GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.317
ANSWERED ON 05.12.2023

COMPETITIVE BIDDING IN TRANSMISSION SECTOR

317 SHRI MOHAMMED NADIMUL HAQUE:

Will the Minister of **POWER** be pleased to state:

(a) the reasons for hyper-competitive bidding in transmission sector in FY 2021 to FY 2023 and its impact on tariffs, if any;

(b) the details of all inter-state transmission projects awarded to industry players along with their winning quotes under competitive bidding as well as nomination basis between FY2021 to FY 2023;

(c) the Government's view on whether hyper-competitive bidding is distorting the level playing field in the sector and thereby impacting the sector in the long run; and

(d) the steps being planned to check hyper-competitive bidding to ensure a level-playing field?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a), (c) & (d): Transmission projects are generally awarded for implementation through Tariff Based Competitive Bidding (TBCB) route. TBCB route was introduced to bring competition in development of the transmission infrastructure in the country. Any apprehension about “hyper-competitive bidding in transmission sector” in FY 2021 to FY 2023 is unfounded.

(b) : Details of Transmission projects awarded through Tariff Based Competitive Bidding (TBCB) route during the period FY2021 to FY2023 along with the yearly discovered tariff are enclosed at **Annexure-I**. Details of Transmission projects along with the total estimated cost awarded on nomination basis during the same period is given at **Annexure-II.**

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ANNEXURE-I

ANNEXURE REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 317 ANSWERED IN THE RAJYA SABHA ON 05.12.2023

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Transmission projects awarded under Tariff Based Competitive Bidding (TBCB) route during the period from FY2021 to FY2023

Sl. No.	Transmission Project	Name of the successful Bidder	Tariff discovered (Yearly) (In Rs Cr.)	BPC
FY 2020-21				
1	Western Region Strengthening Scheme- XIX (WRSS-XIX) and North Eastern Region Strengthening Scheme- IX (NERSS-IX)	Sterlite Grid 13 Limited	256.59	PFCCL
2	Transmission system strengthening scheme for evacuation of power from solar energy zones in Rajasthan (8.1 GW) under Phase-II Part-F	Power Grid Corporation of India Limited	140.40	PFCCL
3	Transmission system strengthening scheme for evacuation of power from solar energy zones in Rajasthan (8.1 GW) under Phase II -Part A.	M/s Power Grid Corporation of India Limited	39.05	RECPDCL
FY 2021-22				
4	Transmission system strengthening scheme for evacuation of power from solar energy zones in Rajasthan (8.1 GW) under Phase-II Part-D	Power Grid Corporation of India Limited	99.70	PFCCL
5	Evacuation of power from RE sources in Koppal Wind Energy Zone (Karnataka) (2500MW)	ReNew Transmission Venture Pvt. Ltd.	61.13	PFCCL
6	Establishment of new 220/132kV substation at Nangalbibra	Sterlite Grid 26 Ltd.	55.86	PFCCL
7	Evacuation of power from RE sources in Karur/ Tiruppur Wind Energy Zone (Tamil Nadu) (1000MW) under Phase-I	Adani Transmission Ltd.	18.35	PFCCL
8	Transmission scheme for evacuation of 3 GW RE injection at Khavda P.S. under Phase-I	Adani Transmission Ltd.	100.03	PFCCL
9	Transmission system strengthening for evacuation of power from solar energy zones in Rajasthan (8.1 GW) under Phase II -Part B	M/s Power Grid Corporation of India Limited	72.89	RECPDCL
10	Transmission system strengthening scheme for evacuation of power from solar energy zones in Rajasthan (8.1 GW) under phase-II- Part C.	M/s Power Grid Corporation of India Limited	163.71	RECPDCL
11	Transmission System for evacuation of power from RE Projects in Osmanabad area (1 GW) in Maharashtra.	Consortium of Indi Grid 1 Limited and Indi Grid 2 Limited	16.74	RECPDCL

12	Transmission Scheme for Solar Energy Zone in Gadag (2500 MW), Karnataka - Part A.	M/s ReNew Transmission Ventures Private Limited	29.7	RECPDCL
FY 2022-23				
13	Transmission system strengthening scheme for evacuation of power from solar energy zones in Rajasthan (8.1 GW) under Phase-II Part-G	Power Grid Corporation of India Limited	148.41	PFCCL
14	400 kV Khandukhal (Srinagar) - Rampura (Kashipur) D/C Line	Megha Engineering & Infrastructures Limited	58.72	PFCCL
15	Transmission System for Evacuation of Power from Pakaldul HEP in Chenab Valley HEPs - Connectivity System	Sterlite Grid 24 Limited	38.85	PFCCL
16	Western Region Expansion Scheme-XXVII (WRES-XXVII)	Power Grid Corporation of India Limited	29.72	PFCCL
17	Western Region Expansion Scheme-XXVIII (WRES-XXVIII)" & "Western Region Expansion Scheme-XXIX (WRES-XXIX)	Power Grid Corporation of India Limited	28.69	PFCCL
18	Transmission System Strengthening Scheme for Evacuation of Power from Solar Energy Zones in Rajasthan (8.1 GW) under Phase-II Part-E	Power Grid Corporation of India Limited	135.22	PFCCL
19	Transmission system for evacuation of power from RE projects in Rajgarh (2500 MW) SEZ in Madhya Pradesh.	M/s G R Infraprojects Limited	40.82	RECPDCL
20	Transmission system for evacuation of power from Neemuch SEZ	M/s Power Grid Corporation of India Limited	78.38	RECPDCL
21	System Strengthening Scheme for Eastern and North Eastern Regions	M/s Power Grid Corporation of India Limited	35	RECPDCL
22	Transmission Scheme for Solar Energy Zone in Gadag (1500 MW), Karnataka: Part A-Phase-II.	M/s ReNew Transmission Ventures Private Limited	24.54	RECPDCL
23	ISTS Network Expansion scheme in Western Region & Southern Region for export of surplus power during high RE scenario in Southern Region.	M/s Adani Energy Solutions Limited	213.48	RECPDCL
24	Inter-regional ER-WR Interconnection.	M/s Power Grid Corporation of India Limited	29.01	RECPDCL
25	Transmission scheme for evacuation of 4.5 GW RE injection at Khavda P.S. under Phase-II – Part B, Gujarat.	M/s Power Grid Corporation of India Limited	110.64	RECPDCL

26	Transmission scheme for evacuation of 4.5 GW RE injection at Khavda P.S. under Phase-II – Part C, Gujarat	M/s Power Grid Corporation of India Limited	281.70	RECPDCL
27	Transmission Network Expansion in Gujarat associated with integration of RE projects from Khavda potential RE zone.	M/s Power Grid Corporation of India Limited	77.33	RECPDCL
28	Establishment of Khavda Pooling Station-2 (KPS2) in Khavda RE Park.	M/s Power Grid Corporation of India Limited	69.68	RECPDCL
29	Establishment of Khavda Pooling Station-3 (KPS3) in Khavda RE Park.	M/s Power Grid Corporation of India Limited	75.53	RECPDCL
30	Transmission scheme for evacuation of 4.5 GW RE injection at Khavda P.S. under Phase-II – Part A, Gujarat	M/s Adani Energy Solutions Limited	118.90	RECPDCL

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ANNEXURE-II

ANNEXURE REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 317 ANSWERED IN THE RAJYA SABHA ON 05.12.2023

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Transmission projects (ISTS) awarded on nomination basis [under Regulated Tariff Mechanism (RTM)] during the period from FY2021 to FY2023 are given below:

Sl. No.	Transmission Project	Estimated Cost (in Rs. Crores)
	FY 2020-21	
1	Transmission system for evacuation power from Pakaldul HEP in Chenab Valley HEPs - LTA Systern	252
2	Transmission system for power evacuation from Arun-3 (900MW) HEP, Nepal of M/s SAPDC - Indian Portion	179
3	Eastern region Strengthening scheme (ERSS)-XXVI	3
4	North Eastern region Strengthening scheme (NERSS)-XI	43
5	North Eastern region Strengthening scheme (NERSS)-XII	576
6	North Eastern region Strengthening scheme (NERSS)-XIII	76
7	North Eastern region Strengthening scheme (NERSS)-XIV	75
	FY 2021-22	
8	Implementation of 400kV bays for RE generators at Bhadla-ll PS, Fatehgarh-ll PS	45
9	Implementation of 400 kV bays for RE generators at Fatehgarh-lll (erstwhile Ramgarh-II) PS	9
10	Implementation of 220 kV bay at Shahjahanpur (PG) 400/220 substation	4
11	Implementation of 1x80 MVAR 765 kV Spare Reactor at Bhadla-Il S/s	6
12	Implementation of the 1x500 MVA, 400/220 kV ICT (8th) at Bhadla pooling Station	35
13	Transmission system for evacuation of power from REZ in Rajasthan (20GW) under Phase-III Part E1	435
14	Transmission system for evacuation of power from REZ in Rajasthan (20GW) under Phase-III Part E2	245
15	Transmission system for evacuation of power from REZ in Rajasthan (20GW) under Phase-III Part J	225
16	System Strengthening scheme for reconductoring of portion of Dulhasti-Kishtwar-Kishenpur 400 kV (Quad) S/c	13
17	Grant of 400 kV & 220 kV bays to RE generators at Fatehgarh-III (erstwhile Ramgarh-II) PS under ISTS	75
18	1x500 MVA, 400/220 kV ICT augmentation (3rd) at Sohawal (PG) under system strengthening	30
19	One no of 220 kV bay at Chamera Pooling point for 2nd Circuit stringing of 220 kV Karian – Chamera Pool line under implementation by HPPTCL with time fame of December 21.	4
20	220 kV bays at 400 kV substation PGCIL Khatkar (Jind) &Naggal (Panchkula) substation	16
21	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS	70
22	Augmentation of transformation capacity at 400/220 kV Ludhiana (PG) Substation:	14
23	Augmentation of Transformation capacity at 400/220 kV Kurukshetra (PG) & Patiala (PG) Substations:	54
24	Implementation of 2 nos. of 220kV line bays at 400/220 kV Jind (PG) S/s	8
25	Requirement of 220 kV line bay at 400/220kV Amritsar (PG) by PSTCL	5
26	Transmission System Strengthening for 'Srinagar – Leh Transmission System'	277
27	ERES-XXVI	27
28	ICT Augmentation at 2x315 MVA, 400/220 kV Shujalpur (PG) substation	33
29	Regional System Strengthening scheme to mitigate the overloading of 400 kV NP Kunta-Kolar S/C line	123

30	Augmentation of transformation capact at exist in Hiriyur and Kochi S/stns	53
31	Restoring of one circuit of Kudankulam - Tuticorin PS 400 kV (quad) D/c tine at Tirunelveli to control loadings/un-balancing on Kudankulam - Tirunelveli 400 kV (quad) lines	1
32	implementation of 1no 230 kV bay at Tuticorin-ll GIS PS	5
33	Transmission System strengthening beyond Kolhapur for export of power from SR to WR - Re-conductoring of Kolhapur (PG) – Kolhapur 400 kV D/c line	54
34	Augmentation of 1x500MVA 400/220kV ICT (3rd) at Bhatapara (PG)	30
35	Transmission Network Expansion in Gujarat to TC from ISTS: Part B	2077
36	Transmission Network Expansion in Gujarat to TC from ISTS: Part C	148
37	Transmission Network Expansion in Gujarat to TC from ISTS: Part A	70
38	Requirement of 765 kV spare (1-Ph) Reactors units at 765 kV Warangal New	5.5
39	Requirement of 765 kV spare (1-Ph) Reactors units at 765 kV Chilkaluripeta	5.5
40	Scheme to bypass NGR to use Switchable Line Reactor as Bus Reactor at 765kV Chilkaluripeta	0.32
41	1 no. of 400 kV bay at 765/400 kV Kurnool (New)	9
42	Scheme to control fault level at Indore S/s	15
43	Upgradation of 40% FSC associated with Wardha – Aurangabad 400kV D/c line at Wardha S/s from 40kA to 50kA short circuit level	15
44	Scheme for fault level control at Dehgam (PG) & Ranchodpura (GETCO) S/s	1
45	Western Region Expansion Scheme-XXVI (WRES-XXVI)	95
46	Augmentation of transformation capacity at Tuticorin-II (GIS) PS by 1x500 MVA, 400/230kV ICT (5^{th})	49
47	Transmission system for evacuation of RE power from renewable energy parks in Leh (5GW Leh- Kaithal transmission corridor)	20,773.70
FY 2022-23		
48	Implementation of 1 no. of 400 kV line bay at 400/220kVBikaner-ll PS for interconnection of 1000 MW Solar Project of SJVN Ltd.	11.62
49	Augmentation of Transformation capacity at Bhinmal (PG) S/s by 1x315 MVA, 400/220kV ICT (3rd).	17.61
50	Eastern Region Expansion Scheme-XXVII (ERES-XXVII)	47.62
51	North Eastern Region Expansion Scheme-XVII (NERES-XVII)	2
52	Augmentation of Transformation Capacity by 1x500 MVA, 400/220kV ICT (3rd) at Raigarh (PG) S/s.	45.52
53	Western Region Expansion Scheme-XXX (WRES-XXX):	26.64
54	Implementation of 2 nos. of 220 kV line bays at 400/220kV Bikaner-II PS for interconnection of solar projects (ACME Solar Holdings Pvt. Ltd., Prerak Greentech Pvt. Ltd.)	38.56
55	Augmentation of Transformation Capacity by 1x500 MVA, 400/230kV ICT (4th) at Arasur substation:	61
56	Augmentation of Transformation Capacity by 1x500 MVA, 400/230kV ICT (4th) at Hosur substation:	46
57	Western Region Expansion Scheme-XXV (WRES-XXV)	210
58	Augmentation of Transformation Capacity by 1x500MVA 400/220kV ICT (6th) at Fatehgarh-II PS to cater to the N-1 contingency requirement at Fatehgarh-II PS.	55.68
59	Augmentation of Transformation capacity by 1x500MVA, 400/220kV ICT (3rd) to cater to the N-1 contingency requirement at Bikaner PS.	45.52
60	Reactive power compensation on 400kV transmission lines in NR.	76.1
61	Eastern Region Expansion Scheme-XXXI (ERES-XXXI).	35.39
62	North Eastern Region Expansion Scheme-XIX (NERES-XIX).	15.6
63	Augmentation of transformation capacity at Kallam PS by 2x500 MVA, 400/220 kV ICTs (3rd & 4th) along with 220kV bays for RE interconnection	156.89
64	Augmentation of ISTS for interconnection of HVPNL transmission schemes	117.05

65	Scheme to relieve high loading of WR-NR Inter Regional Corridor (400 kV Bhinmal Zerda line)	288.69
66	Eastern Region Expansion Scheme XXIX (ERESXXIX)	422.23
67	Transmission system for evacuation of power from Rajasthan REZ PhIV (Part-1) (Bikaner Complex) Part-E	368
68	Supply and Installation of OPGW on existing main lines which are to be LILOed under various transmission schemes.	59.5
69	Implementation of 1 no. 220kV line bay at Bhuj PS for providing Connectivity to M/s NTPC Renewable Energy Ltd. (300MW)	5.84
70	Transmission System for providing connectivity to M/s VEH Jayin Renewables Pvt. Ltd. at Rajgarh (PG) S/s	29.33
71	Western Region Expansion Scheme XXXI (WRES-XXXI): Part C	86.01
72	Western Region Expansion Scheme XXXIII (WRES-XXXIII): Part D	77.52
73	Implementation of 2 nos. of 220 kV line bays at 400/220 kV Panchkula (Barwala) (PG) S/s for interconnection with 220 kV Dera Bassi S/s.	11.68
74	Replacement of 1x315 MVA 400/220kV ICT (ICT-1) at 400/220 kV Ludhiana (PG) S/s with 1x500 MVA 400/220kV ICT	26.98
75	Replacement of 1x250 MVA, 400/220 kV ICT at 765/400/220 kV Moga (PG) S/s with 1x500 MVA 400/220kV ICT along with associated works at 220kV level.	27.03
76	Augmentation of Transformation Capacity by 1x500 MVA, 400/220kV ICT (3rd) at 400/220 kV Patran (GIS) S/s	65.19
77	Implementation of 1 no. of 220 kV line bay at 400/220kV Bikaner-II PS for interconnection of solar project (M/s NHPC Ltd.):	29.21
78	Eastern Region Expansion Scheme-XXX (ERES-XXX)	11.64
79	Eastern Region Expansion Scheme-XXXIII (ERES-XXXIII)	23.08
80	North Eastern Region Expansion Scheme-XVIII (NERES-XVIII)	11.44
81	North Eastern Region Expansion Scheme-XX (NERES-XX)	77.04
82	Implementation of 1 no. 400kV line bay at Kurnool New S/s for providing Connectivity to M/s Greenko AP01 IREP Pvt. Ltd. (2nd 400kV line bay for M/s Greenko)	8.55
83	Eastern Region Expansion Scheme-XXXII (ERES-XXXII)	25.83
84	Implementation of 2 no. of 220 kV line bays at 400/220kV Bikaner-II PS for interconnection of RE power park of M/s ALF Solar Amarsar Pvt. Ltd.	11.68
85	Augmentation of transformation capacity by 1x500MVA, 400/220kV ICT (4th) at Mysore substation in Karnataka	52.51
86	Western Region Expansion Scheme XXXIII (WRES-XXXIII): Part A	126.09
87	Transmission scheme for evacuation of 4.5 GW RE injection at Khavda PS under Phase II- Part D	221
88	ICT Augmentation at Navsari (New) S/s associated with integration of additional 7 GW RE power from Khavda RE park under Phase-III	58.52
89	Western Region Expansion Scheme XXXIII (WRES-XXXIII): Part B1	19
90	Western Region Expansion Scheme XXXIII (WRES-XXXIII): Part C1	0.5

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