

BoQ for Supply and Retrofitment of 420kV & 245 kV Circuit Breakers at various substation of ER-I, NR-III and Odisha Project of POWERGRID

Sl.	Region	Sub-Station Name	Proposed Item Description	Unit	Qty (In set)	GeM Consignee	Substation
1	ER-I	Biharsharif SS	Supply of 420kV, 3150A, 63kA Circuit Breaker (3-Phase) without PIR and with support structure complete set as per TS	Set	5	consigneebiharsharif1	Power Grid Corporation of India Limited Eastern Region -I, Patna-Ranchi Road, Post: Mahanandpur(Biharsharif), Distt: Nalanda(Bihar)-803101
2	ER-I	Biharsharif SS	Service Charge for Retrofitment of the supplied Circuit Breaker	Set	5	consigneebiharsharif1	Power Grid Corporation of India Limited Eastern Region -I, Patna-Ranchi Road, Post: Mahanandpur(Biharsharif), Distt: Nalanda(Bihar)-803101
3	ER-I	Biharsharif SS	Supply of Controlled switching Device (CSD)	Set	2	consigneebiharsharif1	Power Grid Corporation of India Limited Eastern Region -I, Patna-Ranchi Road, Post: Mahanandpur(Biharsharif), Distt: Nalanda(Bihar)-803101
4	ER-I	Biharsharif SS	Service Charge for Retrofitment of the supplied CSD	Set	2	consigneebiharsharif1	Power Grid Corporation of India Limited Eastern Region -I, Patna-Ranchi Road, Post: Mahanandpur(Biharsharif), Distt: Nalanda(Bihar)-803101
5	ER-I	Pusauli SS	Supply of 420kV, 3150A, 63kA Circuit Breaker (3-Phase) without PIR and with support structure complete set as per TS	Set	10	consigneepusauli3	Power Grid Corporation of India Limited, 765/400KV HVDC B/B S/S , At- Pusauli, PO- Bhatti, Dist.- Kaimur , Bihar- 821109
6	ER-I	Pusauli SS	Service Charge for Retrofitment of the supplied Circuit Breaker	Set	10	consigneepusauli3	Power Grid Corporation of India Limited, 765/400KV HVDC B/B S/S , At- Pusauli, PO- Bhatti, Dist.- Kaimur , Bihar- 821109
7	ER-I	Pusauli SS	Supply of 420kV, 3150A, 63kA Circuit Breaker (3-Phase) with PIR and with support structure complete set as per TS	Set	2	consigneepusauli3	Power Grid Corporation of India Limited, 765/400KV HVDC B/B S/S , At- Pusauli, PO- Bhatti, Dist.- Kaimur , Bihar- 821109
8	ER-I	Pusauli SS	Service Charge for Retrofitment of the supplied Circuit Breaker	Set	2	consigneepusauli3	Power Grid Corporation of India Limited, 765/400KV HVDC B/B S/S , At- Pusauli, PO- Bhatti, Dist.- Kaimur , Bihar- 821109
9	ER-I	Pusauli SS	Supply of Controlled switching Device (CSD)	Set	6	consigneepusauli3	Power Grid Corporation of India Limited, 765/400KV HVDC B/B S/S , At- Pusauli, PO- Bhatti, Dist.- Kaimur , Bihar- 821109
10	ER-I	Pusauli SS	Service Charge for Retrofitment of the supplied CSD	Set	6	consigneepusauli3	Power Grid Corporation of India Limited, 765/400KV HVDC B/B S/S , At- Pusauli, PO- Bhatti, Dist.- Kaimur , Bihar- 821109

11	NR-III	Prayagraj SS	Supply of 420kV, 3150A, 63kA Circuit Breaker (3-Phase) without PIR and with support structure complete set as per TS	Set	4	consigneeprayagraj1	Powergrid Corporation of India Limited, Allahabad Substation, Village-Sarangapur, Post Office-Dhandupur, Rewa Road, Allahabad (Prayagraj), Uttar Pradesh-211008
12	NR-III	Prayagraj SS	Service Charge for Retrofitment of the supplied Circuit Breaker	Set	4	consigneeprayagraj1	Powergrid Corporation of India Limited, Allahabad Substation, Village-Sarangapur, Post Office-Dhandupur, Rewa Road, Allahabad (Prayagraj), Uttar Pradesh-211008
13	NR-III	Prayagraj SS	Supply of 420kV, 3150A, 63kA Circuit Breaker (3-Phase) with PIR and with support structure complete set as per TS	Set	8	consigneeprayagraj1	Powergrid Corporation of India Limited, Allahabad Substation, Village-Sarangapur, Post Office-Dhandupur, Rewa Road, Allahabad (Prayagraj), Uttar Pradesh-211008
14	NR-III	Prayagraj SS	Service Charge for Retrofitment of the supplied Circuit Breaker	Set	8	consigneeprayagraj1	Powergrid Corporation of India Limited, Allahabad Substation, Village-Sarangapur, Post Office-Dhandupur, Rewa Road, Allahabad (Prayagraj), Uttar Pradesh-211008
15	NR-III	Agra SS	Supply of 420kV, 3150A, 63kA Circuit Breaker (3-Phase) without PIR and with support structure complete set as per TS	EA	1	consigneeagra7	POWER GRID CORPORATION OF INDIA LIMITED, ±800kV HVDC Multi-Terminal Station and 765/400/220kV HVAC Station, POWERGRID, Shamashabad Road, Agra (UP)- 283128
16	NR-III	Agra SS	Service Charge for Retrofitment of the supplied Circuit Breaker	EA	1	consigneeagra7	POWER GRID CORPORATION OF INDIA LIMITED, ±800kV HVDC Multi-Terminal Station and 765/400/220kV HVAC Station, POWERGRID, Shamashabad Road, Agra (UP)- 283128
17	NR-III	Ballia SS	Supply of 420kV, 3150A, 63kA Circuit Breaker (3-Phase) without PIR and with support structure complete set as per TS	EA	2	consigneeballia3	Powergrid Corporaion of India Limited, 765/400KV HVAC, 500KV HVDC, Village and Post- Ibrahimpatti, (Via Krihirapur), Tehsil-Belthra Road, District-Ballia, Uttar Pradesh-221716
18	NR-III	Ballia SS	Service Charge for Retrofitment of the supplied Circuit Breaker	EA	2	consigneeballia3	Powergrid Corporaion of India Limited, 765/400KV HVAC, 500KV HVDC, Village and Post- Ibrahimpatti, (Via Krihirapur), Tehsil-Belthra Road, District-Ballia, Uttar Pradesh-221716
19	NR-III	Ballia SS	Supply of 420kV, 3150A, 63kA Circuit Breaker (3-Phase) with PIR and with support structure complete set as per TS	EA	2	consigneeballia3	Powergrid Corporaion of India Limited, 765/400KV HVAC, 500KV HVDC, Village and Post- Ibrahimpatti, (Via Krihirapur), Tehsil-Belthra Road, District-Ballia, Uttar Pradesh-221716
20	NR-III	Ballia SS	Service Charge for Retrofitment of the supplied Circuit Breaker	EA	2	consigneeballia3	Powergrid Corporaion of India Limited, 765/400KV HVAC, 500KV HVDC, Village and Post- Ibrahimpatti, (Via Krihirapur), Tehsil-Belthra Road, District-Ballia, Uttar Pradesh-221716
21	NR-III	Bareilly 400kV SS	Supply of 420kV, 3150A, 63kA Circuit Breaker (3-Phase) without PIR and with support structure complete set as per TS	EA	2	60001680	Power Grid Corporation of India Limited Northern Region-III,765/400 KV Substation,Village-Atamanda, nainital road ,Post Bhojipura Bareilly.-243202

22	NR-III	Bareilly 400kV SS	Service Charge for Retrofitment of the supplied Circuit Breaker	EA	2	60001680	Power Grid Corporation of India Limited Northern Region-III,765/400 KV Substation,Village-Atamanda, nainital road ,Post Bhojipura Bareilly.-243202
23	NR-III	Lucknow 400kV SS	Supply of 420kV, 3150A, 63kA Circuit Breaker (3-Phase) without PIR and with support structure complete set as per TS	EA	2	60002577	Lucknow 400/220KV Substation, POWERGRID CORPORATION OF INDIA LIMITED, Plot No. A-1, UPSIDC Industrial Area, 20KM mileStone, Lucknow-Kursi Road, PO-Anwari, Dist. Barabanki, Uttar Pradesh-225302
24	NR-III	Lucknow 400kV SS	Service Charge for Retrofitment of the supplied Circuit Breaker	EA	2	60002577	Lucknow 400/220KV Substation, POWERGRID CORPORATION OF INDIA LIMITED, Plot No. A-1, UPSIDC Industrial Area, 20KM mileStone, Lucknow-Kursi Road, PO-Anwari, Dist. Barabanki, Uttar Pradesh-225302
25	Odisha	Sundargarh SS	Supply of 245kV,3150A, 50kA 3-PH Circuit Breaker complete set along with support structure, marshalling box and Terminal connector complete set as per TS	Set	1	buyerangul2	Powergrid Corporation of India Ltd, 765/400 kV Sundargarh Substataion, At Kenapalli, PO: Kurga, Dist: Sundargah -770002
26	Odisha	Sundargarh SS	Service charges for retrofitting of supplied Circuit Breaker	Set	1	buyerangul2	Powergrid Corporation of India Ltd, 765/400 kV Sundargarh Substataion, At Kenapalli, PO: Kurga, Dist: Sundargah -770002
27	NR-III	Prayagraj SS	Mandatory spares of 420kV CB without PIR as per Annex-01	Set	1	consigneeprayagraj1	Powergrid Corporation of India Limited, Allahabad Substation, Village-Sarangapur, Post Office-Dhandupur, Rewa Road, Allahabad (Prayagraj), Uttar Pradesh-211008
28	NR-III	Agra SS	Mandatory spares of 420kV CB without PIR as per Annex-01	Set	1	consigneeagra7	POWER GRID CORPORATION OF INDIA LIMITED, ±800kV HVDC Multi-Terminal Station and 765/400/220kV HVAC Station, POWERGRID, Shamashabad Road, Agra (UP)- 283128
29	NR-III	Ballia SS	Mandatory spares of 420kV CB without PIR as per Annex-01	Set	1	consigneeballia3	Powergrid Corporaion of India Limited, 765/400KV HVAC, 500KV HVDC, Village and Post- Ibrahimpatti, (Via Krihirapur), Tehsil-Belthra Road, District-Ballia, Uttar Pradesh-221716
30	NR-III	Bareilly 400kV SS	Mandatory spares of 420kV CB without PIR as per Annex-01	Set	1	60001680	Power Grid Corporation of India Limited Northern Region-III,765/400 KV Substation,Village-Atamanda, nainital road ,Post Bhojipura Bareilly.-243202
31	NR-III	Lucknow 400kV SS	Mandatory spares of 420kV CB without PIR as per Annex-01	Set	1	60002577	Lucknow 400/220KV Substation, POWERGRID CORPORATION OF INDIA LIMITED, Plot No. A-1, UPSIDC Industrial Area, 20KM mileStone, Lucknow-Kursi Road, PO-Anwari, Dist. Barabanki, Uttar Pradesh-225302
32	NR-III	Prayagraj SS	Mandatory spares of 420kV CB with PIR as per Annex-02	Set	1	consigneeprayagraj1	Powergrid Corporation of India Limited, Allahabad Substation, Village-Sarangapur, Post Office-Dhandupur, Rewa Road, Allahabad (Prayagraj), Uttar Pradesh-211008

33	NR-III	Ballia SS	Mandatory spares of 420kV CB with PIR as per Annex-02	Set	1	consigneeballia3	Powergrid Corporaion of India Limited, 765/400KV HVAC, 500KV HVDC, Village and Post- Ibrahimhatti, (Via Krihirapur), Tehsil-Belthra Road, District-Ballia, Uttar Pradesh-221716
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Mandatory spares of 420kV CB without PIR as per Annex-01

SI	Item Description	Unit	Qty
1	Complete Pole (Phase) of 420kV Circuit Breaker without PIR and with pole column, interrupter ,operating mechanism, Marshling Box and terminal connector but without support structure	Set	1
2	Rubber gasket, O rings and seals for SF6 gas (Complete replacement for one 420kV SF6 Circuit Breaker Pole)	Set	1
3	Trip coil with resistor (if applicable) for 420kV SF6 Circuit Breaker	Nos.	3
4	Closing coil with resistor (if applicable) for 420kV SF6 Circuit Breaker	Nos.	3
5	Terminal Pad and Connector for 420kV SF6 Circuit Breaker	Nos.	3
6	Molecular filter for 420kV SF6 Circuit Breaker	Nos.	2
7	Corona rings (1 No of each type) for 420kV Circuit Breaker	Set	1
8	Relays, Power contactors, SFU, limit switches, push buttons, timers &MCB etc. (1 No of each type) for 420kV Circuit Breaker	Set	3
9	Pressure switches (1 No. of each type) for 420kV SF6 Circuit Breaker	Set	3
10	Pressure gauges & Coupling device (1 No. of each type) for 420kV SF6 Circuit Breaker	Set	3
11	Aux. Switch/contact assembly for 420kV SF6 Circuit Breaker	Set	3
12	Operation counter for Circuit Breaker	Nos.	1
13	Set of Control Valves (if applicable) for 420kV SF6 Circuit Breaker	Set	1
14	Fixed moving arcing contacts including insulating nozzles for one pole of 420kV SF6 Circuit Breaker*	Set	1
15	Closing dashpot for 420kV SF6 Spring operated Circuit Breaker	Nos.	1
16	Opening dashpot for 420kV SF6 Spring operated Circuit Breaker*	Nos.	1
17	Opening catchgear for 420kV SF6 Spring operated Circuit Breaker*	Nos.	1
18	Closing catchgear for 420kV SF6 Spring operated Circuit Breaker*	Nos.	1
19	Complete Spring Operating Mechanism for 420kV SF6 Spring operated Circuit Breaker	Set	1
20	Spring charging Motor *	Nos.	1

Mandatory spares of 420kV CB with PIR as per Annex-02

Sl.	Item Description	Unit	Quantity
1	Complete Pole (Phase) of 420kV Circuit Breaker with PIR and with pole column, interrupter ,operating mechanism, Marshling Box and terminal connector but without support structure	Set	1
2	Rubber gasket, O rings and seals for SF6 gas (Complete replacement for one 420kV SF6 Circuit Breaker Pole)	Set	1
3	Trip coil with resistor (if applicable) for 420kV SF6 Circuit Breaker	Nos.	3
4	Closing coil with resistor (if applicable) for 420kV SF6 Circuit Breaker	Nos.	3
5	Terminal Pad and Connector for 420kV SF6 Circuit Breaker	Nos.	3
6	Molecular filter for 420kV SF6 Circuit Breaker	Nos.	2
7	Corona rings (1 No of each type) for 420kV Circuit Breaker	Set	1
8	Relays, Power contactors, SFU, limit switches, push buttons, timers &MCB etc. (1 No of each type) for 420kV Circuit Breaker	Set	3
9	Pressure switches (1 No. of each type) for 420kV SF6 Circuit Breaker	Set	3
10	Pressure gauges & Coupling device (1 No. of each type) for 420kV SF6 Circuit Breaker	Set	3
11	Aux. Switch/contact assembly for 420kV SF6 Circuit Breaker	Set	3
12	Operation counter for Circuit Breaker	Nos.	1
13	Set of Control Valves (if applicable) for 420kV SF6 Circuit Breaker	Set	1
14	Fixed moving arcing contacts including insulating nozzles for one pole of 420kV SF6 Circuit Breaker*	Set	1
15	Closing dashpot for 420kV SF6 Spring operated Circuit Breaker	Nos.	1
16	Opening dashpot for 420kV SF6 Spring operated Circuit Breaker*	Nos.	1
17	Opening catchgear for 420kV SF6 Spring operated Circuit Breaker*	Nos.	1
18	Closing catchgear for 420kV SF6 Spring operated Circuit Breaker*	Nos.	1
19	Complete Spring Operating Mechanism for 420kV SF6 Spring operated Circuit Breaker	Set	1
20	Spring charging Motor *	Nos.	1