to RoW by Villagers).

Constraints being faced during execution:

1. Work has been affected due to COVID-19 pandemic.
2. For finalization of land compensation rate for affected locations/ RoW, Joint hearing by local administration with Villagers & PBT/PGCIL held and office order issued by local administration in this regard on 17th Jan'21. Severe RoW in 16km/45loc. was being encountered in village Jadodrakotda, taluka-Nakhatrana of Kutch district in Gujarat and with the help of local admin. & Police Support Survey work was resumed in Dec'21 and completed in Dec'21. Work is under progress with Police Protection.

Constraints where Project Authority requires intervention:

1. Power line crossing

Total no. of crossings : 14 nos. (7 nos. Loop IN & 7 nos. Loop Out)
 Proposal submitted : 12 nos. (Submission of 02 nos proposal is pending because of pending survey towards Bhuj-II Substation end).
 Approval obtained : 12 nos. obtained till Jan'21.

2. PTCC approval : Proposal submitted.

3. Severe ROW being faced. Support of local administration is required.

Action taken:

1. Several DO letters by JS(Trans), Member (PS), Secretary (P) were sent to Govt. of Gujarat. (within a span of 8 months)
2. A DO letter dated 22/7/2021 was sent to Govt. Gujarat by Hon'ble Minister of Power.

2. Establishment of 765/400/220kV, Bhuj-II PS (GIS)

Awarded to M/s KEC & M/s NHVS

Land acquired : Land handed over to agency
 Civil work : Major civil works are completed. Control room building & FFPH etc. are in progress.
 Equipment supplied : GIS and other On Shore supplies are in progress.
 Equipment erection : Erection works of GIS Hall 765kV, 400 kV & 220kV and Towers are completed and Balance Eqp erection are in progress..
 Scheduled COD : Dec'20/ May'21*/Aug'21**

Anticipated COD : Sep'22

Constraints being faced during execution:

1. Work has been affected due to COVID-19 pandemic.
2. Off Shore and On-Shore supplies are expected to be delayed from their original schedule. **Supply of 765kV Transformer and Bus Reactors from M/s BHEL** are currently affected as the bushings and CRGO are to be imported from China.
3. Supply of 765 kV, 400 kV & 220 kV GIS is also affecting because of procurement of GIS component from NHVS, China and partially from Indian Vendors under Make in India.

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

Background

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

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

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

Scope of Transmission Project-

Transmission Line

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

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

Substation

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

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

General Details

Special Purpose Vehicle (SPV)	:	Ramgarh New Transmission Limited
Bid Process Coordinator (BPC)	:	REC Ltd.
Estimated Cost	:	₹ 353.85 Cr.
Levelling Tariff	:	₹ 39.053 Cr.
Request for Proposal	:	11.05.20
Letter of Intent	:	29.01.21
Transmission Service Agreement (TSA)	:	11.11.20
SPV acquisition	:	09.03.21
Transmission License by CERC	:	Applied on 15.03.21.
Tariff adoption by CERC	:	Applied on 15.03.21.
Clearance u/s 164	:	22.12.21

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

Status of progress of transmission project:-

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

Award placed to M/s KPTL

Length:	44 km
Locations:	114nos.
Foundation completed	89 nos
Towers erected	34 Nos
Stringing completed	-
Scheduled COD	Sep'22/Dec'22**
Anticipated COD	Dec'22

Status of statutory approvals:

River Crossings

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

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

Railway crossing

Total no. of crossings	:	NIL
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National Highway Crossing

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

Forest:

Division Name: Jaisalmer (0.1794 Ha)

Forest type: PF (NH-1)

Online Proposal submission: 28.04.21

Accepted by Nodal: 09.06.21

Hardcopy submitted to DFO/DM on: 16.06.21

Receipts uploaded in PARIVESH on: 16.06.21

Marked to DFO on: 17.06.21

Forwarded to CCF: 13.09.21

Forwarded to NO: 06.10.21. Forwarded to Sec (Forest), Govt. of Raj 19.10.21

Stage-I accorded from O/o Sec (Forest), Govt. of Raj on 18.11.2021

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

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

Award placed to M/s KPTL

Length:	50 km
Locations:	128 nos.
Foundation completed	93 nos.
Towers erected	49 No
Stringing completed	-
Scheduled COD	Sep'22/Dec'22**
Anticipated COD	Dec'22

Status of statutory approvals:

River Crossings

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

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

Railway crossing

Total no. of crossings	:	NIL
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National Highway Crossing

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

Forest:

Division Name: Jaisalmer (0.092 Ha)
Forest type: PF (NH-1)
Online Proposal submission: 29.04.21
Accepted by Nodal: 14.06.21
Hardcopy submitted to DFO/DM on: 16.06.21
Receipts uploaded in PARIVESH on: 16.06.21
Marked to DFO on: 17.06.21
Forwarded to CCF: 13.09.21
Forwarded to NO: 06.10.21. Forwarded to Sec (Forest), Govt. of Raj on 19.10.21
Stage-I accorded from O/o Sec (Forest), Govt. of Raj on 18.11.2021

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

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.

3. Status of progress of Substation and Bay Extensions:-**1. 400/220kV New Ramgarh II Substation (Fatehgarh -III)**

Land Acquisition	:	Land Taken over
Civil work completed	:	5%
Equipment supplied	:	10%
Equipment erection	:	
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD	:	Dec'22

2. Extension of 400 Fatehgarh-II Substation

Land Acquisition	:	Available
Civil work completed	:	60 %
Equipment supplied	:	40 %
Equipment erection	:	20%
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD	:	Dec'22

3. Extension of 400kV Jaisalmer II Substation

Land Acquisition	:	Available
Civil work completed	:	40%
Equipment supplied	:	30 %
Equipment erection	:	10 %
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD	:	Dec''22

Constraints being faced during execution:

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

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

SPV Name: Bikaner-II Bhiwadi Transco Limited

Background

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

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

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

Scope of Transmission Project-

Transmission Line

Bikaner II- Khetri 400kV D/C line (Twin HTLS)

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

Substation

Establishment of 400/220kV Bikaner II Pooling Station with \pm 300 MVAR, 2x125 MVAR MSC, 1x125 MVAR MSR & 2x125MVAR, 420kV Bus Reactor , 4x80MVAR, 420kV Line Reactors.

Construction of 4 nos. of 400kV line bays at Khetri for Bikaner II – Khetri 400kV 2xD/c line & Construction of 2 nos. of 400kV line bays at Khetri for Khetri - Bhiwadi 400kV D/c line alongwith 4x80MVAR, 420kV Line Reactors

Construction of 2 nos. of 400 kV (GIS) line bays at Bhiwadi for Khetri- Bhiwadi 400kV D/c line

General Details

Special Purpose Vehicle (SPV)	:	Bikaner-II Bhiwadi Transco Limited
Bid Process Coordinator (BPC)	:	PFC Consulting Ltd.
Estimated Cost	:	₹ 1340.81 Cr.
Levelling Tariff	:	₹ 140.486Cr.
Request for Proposal	:	06.03.20
Letter of Intent	:	16.02.21
Transmission Service Agreement (TSA)	:	16.10.20
SPV acquisition	:	25.03.21

Transmission License by CERC	:	Applied on 5.04.21.
Tariff adoption by CERC	:	Applied on 5.04.21
Clearance u/s 164	:	Village list Published in Newspaper on 26.06.2021 .Gazette Notification done on 21.08.2021
Execution plan submitted to CEA :	To be submitted.	
NIT issued on	:	NIT for all Pkges issued.
EPC awarded on	:	NOAs issued
Scheduled Date of Completion	:	Sep'22/Dec'22**

Status of progress of transmission project:-

1. Bikaner II- Khetri 400kV D/C line (Twin HTLS)

Award placed to M/s KEC &KPTL

Length:	272 km
Locations:	703nos.
Foundation completed	566 nos.
Towers erected	446 nos.
Stringing completed	26 km
Scheduled COD	Sep'22/Dec'22**
Anticipated COD	Dec'22

Status of statutory approvals:

River Crossings

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

Total no. of crossings	:	25	nos.
Proposal submitted	:	23	nos.
Approval obtained	:	16	nos.

Railway crossing

Total no. of crossings	:	05	nos.
Proposal submitted	:	05	nos.
Approval obtained	:	00	nos.

National Highway Crossing

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

Forest:

Division Name: Bikaner (1.7860 Ha)

Forest type: PF (NH-1, Canal-3)

Online Proposal submission: 07.06.21

Accepted by Nodal: 28.07.21

Hard Copy submitted to DFO/DM on: 10.08.21

Receipts uploaded in PARIVESH on: 10.08.21

Marked to DFO on: 11.08.21

Query by DFO on 15.09.21 to revise area as per layby & same submitted to DFO on 18.10.2021.

Site visit done by DFO on 22.11.2021.

Division Name: Jhunjhunu, Sikar, Churu (1.38 Ha)
 Forest type: UF
 Online Proposal submission: 11.06.21
 Accepted by Nodal: 03.08.21
 Hard Copy submitted to DFO/DM on: 18.08.21
 Receipts uploaded in PARIVESH on: 19.08.21
 Marked to DFO Churu, Sikar, Jhunjhunu: 19.08.21
 DFO, Sikar sought additional information (Toposheet & Polygon shape correction) on 15.09.2021.
 Same submitted to DFO on 18.10.2021.
 DFO, Jhunjhunu sought additional information from Power Grid on 20.10.2021.
 Reply to concern DFO are under preparation.

PTCC approval : Under Preparation.

Defence Aviation : Proposal Submitted.

Civil Aviation : Proposal Submitted.

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

Award placed to M/s TLL

Length:	124km
Locations:	325nos.
Foundation completed	253 nos.
Towers erected	215 nos.
Stringing completed	-
Scheduled COD	Sep'22/Dec'22**
Anticipated COD	Dec'22

Status of statutory approvals:

River Crossings

Total no. of crossings : NIL nos.

Power line crossing

Total no. of crossings : 27 nos.

Proposal submitted : 20 nos.

Approval obtained : 00 nos.

Railway crossing

Total no. of crossings : 04 nos.

Proposal submitted : 00 nos.

Approval obtained : 00 nos.

National Highway Crossing

Total no. of crossings : 4 nos.

Proposal submitted : 4 nos.

Approval obtained : 0 nos.

Forest:

Proposal under preparation

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

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.

Status of progress of Substation and Bay Extensions:-

1. 400/220kV New Bikaner II Substation

Land Acquisition	:	Land possession taken in Jan'22.
Civil work completed	:	8%
Equipment supplied	:	15%
Equipment erection	:	
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD	:	Dec'22

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

Land Acquisition	:	Land possession taken in Jan'22.
Civil work completed	:	5%
Equipment supplied	:	15%
Equipment erection	:	
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD	:	Dec'22

3. Extension of 400kV Khetri Substation

Land Acquisition	:	Available
Civil work completed	:	70 %
Equipment supplied	:	65 %
Equipment erection	:	40 %
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD	:	Dec'22

4. Extension of 400kV Bhiwadi Substation

Land Acquisition	:	Available
Civil work completed	:	80%
Equipment supplied	:	60%
Equipment erection	:	40%
Scheduled COD	:	Sep'22/Dec'22**
Anticipated COD	:	Dec'22

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.

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

Background

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

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

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

Scope of Transmission Project-

Transmission Line

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

Substation

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

General Details

Special Purpose Vehicle (SPV)	:	Fatehgarh Bhadla Transco Limited
Bid Process Coordinator (BPC)	:	REC Transmission Projects Company Ltd..
Estimated Cost	:	₹ 713.82 Cr.
Levelling Tariff	:	₹ 72.893 Cr.
Request for Proposal	:	05.03.20
Letter of Intent	:	29.01.21
Transmission Service Agreement (TSA)	:	11.11.20
SPV acquisition	:	04.06.21
Transmission License by CERC	:	Applied on 16.06.21.
Tariff adoption by CERC	:	Applied on 16.06.21
Clearance u/s 164	:	To be applied.
Execution plan submitted to CEA :		To be submitted.
NIT issued on	:	NIT for all Pkges issued.
EPC awarded on	:	NOAs issued

Scheduled Date of Completion : Dec'22

Status of progress of transmission project:-

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

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

- Length: 190.14km
- Locations: 492 nos.
- Foundation completed 302 nos.
- Towers erected 206 Nos
- Stringing completed 1.5 km
- Scheduled COD Dec'22
- Anticipated COD Dec'22

Status of statutory approvals:

River Crossings

Total no. of crossings : NIL nos.

Power line crossing

Total no. of crossings : 21 nos.

Proposal submitted : 20 nos.

Approval obtained : 14 nos.

Railway crossing

Total no. of crossings : 02 nos.

Proposal submitted : 02 nos.

Approval obtained : 00 nos.

National Highway Crossing

Total no. of crossings : 02 nos.

Proposal submitted : 02 nos.

Approval obtained : 00 nos.

Forest:

Division Name: Jaisalmer & Jodhpur (0.2216)

Forest type: PF (NH-1, Jaisalmer)

Online Proposal submission: 26.04.21

Accepted by Nodal: 09.06.21

Hard Copy submitted to DFO/DM on: 17.06.21

Receipts uploaded in PARIVESH on: 17.06.21

Marked to DFO on: 17.06.21

Forwarded to CCF: 12.08.21 (Jodh), 17.09.21(Jaisl)

Forwarded by CCF, Jodhpur on 28.10.2021 to NO, Jaipur.

Forwarded by CCF, Jaisalmer on 09.11.2021 to NO, Jaipur

PTCC approval : Proposal submitted , under approval.

Defence Aviation	:	Proposal submitted , under approval.
Civil Aviation	:	Proposal submitted , under approval.

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.
2. Transmission License and Regulatory approval not given by CERC pending clearance of lines from committee formed by Supreme Court on GIB issue.

Status of progress of Substation and Bay Extensions:-

1. Extension of 765kV Fatehgarh II Substation

Land Acquisition	:	Available.
Civil work completed	:	22%
Equipment supplied	:	15%
Equipment erection	:	
Scheduled COD	:	Dec'22
Anticipated COD	:	Dec'22

2. Extension of 765kV Bhadla II Substation

Land Acquisition	:	Available
Civil work completed	:	20%
Equipment supplied	:	10%
Equipment erection	:	
Scheduled COD	:	Dec'22**
Anticipated COD	:	Dec'22

Constraints being faced during execution:

1. Work affected due to COVID-19 pandemic.
2. Transmission License and Regulatory approval not given by CERC pending clearance of lines from committee formed by Supreme Court on GIB issue

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

SPV Name: Sikar New Transmission Limited

Background

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

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

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

Scope of Transmission Project-

Transmission Line

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

Substation

- Establishment of 765/400kV Sikar II Substation with 2x 1500 MVA 765/400kV ICTS, 2x 330 MVA, 765kV Bus Reactors and 1x 125 MVA, 400kV Bus Reactor and 2x 330MVA Switchgear line reactors for Bhadla II – Sikar II transmission Line.
- Construction of 02 No 765kV bays at Bhadla II for Bhadla II – Sikar II 765kV D/C Line along with 2/240MVA 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)	:	Sikar New Transmission Limited
Bid Process Coordinator (BPC)	:	REC Transmission Projects Company Ltd.
Estimated Cost	:	₹ 1562 Cr.
Levelling Tariff	:	₹ 163.705 Cr.
Request for Proposal	:	05.03.20
Letter of Intent	:	01.02.21
Transmission Service Agreement (TSA)	:	14.12.20
SPV acquisition	:	04.06.21
Transmission License by CERC	:	Applied on 16.06.21.
Tariff adoption by CERC	:	Applied on 16.06.21

Clearance u/s 164	:	Village list Published in Newspaper on 07.07.2021. Gazette Notification done on 14.08.2021.
Execution plan submitted to CEA :		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. Bhadla II – Sikar II 765kV D/C line

Award placed to M/s KEC

- Length: 306 km
- Locations: 764 nos.
- Foundation completed 367 nos.
- Towers erected 210 No
- Stringing completed 7.5 km
- Scheduled COD Dec'22
- Anticipated COD Dec'22

Status of statutory approvals:

River Crossings

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

Total no. of crossings	:	17	nos.
Proposal submitted	:	15	nos.
Approval obtained	:	06	nos.

Railway crossing

Total no. of crossings	:	03	nos.
Proposal submitted	:	03	nos.
Approval obtained	:	00	nos.

National Highway Crossing

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

Forest:

Division Name: Jodhpur, Nagour, Sikar (0.6231 Ha)
 Forest type: PF (SH-3, one in each)
 Online Proposal submission: 01.06.21
 Accepted by Nodal: 21.06.21
 Hard Copy submitted to DFO/DM on: 08.07.21
 Receipts uploaded in PARIVESH on: 08.07.21
 Marked to DFO Jodhpur, Nagaur, Sikar: 08.07.21

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

2. **Sikar II - Neemarana 400kV D/C line (Twin HTLS)**

Award placed to M/s KEC

- Length: 137 km
- Locations: 350 nos.
- Foundation completed 150 Nos
- Towers erected 96 nos.
- Stringing completed -
- Scheduled COD Dec'22
- Anticipated COD Dec'22

Status of statutory approvals:

River Crossings

Total no. of crossings : NIL nos.

Power line crossing

Total no. of crossings : 15 nos.

Proposal submitted : 03 nos.

Approval obtained : 00 nos.

Railway crossing

Total no. of crossings : 01 nos.

Proposal submitted : 01 nos.

Approval obtained : 00 nos.

National Highway Crossing

Total no. of crossings : 03 nos.

Proposal submitted : 02 nos.

Approval obtained : 00 nos.

Forest:

Division Name: Sikar, Jhunjhunu, Jaipur(N), Alwar (12.2636 Ha)

Forest type: PF (Sikar & Alwar)

Online Proposal submission: 29.06.21

Accepted by Nodal: 03.08.21

Hard Copy submitted to DFO/DM: 18.08.21

Receipts uploaded in PARIVESH on: 19.08.21

Marked to DFOs: 24.08.21

Division Name: Mahendragarh (NH-1, Canal-1) (0.2254 Ha)

Forest type: PF

Online Proposal submission: 08.08.21

Accepted by Nodal: 20.08.21

Hard Copy submitted to DFO/DM: 26.08.21

Receipts uploaded in PARIVESH on: 27.08.21
Marked to DFO: 01.09.21

PTCC approval : Proposal under preparation.

Defence Aviation : Proposal under preparation.

Civil Aviation : Proposal under preparation.

Constraints being faced during execution:

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

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	:	Dec'22

2. Extension of 765kV Bhadla II Substation

Land Acquisition	:	Available
Civil work completed	:	70%
Equipment supplied	:	55 %
Equipment erection	:	20%
Scheduled COD	:	Dec'22**
Anticipated COD	:	Dec'22

3. Extension of 400kV Neemrana Substation

Land Acquisition	:	Available
Civil work completed	:	60%
Equipment supplied	:	50%
Equipment erection	:	15%
Scheduled COD	:	Dec'22**
Anticipated COD	:	Dec'22

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 by CERC expected shortly.

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

SPV Name: Sikar II – Aligarh Transmission Limited

Background

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

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

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

Scope of Transmission Project-

Transmission Line

Sikar II- Aligarh 765kV D/C line

Substation

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

General Details

Special Purpose Vehicle (SPV)	:	Sikar II – Aligarh Transmission Limited
Bid Process Coordinator (BPC)	:	PFC Consulting Ltd.
Estimated Cost	:	₹ 1006 Cr.
Levelling Tariff	:	₹ 99.701Cr.
Request for Proposal	:	06.03.20
Letter of Intent	:	16.02.21
Transmission Service Agreement (TSA)	:	02.11.20
SPV acquisition	:	08.06.21
Transmission License by CERC	:	Applied on 16.06.21
Tariff adoption by CERC	:	Applied on 16.06.21
Clearance u/s 164	:	To be applied.
Execution plan submitted to CEA :	:	To be submitted.
NIT issued on	:	NIT for all Pkges issued.
EPC awarded on	:	NOAs issued
Scheduled Date of Completion	:	Dec'22

Status of progress of transmission project:-

1. Sikar II – Aligarh 765kV D/C line

Award placed to M/s KPTL

- Length: 254 km
- Locations: 664 nos.
- Foundation completed 543 nos.
- Towers erected 391 nos
- Stringing completed 23 km
- Scheduled COD Dec'22
- Anticipated COD Dec'22

Status of statutory approvals:

River Crossings

Total no. of crossings : NIL nos.

Power line crossing

Total no. of crossings : 37 nos.

Proposal submitted : 35 nos.

Approval obtained : 31 nos.

Railway crossing

Total no. of crossings : 03 nos.

Proposal submitted : 03 nos.

Approval obtained : 00 nos.

National Highway Crossing

Total no. of crossings : 05 nos.

Proposal submitted : 05 nos.

Approval obtained : 00 nos.

Forest:

Division Name: Sikar, Jaipur (N), Alwar (15.6043 Ha)

Forest type: PF (NH-1)

Online Proposal submission: 26.07.21

Accepted by Nodal: 18.08.21

Hard Copy submitted to DFO/DM on: 03.09.21

Receipts uploaded in PARIVESH on: 03.09.21

Marked to DFOs: 03.09.21

Division Name: Mewat, Palwal (17.1721 Ha)

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

Online Proposal submission: 19.08.21

Accepted by Nodal: 23.08.21

Hard Copy submitted to DFO/DM on: 03.09.21