



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Transmission Business Group

Materials Management, 5th Floor, Plot No.25,

Sector-16A, Noida, Uttar Pradesh, PIN No: 201301

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CORRIGENDUM - 01 TO NIT NO-75838

Dated 07.08.2023

Subject: Corrigendum-01 to Tender enquiry for Pre-bid Tie up for Supply & Services of 400 kV & 220 KV GIS FOR POWERGRID_SS30T PROJECT.

Project : Powergrid_SS30T (Greater Noida & Jalpura)
Equipment / Item : SUPPLY & SERVICES OF 400KV & 220KV GIS
Enquiry No/Date : 61G2400135 Dated 31-07-2023
BHEL NIT NO : 75838
Original Tender due date : 11.08.2023

This Corrigendum is issued by BHEL TBG against above mentioned NIT/ enquiry for-

Issuance of Technical Corrigendum-01 along with revised price bid schedule and BOQ (enclosed) & Incorporation of Form for manufacturing capacity as part of tender documents (enclosed).

Tender due date and time shall remain same (ie, 11-08-2023, 11:00 Hrs).

All other terms and conditions for this tender enquiry shall remain unchanged.

Bidder to ensure submission of offer on or before due.

Note: Tender ID in CPP Portal is **2023_BHEL_27237_1**.

Thanking you

-----Sd/-----

Gaurav Agarwal
BHEL TBG, NOIDA

SL	DESCRIPTION	REMARKS
1	400/220kV Metro Deport S/s Section Project, Clause no 3.4.1.1.A	THE CLAUSE IS REVISED AS FOLLOWS
	<p>400kV & 245kV Gas Insulated Switchgear</p> <p>The SF6 gas insulated switchgear (50 Hz) shall be of the indoor metal-enclosed type. 400kV SF6 gas insulated switch gear shall have one and a half breaker bus bar arrangement and 220kV GIS shall have double main bus bar arrangement. The Switchgear shall be complete with all necessary terminal boxes, SF6 gas filling, interconnecting power and control wiring, grounding connections, gas monitoring equipment & piping and support structures along with necessary base plate & foundation bolts. In addition, all necessary platforms, supports, ladders and catwalks etc. as required for operation & maintenance work shall also be provided.</p> <p>i. --- ii. ---</p>	<p>400kV & 245kV Gas Insulated Switchgear</p> <p>The SF6 gas insulated switchgear (50 Hz) shall be of the indoor metal-enclosed type. 400kV & 220kV SF6 gas insulated switch gear shall have double main bus bar arrangement. The Switchgear shall be complete with all necessary terminal boxes, SF6 gas filling, interconnecting power and control wiring, grounding connections, gas monitoring equipment & piping and support structures along with necessary base plate & foundation bolts. In addition, all necessary platforms, supports, ladders and catwalks etc. as required for operation & maintenance work shall also be provided.</p> <p>i. --- ii. ---</p>

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SL	DESCRIPTION	REMARKS
2	<p>400/220kV Jalpura S/s Section Project, Clause no 3.4.2.1.A</p> <p>400kV & 245kV Gas Insulated Switchgear The SF6 gas insulated switchgear (50 Hz) shall be of the indoor metal-enclosed type. 400kV SF6 gas insulated switch gear shall have one and a half breaker bus bar arrangement and 220kV GIS shall have double main bus bar arrangement. The Switchgear shall be complete with all necessary terminal boxes, SF6 gas filling, interconnecting power and control wiring, grounding connections, gas monitoring equipment & piping and support structures along with necessary base plate & foundation bolts. In addition, all necessary platforms, supports, ladders and catwalks etc. as required for operation & maintenance work shall also be provided.</p> <p>i. --- ii. ---</p>	<p>THE CLAUSE IS REVISED AS FOLLOWS</p> <p>400kV & 245kV Gas Insulated Switchgear The SF6 gas insulated switchgear (50 Hz) shall be of the indoor metal-enclosed type. 400kV & 220kV SF6 gas insulated switch gear shall have double main bus bar arrangement. The Switchgear shall be complete with all necessary terminal boxes, SF6 gas filling, interconnecting power and control wiring, grounding connections, gas monitoring equipment & piping and support structures along with necessary base plate & foundation bolts. In addition, all necessary platforms, supports, ladders and catwalks etc. as required for operation & maintenance work shall also be provided.</p> <p>i. --- ii. ---</p>
3	ANNEXURE_BOQ_Gr. Noida, Rev.01 (dated 02 Aug 2023)	BILL OF QUANTITY REVISED, THE CHANGES MADE HAS BEEN HIGHLIGHTED YELLOW.
4	ANNEXURE_BOQ_JALPURA, Rev.01 (dated 02 Aug 2023)	SPARES BILL OF QUANTITY REVISED, THE CHANGES MADE HAS BEEN HIGHLIGHTED YELLOW.

SPECIAL NOTE

ALL TECHNICAL CLARIFICATION(S) FOR GIS PUBLISHED BY M/S POWERGRID WITH REFERENCE TO SUBJECT PROJECT WILL ALSO VALID FOR THIS TECHNICAL SPECIFICATION

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SL	DESCRIPTION	UNIT	QTY	REMARKS
1	SUPPLY- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
1.01	420kV, 4000 A, 63 kA, SF6 GIS Bus barmodule as per Section-Project, Technical specification	SET	2	
1.02	420 kV, 3150 A, 63 kA, SF6 GIS Linefeeder bay module(without PIR) as perSection-Project,	SET	2	
1.03	420kV, 3150 A, 63 kA, SF6 GIS BusReactor bay module as perSection-Project, Technicalspecification	SET	1	
1.04	420kV, 3150 A, 63 kA, SF6 GIS ICT feederbay module as per Section-Project,Technical specification	SET	2	
1.05	420KV, 3150A, 63KA SF6 GIS BUS COUPLER BAY MODULE AS PER SECTION- PROJECT, TECHNICAL	EACH	1	
1.06	3150A, 63KA, 1SEC SINGLE PHASE 420KV SF6 TO AIR BUSHING	SET	15	1 SET= 1 number of each make, type and rating
1.07	Controlled Switching Device for 420 kV, 3-ph Circuit Breaker	SET	3	1 SET= 1 number of each make, type and rating
1.08	420kV, 3000A, 63kA, Single phase, SF6Gas Insulated Bus Duct (GIB) outsideGIS Hall alongwith associated supportstructure	M	300	
1.09	Portable Partial Discharge measurement test kitwith all necessary accessories,Industrial Grade Laptop and licensedsoftware as per Technicalspecification.	SET	1	
1.10	SF6 Gas processing Unit for 400kV GIS station	SET	1	
1.11	SF6 Gas processing Unit for 220kV GIS Station	SET	1	
1.12	SF6 Gas Leakage Detector	SET	1	
1.13	SF6 GAS ANALYZER	SET	1	
2	SUPPLY- GIS : 220KV, 40KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
2.01	245kV, 3000 A, 40 kA, SF6 GIS Buscoupler bay module as perSection-Project, Technicalspecification	SET	1	
2.02	245kV, 1600 A, 40 kA, SF6 GIS ICT feederbay module as per Section-Project,Technical specification	SET	2	
2.03	245kV, 1600 A, 40 kA, SF6 GIS Linefeeder bay module as perSection-Project, Technicalspecification	SET	4	
2.04	245 kV, 3000A, 40kA, SF6 GIS Bus barmodule as per Section-Project,Technical specification	SET	2	
2.05	245KV, 1600A, 40KA SINGLE PHASE SF6 TO AIR BUSHING	SET	18	
2.06	245kV,1600A, 40kA,Single phase, SF6 Gas Insulated Bus Duct(GIB) outside GIS Hall alongwith associated support structure	M	280	
3	SPARES- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
3.01	400KV GIS-SF6 GAS PRESSURE RELIEF DEVICE ASSEMBLY OF EACH TYPE	SET	2	1 SET= 1 number of each make, type and rating

400/220kV GIS METRO DEPOT

ANNEXURE_BOQ_Gr. Noida, Rev.01 (dated 02 Aug 2023)

SL	DESCRIPTION	UNIT	QTY	REMARKS
3.02	SF6 PRESSURE GAUGE CUM SWITCH /DENSITY MONITORS AND PRESSURESWITCH AS APPLICABLE, OF EACH TYPE-400KV GIS	SET	3	
3.03	COUPLING DEVICE FOR PRESSURE GAUGE CUM SWITCH FOR CONNECTING GAS HANDLING PLANT OF EACH TYPE-400KV GIS	SET	2	
3.04	RUBBER GASKETS, O-RINGS AND SEALS FOR SF6 GAS FOR GISENCLOSURE OF EACH TYPE-400KV GIS	SET	3	
3.05	400KV GIS-MOLECULAR FILTER FOR SF6 GAS WITH FILTER BAGS (5 % OF TOTALWEIGHT)	SET	1	
3.06	CONTROL VALVES FOR SF6 GAS OF EACH TYPE-400KV GIS	SET	3	
3.07	400KV GIS-SF6 GAS (5 % OF TOTAL GAS QUANTITY)	LOT	1	
3.08	LOCKING DEVICE TO KEEP THE DIS-CONNECTORS (ISOLATORS)AND EARTHING/FAST EARTHING SWITCHES IN CLOSE OR OPEN POSITION IN CASEOF REMOVAL OF THE DRIVING MECHANISM-400KV GIS	SET	3	
3.09	UHF PD SENSORS OF EACH TYPE ALONG WITH BNC CONNECTOR FOR 420KV GIS	SET	5	1 SET= 1 number of each make, type and rating
3.1	400KV GIS-SUPPORT INSULATORS (GAS THROUGH) OF EACH TYPE (COMPLETE WITHMETAL RING ETC.) ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	SET	5	1 SET= 1 number of each make, type and rating
3.11	400KV GIS-GAS BARRIERS OF EACH TYPE (COMPLETE WITH METAL RING ETC.)ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	SET	5	1 SET= 1 number of each make, type and rating
3.12	400KV GIS- 3150A SF6 TO AIR BUSHING COMPLETE IN ALL RESPECT	SET	1	1 SET= 1 number of each make, type and rating
3.13	LCC SPARES - AUX. RELAYS, CONTACTORS,PUSH BUTTONS, SWITCHES,LAMPS,ANNUNCIATION WINDOWS, MCB, FUSES,TIMERS, TERMINAL BLOCKS ETC. OF EACHTYPE & RATING-400kV GIS	SET	2	
3.14	400KV GIS-ONE POLE OF 3150A CIRCUIT BREAKER WITHOUT PIR WITHINTERRUPTER, MAIN CIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETEIN ALL RESPECT	SET	1	
3.15	400KV GIS-ONE POLE OF 3150A CIRCUIT BREAKER WITH PIR WITH INTERRUPTER,MAIN CIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALLRESPECT	SET	1	

400/220kV GIS METRO DEPOT

ANNEXURE_BOQ_Gr. Noida, Rev.01 (dated 02 Aug 2023)

SL	DESCRIPTION	UNIT	QTY	REMARKS
3.16	Trip coil assembly with resistor for 420kV GIS Circuit Breaker (as applicable)	SET	3	
3.17	Closing coil assembly with resistor for 420kV GIS Circuit Breaker (as applicable)	SET	3	
3.18	RELAYS, POWER CONTACTORS, PUSH BUTTONS, TIMERS & MCBS ETC. (AS APPLICABLE) OF EACH TYPE FOR 400KV GIS CIRCUIT BREAKER	SET	1	
3.19	Auxiliary switch assembly of each type for 420kV GIS Circuit Breaker	SET	3	
3.2	400KV GIS CIRCUIT BREAKER-OPERATION COUNTER	SET	3	1 SET= 1 number of each make, type and rating
3.21	400KV GIS CIRCUIT BREAKER-HYDRAULIC OPERATING MECHANISM WITH DRIVE MOTOR (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.22	HYDRAULIC FILTER OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREAKER	SET	1	
3.23	400KV GIS CIRCUIT BREAKER- HOSE PIPE OF EACH TYPE (AS APPLICABLE) (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.24	400KV GIS CIRCUIT BREAKER - N2 ACCUMULATOR (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.25	VALVES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREAKER	SET	1	
3.26	PIPE LENGTH (COPPER & STEEL) OF EACH SIZE & TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREAKER	SET	1	
3.27	PRESSURE SWITCHES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREAKER	SET	1	
3.28	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREAKER	SET	1	
3.29	400KV GIS CIRCUIT BREAKER-HYDRAULIC OIL (5% OF TOTAL OIL QUANTITY)(FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.3	PRESSURE RELIEF DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREAKER	SET	1	

SL	DESCRIPTION	UNIT	QTY	REMARKS
3.31	400KV GIS CIRCUIT BREAKER-COMplete SPRING OPERATING MECHANISM INCLUDING CHARGING MECHANISM ETC. (FOR SPRING OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.32	400KV GIS CIRCUIT BREAKER- COMPLETE HYDRAULIC-SPRING OPERATING MECHANISM INCLUDING CHARGING MECHANISM ETC. (FOR HYDRAULIC-SPRING OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.33	PRESSURE SWITCHES OF EACH TYPE FOR 420KV GIS CIRCUIT BREAKER (For Hydraulic-Spring Operated Mechanism, if applicable)	SET	1	
3.34	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULIC-SPRING OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT	SET	1	
3.35	400kV GIS- Single phase of 3150A disconnecter switch including main circuit, enclosure, driving mechanism and support insulator etc., complete in all respect (Note 1- The contractor shall supply spare for disconnecter switch to ensure one to one replacement of all disconnecter switch supplied as main equipment without any requirement of modification in fittings at site to cover all different types of disconnecter switch supplied.	SET	4	1 SET= 1 number of each make, type and rating. In case, quantity of supplied dis-connectors switch types (for one to one replacement) are more than the quantity mentioned in BPS for spare, the contractor shall supply these additional types of disconnecter switch without any additional price implication to POWER GRID and quantities of these additional type of disconnecter switch are deemed to be included in the quantities mentioned in BPS for spare disconnecter. Note 2 - In case, Disconnector Switch (DS) & Earth Switch (ES) is provided in a same enclosure with common operating mechanism, then the module comprising of Dis-connector & Earth switch in single enclosure with common operating mechanism is to be provided under the head of spare Dis-connector only. Note 3- In case, Disconnector Switch (DS) & Earth Switch (ES) is provided in a same enclosure with separate operating mechanism, then the module comprising of Dis-connector & Earth switch in single enclosure with separate operating mechanism is to be provided under the head of spare Dis-connector only.)

SL	DESCRIPTION	UNIT	QTY	REMARKS
3.36	400KV GIS- SINGLE PHASE MAINTENANCE EARTHING SWITCH INCLUDING MAINCIRCUIT, ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC.,COMPLETE IN ALL RESPECT	SET	2	1 SET= 1 number of each make, type and rating. (NOTE 1 - IN CASE, DIS-CONNECTOR SWITCH (DS) &EARTH SWITCH (ES) IS PROVIDED IN A SAME ENCLOSURE WITH COMMONOPERATING MECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR &EARTH SWITCH IN SINGLE ENCLOSURE WITH COMMON OPERATING MECHANISM IS TOBE PROVIDED UNDER THE HEAD OF SPARE DIS-CONNECTOR ONLY. NOTE 2 - INCASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN ASAME ENCLOSURE WITH SEPARATE OPERATING MECHANISM, THEN THE MODULECOMPRISING OF DIS-CONNECTOR & EARTH SWITCH IN SINGLE ENCLOSURE WITHSEPARATE OPERATING MECHANISM IS TO BE PROVIDED UNDER THE HEAD OF SPAREDIS-CONNECTOR ONLY.)
3.37	400KV GIS - SINGLE PHASE FAST EARTHING SWITCH INCLUDING MAIN CIRCUIT,ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC., COMPLETE INALL RESPECT	SET	2	1 SET= 1 number of each make, type and rating. (NOTE 1 - IN CASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAME ENCLOSURE WITH COMMON OPERATINGMECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR & EARTH SWITCHIN SINGLE ENCLOSURE WITH COMMON OPERATING MECHANISM IS TO BE PROVIDEDUNDER THE HEAD OF SPARE DIS-CONNECTOR ONLY. NOTE 2 - IN CASE,DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAMEENCLOSURE WITH SEPARATE OPERATING MECHANISM, THEN THE MODULECOMPRISING OF DIS-CONNECTOR & EARTH SWITCH IN SINGLE ENCLOSURE WITHSEPARATE OPERATING MECHANISM IS TO BE PROVIDED UNDER THE HEAD OF SPAREDIS-CONNECTOR ONLY.)
3.38	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKINGCOILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONEOF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 400KV GIS DISCONNECTORSWITCH	SET	1	

400/220kV GIS METRO DEPOT

ANNEXURE_BOQ_Gr. Noida, Rev.01 (dated 02 Aug 2023)

SL	DESCRIPTION	UNIT	QTY	REMARKS
3.39	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKING COILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS, RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONE OF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 400KV GIS MAINTENANCE EARTH SWITCH	SET	1	
3.4	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKING COILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS, RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONE OF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 400KV GIS FAST EARTH SWITCH	SET	1	
3.41	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR DISCONNECTOR-400KV GIS	SET	2	
3.42	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR MAINTENANCE EARTHING SWITCH-400KV GIS	SET	2	
3.43	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR FAST EARTHING SWITCH (IF APPLICABLE)-400KV GIS	SET	2	
3.44	DRIVE MECHANISM FOR 400KV GIS DISCONNECTOR SWITCH	SET	1	
3.45	DRIVE MECHANISM FOR 400KV GIS MAINTENANCE EARTH SWITCH	SET	1	
3.46	DRIVE MECHANISM FOR 400KV GIS FAST EARTHING SWITCH	SET	1	
3.47	MOTOR FOR DRIVE MECHANISM FOR 400KV GIS DISCONNECTOR SWITCH	SET	1	1 SET= 1 number of each make, type and rating
3.48	MOTOR FOR DRIVE MECHANISM FOR 400KV GIS MAINTENANCE EARTH SWITCH	SET	1	1 SET= 1 number of each make, type and rating
3.49	MOTOR FOR DRIVE MECHANISM FOR 400KV GIS FAST EARTHING SWITCH	SET	1	1 SET= 1 number of each make, type and rating
3.5	400KV GIS- SINGLE PHASE OF CURRENT TRANSFORMER (3 CORES, TYPE-CTA) WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN	SET	1	1 SET= 1 number of each make, type and rating
3.51	400KV GIS- SINGLE PHASE OF CURRENT TRANSFORMER (2 CORES, TYPE-CTB) WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN	SET	1	1 SET= 1 number of each make, type and rating

SL	DESCRIPTION	UNIT	QTY	REMARKS
3.52	400KV GIS- SINGLE PHASE VT WITH ASSOCIATED ENCLOSURE COMPLETE IN ALLRESPECT	SET	1	1 SET= 1 number of each make, type and rating
4	SPARES- GIS : 220KV, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
4.01	220KV GIS- CABLE CONNECTION ENCLOSURE WITH MAIN CIRCUIT	SET	1	
4.02	220KV GIS-SF6 GAS PRESSURE RELIEF DEVICE ASSEMBLY OF EACH TYPE	SET	2	1 SET= 1 number of each make, type and rating
4.03	SF6 PRESSURE GAUGE CUM SWITCH /DENSITY MONITORS AND PRESSURESWITCH AS APPLICABLE, OF EACH TYPE-220KV GIS	SET	3	
4.04	COUPLING DEVICE FOR PRESSURE GAUGE CUM SWITCH FOR CONNECTINGGAS HANDLING PLANT OF EACH TYPE-220KV GIS	SET	2	
4.05	RUBBER GASKETS, A,â, -A'OA,â, -A RINGS AND SEALS FOR SF6 GAS FOR GISENCLOSURE OF EACH TYPE-220KV GIS	SET	3	
4.06	220KV GIS-MOLECULAR FILTER FOR SF6 GAS WITH FILTER BAGS (5 % OF TOTALWEIGHT)	SET	1	
4.07	CONTROL VALVES FOR SF6 GAS OF EACH TYPE-220KV GIS	SET	3	
4.08	220KV GIS-SF6 GAS (5 % OF TOTAL GAS QUANTITY)	LOT	1	
4.09	LOCKING DEVICE TO KEEP THE DIS-CONNECTORS (ISOLATORS)AND EARTHING/FAST EARTHING SWITCHES (AS APPLICABLE) IN CLOSE OR OPENPOSITION IN CASE OF REMOVAL OF THE DRIVING	SET	3	
4.1	UHF PD SENSORS OF EACH TYPE ALONG WITH BNC CONNECTOR FOR 245KV GIS	SET	5	1 SET= 1 number of each make, type and rating
4.11	220KV GIS-SUPPORT INSULATORS (GAS THROUGH) OF EACH TYPE (COMPLETE WITHMETAL RING ETC.) ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	SET	5	1 SET= 1 number of each make, type and rating
4.12	220KV GIS-GAS BARRIERS OF EACH TYPE (COMPLETE WITH METAL RING ETC.)ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	SET	5	1 SET= 1 number of each make, type and rating
4.13	220KV GIS- 1600A SF6 TO AIR BUSHING COMPLETE IN ALL RESPECT	SET	1	1 SET= 1 number of each make, type and rating
4.14	LCC SPARES - AUX. RELAYS, CONTACTORS,PUSH BUTTONS, SWITCHES, LAMPS,ANNUNCIATION WINDOWS, MCB, FUSES,TIMERS, TERMINAL BLOCKS ETC. OF EACHTYPE & RATING-220kV GIS	SET	2	

400/220kV GIS METRO DEPOT

ANNEXURE_BOQ_Gr. Noida, Rev.01 (dated 02 Aug 2023)

SL	DESCRIPTION	UNIT	QTY	REMARKS
4.15	220KV GIS-ONE POLE OF 1600A CIRCUIT BREAKER WITH INTERRUPTER, MAINCIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALL RESPECT	SET	1	
4.16	220KV GIS-ONE POLE OF 2500A CIRCUIT BREAKER WITH INTERRUPTER, MAINCIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALL RESPECT	SET	1	
4.17	220KV GIS-ONE POLE OF 3000A CIRCUIT BREAKER WITH INTERRUPTER, MAINCIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALL RESPECT	SET	1	
4.18	Trip coil assembly with resistor for245kV GIS Circuit Breaker (asapplicable)	SET	3	
4.19	Closing coil assembly with resistor for245kV GIS Circuit Breaker (asapplicable)	SET	1	
4.2	RELAYS, POWER CONTACTORS, PUSH BUTTONS, TIMERS & MCBS ETC. (ASAPPLICABLE) OF EACH TYPE FOR 220KV GIS CIRCUIT BREAKER	SET	1	
4.21	Auxiliary switch assembly of each type for 245kV GIS Circuit Breaker	SET	3	
4.22	220KV GIS CIRCUIT BREAKER-OPERATION COUNTER	SET	3	1 SET= 1 number of each make, type and rating
4.23	220KV GIS CIRCUIT BREAKER-HYDRAULIC OPERATING MECHANISM WITH DRIVEMOTOR (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
4.24	HYDRAULIC FILTER OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-220KV GIS CIRCUIT BREKAER	SET	1	
4.25	220KV GIS CIRCUIT BREAKER- HOSE PIPE OF EACH TYPE (AS APPLICABLE) (FORHYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
4.26	220KV GIS CIRCUIT BREAKER - N2 ACCUMULATOR (FOR HYDRAULIC OPERATEDMECHANISM, IF APPLICABLE)	SET	1	
4.27	VALVES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-220KV GIS CIRCUIT BREKAER	SET	1	
4.28	PIPE LENGTH (COPPER & STEEL) OF EACH SIZE & TYPE (FOR HYDRAULICOPERATED MECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT BREKAER	SET	1	
4.29	PRESSURE SWITCHES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-220KV GIS CIRCUIT BREKAER	SET	1	

400/220kV GIS METRO DEPOT

ANNEXURE_BOQ_Gr. Noida, Rev.01 (dated 02 Aug 2023)

SL	DESCRIPTION	UNIT	QTY	REMARKS
4.3	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULICOPERATED MECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT BREKAER	SET	1	
4.31	220KV GIS CIRCUIT BREAKER-HYDRAULIC OIL (5% OF TOTAL OIL QUANTITY)(FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
4.32	PRESSURE RELIEF DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM,IF APPLICABLE)-220KV GIS CIRCUIT BREKAER	SET	1	
4.33	220KV GIS CIRCUIT BREAKER-COMPLETE SPRING OPERATING MECHANISMINCLUDING CHARGING MECHANISM ETC. (FOR SPRING OPERATED MECHANISM, IFAPPLICABLE)	SET	1	
4.34	220KV GIS CIRCUIT BREAKER- COMPLETE HYDRAULIC-SPRING OPERATINGMECHANISM INCLUDING CHARGING MECHANISM ETC. (FOR HYDRAULIC-SPRINGOPERATED MECHANISM, IF APPLICABLE)	SET	1	
4.35	PRESSURE SWITCHES OF EACH TYPE (FOR HYDRAULIC-SPRING OPERATEDMECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT BREAKER	SET	1	
4.36	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULIC-SPRINGOPERATED MECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT	SET	1	

SL	DESCRIPTION	UNIT	QTY	REMARKS
4.37	220kV GIS- Three phase of 1600A disconnecter switch including main circuit, enclosure, driving mechanism and support insulator etc., complete in all respect	SET	4	1 SET = 1 number of each make, type and rating. (Note 1- The contractor shall supply spare for disconnecter switch to ensure one to one replacement of all disconnecter switch supplied as main equipment without any requirement of modification in fittings at site to cover all different types of disconnecter switch supplied. In case, quantity of supplied dis-connecter switch types (for one to one replacement) are more than the quantity mentioned in BPS for spare, the contractor shall supply these additional types of disconnecter switch without any additional price implication to POWERGRID and quantities of these additional type of disconnecter switch are deemed to be included in the quantities mentioned in BPS for spare disconnecter. Note 2 - In case, Dis-connector Switch (DS) & Earth Switch (ES) is provided in a same enclosure with common operating mechanism, then the module comprising of Dis-connector & Earth switch in single enclosure with common operating mechanism is to be provided under the head of spare Dis-connector only. Note 3- In case, Dis-connector Switch (DS) & Earth Switch (ES) is provided in a same enclosure with separate operating mechanism, then the module comprising of Dis-connector & Earth switch in single enclosure with separate operating mechanism is to be provided under the head

SL	DESCRIPTION	UNIT	QTY	REMARKS
4.38	220kV GIS- Three phase of 2500A disconnecter switch including main circuit, enclosure, driving mechanism and support insulator etc., complete in all respect	SET	2	1 SET = 1 number of each make, type and rating. (Note 1- The contractor shall supply spare for disconnecter switch to ensure one to one replacement of all disconnecter switch supplied as main equipment without any requirement of modification in fittings at site to cover all different types of disconnecter switch supplied. In case, quantity of supplied dis-connecter switch types (for one to one replacement) are more than the quantity mentioned in BPS for spare, the contractor shall supply these additional types of disconnecter switch without any additional price implication to POWERGRID and quantities of these additional type of disconnecter switch are deemed to be included in the quantities mentioned in BPS for spare disconnecter. Note 2 - In case, Dis-connector Switch (DS) & Earth Switch (ES) is provided in a same enclosure with common operating mechanism, then the module comprising of Dis-connector & Earth switch in single enclosure with common operating mechanism is to be provided under the head of spare Dis-connector only. Note 3- In case, Dis-connector Switch (DS) & Earth Switch (ES) is provided in a same enclosure with separate operating mechanism, then the module comprising of Dis-connector & Earth switch in single enclosure with

SL	DESCRIPTION	UNIT	QTY	REMARKS
4.39	220kV GIS- Three phase of 3000A disconnector switch including main circuit, enclosure, driving mechanism and support insulator etc., complete in all respect	SET	2	1 SET= 1 number of each make, type and rating. (Note 1- The contractor shall supply spare for disconnector switch to ensure one to one replacement of all disconnector switch supplied as main equipment without any requirement of modification in fittings at site to cover all different types of disconnector switch supplied. In case, quantity of supplied disconnector switch types (for one to one replacement) are more than the quantity mentioned in BPS for spare, the contractor shall supply these additional types of disconnector switch without any additional price implication to POWERGRID and quantities of these additional type of disconnector switch are deemed to be included in the quantities mentioned in BPS for spare disconnector. Note 2 - In case, Dis-connector Switch (DS) & Earth Switch (ES) is provided in a same enclosure with common operating mechanism, then the module comprising of Dis-connector & Earth switch in single enclosure with common operating mechanism is to be provided under the head of spare Dis-connector only. Note 3- In case, Dis-connector Switch (DS) & Earth Switch (ES) is provided in a same enclosure with separate operating mechanism, then the module comprising of Dis-connector & Earth switch in single enclosure with
4.4	220KV GIS- THREE PHASE MAINTENANCE EARTHING SWITCH INCLUDING MAIN CIRCUIT, ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC., COMPLETE IN ALL RESPECT	SET	1	1 SET= 1 number of each make, type and rating. (NOTE 1 - IN CASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAME ENCLOSURE WITH COMMON OPERATING MECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR & EARTH SWITCH IN SINGLE ENCLOSURE WITH COMMON OPERATING MECHANISM IS TO BE PROVIDED UNDER THE HEAD OF SPARE DIS-CONNECTOR ONLY. NOTE 2 - IN CASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAME ENCLOSURE WITH SEPARATE OPERATING MECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR & EARTH SWITCH IN SINGLE ENCLOSURE WITH SEPARATE OPERATING MECHANISM IS TO BE PROVIDED UNDER

SL	DESCRIPTION	UNIT	QTY	REMARKS
4.41	220KV GIS - THREE PHASE FAST EARTHING SWITCH INCLUDING MAIN CIRCUIT,ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC., COMPLETE INALL RESPECT	SET	1	1 SET= 1 number of each make, type and rating. (NOTE 1 - IN CASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAME ENCLOSURE WITH COMMON OPERATINGMECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR & EARTH SWITCHIN SINGLE ENCLOSURE WITH COMMON OPERATING MECHANISM IS TO BE PROVIDEDUNDER THE HEAD OF SPARE DIS-CONNECTOR ONLY. NOTE 2 - IN CASE,DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAMEENCLOSURE WITH SEPARATE OPERATING MECHANISM, THEN THE MODULECOMPRISING OF DIS-CONNECTOR & EARTH SWITCH IN SINGLE ENCLOSURE WITHSEPARATE OPERATING MECHANISM IS TO BE PROVIDED UNDER
4.42	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKINGCOILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONEOF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 220KV GIS DISCONNECTORSWITCH	SET	1	
4.43	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKINGCOILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONEOF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 220KV GIS MAINTENANCE EARTH SWITCH	SET	1	
4.44	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKINGCOILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONEOF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 220KV GIS FAST EARTHINGSWITCH	SET	1	
4.45	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FORDISCONNECTOR-220KV GIS	SET	2	
4.46	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FORMAINTENANCE EARTHING SWITCH-220KV GIS	SET	2	

400/220kV GIS METRO DEPOT

ANNEXURE_BOQ_Gr. Noida, Rev.01 (dated 02 Aug 2023)

SL	DESCRIPTION	UNIT	QTY	REMARKS
4.47	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR FASTEARTHING SWITCH (IF APPLICABLE)-220KV GIS	SET	2	
4.48	DRIVE MECHANISM FOR 220KV GIS DISCONNECTOR SWITCH	SET	1	
4.49	DRIVE MECHANISM FOR 220KV GIS MAINTENANCE EARTH SWITCH	SET	1	
4.5	DRIVE MECHANISM FOR 220KV GIS FAST EARTHING SWITCH	SET	1	
4.51	MOTOR FOR DRIVE MECHANISM FOR 220KV GIS DISCONNECTOR SWITCH	SET	1	1 SET= 1 number of each make, type and rating
4.52	MOTOR FOR DRIVE MECHANISM FOR 220KV GIS MAINTENANCE EARTH SWITCH	SET	1	1 SET= 1 number of each make, type and rating
4.53	MOTOR FOR DRIVE MECHANISM FOR 220KV GIS FAST EARTHING SWITCH	SET	1	1 SET= 1 number of each make, type and rating
4.54	220KV GIS- SINGLE PHASE OF CURRENT TRANSFORMER (4 CORES) WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALL RESPECT	SET	1	1 SET= 1 number of each make, type and rating
4.55	220KV GIS- SINGLE PHASE VT WITH ASSOCIATED ENCLOSURE COMPLETE IN ALL RESPECT	SET	1	1 SET= 1 number of each make, type and rating
4.56	220KV GIS- SINGLE PHASE GAS INSULATED SURGE ARRESTER WITH ASSOCIATED ENCLOSURE AND INSULATOR COMPLETE IN ALL RESPECT	SET	1	1 SET= 1 number of each make, type and rating
4.57	220KV GIS- SURGE COUNTER/ MONITOR	SET	1	1 SET= 1 number of each make, type and rating

5 SERVICES- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS				
5.01	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 CSD.
5.02	SERVICES- GIS : 400KV, SUPERVISION OF ERECTION OF GAS INSULATED BUS DUCT	MTR	300	Single-phase Busduct.
5.03	SERVICES- GIS : 400KV, SUPERVISION OF ERECTION OF SF6 TO AIR BUSHING	SET	15	Single phase SF6 Bushing.
5.04	SERVICES- GIS : 400KV, TESTING & COMMISSIONING OF GIS	LOT	1	Testing and commissioning of complete 400kV GIS system (excluding HV Test) is to be executed by contractor. 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 GIS, SAB & CSD etc complete in

400/220kV GIS METRO DEPOT

ANNEXURE_BOQ_Gr. Noida, Rev.01 (dated 02 Aug 2023)

SL	DESCRIPTION	UNIT	QTY	REMARKS
5.05	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.
5.06	SERVICES- GIS : INSULATION CO-ORDINATION STUDIES FOR GIS SYSTEM	LOT	1	Including VFTO report.
6	SERVICES- GIS : 220KV, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
6.01	SERVICES- GIS : 220KV, 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 CSD.
6.02	SERVICES- GIS : 220KV, SUPERVISION OF ERECTION OF GAS INSULATED BUS DUCT	MTR	280	Single-phase Busduct.
6.03	SERVICES- GIS : 220KV, SUPERVISION OF ERECTION OF SF6 TO AIR BUSHING	SET	18	Single phase SF6 Bushing.
6.04	SERVICES- GIS : 220KV, TESTING & COMMISSIONING OF GIS	LOT	1	Testing and commissioning of complete 400kV GIS system (excluding HV Test) is to be executed by contractor. 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 GIS, SAB & CSD etc complete in
6.05	SERVICES- GIS : 220KV, 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.
7	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)			
7.01	SPARES- GIS : 400KV, SINGLE PHASE BUS BAR	MTR	1	Complete in all respect.
7.02	SPARES- GIS : 400KV, GIS METALLIC ENCLOSURE	KG	50	
7.03	SPARES- GIS : 400KV, EXPANSION BELLOWS/ JOINTS	Set	1	For Single Phase of any type and any rating.
7.04	SPARES- GIS : 400KV, TEE BEND	Set	1	For Single Phase of any type and any rating.
7.05	SPARES- GIS : 400KV, ANGLE BEND (135°)	Set	1	For Single Phase of any type and any rating.
7.06	SPARES- GIS : 400KV, L-BEND	Set	1	For Single Phase of any type and any rating.
7.07	SPARES- GIS : 220KV, SINGLE PHASE BUS BAR	MTR	1	Complete in all respect.
7.08	SPARES- GIS : 220KV, GIS METALLIC ENCLOSURE	KG	50	

SL	DESCRIPTION	UNIT	QTY	REMARKS
7.09	SPARES- GIS : 220KV, EXPANSION BELLOWS/ JOINTS	Set	1	For Single Phase of any type and any rating.
7.1	SPARES- GIS : 220KV, TEE BEND	Set	1	For Single Phase of any type and any rating.
7.11	SPARES- GIS : 220KV, ANGLE BEND (135°)	Set	1	For Single Phase of any type and any rating.
7.12	SPARES- GIS : 220KV, L-BEND	Set	1	For Single Phase of any type and any rating.
8	SERVICES- GIS : REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SERVICES			
	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)			
8.01	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.
8.02	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.
8.03	SERVICES- GIS : 400KV, REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - HIRING CHARGES OF HV TEST KIT WITH OPERATOR	LOT	1	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)
8.04	SERVICES- GIS : 220KV, REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - HIRING CHARGES OF HV TEST KIT WITH OPERATOR	LOT	1	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)

SL	DESCRIPTION	UNIT	QTY	REMARKS
9	SUPPLY- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
9.01	420kV, 4000 A, 63 kA, SF6 GIS Bus barmodule as per Section-Project,Technical specification	SET	2	
9.02	420 kV, 3150 A, 63 kA, SF6 GIS Linefeeder bay module(without PIR) as perSection-Project,	SET	2	
9.03	420kV, 3150 A, 63 kA, SF6 GIS BusReactor bay module as perSection-Project, Technicalspecification	SET	1	
9.04	420kV, 3150 A, 63 kA, SF6 GIS ICT feederbay module as per Section-Project,Technical specification	SET	2	
9.05	420KV, 3150A, 63KA SF6 GIS BUS COUPLER BAY MODULE AS PER SECTION- PROJECT, TECHNICAL	EACH	1	
9.06	3150A, 63KA, 1SEC SINGLE PHASE 420KV SF6 TO AIR BUSHING	SET	15	1 SET= 1 number of each make, type and rating
9.07	Controlled Switching Device for 420 kV, 3-ph Circuit Breaker	SET	3	1 SET= 1 number of each make, type and rating
9.08	420kV, 3000A, 63kA, Single phase, SF6Gas Insulated Bus Duct (GIB) outsideGIS Hall alongwith associated supportstructure	M	300	
9.09	Portable Partial Discharge measurement test kitwith all necessary accessories,Industrial Grade Laptop and licensedsoftware as per Technicalspecification.	SET	1	1 SET= 1 number of each make, type and rating
9.10	SF6 Gas processing Unit for 400kV GIS station	SET	1	
9.11	SF6 Gas processing Unit for 220kV GIS Station	SET	1	
9.12	SF6 Gas Leakage Detector	SET	1	1 SET= 1 number of each make, type and rating
9.13	SF6 GAS ANALYZER	SET	1	1 SET= 1 number of each make, type and rating
10	SUPPLY- GIS : 220KV, 40KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
10.01	245KV, 1600A, 40KA SINGLE PHASE SF6 TO AIR BUSHING	SET	18	
10.02	245kV,1600A, 40kA,Single phase, SF6 Gas Insulated Bus Duct(GIB) outside GIS Hall alongwith associated support structure	M	280	
10.03	245kV, 3000 A, 40 kA, SF6 GIS Buscoupler bay module as perSection-Project, Technicalspecification	SET	1	
10.04	245kV, 1600 A, 40 kA, SF6 GIS ICT feederbay module as per Section-Project,Technical specification	SET	2	
10.05	245kV, 1600 A, 40 kA, SF6 GIS Linefeeder bay module as perSection-Project, Technicalspecification	SET	4	
10.06	245 kV, 3000A, 40kA, SF6 GIS Bus barmodule as per Section-Project,Technical specification	SET	2	
11	SPARES- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
11.01	400KV GIS-SF6 GAS PRESSURE RELIEF DEVICE ASSEMBLY OF EACH TYPE	SET	2	1 SET= 1 number of each make, type and rating
11.02	SF6 PRESSURE GAUGE CUM SWITCH /DENSITY MONITORS AND PRESSURESWITCH AS APPLICABLE, OF EACH TYPE-400KV GIS	SET	3	

SL	DESCRIPTION	UNIT	QTY	REMARKS
11.03	COUPLING DEVICE FOR PRESSURE GAUGE CUM SWITCH FOR CONNECTING GAS HANDLING PLANT OF EACH TYPE-400KV GIS	SET	2	
11.04	RUBBER GASKETS, RINGS AND SEALS FOR SF6 GAS FOR ENCLOSURE OF EACH TYPE-400KV GIS	SET	3	
11.05	400KV GIS-MOLECULAR FILTER FOR SF6 GAS WITH FILTER BAGS (5 % OF TOTAL WEIGHT)	SET	1	
11.06	CONTROL VALVES FOR SF6 GAS OF EACH TYPE-400KV GIS	SET	3	
11.07	400KV GIS-SF6 GAS (5 % OF TOTAL GAS QUANTITY)	LOT	1	
11.08	LOCKING DEVICE TO KEEP THE DISCONNECTORS (ISOLATORS) AND EARTHING/FAST EARTHING SWITCHES IN CLOSE OR OPEN POSITION IN CASE OF REMOVAL OF THE DRIVING MECHANISM-400KV GIS	SET	3	
11.09	UHF PD SENSORS OF EACH TYPE ALONG WITH BNC CONNECTOR FOR 420KV GIS	SET	5	1 SET= 1 number of each make, type and rating
11.1	400KV GIS-SUPPORT INSULATORS (GAS THROUGH) OF EACH TYPE (COMPLETE WITH METAL RING ETC.) ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	SET	5	1 SET= 1 number of each make, type and rating
11.11	400KV GIS-GAS BARRIERS OF EACH TYPE (COMPLETE WITH METAL RING ETC.) ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	SET	5	1 SET= 1 number of each make, type and rating
11.12	400KV GIS- 3150A SF6 TO AIR BUSHING COMPLETE IN ALL RESPECT	SET	1	1 SET= 1 number of each make, type and rating
11.13	LCC SPARES - AUX. RELAYS, CONTACTORS, PUSH BUTTONS, SWITCHES, LAMPS, ANNUNCIATION WINDOWS, MCB, FUSES, TIMERS, TERMINAL BLOCKS ETC. OF EACH TYPE & RATING-400kV GIS	SET	2	
11.14	400KV GIS-ONE POLE OF 3150A CIRCUIT BREAKER WITHOUT PIR WITH INTERRUPTER, MAIN CIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALL RESPECT	SET	1	
11.15	400KV GIS-ONE POLE OF 3150A CIRCUIT BREAKER WITH PIR WITH INTERRUPTER, MAIN CIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALL RESPECT	SET	1	
11.16	Trip coil assembly with resistor for 420kV GIS Circuit Breaker (as applicable)	SET	3	
11.17	Closing coil assembly with resistor for 420kV GIS Circuit Breaker (as applicable)	SET	3	
11.18	RELAYS, POWER CONTACTORS, PUSH BUTTONS, TIMERS & MCBS ETC. (AS APPLICABLE) OF EACH TYPE FOR 400KV GIS CIRCUIT BREAKER	SET	1	

SL	DESCRIPTION	UNIT	QTY	REMARKS
11.19	Auxiliary switch assembly of each type for 420kV GIS Circuit Breaker	SET	3	
11.2	400KV GIS CIRCUIT BREAKER-OPERATION COUNTER	SET	3	1 SET= 1 number of each make, type and rating
11.21	400KV GIS CIRCUIT BREAKER-HYDRAULIC OPERATING MECHANISM WITH DRIVEMOTOR (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
11.22	HYDRAULIC FILTER OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREAKER	SET	1	
11.23	400KV GIS CIRCUIT BREAKER- HOSE PIPE OF EACH TYPE (AS APPLICABLE) (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
11.24	400KV GIS CIRCUIT BREAKER - N2 ACCUMULATOR (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
11.25	VALVES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREAKER	SET	1	
11.26	PIPE LENGTH (COPPER & STEEL) OF EACH SIZE & TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREAKER	SET	1	
11.27	PRESSURE SWITCHES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREAKER	SET	1	
11.28	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREAKER	SET	1	
11.29	400KV GIS CIRCUIT BREAKER-HYDRAULIC OIL (5% OF TOTAL OIL QUANTITY)(FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
11.3	PRESSURE RELIEF DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREAKER	SET	1	
11.31	400KV GIS CIRCUIT BREAKER-COMPLETE SPRING OPERATING MECHANISM INCLUDING CHARGING MECHANISM ETC. (FOR SPRING OPERATED MECHANISM, IF APPLICABLE)	SET	1	
11.32	400KV GIS CIRCUIT BREAKER- COMPLETE HYDRAULIC-SPRING OPERATING MECHANISM INCLUDING CHARGING MECHANISM ETC. (FOR HYDRAULIC-SPRING OPERATED MECHANISM, IF APPLICABLE)	SET	1	
11.33	PRESSURE SWITCHES OF EACH TYPE FOR 420KV GIS CIRCUIT BREAKER (For Hydraulic-Spring Operated Mechanism, if applicable)	SET	1	

SL	DESCRIPTION	UNIT	QTY	REMARKS
11.34	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULIC-SPRING OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT	SET	1	
11.35	400kV GIS- Single phase of 3150A disconnecter switch including main circuit, enclosure, driving mechanism and support insulator etc., complete in all respect	SET	4	1 SET = 1 number of each make, type and rating. (NOTE 1- The contractor shall supply spare for disconnecter switch to ensure one to one replacement of all disconnecter switch supplied as main equipment without any requirement of modification in fittings at site to cover all different types of disconnecter switch supplied. In case, quantity of supplied dis-connecter switch types (for one to one replacement) are more than the quantity mentioned in BPS for spare, the contractor shall supply these additional types of disconnecter switch without any additional price implication to POWER GRID and quantities of these additional type of disconnecter switch are deemed to be included in the quantities mentioned in BPS for spare disconnecter. Note 2 - In case, Disconnector Switch (DS) & Earth Switch (ES) is provided in a same enclosure with common operating mechanism, then the module comprising of Dis-connector & Earth switch in single enclosure with common operating mechanism is to be provided under the head of spare Dis-connector only. Note 3- In case, Dis-connector Switch (DS) & Earth Switch (ES) is provided in a same enclosure with separate operating mechanism, then the module comprising of Dis-connector & Earth switch in single enclosure with separate operating mechanism is to be provided under the head of spare Dis-connector only.)
11.36	400KV GIS- SINGLE PHASE MAINTENANCE EARTHING SWITCH INCLUDING MAIN CIRCUIT, ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC., COMPLETE IN ALL RESPECT	SET	2	1 SET = 1 number of each make, type and rating. (NOTE 1 - IN CASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAME ENCLOSURE WITH COMMON OPERATING MECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR & EARTH SWITCH IN SINGLE ENCLOSURE WITH COMMON OPERATING MECHANISM IS TO BE PROVIDED UNDER THE HEAD OF SPARE DIS-CONNECTOR ONLY. NOTE 2 - IN CASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAME ENCLOSURE WITH SEPARATE OPERATING MECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR & EARTH SWITCH IN SINGLE ENCLOSURE

SL	DESCRIPTION	UNIT	QTY	REMARKS
11.37	400KV GIS - SINGLE PHASE FAST EARTHING SWITCH INCLUDING MAIN CIRCUIT,ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC., COMPLETE IN ALL RESPECT	SET	2	1 SET= 1 number of each make, type and rating. (NOTE 1 - IN CASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAME ENCLOSURE WITH COMMON OPERATING MECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR & EARTH SWITCH IN SINGLE ENCLOSURE WITH COMMON OPERATING MECHANISM IS TO BE PROVIDED UNDER THE HEAD OF SPARE DIS-CONNECTOR ONLY. NOTE 2 - IN CASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAME ENCLOSURE WITH SEPARATE OPERATING MECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR & EARTH SWITCH IN SINGLE ENCLOSURE WITH SEPARATE OPERATING MECHANISM IS TO BE PROVIDED UNDER THE HEAD OF SPARE DIS-CONNECTOR ONLY.)
11.38	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKING COILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS, RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONE OF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 400KV GIS DISCONNECTOR SWITCH	SET	1	
11.39	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKING COILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS, RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONE OF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 400KV GIS MAINTENANCE EARTH SWITCH	SET	1	
11.4	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKING COILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS, RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONE OF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 400KV GIS FAST EARTH SWITCH	SET	1	
11.41	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR DISCONNECTOR-400KV GIS	SET	2	
11.42	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR MAINTENANCE EARTHING SWITCH-400KV GIS	SET	2	
11.43	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR FAST EARTHING SWITCH (IF APPLICABLE)-400KV GIS	SET	2	

SL	DESCRIPTION	UNIT	QTY	REMARKS
11.44	DRIVE MECHANISM FOR 400KV GIS DISCONNECTOR SWITCH	SET	1	
11.45	DRIVE MECHANISM FOR 400KV GIS MAINTENANCE EARTH SWITCH	SET	1	
11.46	DRIVE MECHANISM FOR 400KV GIS FAST EARTHING SWITCH	SET	1	
11.47	MOTOR FOR DRIVE MECHANISM FOR 400KV GIS DISCONNECTOR SWITCH	SET	1	1 SET= 1 number of each make, type and rating
11.48	MOTOR FOR DRIVE MECHANISM FOR 400KV GIS MAINTENANCE EARTH SWITCH	SET	1	1 SET= 1 number of each make, type and rating
11.49	MOTOR FOR DRIVE MECHANISM FOR 400KV GIS FAST EARTHING SWITCH	SET	1	1 SET= 1 number of each make, type and rating
11.5	400KV GIS- SINGLE PHASE OF CURRENT TRANSFORMER (3 CORES, TYPE-CTA)WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN	SET	1	1 SET= 1 number of each make, type and rating
11.51	400KV GIS- SINGLE PHASE OF CURRENT TRANSFORMER (2 CORES, TYPE-CTB)WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN	SET	1	1 SET= 1 number of each make, type and rating
11.52	400KV GIS- SINGLE PHASE VT WITH ASSOCIATED ENCLOSURE COMPLETE IN ALL RESPECT	SET	1	1 SET= 1 number of each make, type and rating
12	SPARES- GIS : 220KV, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
12.01	220KV GIS- CABLE CONNECTION ENCLOSURE WITH MAIN CIRCUIT	SET	1	
12.02	220KV GIS-SF6 GAS PRESSURE RELIEF DEVICE ASSEMBLY OF EACH TYPE	SET	2	1 SET= 1 number of each make, type and rating
12.03	SF6 PRESSURE GAUGE CUM SWITCH /DENSITY MONITORS AND PRESSURE SWITCH AS APPLICABLE, OF EACH TYPE-220KV GIS	SET	3	
12.04	COUPLING DEVICE FOR PRESSURE GAUGE CUM SWITCH FOR CONNECTING GAS HANDLING PLANT OF EACH TYPE-220KV GIS	SET	2	
12.05	RUBBER GASKETS, O-RINGS AND SEALS FOR SF6 GAS FOR GIS ENCLOSURE OF EACH TYPE-220KV GIS	SET	3	
12.06	220KV GIS-MOLECULAR FILTER FOR SF6 GAS WITH FILTER BAGS (5 % OF TOTAL WEIGHT)	SET	1	
12.07	CONTROL VALVES FOR SF6 GAS OF EACH TYPE-220KV GIS	SET	3	
12.08	220KV GIS-SF6 GAS (5 % OF TOTAL GAS QUANTITY)	LOT	1	
12.09	LOCKING DEVICE TO KEEP THE DIS-CONNECTORS (ISOLATORS) AND EARTHING/FAST EARTHING SWITCHES (AS APPLICABLE) IN CLOSE OR OPEN POSITION IN CASE OF REMOVAL OF THE DRIVING	SET	3	

SL	DESCRIPTION	UNIT	QTY	REMARKS
12.1	UHF PD SENSORS OF EACH TYPE ALONG WITH BNC CONNECTOR FOR 245KV GIS	SET	5	1 SET= 1 number of each make, type and rating
12.11	220KV GIS-SUPPORT INSULATORS (GAS THROUGH) OF EACH TYPE (COMPLETE WITHMETAL RING ETC.) ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	SET	5	1 SET= 1 number of each make, type and rating
12.12	220KV GIS-GAS BARRIERS OF EACH TYPE (COMPLETE WITH METAL RING ETC.)ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	SET	5	1 SET= 1 number of each make, type and rating
12.13	220KV GIS- 1600A SF6 TO AIR BUSHING COMPLETE IN ALL RESPECT	SET	1	1 SET= 1 number of each make, type and rating
12.14	LCC SPARES - AUX. RELAYS, CONTACTORS,PUSH BUTTONS, SWITCHES, LAMPS,ANNUNCIATION WINDOWS, MCB, FUSES,TIMERS, TERMINAL BLOCKS ETC. OF EACHTYPE & RATING-220kV GIS	SET	2	
12.15	220KV GIS-ONE POLE OF 1600A CIRCUIT BREAKER WITH INTERRUPTER, MAINCIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALL RESPECT	SET	1	
12.16	220KV GIS-ONE POLE OF 2500A CIRCUIT BREAKER WITH INTERRUPTER, MAINCIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALL RESPECT	SET	1	
12.17	220KV GIS-ONE POLE OF 3000A CIRCUIT BREAKER WITH INTERRUPTER, MAINCIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALL RESPECT	SET	1	
12.18	Trip coil assembly with resistor for245kV GIS Circuit Breaker (asapplicable)	SET	3	
12.19	Closing coil assembly with resistor for245kV GIS Circuit Breaker (asapplicable)	SET	1	
12.2	RELAYS, POWER CONTACTORS, PUSH BUTTONS, TIMERS & MCBS ETC. (ASAPPLICABLE) OF EACH TYPE FOR 220KV GIS CIRCUIT BREAKER	SET	1	
12.21	Auxiliary switch assembly of each type for 245kV GIS Circuit Breaker	SET	3	
12.22	220KV GIS CIRCUIT BREAKER-OPERATION COUNTER	SET	3	1 SET= 1 number of each make, type and rating
12.23	220KV GIS CIRCUIT BREAKER-HYDRAULIC OPERATING MECHANISM WITH DRIVEMOTOR (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
12.24	HYDRAULIC FILTER OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFPPLICABLE)-220KV GIS CIRCUIT BREKAER	SET	1	
12.25	220KV GIS CIRCUIT BREAKER- HOSE PIPE OF EACH TYPE (AS APPLICABLE) (FORHYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
12.26	220KV GIS CIRCUIT BREAKER - N2 ACCUMULATOR (FOR HYDRAULIC OPERATEDMECHANISM, IF APPLICABLE)	SET	1	

SL	DESCRIPTION	UNIT	QTY	REMARKS
12.27	VALVES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-220KV GIS CIRCUIT BREKAER	SET	1	
12.28	PIPE LENGTH (COPPER & STEEL) OF EACH SIZE & TYPE (FOR HYDRAULICOPERATED MECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT BREKAER	SET	1	
12.29	PRESSURE SWITCHES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-220KV GIS CIRCUIT BREKAER	SET	1	
12.3	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULICOPERATED MECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT BREKAER	SET	1	
12.31	220KV GIS CIRCUIT BREAKER-HYDRAULIC OIL (5% OF TOTAL OIL QUANTITY)(FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
12.32	PRESSURE RELIEF DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM,IF APPLICABLE)-220KV GIS CIRCUIT BREKAER	SET	1	
12.33	220KV GIS CIRCUIT BREAKER-COMPLETE SPRING OPERATING MECHANISMINCLUDING CHARGING MECHANISM ETC. (FOR SPRING OPERATED MECHANISM, IFAPPLICABLE)	SET	1	
12.34	220KV GIS CIRCUIT BREAKER- COMPLETE HYDRAULIC-SPRING OPERATINGMECHANISM INCLUDING CHARGING MECHANISM ETC. (FOR HYDRAULIC-SPRINGOPERATED MECHANISM, IF APPLICABLE)	SET	1	
12.35	PRESSURE SWITCHES OF EACH TYPE (FOR HYDRAULIC-SPRING OPERATEDMECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT BREAKER	SET	1	
12.36	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULIC-SPRINGOPERATED MECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT	SET	1	

SL	DESCRIPTION	UNIT	QTY	REMARKS
12.37	220kV GIS- Three phase of 1600A disconnecter switch including main circuit, enclosure, driving mechanism and support insulator etc., complete in all respect	SET	4	1 SET = 1 number of each make, type and rating. (Note 1- The contractor shall supply spare for disconnecter switch to ensure one to one replacement of all disconnecter switch supplied as main equipment without any requirement of modification in fittings at site to cover all different types of disconnecter switch supplied. In case, quantity of supplied dis-connecter switch types (for one to one replacement) are more than the quantity mentioned in BPS for spare, the contractor shall supply these additional types of disconnecter switch without any additional price implication to POWERGRID and quantities of these additional type of disconnecter switch are deemed to be included in the quantities mentioned in BPS for spare disconnecter. Note 2 - In case, Disconnector Switch (DS) & Earth Switch (ES) is provided in a same enclosure with common operating mechanism, then the module comprising of Dis-connector & Earth switch in single enclosure with common operating mechanism is to be provided under the head of spare Dis-connector only. Note 3- In case, Dis-connector Switch (DS) & Earth Switch (ES) is provided in a same enclosure with separate operating mechanism, then the module comprising of Dis-connector & Earth switch in single enclosure with separate operating mechanism is to be provided under the head of spare Dis-connector only. Note 3- In case, Dis-connector Switch (DS) & Earth Switch (ES) is provided in a same enclosure with separate
12.38	220kV GIS- Three phase of 2500A disconnecter switch including main circuit, enclosure, driving mechanism and support insulator etc., complete in all respect	SET	2	1 SET = 1 number of each make, type and rating. (Note 1- The contractor shall supply spare for disconnecter switch to ensure one to one replacement of all disconnecter switch supplied as main equipment without any requirement of modification in fittings at site to cover all different types of disconnecter switch supplied. In case, quantity of supplied dis-connecter switch types (for one to one replacement) are more than the quantity mentioned in BPS for spare, the contractor shall supply these additional types of disconnecter switch without any additional price implication to POWERGRID and quantities of these additional type of disconnecter switch are deemed to be included in the quantities mentioned in BPS for spare disconnecter. Note 2 - In case, Disconnector Switch (DS) & Earth Switch (ES) is provided in a same enclosure with common operating mechanism, then the module comprising of Dis-connector & Earth switch in single enclosure with common operating mechanism is to be provided under the head of spare Dis-connector only. Note 3- In case, Dis-connector Switch (DS) & Earth Switch (ES) is provided in a same enclosure with separate

SL	DESCRIPTION	UNIT	QTY	REMARKS
12.39	220kV GIS- Three phase of 3000A disconnecter switch including main circuit, enclosure, driving mechanism and support insulator etc., complete in all respect	SET	2	1 SET= 1 number of each make, type and rating. (NOTE 1- The contractor shall supply spare for disconnectorswitch to ensure one to one replacement of all disconnecter switch supplied as main equipment without any requirement of modification in fittings at site to cover all different types of disconnecter switch supplied. In case, quantity of supplied dis-connectorswitch types (for one to one replacement) are more than the quantity mentioned in BPS for spare, the contractor shall supply these additional types of disconnecter switch without any additional price implication to POWERGRID and quantities of these additional type of disconnecter switch are deemed to be included in the quantities mentioned in BPS for spare disconnecter. Note 2 - In case, Dis-connecter Switch (DS) & Earth Switch (ES) is provided in a same enclosure with common operating mechanism, then the module comprising of Dis-connector & Earth switch in single enclosure with common operating mechanism is to be provided under the head of spare Dis-connector only. Note 3- In case, Dis-connector Switch (DS) & Earth Switch (ES) is provided in a same enclosure with separate operating mechanism, then the module comprising of Dis-connector & Earth switch in single enclosure with separate operating mechanism is to be provided under the head of spare Dis-connector only.)
12.4	220KV GIS- THREE PHASE MAINTENANCE EARTHING SWITCH INCLUDING MAIN CIRCUIT, ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC., COMPLETE IN ALL RESPECT	SET	1	1 SET= 1 number of each make, type and rating. (NOTE 1 - IN CASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAME ENCLOSURE WITH COMMON OPERATING MECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR & EARTH SWITCH IN SINGLE ENCLOSURE WITH COMMON OPERATING MECHANISM IS TO BE PROVIDED UNDER THE HEAD OF SPARE DIS-CONNECTOR ONLY. NOTE 2 - IN CASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAME ENCLOSURE WITH SEPARATE OPERATING MECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR & EARTH SWITCH IN SINGLE ENCLOSURE WITH SEPARATE OPERATING MECHANISM IS TO BE PROVIDED UNDER THE HEAD OF SPARE DIS-CONNECTOR ONLY.)

SL	DESCRIPTION	UNIT	QTY	REMARKS
12.41	220KV GIS - THREE PHASE FAST EARTHING SWITCH INCLUDING MAIN CIRCUIT,ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC., COMPLETE IN ALL RESPECT	SET	1	1 SET = 1 number of each make, type and rating. (NOTE 1 - IN CASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAME ENCLOSURE WITH COMMON OPERATING MECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR & EARTH SWITCH IN SINGLE ENCLOSURE WITH COMMON OPERATING MECHANISM IS TO BE PROVIDED UNDER THE HEAD OF SPARE DIS-CONNECTOR ONLY. NOTE 2 - IN CASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAME ENCLOSURE WITH SEPARATE OPERATING MECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR & EARTH SWITCH IN SINGLE ENCLOSURE WITH SEPARATE OPERATING MECHANISM IS TO BE PROVIDED UNDER THE HEAD OF SPARE DIS-CONNECTOR ONLY.)
12.42	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKING COILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS, RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONE OF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 220KV GIS DISCONNECTOR SWITCH	SET	1	
12.43	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKING COILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS, RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONE OF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 220KV GIS MAINTENANCE EARTH SWITCH	SET	1	
12.44	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKING COILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS, RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONE OF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 220KV GIS FAST EARTHING SWITCH	SET	1	
12.45	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR DISCONNECTOR-220KV GIS	SET	2	
12.46	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR MAINTENANCE EARTHING SWITCH-220KV GIS	SET	2	
12.47	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR FAST EARTHING SWITCH (IF APPLICABLE)-220KV GIS	SET	2	

ANNEXURE_BOQ_JALPURA, Rev.01 (dated 02 Aug 2023)

SL	DESCRIPTION	UNIT	QTY	REMARKS
12.48	DRIVE MECHANISM FOR 220KV GIS DISCONNECTOR SWITCH	SET	1	
12.49	DRIVE MECHANISM FOR 220KV GIS MAINTENANCE EARTH SWITCH	SET	1	
12.5	DRIVE MECHANISM FOR 220KV GIS FAST EARTHING SWITCH	SET	1	
12.51	MOTOR FOR DRIVE MECHANISM FOR 220KV GIS DISCONNECTOR SWITCH	SET	1	1 SET= 1 number of each make, type and rating
12.52	MOTOR FOR DRIVE MECHANISM FOR 220KV GIS MAINTENANCE EARTH SWITCH	SET	1	1 SET= 1 number of each make, type and rating
12.53	MOTOR FOR DRIVE MECHANISM FOR 220KV GIS FAST EARTHING SWITCH	SET	1	1 SET= 1 number of each make, type and rating

ANNEXURE_BOQ_JALPURA, Rev.01 (dated 02 Aug 2023)

SL	DESCRIPTION	UNIT	QTY	REMARKS
12.54	220KV GIS- SINGLE PHASE OF CURRENT TRANSFORMER (4 CORES) WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALL RESPECT	SET	1	1 SET= 1 number of each make, type and rating
12.55	220KV GIS- SINGLE PHASE VT WITH ASSOCIATED ENCLOSURE COMPLETE IN ALL RESPECT	SET	1	1 SET= 1 number of each make, type and rating
12.56	220KV GIS- SINGLE PHASE GAS INSULATED SURGE ARRESTER WITH ASSOCIATED ENCLOSURE AND INSULATOR COMPLETE IN ALL RESPECT	SET	1	1 SET= 1 number of each make, type and rating
12.57	220KV GIS- SURGE COUNTER/ MONITOR	SET	1	1 SET= 1 number of each make, type and rating
13	SERVICES- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
13.01	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 CSD.
13.02	SERVICES- GIS : 400KV, SUPERVISION OF ERECTION OF GAS INSULATED BUS DUCT	MTR	300	Single-phase Busduct.
13.03	SERVICES- GIS : 400KV, SUPERVISION OF ERECTION OF SF6 TO AIR BUSHING	SET	15	Single phase SF6 Bushing.
13.04	SERVICES- GIS : 400KV, TESTING & COMMISSIONING OF GIS	LOT	1	Testing and commissioning of complete 400kv GIS system (excluding HV Test) is to be executed by contractor. 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 GIS, SAB & CSD etc complete in all aspect)
13.05	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.
13.06	SERVICES- GIS : INSULATION CO-ORDINATION STUDIES FOR GIS SYSTEM	LOT	1	Including VFTO report.

SL	DESCRIPTION	UNIT	QTY	REMARKS
14	SERVICES- GIS : 220KV, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
14.01	SERVICES- GIS : 220KV, 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 CSD.
14.02	SERVICES- GIS : 220KV, SUPERVISION OF ERECTION OF GAS INSULATED BUS DUCT	MTR	280	Single-phase Busduct.
14.03	SERVICES- GIS : 220KV, SUPERVISION OF ERECTION OF SF6 TO AIR BUSHING	SET	18	Single phase SF6 Bushing.
14.04	SERVICES- GIS : 220KV, TESTING & COMMISSIONING OF GIS	LOT	1	Testing and commissioning of complete 400kV GIS system (excluding HV Test) is to be executed by contractor. 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 GIS, SAB & CSD etc complete in all aspect)
14.05	SERVICES- GIS : 220KV, 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.

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400kV and 220kV GIS at POWERGRID_ Greater Noida and Jalpura

Enquiry/NIT No: NIT No_75838_Enquiry No_61G2400135 Dated 31-07-2023

Name of the Bidder/ Bidding Firm / Company :	
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PRICE SCHEDULE
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	TEXT #	NUMBER #	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER #	NUMBER #	NUMBER #	TEXT #
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	420kV, 4000 A, 63 kA, SF6 GIS Bus barmodule as per Section-Project, Technical specification	item1	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.02	420 kV, 3150 A, 63 kA, SF6 GIS Linefeeder bay module(without PIR) as perSection-Project, Technicalspecification	item2	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.03	420kV, 3150 A, 63 kA, SF6 GIS BusReactor bay module as perSection-Project, Technicalspecification	item3	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.04	420kV, 3150 A, 63 kA, SF6 GIS ICT feederbay module as per Section-Project,Technical specification	item4	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.05	420KV, 3150A, 63KA SF6 GIS BUS COUPLER BAY MODULE AS PER SECTION- PROJECT, TECHNICAL SPECIFICATION	item5	1	EACH	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.06	3150A, 63KA, 1SEC SINGLE PHASE 420KV SF6 TO AIR BUSHING	item6	15	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.07	Controlled Switching Device for 420 kV, 3-ph Circuit Breaker	item7	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.08	420kV, 3000A, 63kA, Single phase, SF6Gas Insulated Bus Duct (GIB) outsideGIS Hall alongwith associated supportstructure	item8	300	M	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.09	Portable Partial Discharge measurement test kitwith all necessary accessories,Industrial Grade Laptop and licensedsoftware as per Technicalspecification.	item9	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.1	SF6 Gas processing Unit for 400kV GIS station	item10	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.11	SF6 Gas processing Unit for 220kV GIS Station	item11	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.12	SF6 Gas Leakage Detector	item12	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.13	SF6 GAS ANALYZER	item13	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.01	245kV, 3000 A, 40 kA, SF6 GIS Buscoupler bay module as perSection-Project, Technicalspecification	item14	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400kV and 220kV GIS at POWERGRID_ Greater Noida and Jalpura

Enquiry/NIT No: NIT No_75838_Enquiry No_61G2400135 Dated 31-07-2023

Name of the Bidder/ Bidding Firm / Company :

PRICE SCHEDULE
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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
2.02	245kV, 1600 A, 40 kA, SF6 GIS ICT feederbay module as per Section-Project,Technical specification	item15	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.03	245kV, 1600 A, 40 kA, SF6 GIS Linefeeder bay module as perSection-Project, Technicalspecification	item16	4	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.04	245 kV, 3000A, 40kA, SF6 GIS Bus barmodule as per Section-Project,Technical specification	item17	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.05	245KV, 1600A, 40KA SINGLE PHASE SF6 TO AIR BUSHING	item18	18	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.06	245kV,1600A, 40kA,Single phase, SF6 Gas Insulated Bus Duct(GIB) outside GIS Hall alongwith associated support structure	item19	280	M	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.01	400KV GIS-SF6 GAS PRESSURE RELIEF DEVICE ASSEMBLY OF EACH TYPE	item20	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.02	SF6 PRESSURE GAUGE CUM SWITCH /DENSITY MONITORS AND PRESSURESWITCH AS APPLICABLE, OF EACH TYPE-400KV GIS	item21	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.03	COUPLING DEVICE FOR PRESSURE GAUGE CUM SWITCH FOR CONNECTINGGAS HANDLING PLANT OF EACH TYPE-400KV GIS	item22	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.04	RUBBER GASKETS, Á,á,-Á'ÓÁ,á,-Á RINGS AND SEALS FOR SF6 GAS FOR GISENCLOSURE OF EACH TYPE-400KV GIS	item23	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.05	400KV GIS-MOLECULAR FILTER FOR SF6 GAS WITH FILTER BAGS (5 % OF TOTALWEIGHT)	item24	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.06	CONTROL VALVES FOR SF6 GAS OF EACH TYPE-400KV GIS	item25	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.07	400KV GIS-SF6 GAS (5 % OF TOTAL GAS QUANTITY)	item26	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.08	LOCKING DEVICE TO KEEP THE DIS-CONNECTORS (ISOLATORS)AND EARTHING/FAST EARTHING SWITCHES IN CLOSE OR OPEN POSITION IN CASEOF REMOVAL OF THE DRIVING MECHANISM-400KV GIS	item27	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.09	UHF PD SENSORS OF EACH TYPE ALONG WITH BNC CONNECTOR FOR 420KV GIS	item28	5	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400kV and 220kV GIS at POWERGRID_ Greater Noida and Jalpura

Enquiry/NIT No: NIT No_75838_Enquiry No_61G2400135 Dated 31-07-2023

Name of the Bidder/ Bidding Firm / Company :

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
3.1	400KV GIS-SUPPORT INSULATORS (GAS THROUGH) OF EACH TYPE (COMPLETE WITHMETAL RING ETC.) ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	item29	5	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.11	400KV GIS-GAS BARRIERS OF EACH TYPE (COMPLETE WITH METAL RING ETC.)ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	item30	5	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.12	400KV GIS- 3150A SF6 TO AIR BUSHING COMPLETE IN ALL RESPECT	item31	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.13	LCC SPARES - AUX. RELAYS, CONTACTORS,PUSH BUTTONS, SWITCHES,LAMPS,ANNUNCIATION WINDOWS, MCB, FUSES,TIMERS, TERMINAL BLOCKS ETC. OF EACHTYPE & RATING-400kV GIS	item32	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.14	400KV GIS-ONE POLE OF 3150A CIRCUIT BREAKER WITHOUT PIR WITHINTERRUPTER, MAIN CIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETEIN ALL RESPECT	item33	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.15	400KV GIS-ONE POLE OF 3150A CIRCUIT BREAKER WITH PIR WITH INTERRUPTER,MAIN CIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALLRESPECT	item34	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.16	Trip coil assembly with resistor for420kV GIS Circuit Breaker (asapplicable)	item35	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.17	Closing coil assembly with resistor for420kV GIS Circuit Breaker (asapplicable)	item36	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.18	RELAYS, POWER CONTACTORS, PUSH BUTTONS, TIMERS & MCBS ETC. (ASAPPLICABLE) OF EACH TYPE FOR 400KV GIS CIRCUIT BREAKER	item37	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.19	Auxiliary switch assembly of each type for 420kV GIS Circuit Breaker	item38	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.2	400KV GIS CIRCUIT BREAKER-OPERATION COUNTER	item39	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.21	400KV GIS CIRCUIT BREAKER-HYDRAULIC OPERATING MECHANISM WITH DRIVEMOTOR (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item40	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.22	HYDRAULIC FILTER OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFPPPLICABLE)-400KV GIS CIRCUIT BREKAER	item41	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400kV and 220kV GIS at POWERGRID_ Greater Noida and Jalpura

Enquiry/NIT No: NIT No_75838_Enquiry No_61G2400135 Dated 31-07-2023

Name of the Bidder/ Bidding Firm / Company :	
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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
3.23	400KV GIS CIRCUIT BREAKER- HOSE PIPE OF EACH TYPE (AS APPLICABLE) (FORHYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item42	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.24	400KV GIS CIRCUIT BREAKER - N2 ACCUMULATOR (FOR HYDRAULIC OPERATEDMECHANISM, IF APPLICABLE)	item43	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.25	VALVES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-400KV GIS CIRCUIT BREKAER	item44	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.26	PIPE LENGTH (COPPER & STEEL) OF EACH SIZE & TYPE (FOR HYDRAULICOPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	item45	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.27	PRESSURE SWITCHES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-400KV GIS CIRCUIT BREKAER	item46	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.28	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULICOPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	item47	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.29	400KV GIS CIRCUIT BREAKER-HYDRAULIC OIL (5% OF TOTAL OIL QUANTITY)(FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item48	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.3	PRESSURE RELIEF DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM,IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	item49	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.31	400KV GIS CIRCUIT BREAKER-COMLETE SPRING OPERATING MECHANISMINCLUDING CHARGING MECHANISM ETC. (FOR SPRING OPERATED MECHANISM, IFAPPLICABLE)	item50	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.32	400KV GIS CIRCUIT BREAKER- COMPLETE HYDRAULIC-SPRING OPERATINGMECHANISM INCLUDING CHARGING MECHANISM ETC. (FOR HYDRAULIC-SPRINGOPERATED MECHANISM, IF APPLICABLE)	item51	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.33	PRESSURE SWITCHES OF EACH TYPE FOR420KV GIS CIRCUIT BREAKER (ForHydraulic-Spring Operated Mechanism, ifapplicable)	item52	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.34	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULIC-SPRINGOPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	item53	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.35	400kV GIS- Single phase of 3150Adisconnector switch including maincircuit, enclosure, driving mechanismand support insulator etc., complete inall respect (Note 1- The contractorshall supply spare for disconnectorswitch to ensure one to one replacementof all disconnector switch supplied asmain equipment without any requirementof modification in fittings at site tocover all different types ofdisconnector switch supplied.	item54	4	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400kV and 220kV GIS at POWERGRID_ Greater Noida and Jalpura

Enquiry/NIT No: NIT No_75838_Enquiry No_61G2400135 Dated 31-07-2023

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
3.36	400KV GIS- SINGLE PHASE MAINTENANCE EARTHING SWITCH INCLUDING MAINCIRCUIT, ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC.,COMPLETE IN ALL RESPECT	item55	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.37	400KV GIS - SINGLE PHASE FAST EARTHING SWITCH INCLUDING MAIN CIRCUIT,ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC., COMPLETE INALL RESPECT	item56	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.38	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKINGCOILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONEOF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 400KV GIS DISCONNECTORSWITCH	item57	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.39	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKINGCOILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONEOF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 400KV GIS MAINTENANCE EARTH SWITCH	item58	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.4	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKINGCOILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONEOF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 400KV GIS FAST EARTHINGSWITCH	item59	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.41	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FORDISCONNECTOR-400KV GIS	item60	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.42	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FORMAINTENANCE EARTHING SWITCH-400KV GIS	item61	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.43	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR FASTEARTHING SWITCH (IF APPLICABLE)-400KV GIS	item62	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.44	DRIVE MECHANISM FOR 400KV GIS DISCONNECTOR SWITCH	item63	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.45	DRIVE MECHANISM FOR 400KV GIS MAINTENANCE EARTH SWITCH	item64	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.46	DRIVE MECHANISM FOR 400KV GIS FAST EARTHING SWITCH	item65	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.47	MOTOR FOR DRIVE MECHANISM FOR 400KV GIS DISCONNECTOR SWITCH	item66	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400kV and 220kV GIS at POWERGRID_ Greater Noida and Jalpura

Enquiry/NIT No: NIT No_75838_Enquiry No_61G2400135 Dated 31-07-2023

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
3.48	MOTOR FOR DRIVE MECHANISM FOR 400KVGIS MAINTENANCE EARTH SWITCH	item67	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.49	MOTOR FOR DRIVE MECHANISM FOR 400KV GIS FAST EARTHING SWITCH	item68	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.5	400KV GIS- SINGLE PHASE OF CURRENT TRANSFORMER (3 CORES, TYPE-CTA)WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALLRESPECT	item69	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.51	400KV GIS- SINGLE PHASE OF CURRENT TRANSFORMER (2 CORES, TYPE-CTB)WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALLRESPECT	item70	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.52	400KV GIS- SINGLE PHASE VT WITH ASSOCIATED ENCLOSURE COMPLETE IN ALLRESPECT	item71	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.01	220KV GIS- CABLE CONNECTION ENCLOSURE WITH MAIN CIRCUIT	item72	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.02	220KV GIS-SF6 GAS PRESSURE RELIEF DEVICE ASSEMBLY OF EACH TYPE	item73	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.03	SF6 PRESSURE GAUGE CUM SWITCH /DENSITY MONITORS AND PRESSURESWITCH AS APPLICABLE, OF EACH TYPE-220KV GIS	item74	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.04	COUPLING DEVICE FOR PRESSURE GAUGE CUM SWITCH FOR CONNECTINGGAS HANDLING PLANT OF EACH TYPE-220KV GIS	item75	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.05	RUBBER GASKETS, A,a,-A'OA,a,-A RINGS AND SEALS FOR SF6 GAS FOR GISENCLOSURE OF EACH TYPE-220KV GIS	item76	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.06	220KV GIS-MOLECULAR FILTER FOR SF6 GAS WITH FILTER BAGS (5 % OF TOTALWEIGHT)	item77	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.07	CONTROL VALVES FOR SF6 GAS OF EACH TYPE- 220KV GIS	item78	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.08	220KV GIS-SF6 GAS (5 % OF TOTAL GAS QUANTITY)	item79	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.09	LOCKING DEVICE TO KEEP THE DIS-CONNECTORS (ISOLATORS)AND EARTHING/FAST EARTHING SWITCHES (AS APPLICABLE) IN CLOSE OR OPENPOSITION IN CASE OF REMOVAL OF THE DRIVING MECHANISM-220KV GIS	item80	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.1	UHF PD SENSORS OF EACH TYPE ALONG WITH BNC CONNECTOR FOR 245KV GIS	item81	5	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400kV and 220kV GIS at POWERGRID_ Greater Noida and Jalpura

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
4.11	220KV GIS-SUPPORT INSULATORS (GAS THROUGH) OF EACH TYPE (COMPLETE WITH METAL RING ETC.) ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	item82	5	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.12	220KV GIS-GAS BARRIERS OF EACH TYPE (COMPLETE WITH METAL RING ETC.)ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	item83	5	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.13	220KV GIS- 1600A SF6 TO AIR BUSHING COMPLETE IN ALL RESPECT	item84	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.14	LCC SPARES - AUX. RELAYS, CONTACTORS,PUSH BUTTONS, SWITCHES, LAMPS,ANNUNCIATION WINDOWS, MCB, FUSES,TIMERS, TERMINAL BLOCKS ETC. OF EACHTYPE & RATING-220kV GIS	item85	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.15	220KV GIS-ONE POLE OF 1600A CIRCUIT BREAKER WITH INTERRUPTER, MAINCIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALL RESPECT	item86	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.16	220KV GIS-ONE POLE OF 2500A CIRCUIT BREAKER WITH INTERRUPTER, MAINCIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALL RESPECT	item87	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.17	220KV GIS-ONE POLE OF 3000A CIRCUIT BREAKER WITH INTERRUPTER, MAINCIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALL RESPECT	item88	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.18	Trip coil assembly with resistor for245kV GIS Circuit Breaker (asapplicable)	item89	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.19	Closing coil assembly with resistor for245kV GIS Circuit Breaker (asapplicable)	item90	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.2	RELAYS, POWER CONTACTORS, PUSH BUTTONS, TIMERS & MCBS ETC. (ASAPPLICABLE) OF EACH TYPE FOR 220KV GIS CIRCUIT BREAKER	item91	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.21	Auxiliary switch assembly of each type for 245kV GIS Circuit Breaker	item92	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.22	220KV GIS CIRCUIT BREAKER-OPERATION COUNTER	item93	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.23	220KV GIS CIRCUIT BREAKER-HYDRAULIC OPERATING MECHANISM WITH DRIVEMOTOR (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item94	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.24	HYDRAULIC FILTER OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-220KV GIS CIRCUIT BREKAER	item95	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.25	220KV GIS CIRCUIT BREAKER- HOSE PIPE OF EACH TYPE (AS APPLICABLE) (FORHYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item96	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.26	220KV GIS CIRCUIT BREAKER - N2 ACCUMULATOR (FOR HYDRAULIC OPERATEDMECHANISM, IF APPLICABLE)	item97	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400kV and 220kV GIS at POWERGRID_ Greater Noida and Jalpura

Enquiry/NIT No: NIT No_75838_Enquiry No_61G2400135 Dated 31-07-2023

Name of the Bidder/ Bidding Firm / Company :	
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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
4.27	VALVES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT BREKAER	item98	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.28	PIPE LENGTH (COPPER & STEEL) OF EACH SIZE & TYPE (FOR HYDRAULICOPERATED MECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT BREKAER	item99	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.29	PRESSURE SWITCHES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT BREKAER	item100	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.3	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULICOPERATED MECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT BREKAER	item101	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.31	220KV GIS CIRCUIT BREAKER-HYDRAULIC OIL (5% OF TOTAL OIL QUANTITY)(FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item102	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.32	PRESSURE RELIEF DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM,IF APPLICABLE)-220KV GIS CIRCUIT BREKAER	item103	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.33	220KV GIS CIRCUIT BREAKER-COMPLETE SPRING OPERATING MECHANISMINCLUDING CHARGING MECHANISM ETC. (FOR SPRING OPERATED MECHANISM, IF APPLICABLE)	item104	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.34	220KV GIS CIRCUIT BREAKER-COMPLETE HYDRAULIC-SPRING OPERATINGMECHANISM INCLUDING CHARGING MECHANISM ETC. (FOR HYDRAULIC-SPRINGOPERATED MECHANISM, IF APPLICABLE)	item105	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.35	PRESSURE SWITCHES OF EACH TYPE (FOR HYDRAULIC-SPRING OPERATEDMECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT BREAKER	item106	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.36	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULIC-SPRINGOPERATED MECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT BREKAER	item107	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.37	220kV GIS- Three phase of 1600Adisconnector switch including maincircuit, enclosure, driving mechanismand support insulator etc., complete inall respect	item108	4	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.38	220kV GIS- Three phase of 2500Adisconnector switch including maincircuit, enclosure, driving mechanismand support insulator etc., complete inall respect	item109	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.39	220kV GIS- Three phase of 3000Adisconnector switch including maincircuit, enclosure, driving mechanismand support insulator etc., complete inall respect	item110	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.4	220KV GIS- THREE PHASE MAINTENANCE EARTHING SWITCH INCLUDING MAINCIRCUIT, ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC.,COMPLETE IN ALL RESPECT	item111	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400kV and 220kV GIS at POWERGRID_ Greater Noida and Jalpura

Enquiry/NIT No: NIT No_75838_Enquiry No_61G2400135 Dated 31-07-2023

Name of the Bidder/ Bidding Firm / Company :

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
4.41	220KV GIS - THREE PHASE FAST EARTHING SWITCH INCLUDING MAIN CIRCUIT,ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC., COMPLETE INALL RESPECT	item112	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.42	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKINGCOILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONEOF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 220KV GIS DISCONNECTORSWITCH	item113	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.43	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKINGCOILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONEOF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 220KV GIS MAINTENANCE EARTH SWITCH	item114	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.44	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKINGCOILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONEOF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 220KV GIS FAST EARTHINGSWITCH	item115	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.45	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FORDISCONNECTOR-220KV GIS	item116	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.46	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FORMAINTENANCE EARTHING SWITCH-220KV GIS	item117	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.47	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR FASTEARTHING SWITCH (IF APPLICABLE)-220KV GIS	item118	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.48	DRIVE MECHANISM FOR 220KV GIS DISCONNECTOR SWITCH	item119	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.49	DRIVE MECHANISM FOR 220KV GIS MAINTENANCE EARTH SWITCH	item120	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.5	DRIVE MECHANISM FOR 220KV GIS FAST EARTHING SWITCH	item121	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.51	MOTOR FOR DRIVE MECHANISM FOR 220KV GIS DISCONNECTOR SWITCH	item122	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.52	MOTOR FOR DRIVE MECHANISM FOR 220KVGIS MAINTENANCE EARTH SWITCH	item123	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400KV and 220KV GIS at POWERGRID_ Greater Noida and Jalpura

Enquiry/NIT No: NIT No_75838_Enquiry No_61G2400135 Dated 31-07-2023

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
4.53	MOTOR FOR DRIVE MECHANISM FOR 220KV GIS FAST EARTHING SWITCH	item124	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.54	220KV GIS- SINGLE PHASE OF CURRENT TRANSFORMER (4 CORES) WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALL RESPECT	item125	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.55	220KV GIS- SINGLE PHASE VT WITH ASSOCIATED ENCLOSURE COMPLETE IN ALLRESPECT	item126	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.56	220KV GIS- SINGLE PHASE GAS INSULATED SURGE ARRESTER WITH ASSOCIATED ENCLOSURE AND INSULATOR COMPLETE IN ALL RESPECT	item127	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.57	220KV GIS- SURGE COUNTER/ MONITOR	item128	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.01	SERVICES- GIS : 400KV, SUPERVISION OF ERECTION OF GIS	item129	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.02	SERVICES- GIS : 400KV, SUPERVISION OF ERECTION OF GAS INSULATED BUS DUCT	item130	300	MTR	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.03	SERVICES- GIS : 400KV, SUPERVISION OF ERECTION OF SF6 TO AIR BUSHING	item131	15	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.04	SERVICES- GIS : 400KV, TESTING & COMMISSIONING OF GIS	item132	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.05	SERVICES- GIS : 400KV, FINAL SUCCESSFUL HV/ POWER FREQUENCY TESTING OF GIS INCLUDING ARRANGING OF HV TEST KIT ALONG WITH OPERATOR	item133	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.06	SERVICES- GIS : INSULATION CO-ORDINATION STUDIES FOR GIS SYSTEM	item134	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.01	SERVICES- GIS : 220KV, SUPERVISION OF ERECTION OF GIS	item135	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.02	SERVICES- GIS : 220KV, SUPERVISION OF ERECTION OF GAS INSULATED BUS DUCT	item136	280	MTR	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.03	SERVICES- GIS : 220KV, SUPERVISION OF ERECTION OF SF6 TO AIR BUSHING	item137	18	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.04	SERVICES- GIS : 220KV, TESTING & COMMISSIONING OF GIS	item138	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400KV and 220KV GIS at POWERGRID_ Greater Noida and Jalpura

Enquiry/NIT No: NIT No_75838_Enquiry No_61G2400135 Dated 31-07-2023

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6.05	SERVICES- GIS : 220KV, FINAL SUCCESSFUL HV/ POWER FREQUENCY TESTING OF GIS INCLUDING ARRANGING OF HV TEST KIT ALONG WITH OPERATOR	item139	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
7.01	SPARES- GIS : 400KV, SINGLE PHASE BUS BAR	item140	1	MTR	INR			0.00			0.00		0.000	0.000	INR Zero Only
7.02	SPARES- GIS : 400KV, GIS METALLIC ENCLOSURE	item141	50	KG	INR			0.00			0.00		0.000	0.000	INR Zero Only
7.03	SPARES- GIS : 400KV, EXPANSION BELLOWS/ JOINTS	item142	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
7.04	SPARES- GIS : 400KV, TEE BEND	item143	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
7.05	SPARES- GIS : 400KV, ANGLE BEND (135°)	item144	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
7.06	SPARES- GIS : 400KV, L-BEND	item145	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
7.07	SPARES- GIS : 220KV, SINGLE PHASE BUS BAR	item146	1	MTR	INR			0.00			0.00		0.000	0.000	INR Zero Only
7.08	SPARES- GIS : 220KV, GIS METALLIC ENCLOSURE	item147	50	KG	INR			0.00			0.00		0.000	0.000	INR Zero Only
7.09	SPARES- GIS : 220KV, EXPANSION BELLOWS/ JOINTS	item148	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
7.1	SPARES- GIS : 220KV, TEE BEND	item149	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
7.11	SPARES- GIS : 220KV, ANGLE BEND (135°)	item150	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
7.12	SPARES- GIS : 220KV, L-BEND	item151	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
8.01	SERVICES- GIS : REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR SUPERVISION OF ERECTION OF GIS	item152	10	MANDAY	INR			0.00			0.00		0.000	0.000	INR Zero Only
8.02	SERVICES- GIS : REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR TESTING & COMMISSIONING OF GIS	item153	10	MANDAY	INR			0.00			0.00		0.000	0.000	INR Zero Only
8.03	SERVICES- GIS : 400KV, REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - HIRING CHARGES OF HV TEST KIT WITH OPERATOR	item154	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400kV and 220kV GIS at POWERGRID_ Greater Noida and Jalpura

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8.04	SERVICES- GIS : 220KV, REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - HIRING CHARGES OF HV TEST KIT WITH OPERATOR	item155	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
9.01	420kV, 4000 A, 63 kA, SF6 GIS Bus barmodule as per Section-Project,Technical specification	item156	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
9.02	420 kV, 3150 A, 63 kA, SF6 GIS Linefeeder bay module(without PIR) as perSection-Project, Technicalspecification	item157	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
9.03	420kV, 3150 A, 63 kA, SF6 GIS BusReactor bay module as perSection-Project, Technicalspecification	item158	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
9.04	420kV, 3150 A, 63 kA, SF6 GIS ICT feederbay module as per Section-Project,Technical specification	item159	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
9.05	420KV, 3150A, 63KA SF6 GIS BUS COUPLER BAY MODULE AS PER SECTION- PROJECT, TECHNICAL SPECIFICATION	item160	1	EACH	INR			0.00			0.00		0.000	0.000	INR Zero Only
9.06	3150A, 63KA, 1SEC SINGLE PHASE 420KV SF6 TO AIR BUSHING	item161	15	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
9.07	Controlled Switching Device for 420 kV, 3-ph Circuit Breaker	item162	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
9.08	420kV, 3000A, 63kA, Single phase, SF6Gas Insulated Bus Duct (GIB) outsideGIS Hall alongwith associated supportstructure	item163	300	M	INR			0.00			0.00		0.000	0.000	INR Zero Only
9.09	Portable Partial Discharge measurement test kitwith all necessary accessories,Industrial Grade Laptop and licensedsoftware as per Technicalspecification.	item164	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
9.1	SF6 Gas processing Unit for 400kV GIS station	item165	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
9.11	SF6 Gas processing Unit for 220kV GIS Station	item166	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
9.12	SF6 Gas Leakage Detector	item167	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
9.13	SF6 GAS ANALYZER	item168	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
10.01	245KV, 1600A, 40KA SINGLE PHASE SF6 TO AIR BUSHING	item169	18	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400kV and 220kV GIS at POWERGRID_ Greater Noida and Jalpura

Enquiry/NIT No: NIT No_75838_Enquiry No_61G2400135 Dated 31-07-2023

Name of the Bidder/ Bidding Firm / Company :

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
10.02	245kV,1600A, 40kA,Single phase, SF6 Gas Insulated Bus Duct(GIB) outside GIS Hall alongwith associated support structure	item170	280	M	INR			0.00			0.00		0.000	0.000	INR Zero Only
10.03	245kV, 3000 A, 40 kA, SF6 GIS Buscoupler bay module as perSection-Project, Technicalspecification	item171	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
10.04	245kV, 1600 A, 40 kA, SF6 GIS ICT feederbay module as per Section-Project,Technical specification	item172	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
10.05	245kV, 1600 A, 40 kA, SF6 GIS Linefeeder bay module as perSection-Project, Technicalspecification	item173	4	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
10.06	245 kV, 3000A, 40kA, SF6 GIS Bus barmodule as per Section-Project,Technical specification	item174	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.01	400KV GIS-SF6 GAS PRESSURE RELIEF DEVICE ASSEMBLY OF EACH TYPE	item175	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.02	SF6 PRESSURE GAUGE CUM SWITCH /DENSITY MONITORS AND PRESSURESWITCH AS APPLICABLE, OF EACH TYPE-400KV GIS	item176	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.03	COUPLING DEVICE FOR PRESSURE GAUGE CUM SWITCH FOR CONNECTINGGAS HANDLING PLANT OF EACH TYPE-400KV GIS	item177	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.04	RUBBER GASKETS, A,a,-A'OÄ,a,-Ä RINGS AND SEALS FOR SF6 GAS FOR GISENCLOSURE OF EACH TYPE-400KV GIS	item178	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.05	400KV GIS-MOLECULAR FILTER FOR SF6 GAS WITH FILTER BAGS (5 % OF TOTALWEIGHT)	item179	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.06	CONTROL VALVES FOR SF6 GAS OF EACH TYPE-400KV GIS	item180	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.07	400KV GIS-SF6 GAS (5 % OF TOTAL GAS QUANTITY)	item181	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.08	LOCKING DEVICE TO KEEP THE DIS-CONNECTORS (ISOLATORS)AND EARTHING/FAST EARTHING SWITCHES IN CLOSE OR OPEN POSITION IN CASEOF REMOVAL OF THE DRIVING MECHANISM-400KV GIS	item182	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.09	UHF PD SENSORS OF EACH TYPE ALONG WITH BNC CONNECTOR FOR 420KV GIS	item183	5	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400kV and 220kV GIS at POWERGRID_ Greater Noida and Jalpura

Enquiry/NIT No: NIT No_75838_Enquiry No_61G2400135 Dated 31-07-2023

Name of the Bidder/ Bidding Firm / Company :	
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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
11.1	400KV GIS-SUPPORT INSULATORS (GAS THROUGH) OF EACH TYPE (COMPLETE WITHMETAL RING ETC.) ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	item184	5	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.11	400KV GIS-GAS BARRIERS OF EACH TYPE (COMPLETE WITH METAL RING ETC.)ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	item185	5	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.12	400KV GIS- 3150A SF6 TO AIR BUSHING COMPLETE IN ALL RESPECT	item186	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.13	LCC SPARES - AUX. RELAYS, CONTACTORS,PUSH BUTTONS, SWITCHES,LAMPS,ANNUNCIATION WINDOWS, MCB, FUSES,TIMERS, TERMINAL BLOCKS ETC. OF EACHTYPE & RATING-400kV GIS	item187	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.14	400KV GIS-ONE POLE OF 3150A CIRCUIT BREAKER WITHOUT PIR WITHINTERRUPTER, MAIN CIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETEIN ALL RESPECT	item188	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.15	400KV GIS-ONE POLE OF 3150A CIRCUIT BREAKER WITH PIR WITH INTERRUPTER,MAIN CIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALLRESPECT	item189	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.16	Trip coil assembly with resistor for420kV GIS Circuit Breaker (asapplicable)	item190	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.17	Closing coil assembly with resistor for420kV GIS Circuit Breaker (asapplicable)	item191	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.18	RELAYS, POWER CONTACTORS, PUSH BUTTONS, TIMERS & MCBS ETC. (ASAPPLICABLE) OF EACH TYPE FOR 400KV GIS CIRCUIT BREAKER	item192	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.19	Auxiliary switch assembly of each type for 420kV GIS Circuit Breaker	item193	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.2	400KV GIS CIRCUIT BREAKER-OPERATION COUNTER	item194	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.21	400KV GIS CIRCUIT BREAKER-HYDRAULIC OPERATING MECHANISM WITH DRIVEMOTOR (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item195	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.22	HYDRAULIC FILTER OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFPPPLICABLE)-400KV GIS CIRCUIT BREKAER	item196	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400kV and 220kV GIS at POWERGRID_ Greater Noida and Jalpura

Enquiry/NIT No: NIT No_75838_Enquiry No_61G2400135 Dated 31-07-2023

Name of the Bidder/ Bidding Firm / Company :															
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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
11.23	400KV GIS CIRCUIT BREAKER- HOSE PIPE OF EACH TYPE (AS APPLICABLE) (FORHYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item197	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.24	400KV GIS CIRCUIT BREAKER - N2 ACCUMULATOR (FOR HYDRAULIC OPERATEDMECHANISM, IF APPLICABLE)	item198	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.25	VALVES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-400KV GIS CIRCUIT BREKAER	item199	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.26	PIPE LENGTH (COPPER & STEEL) OF EACH SIZE & TYPE (FOR HYDRAULICOPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	item200	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.27	PRESSURE SWITCHES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-400KV GIS CIRCUIT BREKAER	item201	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.28	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULICOPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	item202	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.29	400KV GIS CIRCUIT BREAKER-HYDRAULIC OIL (5% OF TOTAL OIL QUANTITY)(FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item203	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.3	PRESSURE RELIEF DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM,IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	item204	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.31	400KV GIS CIRCUIT BREAKER-COMPLETE SPRING OPERATING MECHANISMINCLUDING CHARGING MECHANISM ETC. (FOR SPRING OPERATED MECHANISM, IFAPPLICABLE)	item205	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.32	400KV GIS CIRCUIT BREAKER- COMPLETE HYDRAULIC-SPRING OPERATINGMECHANISM INCLUDING CHARGING MECHANISM ETC. (FOR HYDRAULIC-SPRINGOPERATED MECHANISM, IF APPLICABLE)	item206	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.33	PRESSURE SWITCHES OF EACH TYPE FOR420KV GIS CIRCUIT BREAKER (ForHydraulic-Spring Operated Mechanism, ifapplicable)	item207	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.34	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULIC-SPRINGOPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	item208	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.35	400kV GIS- Single phase of 3150A disconnecter switch including maincircuit, enclosure, driving mechanismand support insulator etc., complete inall respect	item209	4	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.36	400KV GIS- SINGLE PHASE MAINTENANCE EARTHING SWITCH INCLUDING MAINCIRCUIT, ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC.,COMPLETE IN ALL RESPECT	item210	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400kV and 220kV GIS at POWERGRID_ Greater Noida and Jalpura

Enquiry/NIT No: NIT No_75838_Enquiry No_61G2400135 Dated 31-07-2023

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
11.37	400KV GIS - SINGLE PHASE FAST EARTHING SWITCH INCLUDING MAIN CIRCUIT,ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC., COMPLETE INALL RESPECT	item211	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.38	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKINGCOILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONEOF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 400KV GIS DISCONNECTORSWITCH	item212	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.39	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKINGCOILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONEOF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 400KV GIS MAINTENANCE EARTH SWITCH	item213	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.4	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKINGCOILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONEOF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 400KV GIS FAST EARTHINGSWITCH	item214	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.41	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FORDISCONNECTOR-400KV GIS	item215	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.42	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FORMAINTENANCE EARTHING SWITCH-400KV GIS	item216	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.43	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR FASTEARTHING SWITCH (IF APPLICABLE)-400KV GIS	item217	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.44	DRIVE MECHANISM FOR 400KV GIS DISCONNECTOR SWITCH	item218	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.45	DRIVE MECHANISM FOR 400KV GIS MAINTENANCE EARTH SWITCH	item219	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.46	DRIVE MECHANISM FOR 400KV GIS FAST EARTHING SWITCH	item220	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.47	MOTOR FOR DRIVE MECHANISM FOR 400KV GIS DISCONNECTOR SWITCH	item221	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.48	MOTOR FOR DRIVE MECHANISM FOR 400KVGIS MAINTENANCE EARTH SWITCH	item222	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400KV and 220KV GIS at POWERGRID_ Greater Noida and Jalpura

Enquiry/NIT No: NIT No_75838_Enquiry No_61G2400135 Dated 31-07-2023

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
11.49	MOTOR FOR DRIVE MECHANISM FOR 400KV GIS FAST EARTHING SWITCH	item223	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.5	400KV GIS- SINGLE PHASE OF CURRENT TRANSFORMER (3 CORES, TYPE-CTA)WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALLRESPECT	item224	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.51	400KV GIS- SINGLE PHASE OF CURRENT TRANSFORMER (2 CORES, TYPE-CTB)WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALLRESPECT	item225	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
11.52	400KV GIS- SINGLE PHASE VT WITH ASSOCIATED ENCLOSURE COMPLETE IN ALLRESPECT	item226	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.01	220KV GIS- CABLE CONNECTION ENCLOSURE WITH MAIN CIRCUIT	item227	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.02	220KV GIS-SF6 GAS PRESSURE RELIEF DEVICE ASSEMBLY OF EACH TYPE	item228	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.03	SF6 PRESSURE GAUGE CUM SWITCH /DENSITY MONITORS AND PRESSURESWITCH AS APPLICABLE, OF EACH TYPE-220KV GIS	item229	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.04	COUPLING DEVICE FOR PRESSURE GAUGE CUM SWITCH FOR CONNECTINGGAS HANDLING PLANT OF EACH TYPE-220KV GIS	item230	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.05	RUBBER GASKETS, A,a,-A'OA,a,-A RINGS AND SEALS FOR SF6 GAS FOR GISENCLOSURE OF EACH TYPE-220KV GIS	item231	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.06	220KV GIS-MOLECULAR FILTER FOR SF6 GAS WITH FILTER BAGS (5 % OF TOTALWEIGHT)	item232	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.07	CONTROL VALVES FOR SF6 GAS OF EACH TYPE-220KV GIS	item233	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.08	220KV GIS-SF6 GAS (5 % OF TOTAL GAS QUANTITY)	item234	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.09	LOCKING DEVICE TO KEEP THE DIS-CONNECTORS (ISOLATORS)AND EARTHING/FAST EARTHING SWITCHES (AS APPLICABLE) IN CLOSE OR OPENPOSITION IN CASE OF REMOVAL OF THE DRIVING MECHANISM-220KV GIS	item235	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.1	UHF PD SENSORS OF EACH TYPE ALONG WITH BNC CONNECTOR FOR 245KV GIS	item236	5	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.11	220KV GIS-SUPPORT INSULATORS (GAS THROUGH) OF EACH TYPE (COMPLETE WITHMETAL RING ETC.) ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	item237	5	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.12	220KV GIS-GAS BARRIERS OF EACH TYPE (COMPLETE WITH METAL RING ETC.)ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	item238	5	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400kV and 220kV GIS at POWERGRID_ Greater Noida and Jalpura

Enquiry/NIT No: NIT No_75838_Enquiry No_61G2400135 Dated 31-07-2023

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
12.13	220KV GIS- 1600A SF6 TO AIR BUSHING COMPLETE IN ALL RESPECT	item239	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.14	LCC SPARES - AUX. RELAYS, CONTACTORS,PUSH BUTTONS, SWITCHES, LAMPS,ANNUNCIATION WINDOWS, MCB, FUSES,TIMERS, TERMINAL BLOCKS ETC. OF EACHTYPE & RATING-220kV GIS	item240	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.15	220KV GIS-ONE POLE OF 1600A CIRCUIT BREAKER WITH INTERRUPTER, MAINCIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALL RESPECT	item241	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.16	220KV GIS-ONE POLE OF 2500A CIRCUIT BREAKER WITH INTERRUPTER, MAINCIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALL RESPECT	item242	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.17	220KV GIS-ONE POLE OF 3000A CIRCUIT BREAKER WITH INTERRUPTER, MAINCIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALL RESPECT	item243	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.18	Trip coil assembly with resistor for245kV GIS Circuit Breaker (asapplicable)	item244	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.19	Closing coil assembly with resistor for245kV GIS Circuit Breaker (asapplicable)	item245	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.2	RELAYS, POWER CONTACTORS, PUSH BUTTONS, TIMERS & MCBS ETC. (ASAPPLICABLE) OF EACH TYPE FOR 220KV GIS CIRCUIT BREAKER	item246	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.21	Auxiliary switch assembly of each type for 245kV GIS Circuit Breaker	item247	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.22	220KV GIS CIRCUIT BREAKER-OPERATION COUNTER	item248	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.23	220KV GIS CIRCUIT BREAKER-HYDRAULIC OPERATING MECHANISM WITH DRIVEMOTOR (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item249	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.24	HYDRAULIC FILTER OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-220KV GIS CIRCUIT BREKAER	item250	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.25	220KV GIS CIRCUIT BREAKER- HOSE PIPE OF EACH TYPE (AS APPLICABLE) (FORHYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item251	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.26	220KV GIS CIRCUIT BREAKER - N2 ACCUMULATOR (FOR HYDRAULIC OPERATEDMECHANISM, IF APPLICABLE)	item252	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.27	VALVES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-220KV GIS CIRCUIT BREKAER	item253	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400kV and 220kV GIS at POWERGRID_ Greater Noida and Jalpura

Enquiry/NIT No: NIT No_75838_Enquiry No_61G2400135 Dated 31-07-2023

Name of the Bidder/ Bidding Firm / Company :	
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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
12.28	PIPE LENGTH (COPPER & STEEL) OF EACH SIZE & TYPE (FOR HYDRAULICOPERATED MECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT BREKAER	item254	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.29	PRESSURE SWITCHES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-220KV GIS CIRCUIT BREKAER	item255	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.3	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULICOPERATED MECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT BREKAER	item256	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.31	220KV GIS CIRCUIT BREAKER-HYDRAULIC OIL (5% OF TOTAL OIL QUANTITY)(FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item257	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.32	PRESSURE RELIEF DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM,IF APPLICABLE)-220KV GIS CIRCUIT BREKAER	item258	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.33	220KV GIS CIRCUIT BREAKER-COMPLETE SPRING OPERATING MECHANISMINCLUDING CHARGING MECHANISM ETC. (FOR SPRING OPERATED MECHANISM, IFAPPLICABLE)	item259	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.34	220KV GIS CIRCUIT BREAKER- COMPLETE HYDRAULIC-SPRING OPERATINGMECHANISM INCLUDING CHARGING MECHANISM ETC. (FOR HYDRAULIC-SPRINGOPERATED MECHANISM, IF APPLICABLE)	item260	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.35	PRESSURE SWITCHES OF EACH TYPE (FOR HYDRAULIC-SPRING OPERATEDMECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT BREAKER	item261	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.36	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULIC-SPRINGOPERATED MECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT BREKAER	item262	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.37	220kV GIS- Three phase of 1600Adisconnecter switch including maicircuit, enclosure, driving mechanismand support insulator etc., complete inall respect	item263	4	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.38	220kV GIS- Three phase of 2500Adisconnecter switch including maicircuit, enclosure, driving mechanismand support insulator etc., complete inall respect	item264	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.39	220kV GIS- Three phase of 3000Adisconnecter switch including maicircuit, enclosure, driving mechanismand support insulator etc., complete inall respect	item265	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.4	220KV GIS- THREE PHASE MAINTENANCE EARTHING SWITCH INCLUDING MAINCIRCUIT, ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC.,COMPLETE IN ALL RESPECT	item266	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400kV and 220kV GIS at POWERGRID_ Greater Noida and Jalpura

Enquiry/NIT No: NIT No_75838_Enquiry No_61G2400135 Dated 31-07-2023

Name of the Bidder/ Bidding Firm / Company :	
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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
12.41	220KV GIS - THREE PHASE FAST EARTHING SWITCH INCLUDING MAIN CIRCUIT,ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC., COMPLETE INALL RESPECT	item267	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.42	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKINGCOILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONEOF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 220KV GIS DISCONNECTORSWITCH	item268	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.43	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKINGCOILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONEOF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 220KV GIS MAINTENANCE EARTHISWITCH	item269	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.44	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKINGCOILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONEOF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 220KV GIS FAST EARTHINGSWITCH	item270	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.45	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FORDISCONNECTOR-220KV GIS	item271	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.46	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FORMAINTENANCE EARTHING SWITCH-220KV GIS	item272	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.47	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR FASTEARTHING SWITCH (IF APPLICABLE)-220KV GIS	item273	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.48	DRIVE MECHANISM FOR 220KV GIS DISCONNECTOR SWITCH	item274	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.49	DRIVE MECHANISM FOR 220KV GIS MAINTENANCE EARTH SWITCH	item275	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.5	DRIVE MECHANISM FOR 220KV GIS FAST EARTHING SWITCH	item276	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.51	MOTOR FOR DRIVE MECHANISM FOR 220KV GIS DISCONNECTOR SWITCH	item277	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.52	MOTOR FOR DRIVE MECHANISM FOR 220KVGIS MAINTENANCE EARTH SWITCH	item278	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400kV and 220kV GIS at POWERGRID_ Greater Noida and Jalpura

Enquiry/NIT No: NIT No_75838_Enquiry No_61G2400135 Dated 31-07-2023

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
12.53	MOTOR FOR DRIVE MECHANISM FOR 220KV GIS FAST EARTHING SWITCH	item279	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.54	220KV GIS- SINGLE PHASE OF CURRENT TRANSFORMER (4 CORES) WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALL RESPECT	item280	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.55	220KV GIS- SINGLE PHASE VT WITH ASSOCIATED ENCLOSURE COMPLETE IN ALL RESPECT	item281	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.56	220KV GIS- SINGLE PHASE GAS INSULATED SURGE ARRESTER WITH ASSOCIATED ENCLOSURE AND INSULATOR COMPLETE IN ALL RESPECT	item282	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
12.57	220KV GIS- SURGE COUNTER/ MONITOR	item283	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
13.01	SERVICES- GIS : 400KV, SUPERVISION OF ERECTION OF GIS	item284	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
13.02	SERVICES- GIS : 400KV, SUPERVISION OF ERECTION OF GAS INSULATED BUS DUCT	item285	300	MTR	INR			0.00			0.00		0.000	0.000	INR Zero Only
13.03	SERVICES- GIS : 400KV, SUPERVISION OF ERECTION OF SF6 TO AIR BUSHING	item286	15	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
13.04	SERVICES- GIS : 400KV, TESTING & COMMISSIONING OF GIS	item287	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
13.05	SERVICES- GIS : 400KV, FINAL SUCCESSFUL HV/ POWER FREQUENCY TESTING OF GIS INCLUDING ARRANGING OF HV TEST KIT ALONG WITH OPERATOR	item288	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
13.06	SERVICES- GIS : INSULATION CO-ORDINATION STUDIES FOR GIS SYSTEM	item289	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
14.01	SERVICES- GIS : 220KV, SUPERVISION OF ERECTION OF GIS	item290	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
14.02	SERVICES- GIS : 220KV, SUPERVISION OF ERECTION OF GAS INSULATED BUS DUCT	item291	280	MTR	INR			0.00			0.00		0.000	0.000	INR Zero Only
14.03	SERVICES- GIS : 220KV, SUPERVISION OF ERECTION OF SF6 TO AIR BUSHING	item292	18	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
14.04	SERVICES- GIS : 220KV, TESTING & COMMISSIONING OF GIS	item293	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400kV and 220kV GIS at POWERGRID_ Greater Noida and Jalpura

Enquiry/NIT No: NIT No_75838_Enquiry No_61G2400135 Dated 31-07-2023

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14.05	SERVICES- GIS : 220KV, FINAL SUCCESSFUL HV/ POWER FREQUENCY TESTING OF GIS INCLUDING ARRANGING OF HV TEST KIT ALONG WITH OPERATOR	item294	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
Total in Figures													0.000	0.000	Zero Only
otd Rate in Words		INR Zero Only													

On Bidder's Letterhead

TO WHOMSOEVER IT MAY CONCERN

This is to certify that we, M/s*Name of GIS OEM* has facilities for Manufacture of Gas Insulated Switchgears at*Address of GIS OEM Manufacturing facility* We have verified all Equipment available at above location and the availability of Technical force. Based on such verification, we hereby certify that annual production standalone capacity to manufacture the following products by us is as given below:

S. No.	Item Description	No. of GIS Bays (Annual Capacity)
1	72.5 kV Gas Insulated Switchgear (GIS)	
2.	132 kV Gas Insulated Switchgear (GIS)	
3.	220 kV Gas Insulated Switchgear (GIS)	
4.	400 kV Gas Insulated Switchgear (GIS)	
5.	765 kV Gas Insulated Switchgear (GIS)	

Total Annual Cumulative Capacity = Nos.

In the capacity of*[insert: title of position or other appropriate designation]*

Date:.....

Place:.....

(Signature):

(Printed Name):

(Designation):

(Common Seal):