

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400KV GIS for NLC Talabira TPS

Enquiry/NIT No:

Name of the Bidder/ Bidding Firm / Company :	
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PRICE SCHEDULE
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Sl. No.	Item Description	Item Code / Make	Quantity	Units	Quoted Currency in INR / Other Currency	Unit RATE In Figures To be entered by the Bidder in Rs. P	GST (in Percentage)	GST Amount (Unit Rate*Quantity* GST) Rs. P	Unit Freight & Insurance Charges in Rs. P	GST (in Percentage)	GST Amount on F&I (Unit Rate*Quantity*GST) Rs. P	HSN / SAC Code	TOTAL Ex-Works + F & I AMOUNT excluding GST in Rs. P	TOTAL Ex-Works + F & I AMOUNT including GST in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
1.01	400 KV, SF6 GIS LINE FEEDER BAY	item1	3	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.02	400 KV, SF6 GIS BUS REACTOR BAY	item2	2	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.03	400 KV, SF6 GIS IBT BAY	item3	2	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.04	400 KV, SF6 GIS ST BAY	item4	3	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.05	400 KV, SF6 GIS ICT BAY	item5	2	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.06	400KV SF6 GIS TIE BAY	item6	6	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.07	400KV GIS BUS BAR MODULE	item7	2	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.08	400KV SF6 GIS BUS MEASUREMENT ASSEMBLY FOR MAIN BUS INCLUDING LA, VT, DS & ES AS PER SLD & TENCHNICAL SPECTIFCATION	item8	2	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.09	400KV SINGLE PHASE, SF6 GAS INSULATED BUS DUCT (GIB) OUTSIDE GIS HALL ALONGWITH ASSOCIATED SUPPORT STRUCTURE & EARTHING	item9	4200	Meter	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.1	400KV SF6 GIS ADAPTER BOX FOR EXTENSION OF GIS, SET OF 3 PHASE	item10	4	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.11	400KV SF6 TO AIR BUSHING (1 PHASE)	item11	36	Nos.	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.12	SF6 GAS REQUIRED FOR PLACING GIS INTO SUCCESSFUL OPERATION	item12	1	Lot	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.13	CONTROLLED SWITCHING DEVICE FOR 400 KV, 3-PH CIRCUIT BREAKER	item13	15	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.14	LOCAL CONTROL CUBICLES (LCC)	item14	18	Nos.	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.15	STRUCTURE MATERIAL INCLUDING FOUNDATION BOLTS, EMBEDDED ITEMS, RAILS AND/ OR OTHER MATERIALS ETC.	item15	1	Lot	INR			0.00			0.00		0.000	0.000	INR Zero Only

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
1.16	EARTHING MATERIALS INCLUDING HIGH FREQUENCY EARTHING	item16	1	Lot	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.17	ONLINE PARTIAL DISCHARGE MONITORING SYSTEM FOR 400KV GIS.	item17	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.18	SF6 GAS PROCESSING UNIT FOR 400KV GIS STATION	item18	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.19	SF6 GAS LEAKAGE DETECTOR	item19	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.01	SPARE - O-RING AND GASKETS (ONE OF EACH TYPE & SIZE)	item20	3	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.02	SPARE - SF6 GAS PRESSURE RELIEF DEVICES (ONE OF EACH TYPE & RATING ALONG WITH O'RINGS)	item21	2	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.03	SPARE - SF6 GAS CYLINDER (20% OF TOTAL QUANTITY)	item22	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.04	SPARE - MOLECULAR FILTER FOR SF6 GAS WITH FILTER BAGS (5% OF TOTAL QUANTITY)	item23	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.05	SPARE - ALL TYPES OF CONTROL VALVES FOR SF6 (ONE OF EACH TYPE & RATING)	item24	3	Nos.	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.06	SPARE - LOCKING DEVICE TO KEEP THE DISCONNECTORS /ISOLATORS AND EARTHING SWITCHES IN CLOSE OR OPEN POSITION IN CASE OF REMOVAL OF DRIVING MECHANISM	item25	3	Nos.	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.07	SPARE - SPARES FOR LOCAL CONTROL CABINET INCLUDING MCB, FUSES, TIMER, AUXILIARY RELAYS, CONTACTORS, PUSH BUTTONS, SWITCHES, LAMPS & ANNUNCIATION WINDOWS, TERMINAL BLOCKS (ONE OF EACH TYPE & RATING, SIZE, RATING & MAKE)	item26	2	Nos.	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.08	SPARE - SF6 TO AIR BUSHING COMPLETE WITH CONNECTORS (ONE OF EACH TYPE & RATING & RATING)	item27	1	Nos.	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.09	SPARE - SINGLE PHASE POTENTIAL TRANSFORMER (ONE OF EACH TYPE & RATING, ACCURACY CLASS, BURDEN)	item28	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
2.1	SPARE - SINGLE PHASE CURRENT TRANSFORMER (ONE OF EACH TYPE & RATING, RATIO, ACCURACY CLASS, BURDEN) WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALLRESPECT	item29	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.11	SPARE - EXPLOSION VENT DIAPHRAGMS (5% OF TOTAL POPULATION)	item30	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.12	SPARE - BUS SUPPORT INSULATOR (5% OF TOTAL POPULATION)	item31	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.13	SPARE - SURGE ARRESTOR (ONE OF EACH TYPE & RATING & RATING AND DISCHARGE CLASS)	item32	1	Nos.	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.14	SPARE - SURGE COUNTER WITH LEAKAGE CURRENT MONITOR	item33	1	Nos.	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.151	CB SPARE - COMPLETE POLE ASSEMBLY (1 PHASE) OF CIRCUIT BREAKER OF EACH TYPE AND RATING COMPLETE WITH INTERRUPTER, MAIN CIRCUIT, ENCLOSURE, MARSHALLING BOX WITH OPERATING MECHANISM (APPLICABLE FOR CB WITHOUT PIR)	item34	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.152	CB SPARE - COMPLETE POLE ASSEMBLY (1 PHASE) OF CIRCUIT BREAKER OF EACH TYPE AND RATING COMPLETE WITH INTERRUPTER, MAIN CIRCUIT, ENCLOSURE, MARSHALLING BOX WITH OPERATING MECHANISM (APPLICABLE FOR CB WITH PIR)	item35	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.153	CB SPARE - CIRCUIT BREAKER CLOSING AND OPENING COIL ASSEMBLY (ONE OF EACH TYPE & RATING)	item36	2	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.154	CB SPARE - CIRCUIT BREAKER OPERATING MECHANISM (ONE OF EACH TYPE & RATING)	item37	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.155	CB SPARE - CIRCUIT BREAKER OPERATION COUNTER (ONE OF EACH TYPE & RATING)	item38	3	Nos.	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.156	CB SPARE - AUXILIARY SWITCH ASSEMBLY (ONE OF EACH TYPE & RATING)	item39	3	Nos.	INR			0.00			0.00		0.000	0.000	INR Zero Only

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
2.1601	SPARE - COMPLETE SET OF 3 NOS. OF SINGLE PHASE / ONE 3 PHASE ISOLATOR OF EACH TYPE , DIMENSION, CURRENT, & VOLTAGE RATING INCLUDING MAIN CIRCUIT, ENCLOSURE, DRIVING MECHANISM	item40	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.1602	SPARE - 3 NOS OF SINGLE PHASE / ONE 3 PHASE MAINTENANCE EARTH SWITCH OF EACH TYPE , DIMENSION, CURRENT, & VOLTAGE RATING INCLUDING MAIN CIRCUIT, ENCLOSURE, DRIVING MECHANISM	item41	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.1603	SPARE - 3 NOS OF SINGLE PHASE / ONE 3 PHASE FAST ACTING EARTH SWITCH OF EACH TYPE , DIMENSION, CURRENT, & VOLTAGE RATING INCLUDING MAIN CIRCUIT, ENCLOSURE, DRIVING MECHANISM	item42	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.1604	SPARE - OPEN & CLOSE CONTACTOR ASSEMBLY INCLUDING TIMER, INTERLOCKING COILS, KEY INTERLOCK, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS, RESISTER, FUSES, MCB FOR ONE COMPLETE DISCONNECTOR (3 PHASE) (ONE OF EACH TYPE & RATING)	item43	1	Nos.	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.1605	SPARE - OPEN & CLOSE CONTACTOR ASSEMBLY INCLUDING TIMER, INTERLOCKING COILS, KEY INTERLOCK, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS, RESISTER, FUSES, MCB FOR ONE COMPLETE MAINTENANCE EARTH SWITCH (3 PHASE) (ONE OF EACH TYPE & RATING)	item44	1	Nos.	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.1606	SPARE - OPEN & CLOSE CONTACTOR ASSEMBLY INCLUDING TIMER, INTERLOCKING COILS, KEY INTERLOCK, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS, RESISTER, FUSES, MCB FOR ONE COMPLETE FAST ACTING EARTH SWITCH (3 PHASE) (ONE OF EACH TYPE & RATING)	item45	1	Nos.	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.1607	SPARE - ISOLATOR CONTACTS (ONE OF EACH TYPE & RATING & CURRENT RATING)	item46	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.1608	SPARE - MAINTENANCE EARTH SWITCH CONTACTS (ONE OF EACH TYPE & RATING & CURRENT RATING)	item47	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.1609	SPARE - FAST ACTING EARTH SWITCH CONTACTS (ONE OF EACH TYPE & RATING & CURRENT RATING)	item48	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.161	SPARE - ISOLATOR OPERATING MECHANISM (ONE OF EACH TYPE & RATING)	item49	3	Nos.	INR			0.00			0.00		0.000	0.000	INR Zero Only

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
2.1611	SPARE - MAINTENANCE EARTH SWITCH OPERATING MECHANISM (ONE OF EACH TYPE & RATING)	item50	3	Nos.	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.1612	SPARE - FAST ACTING EARTH SWITCH OPERATING MECHANISM (ONE OF EACH TYPE & RATING)	item51	3	Nos.	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.1613	SPARE - LIMIT SWITCH ASSEMBLY FOR DISCONNECTOR (ONE OF EACH TYPE & RATING)	item52	2	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.1614	SPARE - LIMIT SWITCH ASSEMBLY FOR MAINTENANCE EARTH SWITCH (ONE OF EACH TYPE & RATING)	item53	2	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.1615	SPARE - LIMIT SWITCH ASSEMBLY FOR FAST ACTING EARTH SWITCH(ONE OF EACH TYPE & RATING)	item54	2	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.17	SPARE - STATIC FILTER(ADSORBENT) (5% OF TOTAL POPULATION)	item55	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.18	SPARE - GAS BARRIER & RUPTURE DISK (ONE OF EACH TYPE & RATING) (5% OF TOTAL POPULATION)	item56	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.19	SPARE - GAS DENSITY MONITOR (PRESSURE SWITCH WITH GAUGE) (5% OF TOTAL POPULATION)	item57	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.2	SPARE - COUPLING DEVICES ONE OF EACH TYPE & RATING OF PRESSURE GAUGE CUM SWITCH FOR CONNECTING GAS HANDLING PLANT	item58	2	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.1	SPARES- GIS : REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS: AUGMENTATION OF 1 PHASE GIS CTA / CTB FOR ADDITION OF 1 CORE (IF REQUIRED IN DETAILED ENGINEERING)	item59	18	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.2	SPARES- GIS : REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS: AUGMENTATION OF 1 PHASE GIS VOLTAGE TRANSFORMER FOR ADDITION OF 1 NO. SECONDARY WINDING (IF REQUIRED IN DETAILED ENGINEERING)	item60	18	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
4.01	SERVICES- GIS : 400KV, SUPERVISION OF ERECTION OF GIS	item61	1	Lot	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.02	SERVICES- GIS : 400KV, SUPERVISION OF ERECTION OF GAS INSULATED BUS DUCT	item62	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.03	SERVICES- GIS : 400KV, SUPERVISION OF ERECTION OF SF6 TO AIR BUSHING	item63	36	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.04	SERVICES- GIS : 400KV, TESTING & COMMISSIONING OF GIS	item64	1	Lot	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.05	SERVICES- GIS : 400KV, FINAL SUCCESSFUL HV/ POWER FREQUENCY TESTING OF GIS INCLUDING ARRANGING OF HV TEST KIT ALONG WITH OPERATOR	item65	1	Lot	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.06	SERVICES- GIS : STUDIES INSULATION CO-ORDINATION VFTO REPORT e.t.c. complete	item66	1	Lot	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.07	SERVICES- GIS : TRAINING AT GIS FACTORY	item67	1	Lot	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.08	SERVICES- GIS : TRAINING AT SITE	item68	1	Lot	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.1	SERVICES- GIS : REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR SUPERVISION OF ERECTION OF GIS	item69	10	MANDAY	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.2	SERVICES- GIS : REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR TESTING & COMMISSIONING OF GIS	item70	10	MANDAY	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.3	SERVICES- GIS : 400KV, REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - CHARGES OF HV TEST KIT WITH OPERATOR	item71	1	Lot	INR			0.00			0.00		0.000	0.000	INR Zero Only
Total in Figures													0.000	0.000	Zero Only
oted Rate in Words		INR Zero Only													

ANNEXURE_BOQ_400kV_GIS, Rev.0 (dated 27 Oct 2023)

SL	DESCRIPTION	UNIT	QTY	REMARKS
1	SUPPLY- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
1.01	400 KV, SF6 GIS LINE FEEDER BAY	Set	3	
1.02	400 KV, SF6 GIS BUS REACTOR BAY	Set	2	
1.03	400 KV, SF6 GIS IBT BAY	Set	2	
1.04	400 KV, SF6 GIS ST BAY	Set	3	
1.05	400 KV, SF6 GIS ICT BAY	Set	2	
1.06	400KV SF6 GIS TIE BAY	Set	6	
1.07	400KV GIS BUS BAR MODULE	Set	2	
1.08	400KV SF6 GIS BUS MEASUREMENT ASSEMBLY FOR MAIN BUS INCLUDING LA, VT, DS & ES AS PER SLD & TECHNICAL SPECIFICATION	Set	2	
1.09	400KV SINGLE PHASE, SF6 GAS INSULATED BUS DUCT (GIB) OUTSIDE GIS HALL ALONGWITH ASSOCIATED SUPPORT STRUCTURE & EARTHING	Meter	4200	
1.10	400KV SF6 GIS ADAPTER BOX FOR EXTENSION OF GIS, SET OF 3 PHASE	Set	4	
1.11	400KV SF6 TO AIR BUSHING (1 PHASE)	Nos.	36	
1.12	SF6 GAS REQUIRED FOR PLACING GIS INTO SUCCESSFUL OPERATION	Lot	1	
1.13	CONTROLLED SWITCHING DEVICE FOR 400 KV, 3-PH CIRCUIT BREAKER	Set	15	
1.14	LOCAL CONTROL CUBICLES (LCC)	Nos.	18	
1.15	STRUCTURE MATERIAL INCLUDING FOUNDATION BOLTS, EMBEDDED ITEMS, RAILS AND/ OR OTHER MATERIALS ETC.	Lot	1	
1.16	EARTHING MATERIALS INCLUDING HIGH FREQUENCY EARTHING	Lot	1	
1.17	ONLINE PARTIAL DISCHARGE MONITORING SYSTEM FOR 400KV GIS.	Set	1	
1.18	SF6 GAS PROCESSING UNIT FOR 400KV GIS STATION	Set	1	
1.19	SF6 GAS LEAKAGE DETECTOR	Set	1	
2	SPARES- GIS : 400KV, 50KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
2.01	SPARE - O-RING AND GASKETS (ONE OF EACH TYPE & SIZE)	Set	3	
2.02	SPARE - SF6 GAS PRESSURE RELIEF DEVICES (ONE OF EACH TYPE & RATING ALONG WITH O'RINGS)	Set	2	
2.03	SPARE - SF6 GAS CYLINDER (20% OF TOTAL QUANTITY)	Set	1	
2.04	SPARE - MOLECULAR FILTER FOR SF6 GAS WITH FILTER BAGS (5% OF TOTAL QUANTITY)	Set	1	
2.05	SPARE - ALL TYPES OF CONTROL VALVES FOR SF6 (ONE OF EACH TYPE & RATING)	Nos.	3	
2.06	SPARE - LOCKING DEVICE TO KEEP THE DISCONNECTORS /ISOLATORS AND EARTHING SWITCHES IN CLOSE OR OPEN POSITION IN CASE OF REMOVAL OF DRIVING MECHANISM	Nos.	3	

SL	DESCRIPTION	UNIT	QTY	REMARKS
2.07	SPARE - SPARES FOR LOCAL CONTROL CABINET INCLUDING MCB, FUSES, TIMER, AUXILIARY RELAYS, CONTACTORS, PUSH BUTTONS, SWITCHES, LAMPS & ANNUNCIATION WINDOWS, TERMINAL BLOCKS (ONE OF EACH TYPE & RATING, SIZE, RATING & MAKE)	Nos.	2	
2.08	SPARE - SF6 TO AIR BUSHING COMPLETE WITH CONNECTORS (ONE OF EACH TYPE & RATING & RATING)	Nos.	1	
2.09	SPARE - SINGLE PHASE POTENTIAL TRANSFORMER (ONE OF EACH TYPE & RATING, ACCURACY CLASS, BURDEN)	Set	1	
2.1	SPARE - SINGLE PHASE CURRENT TRANSFORMER (ONE OF EACH TYPE & RATING, RATIO, ACCURACY CLASS, BURDEN) WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALLRESPECT	Set	1	
2.11	SPARE - EXPLOSION VENT DIAPHRAGMS (5% OF TOTAL POPULATION)	Set	1	
2.12	SPARE - BUS SUPPORT INSULATOR (5% OF TOTAL POPULATION)	Set	1	
2.13	SPARE - SURGE ARRESTOR (ONE OF EACH TYPE & RATING & RATING AND DISCHARGE CLASS)	Nos.	1	
2.14	SPARE - SURGE COUNTER WITH LEAKAGE CURRENT MONITOR	Nos.	1	
2.15	SPARE - 400 KV CIRCUIT BREAKER (BELOW LIST SHALL BE PROVIDED FOR 400 KV CIRCUIT BREAKER)			
2.15.1	CB SPARE - COMPLETE POLE ASSEMBLY (1 PHASE) OF CIRCUIT BREAKER OF EACH TYPE AND RATING COMPLETE WITH INTERRUPTER, MAIN CIRCUIT, ENCLOSURE, MARSHALLING BOX WITH OPERATING MECHANISM (APPLICABLE FOR CB WITHOUT PIR)	Set	1	
2.15.2	CB SPARE - COMPLETE POLE ASSEMBLY (1 PHASE) OF CIRCUIT BREAKER OF EACH TYPE AND RATING COMPLETE WITH INTERRUPTER, MAIN CIRCUIT, ENCLOSURE, MARSHALLING BOX WITH OPERATING MECHANISM (APPLICABLE FOR CB WITH PIR)	Set	1	
2.15.3	CB SPARE - CIRCUIT BREAKER CLOSING AND OPENING COIL ASSEMBLY (ONE OF EACH TYPE & RATING)	Set	2	
2.15.4	CB SPARE - CIRCUIT BREAKER OPERATING MECHANISM (ONE OF EACH TYPE & RATING)	Set	1	
2.15.5	CB SPARE - CIRCUIT BREAKER OPERATION COUNTER (ONE OF EACH TYPE & RATING)	Nos.	3	
2.15.6	CB SPARE - AUXILIARY SWITCH ASSEMBLY (ONE OF EACH TYPE & RATING)	Nos.	3	
2.16	400 KV ISOLATOR / DISCONNECTOR, EARTH SWITCHES (BELOW LIST SHALL BE SEPARATELY PROVIDED FOR 400 KV GIS)			
2.16.01	SPARE - COMPLETE SET OF 3 NOS. OF SINGLE PHASE / ONE 3 PHASE ISOLATOR OF EACH TYPE , DIMENSION, CURRENT, & VOLTAGE RATING INCLUDING MAIN CIRCUIT, ENCLOSURE, DRIVING MECHANISM	Set	1	
2.16.02	SPARE - 3 NOS OF SINGLE PHASE / ONE 3 PHASE MAINTENANCE EARTH SWITCH OF EACH TYPE , DIMENSION, CURRENT, & VOLTAGE RATING INCLUDING MAIN CIRCUIT, ENCLOSURE, DRIVING MECHANISM	Set	1	
2.16.03	SPARE - 3 NOS OF SINGLE PHASE / ONE 3 PHASE FAST ACTING EARTH SWITCH OF EACH TYPE , DIMENSION, CURRENT, & VOLTAGE RATING INCLUDING MAIN CIRCUIT, ENCLOSURE, DRIVING MECHANISM	Set	1	
2.16.04	SPARE - OPEN & CLOSE CONTACTOR ASSEMBLY INCLUDING TIMER, INTERLOCKING COILS, KEY INTERLOCK, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS, RESISTER, FUSES, MCB FOR ONE COMPLETE DISCONNECTOR (3 PHASE) (ONE OF EACH TYPE & RATING)	Nos.	1	
2.16.05	SPARE - OPEN & CLOSE CONTACTOR ASSEMBLY INCLUDING TIMER, INTERLOCKING COILS, KEY INTERLOCK, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS, RESISTER, FUSES, MCB FOR ONE COMPLETE MAINTENANCE EARTH SWITCH (3 PHASE) (ONE OF EACH TYPE & RATING)	Nos.	1	
2.16.06	SPARE - OPEN & CLOSE CONTACTOR ASSEMBLY INCLUDING TIMER, INTERLOCKING COILS, KEY INTERLOCK, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS, RESISTER, FUSES, MCB FOR ONE COMPLETE FAST ACTING EARTH SWITCH (3 PHASE) (ONE OF EACH TYPE & RATING)	Nos.	1	
2.16.07	SPARE - ISOLATOR CONTACTS (ONE OF EACH TYPE & RATING & CURRENT RATING)	Set	1	
2.16.08	SPARE - MAINTENANCE EARTH SWITCH CONTACTS (ONE OF EACH TYPE & RATING & CURRENT RATING)	Set	1	
2.16.09	SPARE - FAST ACTING EARTH SWITCH CONTACTS (ONE OF EACH TYPE & RATING & CURRENT RATING)	Set	1	
2.16.1	SPARE - ISOLATOR OPERATING MECHANISM (ONE OF EACH TYPE & RATING)	Nos.	3	
2.16.11	SPARE - MAINTENANCE EARTH SWITCH OPERATING MECHANISM (ONE OF EACH TYPE & RATING)	Nos.	3	
2.16.12	SPARE - FAST ACTING EARTH SWITCH OPERATING MECHANISM (ONE OF EACH TYPE & RATING)	Nos.	3	
2.16.13	SPARE - LIMIT SWITCH ASSEMBLY FOR DISCONNECTOR (ONE OF EACH TYPE & RATING)	Set	2	
2.16.14	SPARE - LIMIT SWITCH ASSEMBLY FOR MAINTENANCE EARTH SWITCH (ONE OF EACH TYPE & RATING)	Set	2	
2.16.15	SPARE - LIMIT SWITCH ASSEMBLY FOR FAST ACTING EARTH SWITCH(ONE OF EACH TYPE & RATING)	Set	2	
2.17	SPARE - STATIC FILTER(ADSORBENT) (5% OF TOTAL POPULATION)	Set	1	
2.18	SPARE - GAS BARRIER & RUPTURE DISK (ONE OF EACH TYPE & RATING) (5% OF TOTAL POPULATION)	Set	1	
2.19	SPARE - GAS DENSITY MONITOR (PRESSURE SWITCH WITH GAUGE) (5% OF TOTAL POPULATION)	Set	1	

SL	DESCRIPTION	UNIT	QTY	REMARKS
2.20	SPARE - COUPLING DEVICES ONE OF EACH TYPE & RATING OF PRESSURE GAUGE CUM SWITCH FOR CONNECTING GAS HANDLING PLANT	Set	2	
3	SPARES- GIS : REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS: (Unit Prices of Individual Equipment included here or in mandatory spares are required for any Addition/Deletion of Equipment and replacement of damaged items. Vendor to ensure that the unit prices have a logical relationship with prices of assemblies in main items. Quoting for unit prices is mandatory and shall be considered for evaluation)			
3.1	AUGMENTATION OF 1 PHASE GIS CTA / CTB FOR ADDITION OF 1 CORE (IF REQUIRED IN DETAILED ENGINEERING)	Set	18	
3.2	AUGMENTATION OF 1 PHASE GIS VOLTAGE TRANSFORMER FOR ADDITION OF 1 NO. SECONDARY WINDING (IF REQUIRED IN DETAILED ENGINEERING)	Set	18	
4	SERVICES- GIS : 400KV, 50KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
4.01	SERVICES- GIS : 400KV, SUPERVISION OF ERECTION OF GIS	Lot	1	Supervision of erection of 400kV GIS, complete in all respect including LCC. It also includes supervision of unloading & verification of materials for proper storage at site. In the event of changes in scope, payment shall be made on pro-rata basis of circuit breaker bays only. This includes services for complete GIS system excluding GIB & SAB.
4.02	SERVICES- GIS : 400KV, SUPERVISION OF ERECTION OF GAS INSULATED BUS DUCT	Set	1	
4.03	SERVICES- GIS : 400KV, SUPERVISION OF ERECTION OF SF6 TO AIR BUSHING	Set	36	Single phase SF6 Bushing.
4.04	SERVICES- GIS : 400KV, TESTING & COMMISSIONING OF GIS	Lot	1	Testing and commissioning of complete 400kV GIS system is to be executed by contractor (excluding HV Test which is covered in a separate line item below). All testing instruments, kits, T&P etc. are to be arranged by contractor on returnable basis. Please refer relevant section of technical specification for details. (This also includes Testing & commissioning of GIB, SAB & CSD etc complete in all aspect)
4.05	SERVICES- GIS : 400KV, FINAL SUCCESSFUL HV/ POWER FREQUENCY TESTING OF GIS INCLUDING ARRANGING OF HV TEST KIT ALONG WITH OPERATOR	Lot	1	Carrying out successful HV/ Power Frequency Testing of GIS as per IEC including Arrangement of HV Test kit (on returnable basis) shall be in scope of bidder, which includes charges HV test kit with operator, accessories & tools required for completion of HV testing. Bays may be commissioned separately.
4.06	SERVICES- GIS : STUDIES INSULATION CO-ORDINATION VFTO REPORT e.t.c. complete	Lot	1	Complete study as per technical specification
4.07	SERVICES- GIS : TRAINING AT GIS FACTORY	Lot	1	
4.08	SERVICES- GIS : TRAINING AT SITE	Lot	1	
5	SERVICES- GIS : REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SERVICES: (UNIT PRICES OF INDIVIDUAL SERVICES INCLUDED HERE ARE REQUIRED FOR ANY ADDITION/DELETION OF EQUIPMENT AND REPLACEMENT OF DAMAGED ITEMS. VENDOR TO ENSURE THAT THE UNIT PRICES HAVE A LOGICAL RELATIONSHIP WITH PRICES OF ASSEMBLIES IN MAIN ITEMS. QUOTING FOR UNIT PRICES IS MANDATORY AND SHALL BE CONSIDERED FOR EVALUATION)			
5.1	SERVICES- GIS : REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR SUPERVISION OF ERECTION OF GIS	MANDAY	10	Charges for repetition of services - (if required due to reasons not attributed to the contractor) This item will be executed only if repetition of services is required by BHEL.
5.2	SERVICES- GIS : REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR TESTING & COMMISSIONING OF GIS	MANDAY	10	Charges for repetition of services - (if required due to reasons not attributed to the contractor) This item will be executed only if repetition of services is required by BHEL.

SL	DESCRIPTION	UNIT	QTY	REMARKS
5.3	SERVICES- GIS : 400KV, REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - CHARGES OF HV TEST KIT WITH OPERATOR	Lot	1	Additional HV test kit charges including charges of operator, HV test kit, accessories & tools required for completion of HV test (Dielectric Test after installation of GIS). This item is executed only if repetition/ additional HV Test is required by BHEL i.e. post successful commissioning of GIS. (if required due to reasons not attributed to the contractor)