



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Transmission Business Group

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

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CORRIGENDUM – 16 TO NIT NO-95717

Dated 27-01-2026

Subject: Corrigendum-16 to Tender enquiry for Pre-Bid Tie up for Supply & Services of 400KV & 220KV GIS for POWERGRID's Substation Package SS-141T (Kaying).

Project : POWERGRID's Substation Package SS-141T (Kaying)
Equipment / Item : Supply & Services of 400kV & 220kV GIS and Its associated equipment
Enquiry No/Date : Enquiry No. 61Q2600369 Dated 17-11-2025
BHEL NIT NO : 95717
Original Tender due date : 27-11-2025

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

a) Technical corrigendum-02 (enclosed) for revision of-
a.1) Technical PQR for 400kV GIS and 220kV GIS and
a.2) BOQ of 400kV and 220kV GIS. Based on rating wise revised BOQ, Price bid format is also revised.
Bidder(s) shall follow the same while submitting their bid.

b) Clarification issued by Powergrid as below along with following clarification from BHEL's end-

"In case of package comprises of multiple voltage level in one GIS substation and/or Extension of more than one GIS Substation(s), GIS from different manufacturer(s) shall also be acceptable subject to the condition that one voltage class of GIS at any substation is supplied from one manufacturer only. In such cases bidder must submit MAF from all the proposed GIS Manufacturer(s) in their bid."

As our tender calls for rating wise evaluation, accordingly, GIS OEM to submit rating wise (voltage class of GIS) MAF to BHEL for onward submission to Powergrid.

c) Extension of due date upto 30-01-2026.

All other terms and conditions of NIT shall remain same.

Bidder to ensure submission of offer on or before due date.

Note: Tender ID on CPP Portal is **2025_BHEL_54943_1**.

Thanking you

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

Gaurav Agarwal
BHEL TBG, NOIDA

TECHNICAL CORRIGENDUM - 2 (KAYLING GIS) 24.01.2026

SL	DESCRIPTION	REMARKS
1	PQR - REVISED AS	<p>THE CLAUSE IS REVISED AS FOLLOWS</p> <p>ANNEXURE A (BDS), 400KV GIS Rev-01 ANNEXURE A (BDS), 220KV GIS Rev-01</p>
2	BID PRICE SCHEDULE REVISED AS	<p>ANNEXURE_400KV_GIS_BOQ_KAYLING, REV.2 24.01.2026 ANNEXURE_220KV_GIS_BOQ_KAYLING, REV.2 24.01.2026</p>
3	SPECIAL NOTE	<p>ALL TECHNICAL CLARIFICATION(S) FOR GIS PUBLISHED BY M/S POWERGRID WITH REFERENCE TO SUBJECT PROJECT WILL ALSO VALID FOR THIS TECHNICAL SPECIFICATION</p>

For
27/01

M. R. K. S.
27.01.26.

Sl. No.	Item Description	Unit		Remarks
1.00	SUPPLY- GIS : 220KV, 40KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
1.01	245 KV, 3500A, 50KA, SF6 GIS BUS BARMODULE AS PER SECTION-PROJECT, TECHNICAL SPECIFICATION	SET	2	
1.02	245KV, 2000 A, 50 KA, SF6 GIS ICT FEEDERBAY MODULE AS PER SECTION-PROJECT, TECHNICAL SPECIFICATION	SET	2	
1.03	245KV, 2000 A, 50 KA, SF6 GIS LINE FEEDER BAY MODULE AS PERSECTION-PROJECT, TECHNICALSPECIFICATION	SET	2	
1.04	245KV, 3500 A, 50 KA, SF6 GIS BUSCOUPLER BAY MODULE AS PERSECTION-PROJECT, TECHNICALSPECIFICATION	SET	1	
1.05	245KV, 2000A, 50KA, 3 SINGLE PHASE/ 3PHASE, SF6 GAS INSULATED BUS DUCT (GIB) OUTSIDE GIS HALL ALONG WITH ASSOCIATED SUPPORT STRUCTURE (QUANTITY MENTIONEDHERE IS FOR 3 PHASE TYPE)	M	350	
1.06	245KV, 2000A, 50KA SINGLE PHASE SF6 TO AIR BUSHING	EA	12	
2.00	SUPPLY- GIS: SPECIAL TOOLS AND TESTING & MAINTENANCE INSTRUMENTS AS PER TS (220kV)			INDIVIDUAL QUANTITY IS SUBJECT TO CHANGE DURING THE CONTRACT STAGE AND MAY EVEN BE DELETED
2.01	PORTABLE PARTIAL DISCHARGE MEASUREMENT TEST KITWITH ALL NECESSARY ACCESSORIES, INDUSTRIAL GRADE LAPTOP AND LICENSEDSOFTWARE AS PER TECHNICALSPECIFICATION.	EA	1	



 27/01
 1 OF 1
 27.01.26

SI. No.	Item Description	Unit		Remarks
2.02	SF6 GAS ANALYZER	EA	1	
2.03	SF6 GAS LEAKAGE DETECTOR	EA	1	
2.04	SCISSOR LIFT	EA	1	
2.05	DEW POINT METER	SET	1	

SI. No.	Item Description	Unit		Remarks
3.00	SPARES- GIS : 220KV, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
3.01	220KV GIS-SF6 GAS PRESSURE RELIEF DEVICE ASSEMBLY OF EACH TYPE	Set	2	1 Set = 1 number of each type, make & rating
3.02	SF6 PRESSURE GAUGE CUM SWITCH /DENSITY MONITORS AND PRESSURESWITCH AS APPLICABLE, OF EACH TYPE-220KV GIS	SET	3	
3.03	COUPLING DEVICE FOR PRESSURE GAUGE CUM SWITCH FOR CONNECTING GAS HANDLING PLANT OF EACH TYPE-220KV GIS	SET	2	
3.04	RUBBER GASKETS, O-RINGS AND SEALS FOR SF6 GAS FOR GISENCLOSURE OF EACH TYPE-220KV GIS	SET	3	
3.05	220KV GIS-MOLECULAR FILTER FOR SF6 GAS WITH FILTER BAGS (5 % OF TOTALWEIGHT)	SET	1	
3.06	CONTROL VALVES FOR SF6 GAS OF EACH TYPE-220KV GIS	SET	3	

SI. No.	Item Description	Unit		Remarks
3.07	220KV 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 (AS APPLICABLE) IN CLOSE OR OPENPOSITION IN CASE OF REMOVAL OF THE DRIVING MECHANISM-220KV GIS	SET	3	
3.09	UHF PD SENSORS OF EACH TYPE ALONG WITH BNC CONNECTOR FOR 245KV GIS	Set	5	1 Set = 1 number of each type, make & rating
3.10	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 type, make & rating
3.11	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 type, make & rating
3.12	220KV GIS- 2000 A SF6 TO AIR BUSHING COMPLETE IN ALL RESPECT	Set	1	1 Set = 1 number of each type, make & rating
3.13	LCC SPARES - AUX. RELAYS, CONTACTORS,PUSH BUTTONS, SWITCHES, LAMPS,ANNUNCIATION WINDOWS, MCB, FUSES,TIMERS, TERMINAL BLOCKS ETC. OF EACHTYPE & RATING-220kV GIS	SET	2	
3.14	220KV GIS-ONE POLE OF 2000 A CIRCUIT BREAKER WITH INTERRUPTER, MAINCIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALL RESPECT	SET	1	

SI. No.	Item Description	Unit		Remarks
3.15	220KV GIS-ONE POLE OF 3500A CIRCUIT BREAKER WITH INTERRUPTER, MAINCIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALL RESPECT	SET	1	
3.16	Trip coil assembly with resistor for 245kV GIS Circuit Breaker (as applicable)	SET	3	
3.17	Closing coil assembly with resistor for 245kV GIS Circuit Breaker (as applicable)	SET	3	
3.18	RELAYS, POWER CONTACTORS, PUSH BUTTONS, TIMERS & MCBS ETC. (AS APPLICABLE) OF EACH TYPE FOR 220KV GIS CIRCUIT BREAKER	SET	1	
3.19	Auxiliary switch assembly of each type for 245kV GIS Circuit Breaker	SET	3	
3.20	220KV GIS CIRCUIT BREAKER-OPERATION COUNTER	Set	3	1 Set = 1 number of each type, make & rating
3.21	220KV GIS CIRCUIT BREAKER-HYDRAULIC OPERATING MECHANISM WITH DRIVEMOTOR (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.22	HYDRAULIC FILTER OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE) 220KV GIS CIRCUIT BREAKER	SET	1	

SI. No.	Item Description	Unit		Remarks
3.23	220KV GIS CIRCUIT BREAKER- HOSE PIPE OF EACH TYPE (AS APPLICABLE) (FORHYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.24	220KV GIS CIRCUIT BREAKER - N2 ACCUMULATOR (FOR HYDRAULIC OPERATEDMECHANISM, IF APPLICABLE)	SET	1	
3.25	VALVES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-220KV GIS CIRCUIT BREKAER	SET	1	
3.26	PIPE LENGTH (COPPER & STEEL) OF EACH SIZE & TYPE (FOR HYDRAULICOPERATED MECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT BREKAER	SET	1	
3.27	PRESSURE SWITCHES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-220KV GIS CIRCUIT BREKAER	SET	1	
3.28	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULICOPERATED MECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT BREKAER	SET	1	
3.29	220KV GIS CIRCUIT BREAKER-HYDRAULIC OIL (5% OF TOTAL OIL QUANTITY)(FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.30	PRESSURE RELIEF DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM,IF APPLICABLE)-220KV GIS CIRCUIT BREKAER	SET	1	

SI. No.	Item Description	Unit		Remarks
3.31	220KV GIS CIRCUIT BREAKER-COMplete SPRING OPERATING MECHANISM INCLUDING CHARGING MECHANISM ETC. (FOR SPRING OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.32	220KV 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 HYDRAULIC-SPRING OPERATED MECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT BREAKER	SET	1	
3.34	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULIC-SPRING OPERATED MECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT BREAKER	SET	1	
3.35	220kV GIS- Three phase of 2000A disconnecter switch including main circuit, enclosure, driving mechanism and support insulator etc., complete in all respect	Set	4	Each type, make & 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 of spare Dis-connector only.)
3.36	220kV GIS- Three phase of 3500A disconnecter switch including main circuit, enclosure, driving mechanism and support insulator etc., complete in all respect	Set	2	Each type, make & 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-connector 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 of spare Dis-connector only.)

SI. No.	Item Description	Unit		Remarks
3.37	220KV GIS- THREE PHASE MAINTENANCE EARTHING SWITCH INCLUDING MAINCIRCUIT, ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC.,COMPLETE IN ALL RESPECT	Set	1	1 Set = 1 number of each type, make & 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.)
3.38	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 type, make & 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.)
3.39	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 220KV GIS DISCONNECTORSWITCH	SET	1	
3.40	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	

SI. No.	Item Description	Unit		Remarks
3.41	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 EARTHINGSWITCH	SET	1	
3.42	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR DISCONNECTOR-220KV GIS	SET	2	
3.43	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR MAINTENANCE EARTHING SWITCH-220KV GIS	SET	2	
3.44	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR FAST EARTHING SWITCH (IF APPLICABLE)-220KV GIS	SET	2	
3.45	DRIVE MECHANISM FOR 220KV GIS DISCONNECTOR SWITCH	SET	1	
3.46	DRIVE MECHANISM FOR 220KV GIS MAINTENANCE EARTH SWITCH	SET	1	
3.47	DRIVE MECHANISM FOR 220KV GIS FAST EARTHING SWITCH	SET	1	

SI. No.	Item Description	Unit		Remarks
3.48	MOTOR FOR DRIVE MECHANISM FOR 220KV GIS DISCONNECTOR SWITCH	Set	1	1 Set = 1 number of each type, make & rating
3.49	MOTOR FOR DRIVE MECHANISM FOR 220KVGIS MAINTENANCE EARTH SWITCH	Set	1	1 Set = 1 number of each type, make & rating
3.50	MOTOR FOR DRIVE MECHANISM FOR 220KV GIS FAST EARTHING SWITCH	Set	1	1 Set = 1 number of each type, make & rating
3.51	220KV GIS- SINGLE PHASE VT WITH ASSOCIATED ENCLOSURE COMPLETE IN ALLRESPECT	Set	1	1 Set = 1 number of each type, make & rating
3.52	220KV GIS- 01 NO. (EACH TYPE) OF 3500A SINGLE PHASE OF CURRENT TRANSFORMER (5 CORES) WITHASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALL RESPECT	Set	1	1 Set = 1 number of each type, make & rating
3.53	220KV GIS- 01 NO. (EACH TYPE) OF 2000A SINGLE PHASE OF CURRENT TRANSFORMER (5 CORES) WITHASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALL RESPECT	Set	1	1 Set = 1 number of each type, make & rating
3.54	SF6 PRESSURE GAUGE CUM SWITCH /DENSITY MONITORS AND PRESSURE SWITCH AS APPLICABLE, OF EACH TYPE 220KV GIS	Set	3	

Sl. No.	Item Description	Unit		Remarks
4.0	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. Bidder 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)			
4.01	SUPPLY- GIS: SPARES: 220KV, EXPANSION JOINTS	Set	1	1set= 1 nos. of ANY type and each rating.
4.02	SUPPLY- GIS: SPARES: 220KV, L-BEND	Set	1	1set= 1 nos. of ANY type and each rating.

Sl. No.	SERVICES DESCRIPTION	Unit	QTY	Remarks
5.0	SERVICES- GIS : 220KV, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
5.01	SERVICES- 220KV GIS: SUPERVISION OF ERECTION OF GIS	Bays	5	Supervision of complete installation of the GIS system and its subsystems in full compliance with the Technical Specifications, including but not limited to the main bus, GIB within the GIS hall, LCC, earthing, structures, SF ₆ gas filling works, cabling, and all related accessories and monitoring systems. This also includes verification of materials for proper on-site storage. The mode of measurement shall be per Circuit Breaker Bay. [Remark: GIS "Bus Duct" outside GIS Hall and "SF ₆ to AIR Bushing" are covered in separate BOQ line items below.]
5.02	SERVICES- 220KV GIS: SUPERVISION OF ERECTION OF GAS INSULATED BUS DUCT 1 PHASE	MTR	350	Supervision of erection of GIB (outside GIS hall) complete in all respects as per the Technical Specifications. This item also covers earthing, SF ₆ gas filling works, internal cabling with tray work, and associated structural works.
5.03	SERVICES- 220KV GIS: SUPERVISION OF ERECTION OF SINGLE PHASE, SF6 TO AIR BUSHING	SET	12	Supervision of erection of complete as per TS in all respect. Structure, Earthing, SF ₆ Gas Filing works, Internal Cabling with tray work including Structure Works are also deemed inclusive under this item.
5.04	SERVICES- 220KV GIS: TESTING & COMMISSIONING OF GIS	Bays	5	Testing and commissioning of the GIS system and its subsystems in full compliance with the Technical Specifications, including but not limited to the main bus, GIB within GIS Hall, LCC, and associated systems. All testing instruments, kits, tools, and plants (T&P), SF ₆ service cart, shall be arranged by the bidder on a returnable basis. Please refer to the relevant sections of the Technical Specifications for further details. [Remark: GIS Bus Duct outside the GIS hall and SF ₆ -to-Air/Oil/Cable bushings (as applicable) are covered under separate BOQ line items below.]

SI. No.	SERVICES DESCRIPTION	Unit	QTY	Remarks
5.05	SERVICES- 220KV GIS : TESTING & COMMISSIONING OF OF GAS INSULATED BUS DUCT 1 PHASE	MTR	350	Testing and commissioning of GIB (outside GIS hall) complete in all respects as per the Technical Specifications. All special testing instruments, kits, tools, and plants (T&P) shall be arranged by the bidder on a returnable basis. Please refer to the relevant sections of the Technical Specifications for further details.
5.06	SERVICES- 220KV, TESTING & COMMISSIONING OF SINGLE PHASE, SF6 TO AIR BUSHING	SET	12	Testing & commissioning complete as per TS in all respect. All the testing instruments, kits, T&P etc. are to be arranged by bidder on returnable basis. Please refer relevant section of technical specification for details.
5.07	SERVICES- 220KV GIS : FINAL SUCCESSFUL HV/ POWER FREQUENCY TESTING OF GIS INCLUDING ARRANGING OF HV TEST KIT ALONG WITH OPERATOR	Bays	5	Carrying out successful HV/Power Frequency Testing of the complete GIS and its subsystems as per IEC requirements. Arrangement of the HV test kit with operator (on a returnable basis) shall be in the bidder's scope. This includes all charges for the HV test kit, operator, accessories, and tools required for the completion of HV testing. The quoted price shall cover all GIS bays, including the main bus, GIB, SAB/SOB/SF ₆ -to-Cable connections, and other common items as per the Technical Specifications, complete in all respects. Mobilization and demobilization of the HV test kit shall be considered once under this BOQ item. In case additional mobilization/demobilization is required for reasons not attributable to the bidder, the same shall be paid extra as per the applicable BOQ item.
5.08	SERVICES- 220KV GIS : INSULATION CO-ORDINATION STUDIES FOR GIS SYSTEM	LOT	1	1 Lot means Complete study report as per technical specification, Including VFTO report.

Sl. No.	SERVICES DESCRIPTION	Unit	QTY	Remarks
6.0	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)			
6.01	SERVICES- 220KV 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 bidder) This item will be executed only if repetition of services is required by BHEL.
6.02	SERVICES- 220KV 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 bidder) This item will be executed only if repetition of services is required by BHEL.
	DEMOBILIZATION AND REMOBILIZATION CHARGES			
6.03	SERVICES- 220KV GIS: DEMOBILIZATION AND REMOBILIZATION CHARGES FOR GIS ERECTION SUPERVISION TEAM	Set	1	THIS BOQ ITEM SHALL BE PAYABLE IF REQUIRED FOR REASONS NOT ATTRIBUTABLE TO BIDDER.
6.04	SERVICES- 220KV GIS: DEMOBILIZATION AND REMOBILIZATION CHARGES FOR GIS TESTING & COMMISSIONING TEAM	Set	1	BOQ ITEM SHALL BE PAYABLE IF REQUIRED FOR REASONS NOT ATTRIBUTE TO BIDDER. HV TESTING IS NOT PART OF THIS ITEM.
6.05	SERVICES- 220KV GIS: DEMOBILIZATION & REMOBILIZATION CHARGES OF HV TEST KIT ALONG WITH OPERATOR	Lot	1	In this BOQ item, mobilization and demobilization chages for HV test kit is considered for second time or more , for reasons not attributable to bidder.

Sl. No.	Item Description	Unit		Remarks
1.00	SUPPLY- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
1.01	420KV, 5000 A, 63 KA, SF6 GIS BUS BARMODULE AS PER SECTION-PROJECT, TECHNICAL SPECIFICATION	SET	2	IN FULL COMPLIANCE WITH THE TECHNICAL SPECIFICATION, INCLUSIVE OF LCC, SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS ETC TO COMPLETE GIS SYSTEM
1.02	420KV, 3150 A, 63 KA, SF6 GIS ICT FEEDERBAY MODULE AS PER SECTION-PROJECT, TECHNICAL SPECIFICATION	SET	2	IN FULL COMPLIANCE WITH THE TECHNICAL SPECIFICATION, INCLUSIVE OF LCC, SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS ETC TO COMPLETE GIS SYSTEM
1.03	420 KV, 3150 A, 63 KA, SF6 GIS LINEFEEDER BAY MODULE(WITHOUT PIR) AS PERSECTION-PROJECT, TECHNICALSPECIFICATION	SET	2	IN FULL COMPLIANCE WITH THE TECHNICAL SPECIFICATION, INCLUSIVE OF LCC, SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS ETC TO COMPLETE GIS SYSTEM
1.04	420KV, 3150 A, 63 KA, SF6 GIS SWITCHABLE LINE REACTOR BAY MODULE ASPER SECTION-PROJECT, TECHNICAL SPECIFICATION	SET	2	IN FULL COMPLIANCE WITH THE TECHNICAL SPECIFICATION, INCLUSIVE OF LCC, SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS ETC TO COMPLETE GIS SYSTEM
1.05	420KV, 3150 A, 63 KA, SF6 GIS BUS REACTOR BAY MODULE AS PERSECTION-PROJECT, TECHNICALSPECIFICATION	SET	2	IN FULL COMPLIANCE WITH THE TECHNICAL SPECIFICATION, INCLUSIVE OF LCC, SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS ETC TO COMPLETE GIS SYSTEM
1.06	420KV, 3150 A, 63 KA, SF6 GIS TIE BAYMODULE(WITHOUT PIR) AS PERSECTION-PROJECT, TECHNICALSPECIFICATION	SET	3	IN FULL COMPLIANCE WITH THE TECHNICAL SPECIFICATION, INCLUSIVE OF LCC, SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS ETC TO COMPLETE GIS SYSTEM
1.07	420KV, 3150A, 63KA SF6 TO AIR BUSHING INCLUDING SUPPORT STRUCTURE	SET	24	
1.08	CONTROLLED SWITCHING DEVICE FOR 420 KV, 3-PH CIRCUIT BREAKER	EA	9	
1.09	420KV, 3000A, 63KA, SINGLE PHASE, SF6 GAS INSULATED BUS DUCT (GIB) OUTSIDE GIS HALL ALONGWITH ASSOCIATED SUPPORT STRUCTURE, ETC. AS PERTECHNICAL SPECIFICATION	M	1600	

For
27/01

M. Chandel
27.01.26

SI. No.	Item Description	Unit		Remarks
2.00	SUPPLY- GIS: SPECIAL TOOLS AND TESTING & MAINTENANCE INSTRUMENTS AS PER TS (400KV GIS)			INDIVIDUAL QUANTITY IS SUBJECT TO CHANGE DURING THE CONTRACT STAGE AND MAY EVEN BE DELETED.
2.01	PORTABLE PARTIAL DISCHARGE MEASUREMENT TEST KITWITH ALL NECESSARY ACCESSORIES,INDUSTRIAL GRADE LAPTOP AND LICENSED SOFTWARE AS PER TECHNICALSPECIFICATION.	EA	1	
2.02	SF6 GAS ANALYZER	EA	1	
2.03	SF6 GAS LEAKAGE DETECTOR	EA	1	
2.04	SCISSOR LIFT	EA	1	
2.05	SF6 GAS PROCESSING UNIT FOR 400KV GIS STATION	SET	1	
2.06	DEW POINT METER	SET	1	

SI. No.	Item Description	Unit		Remarks
3.00	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 type, make & rating
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	

SI. No.	Item Description	Unit		Remarks
3.00	SPARES- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
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 DISCONNECTORS (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 type, make & rating
3.10	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 type, make & 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 type, make & rating
3.12	400KV GIS- 3150A SF6 TO AIR BUSHING COMPLETE IN ALL RESPECT	Set	1	1 Set = 1 number of each type, make & rating

SI. No.	Item Description	Unit		Remarks
3.00	SPARES- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
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	Trip coil assembly with resistor for420kV GIS Circuit Breaker (asapplicable)	SET	3	
3.16	Closing coil assembly with resistor for420kV GIS Circuit Breaker (asapplicable)	SET	3	
3.17	RELAYS, POWER CONTACTORS, PUSH BUTTONS, TIMERS & MCBS ETC. (ASAPPLICABLE) OF EACH TYPE FOR 400KV GIS CIRCUIT BREAKER	SET	1	
3.18	Auxiliary switch assembly of each type for 420kV GIS Circuit Breaker	SET	3	
3.19	400KV GIS CIRCUIT BREAKER-OPERATION COUNTER	Set	3	1 Set = 1 number of each type, make & rating

SI. No.	Item Description	Unit		Remarks
3.00	SPARES- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
3.20	400KV GIS CIRCUIT BREAKER-HYDRAULIC OPERATING MECHANISM WITH DRIVEMOTOR (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.21	HYDRAULIC FILTER OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE) 400KV GIS CIRCUIT BREKAER	SET	1	
3.22	400KV GIS CIRCUIT BREAKER- HOSE PIPE OF EACH TYPE (AS APPLICABLE) (FORHYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.23	400KV GIS CIRCUIT BREAKER - N2 ACCUMULATOR (FOR HYDRAULIC OPERATEDMECHANISM, IF APPLICABLE)	SET	1	
3.24	VALVES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-400KV GIS CIRCUIT BREKAER	SET	1	
3.25	PIPE LENGTH (COPPER & STEEL) OF EACH SIZE & TYPE (FOR HYDRAULICOPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	SET	1	
3.26	PRESSURE SWITCHES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-400KV GIS CIRCUIT BREKAER	SET	1	

SI. No.	Item Description	Unit		Remarks
3.00	SPARES- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
3.27	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	SET	1	
3.28	400KV GIS CIRCUIT BREAKER-HYDRAULIC OIL (5% OF TOTAL OIL QUANTITY)(FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.29	PRESSURE RELIEF DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM,IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	SET	1	
3.30	400KV GIS CIRCUIT BREAKER-COMPLETE SPRING OPERATING MECHANISMINCLUDING CHARGING MECHANISM ETC. (FOR SPRING OPERATED MECHANISM, IFAPPLICABLE)	SET	1	
3.31	400KV GIS CIRCUIT BREAKER- COMPLETE HYDRAULIC-SPRING OPERATINGMECHANISM INCLUDING CHARGING MECHANISM ETC. (FOR HYDRAULIC-SPRINGOPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.32	PRESSURE SWITCHES OF EACH TYPE FOR420KV GIS CIRCUIT BREAKER (ForHydraulic-Spring Operated Mechanism, ifapplicable)	SET	1	
3.33	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULIC-SPRINGOPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	SET	1	

SI. No.	Item Description	Unit		Remarks
3.00	SPARES- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
3.34	400kV GIS- Single phase of 3150A disconnect switch including main circuit, enclosure, driving mechanism and support insulator etc., complete in all respect	Set	4	Each type, make & rating. (Note 1- The contractor shall supply spare for disconnect switch to ensure one to one replacement of all disconnect switch supplied as main equipment without any requirement of modification in fittings at site to cover all different types of disconnect switch supplied. In case, quantity of supplied disconnect 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 disconnect switch without any additional price implication to POWERGRID and quantities of these additional type of disconnect switch are deemed to be included in the quantities mentioned in BPS for spare disconnect. 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 of spare Dis-connector only.)
3.35	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 type, make & 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.)
3.36	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 type, make & 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.)
3.37	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	

SI. No.	Item Description	Unit		Remarks
3.00	SPARES- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
3.38	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 MAINTENANCE EARTH SWITCH	SET	1	
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 FAST EARTH SWITCH	SET	1	
3.40	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR DISCONNECTOR-400KV GIS	SET	2	
3.41	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR MAINTENANCE EARTHING SWITCH-400KV GIS	SET	2	
3.42	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR FAST EARTHING SWITCH (IF APPLICABLE)-400KV GIS	SET	2	

SI. No.	Item Description	Unit		Remarks
3.00	SPARES- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
3.43	DRIVE MECHANISM FOR 400KV GIS DISCONNECTOR SWITCH	SET	1	
3.44	DRIVE MECHANISM FOR 400KV GIS MAINTENANCE EARTH SWITCH	SET	1	
3.45	DRIVE MECHANISM FOR 400KV GIS FAST EARTHING SWITCH	SET	1	
3.46	MOTOR FOR DRIVE MECHANISM FOR 400KV GIS DISCONNECTOR SWITCH	Set	1	1 Set = 1 number of each type, make & rating
3.47	MOTOR FOR DRIVE MECHANISM FOR 400KV GIS MAINTENANCE EARTH SWITCH	Set	1	1 Set = 1 number of each type, make & rating
3.48	MOTOR FOR DRIVE MECHANISM FOR 400KV GIS FAST EARTHING SWITCH	Set	1	1 Set = 1 number of each type, make & rating
3.49	400KV GIS- SINGLE PHASE OF CURRENT TRANSFORMER (3 CORES, TYPE-CTA)WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALLRESPECT	Set	1	1 Set = 1 number of each type, make & rating

SI. No.	Item Description	Unit		Remarks
3.00	SPARES- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
3.50	400KV GIS- SINGLE PHASE OF CURRENT TRANSFORMER (2 CORES, TYPE-CTB)WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALLRESPECT	Set	1	1 Set = 1 number of each type, make & rating
3.51	400KV GIS- SINGLE PHASE VT WITH ASSOCIATED ENCLOSURE COMPLETE IN ALLRESPECT	Set	1	1 Set = 1 number of each type, make & rating

Sl. No.	Item Description	Unit		Remarks
4.0	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. Bidder 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)			
4.01	SUPPLY- GIS: SPARES: 400KV, EXPANSION JOINTS	Set	1	1set= 1 nos. of ANY type and each rating.
4.02	SUPPLY- GIS: SPARES: 400KV, L-BEND	Set	1	1set= 1 nos. of ANY type and each rating.

Sl. No.	SERVICES DESCRIPTION	Unit	QTY	Remarks
5.0	SERVICES- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
5.01	SERVICES- 400KV GIS: SUPERVISION OF ERECTION OF GIS	Bays	11	Supervision of complete installation of the GIS system and its subsystems in full compliance with the Technical Specifications, including but not limited to the main bus, GIB within the GIS hall, LCC, earthing, structures, SF ₆ gas filling works, cabling, and all related accessories and monitoring systems. This also includes verification of materials for proper on-site storage. The mode of measurement shall be per Circuit Breaker Bay. [Remark: GIS "Bus Duct" outside GIS Hall and "SF ₆ to AIR Bushing" are covered in separate BOQ line items below.]
5.02	SERVICES- 400KV GIS: SUPERVISION OF ERECTION OF GAS INSULATED BUS DUCT 1 PHASE	MTR	1600	Supervision of erection of GIB (outside GIS hall) complete in all respects as per the Technical Specifications. This item also covers earthing, SF ₆ gas filling works, internal cabling with tray work, and associated structural works.
5.03	SERVICES- 400KV GIS: SUPERVISION OF ERECTION OF SINGLE PHASE, SF6 TO AIR BUSHING	SET	24	Supervision of erection of complete as per TS in all respect. Structure, Earthing, SF ₆ Gas Filing works, Internal Cabling with tray work including Structure Works are also deemed inclusive under this item.
5.04	SERVICES- 400KV GIS: TESTING & COMMISSIONING OF GIS	Bays	11	Testing and commissioning of the GIS system and its subsystems in full compliance with the Technical Specifications, including but not limited to the main bus, GIB within GIS Hall, LCC, and associated systems. All testing instruments, kits, tools, and plants (T&P), SF ₆ service cart, shall be arranged by the bidder on a returnable basis. Please refer to the relevant sections of the Technical Specifications for further details. [Remark: GIS Bus Duct outside the GIS hall and SF ₆ -to-Air/Oil/Cable bushings (as applicable) are covered under separate BOQ line items below.]

SI. No.	SERVICES DESCRIPTION	Unit	QTY	Remarks
5.05	SERVICES- 400KV GIS : TESTING & COMMISSIONING OF OF GAS INSULATED BUS DUCT 1 PHASE	MTR	1600	Testing and commissioning of GIB (outside GIS hall) complete in all respects as per the Technical Specifications. All special testing instruments, kits, tools, and plants (T&P) shall be arranged by the bidder on a returnable basis. Please refer to the relevant sections of the Technical Specifications for further details.
5.06	SERVICES- 400KV, TESTING & COMMISSIONING OF SINGLE PHASE, SF6 TO AIR BUSHING	SET	24	Testing & commissioning complete as per TS in all respect. All the testing instruments, kits, T&P etc. are to be arranged by bidder on returnable basis. Please refer relevant section of technical specification for details.
5.07	SERVICES- Controlled Switching Device for 420 kV, 3-ph Circuit Breaker	SET	9	Supervision of Installation and execution of Testing & commissioning complete as per TS in all respect. All the testing instruments, kits, T&P etc. are to be arranged by bidder on returnable basis. Please refer relevant section of technical specification for details.
5.08	SERVICES- 400KV GIS : FINAL SUCCESSFUL HV/ POWER FREQUENCY TESTING OF GIS INCLUDING ARRANGING OF HV TEST KIT ALONG WITH OPERATOR	Bays	11	Carrying out successful HV/Power Frequency Testing of the complete GIS and its subsystems as per IEC requirements. Arrangement of the HV test kit with operator (on a returnable basis) shall be in the bidder's scope. This includes all charges for the HV test kit, operator, accessories, and tools required for the completion of HV testing. The quoted price shall cover all GIS bays, including the main bus, GIB, SAB/SOB/SF ₆ -to-Cable connections, and other common items as per the Technical Specifications, complete in all respects. Mobilization and demobilization of the HV test kit shall be considered once under this BOQ item. In case additional mobilization/demobilization is required for reasons not attributable to the bidder, the same shall be paid extra as per the applicable BOQ item.
5.09	SERVICES- 400KV GIS : INSULATION CO-ORDINATION STUDIES FOR GIS SYSTEM	LOT	1	1 Lot means Complete study report as per technical specification, Including VFTO report.

Sl. No.	SERVICES DESCRIPTION	Unit	QTY	Remarks
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6.0	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)			
6.01	SERVICES- 400KV 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 bidder) This item will be executed only if repetition of services is required by BHEL.
6.02	SERVICES- 400KV 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 bidder) This item will be executed only if repetition of services is required by BHEL.
	DEMOBILIZATION AND REMOBILIZATION CHARGES			
6.03	SERVICES- 400KV GIS: DEMOBILIZATION AND REMOBILIZATION CHARGES FOR GIS ERECTION SUPERVISION TEAM	Set	1	THIS BOQ ITEM SHALL BE PAYABLE IF REQUIRED FOR REASONS NOT ATTRIBUTABLE TO BIDDER.
6.04	SERVICES- 400KV GIS: DEMOBILIZATION AND REMOBILIZATION CHARGES FOR GIS TESTING & COMMISSIONING TEAM	Set	1	BOQ ITEM SHALL BE PAYABLE IF REQUIRED FOR REASONS NOT ATTRIBUTE TO BIDDER. HV TESTING IS NOT PART OF THIS ITEM.

SI. No.	SERVICES DESCRIPTION	Unit	QTY	Remarks
6.05	SERVICES- 400KV GIS: DEMOBILIZATION & REMOBILIZATION CHARGES OF HV TEST KIT ALONG WITH OPERATOR	Lot	1	In this BOQ item, mobilization and demobilization chages for HV test kit is considered for second time or more , for reasons not attributable to bidder.

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: Powergrid's Substation Package SS-141T (Kayling)

Enquiry/NIT No:

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	SUPPLY- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS (For item sl. No. 1.01-1.09): 420KV, 5000 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	420KV, 3150 A, 63 KA, SF6 GIS ICT FEEDERBAY MODULE AS PER SECTION-PROJECT,TECHNICAL SPECIFICATION	item2	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.03	420 KV, 3150 A, 63 KA, SF6 GIS LINEFEEDER BAY MODULE(WITHOUT PIR) AS PERSECTION-PROJECT, TECHNICALSPECIFICATION	item3	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.04	420KV, 3150 A, 63 KA, SF6 GIS SWITCHABLE LINE REACTOR BAY MODULE ASPER SECTION-PROJECT, TECHNICAL SPECIFICATION	item4	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.05	420KV, 3150 A, 63 KA, SF6 GIS BUS REACTOR BAY MODULE AS PERSECTION-PROJECT, TECHNICALSPECIFICATION	item5	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.06	420KV, 3150 A, 63 KA, SF6 GIS TIE BAYMODULE(WITHOUT PIR) AS PERSECTION-PROJECT, TECHNICALSPECIFICATION	item6	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.07	420KV, 3150A, 63KA SF6 TO AIR BUSHING INCLUDING SUPPORT STRUCTURE	item7	24	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.08	CONTROLLED SWITCHING DEVICE FOR 420 KV, 3-PH CIRCUIT BREAKER	item8	9	EA	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.09	420KV, 3000A, 63KA, SINGLE PHASE, SF6 GAS INSULATED BUS DUCT (GIB) OUTSIDE GIS HALL ALONGWITH ASSOCIATED SUPPORT STRUCTURE, ETC. AS PERTECHNICAL SPECIFICATION	item9	1600	M	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.01	SUPPLY- GIS: SPECIAL TOOLS AND TESTING & MAINTENANCE INSTRUMENTS AS PER TS (400KV GIS) (For item sl. No. 2.01-2.06): PORTABLE PARTIAL DISCHARGE MEASUREMENT TEST KITWITH ALL NECESSARY ACCESSORIES,INDUSTRIAL GRADE LAPTOP AND LICENSEDSOFTWARE AS PER TECHNICALSPECIFICATION.	item10	1	EA	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.02	SF6 GAS ANALYZER	item11	1	EA	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.03	SF6 GAS LEAKAGE DETECTOR	item12	1	EA	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.04	SCISSOR LIFT	item13	1	EA	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.05	SF6 GAS PROCESSING UNIT FOR 400KV GIS STATION	item14	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.06	DEW POINT METER	item15	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.01	SPARES- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS (For item sl. No. 3.01-3.51): 400KV GIS-SF6 GAS PRESSURE RELIEF DEVICE ASSEMBLY OF EACH TYPE	item16	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	item17	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: Powergrid's Substation Package SS-141T (Kayling)

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PRICE SCHEDULE
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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
3.03	COUPLING DEVICE FOR PRESSURE GAUGE CUM SWITCH FOR CONNECTING GAS HANDLING PLANT OF EACH TYPE-400KV GIS	item18	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.04	RUBBER GASKETS, O RINGS AND SEALS FOR SF6 GAS FOR GISENCLOSURE OF EACH TYPE-400KV GIS	item19	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)	item20	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	item21	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)	item22	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.08	LOCKING DEVICE TO KEEP THE DISCONNECTORS (ISOLATORS)AND EARTHING/FAST EARTHING SWITCHES IN CLOSE OR OPEN POSITION IN CASEOF REMOVAL OF THE DRIVING MECHANISM-400KV GIS	item23	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	item24	5	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.10	400KV GIS-SUPPORT INSULATORS (GAS THROUGH) OF EACH TYPE (COMPLETE WITHMETAL RING ETC.) ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	item25	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	item26	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	item27	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	item28	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	item29	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.15	Trip coil assembly with resistor for420kv GIS Circuit Breaker (asapplicable)	item30	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.16	Closing coil assembly with resistor for420kv GIS Circuit Breaker (asapplicable)	item31	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.17	RELAYS, POWER CONTACTORS, PUSH BUTTONS, TIMERS & MCBS ETC. (ASAPPLICABLE) OF EACH TYPE FOR 400KV GIS CIRCUIT BREAKER	item32	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.18	Auxiliary switch assembly of each type for 420kv GIS Circuit Breaker	item33	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.19	400KV GIS CIRCUIT BREAKER-OPERATION COUNTER	item34	3	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.20	400KV GIS CIRCUIT BREAKER-HYDRAULIC OPERATING MECHANISM WITH DRIVEMOTOR (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item35	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.21	HYDRAULIC FILTER OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFPPLICABLE)-400KV GIS CIRCUIT BREKAER	item36	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

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Sl. No.	Item Description	Item Code / Make	Quantity	Units	Quoted Currency in INR / Other Currency	Unit RATE In Figures To be entered by the Bidder in Rs. P	GST (in Percentage)	GST Amount (Unit Rate*Quantity* GST) Rs. P	Unit Freight & Insurance Charges in Rs. P	GST (in Percentage)	GST Amount on F&I (Unit Rate*Quantity*GST) Rs. P	HSN / SAC Code	TOTAL Ex-Works + F & I AMOUNT excluding GST in Rs. P	TOTAL Ex-Works + F & I AMOUNT including GST in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
3.22	400KV GIS CIRCUIT BREAKER- HOSE PIPE OF EACH TYPE (AS APPLICABLE) (FORHYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item37	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.23	400KV GIS CIRCUIT BREAKER - N2 ACCUMULATOR (FOR HYDRAULIC OPERATEDMECHANISM, IF APPLICABLE)	item38	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.24	VALVES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-400KV GIS CIRCUIT BREKAER	item39	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.25	PIPE LENGTH (COPPER & STEEL) OF EACH SIZE & TYPE (FOR HYDRAULICOPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	item40	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.26	PRESSURE SWITCHES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-400KV GIS CIRCUIT BREKAER	item41	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.27	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULICOPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	item42	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.28	400KV GIS CIRCUIT BREAKER-HYDRAULIC OIL (5% OF TOTAL OIL QUANTITY)(FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item43	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.29	PRESSURE RELIEF DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM,IF APPLICABLE)- 400KV GIS CIRCUIT BREKAER	item44	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.30	400KV GIS CIRCUIT BREAKER-COMLETE SPRING OPERATING MECHANISMINCLUDING CHARGING MECHANISM ETC. (FOR SPRING OPERATED MECHANISM, IFAPPLICABLE)	item45	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.31	400KV GIS CIRCUIT BREAKER- COMPLETE HYDRAULIC-SPRING OPERATINGMECHANISM INCLUDING CHARGING MECHANISM ETC. (FOR HYDRAULIC-SPRINGOPERATED MECHANISM, IF APPLICABLE)	item46	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.32	PRESSURE SWITCHES OF EACH TYPE FOR420KV GIS CIRCUIT BREAKER (ForHydraulic-Spring Operated Mechanism, ifapplicable)	item47	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.33	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULIC-SPRINGOPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	item48	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.34	400kv GIS- Single phase of 3150Adisconnector switch including maincircuit, enclosure, driving mechanismand support insulator etc., complete inall respect	item49	4	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.35	400KV GIS- SINGLE PHASE MAINTENANCE EARTHING SWITCH INCLUDING MAINCIRCUIT, ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC.,COMPLETE IN ALL RESPECT	item50	2	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.36	400KV GIS - SINGLE PHASE FAST EARTHING SWITCH INCLUDING MAIN CIRCUIT,ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC., COMPLETE INALL RESPECT	item51	2	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

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Sl. No.	Item Description	Item Code / Make	Quantity	Units	Quoted Currency in INR / Other Currency	Unit RATE In Figures To be entered by the Bidder in Rs. P	GST (in Percentage)	GST Amount (Unit Rate*Quantity* GST) Rs. P	Unit Freight & Insurance Charges in Rs. P	GST (in Percentage)	GST Amount on F&I (Unit Rate*Quantity*GST) Rs. P	HSN / SAC Code	TOTAL Ex-Works + F & I AMOUNT excluding GST in Rs. P	TOTAL Ex-Works + F & I AMOUNT including GST in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
3.37	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	item52	1	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 MAINTENANCE EARTH SWITCH	item53	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 FAST EARTHINGSWITCH	item54	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.40	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FORDISCONNECTOR-400KV GIS	item55	2	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 FORMAINTENANCE EARTHING SWITCH-400KV GIS	item56	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 FOR FASTEARTHING SWITCH (IF APPLICABLE)-400KV GIS	item57	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.43	DRIVE MECHANISM FOR 400KV GIS DISCONNECTOR SWITCH	item58	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.44	DRIVE MECHANISM FOR 400KV GIS MAINTENANCE EARTH SWITCH	item59	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.45	DRIVE MECHANISM FOR 400KV GIS FAST EARTHING SWITCH	item60	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.46	MOTOR FOR DRIVE MECHANISM FOR 400KV GIS DISCONNECTOR SWITCH	item61	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.47	MOTOR FOR DRIVE MECHANISM FOR 400KV GIS MAINTENANCE EARTH SWITCH	item62	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.48	MOTOR FOR DRIVE MECHANISM FOR 400KV GIS FAST EARTHING SWITCH	item63	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.49	400KV GIS- SINGLE PHASE OF CURRENT TRANSFORMER (3 CORES, TYPE-CTA)WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALLRESPECT	item64	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.50	400KV GIS- SINGLE PHASE OF CURRENT TRANSFORMER (2 CORES, TYPE-CTB)WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALLRESPECT	item65	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.51	400KV GIS- SINGLE PHASE VT WITH ASSOCIATED ENCLOSURE COMPLETE IN ALLRESPECT	item66	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
4.01	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. Bidder 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) (For item sl. No. 4.01-4.02): SUPPLY- GIS: SPARES: 400KV, EXPANSION JOINTS	item67	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.02	SUPPLY- GIS: SPARES: 400KV, L-BEND	item68	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.01	SERVICES- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS (For item sl. No. 5.01-5.09): SERVICES- 400KV GIS: SUPERVISION OF ERECTION OF GIS	item69	11	Bays	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.02	SERVICES- 400KV GIS: SUPERVISION OF ERECTION OF GAS INSULATED BUS DUCT 1 PHASE	item70	1600	MTR	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.03	SERVICES- 400KV GIS: SUPERVISION OF ERECTION OF SINGLE PHASE, SF6 TO AIR BUSHING	item71	24	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.04	SERVICES- 400KV GIS: TESTING & COMMISSIONING OF GIS	item72	11	Bays	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.05	SERVICES- 400KV GIS : TESTING & COMMISSIONING OF OF GAS INSULATED BUS DUCT 1 PHASE	item73	1600	MTR	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.06	SERVICES- 400KV, TESTING & COMMISSIONING OF SINGLE PHASE, SF6 TO AIR BUSHING	item74	24	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.07	SERVICES- Controlled Switching Device for 420 kV, 3-ph Circuit Breaker	item75	9	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.08	SERVICES- 400KV GIS : FINAL SUCCESSFUL HV/ POWER FREQUENCY TESTING OF GIS INCLUDING ARRANGING OF HV TEST KIT ALONG WITH OPERATOR	item76	11	Bays	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.09	SERVICES- 400KV GIS : INSULATION CO-ORDINATION STUDIES FOR GIS SYSTEM	item77	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
6.01	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) (For item sl. No. 6.01-6.06): SERVICES- 400KV GIS: REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR SUPERVISION OF ERECTION OF GIS	item78	10	MANDAY	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.02	SERVICES- 400KV GIS: REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR TESTING & COMMISSIONING OF GIS	item79	10	MANDAY	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.03	SERVICES- 400KV GIS: DEMOBILIZATION AND REMOBILIZATION CHARGES FOR GIS ERECTION SUPERVISION TEAM	item80	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.04	SERVICES- 400KV GIS: DEMOBILIZATION AND REMOBILIZATION CHARGES FOR GIS TESTING & COMMISSIONING TEAM	item81	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.05	SERVICES- 400KV GIS: DEMOBILIZATION & REMOBILIZATION CHARGES OF HV TEST KIT ALONG WITH OPERATOR	item82	1	Lot	INR			0.00			0.00		0.000	0.000	INR Zero Only
Total in Figures													0.000	0.000	Zero Only
oted Rate in Words		INR Zero Only													

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
1.01	SUPPLY- GIS : 220KV, 40KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS (For item sl. No. 1.01-1.06): 245 KV, 3500A, 50KA, 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	245KV, 2000 A, 50 KA, SF6 GIS ICT FEEDERBAY MODULE AS PER SECTION-PROJECT,TECHNICAL SPECIFICATION	item2	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.03	245KV, 2000 A, 50 KA, SF6 GIS LINE FEEDER BAY MODULE AS PERSECTION-PROJECT, TECHNICALSPECIFICATION	item3	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.04	245KV, 3500 A, 50 KA, SF6 GIS BUSCOUPLER BAY MODULE AS PERSECTION-PROJECT, TECHNICALSPECIFICATION	item4	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.05	245KV, 2000A, 50KA, 3 SINGLE PHASE/ 3PHASE, SF6 GAS INSULATED BUS DUCT (GIB) OUTSIDE GIS HALL ALONG WITH ASSOCIATED SUPPORT STRUCTURE (QUANTITY MENTIONEDHERE IS FOR 3 PHASE TYPE)	item5	350	M	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.06	245KV, 2000A, 50KA SINGLE PHASE SF6 TO AIR BUSHING	item6	12	EA	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.01	SUPPLY- GIS: SPECIAL TOOLS AND TESTING & MAINTENANCE INSTRUMENTS AS PER TS (220kv) (For item sl. No. 2.01-2.05): PORTABLE PARTIAL DISCHARGE MEASUREMENT TEST KITWITH ALL NECESSARY ACCESSORIES,INDUSTRIAL GRADE LAPTOP AND LICENSEDSOFTWARE AS PER TECHNICALSPECIFICATION.	item7	1	EA	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.02	SF6 GAS ANALYZER	item8	1	EA	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.03	SF6 GAS LEAKAGE DETECTOR	item9	1	EA	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.04	SCISSOR LIFT	item10	1	EA	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.05	DEW POINT METER	item11	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.01	SPARES- GIS : 220KV, GAS INSULATED SWITCHGEAR (GIS) AS PER TS (For item sl. No. 3.01-3.54): 220KV GIS-SF6 GAS PRESSURE RELIEF DEVICE ASSEMBLY OF EACH TYPE	item12	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-220KV GIS	item13	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-220KV GIS	item14	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.04	RUBBER GASKETS, Æ,â,-Ä'ÖÃ,â,-Ä RINGS AND SEALS FOR SF6 GAS FOR GISENCLOSURE OF EACH TYPE-220KV GIS	item15	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.05	220KV GIS-MOLECULAR FILTER FOR SF6 GAS WITH FILTER BAGS (5 % OF TOTALWEIGHT)	item16	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.06	CONTROL VALVES FOR SF6 GAS OF EACH TYPE-220KV GIS	item17	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.07	220KV GIS-SF6 GAS (5 % OF TOTAL GAS QUANTITY)	item18	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: Powergrid's Substation Package SS-141T (Kayling)

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Sl. No.	Item Description	Item Code / Make	Quantity	Units	Quoted Currency in INR / Other Currency	Unit RATE In Figures To be entered by the Bidder in Rs. P	GST (in Percentage)	GST Amount (Unit Rate*Quantity* GST) Rs. P	Unit Freight & Insurance Charges in Rs. P	GST (in Percentage)	GST Amount on F&I (Unit Rate*Quantity*GST) Rs. P	HSN / SAC Code	TOTAL Ex-Works + F & I AMOUNT excluding GST in Rs. P	TOTAL Ex-Works + F & I AMOUNT including GST in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
3.08	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	item19	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 245KV GIS	item20	5	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.10	220KV GIS-SUPPORT INSULATORS (GAS THROUGH) OF EACH TYPE (COMPLETE WITHMETAL RING ETC.) ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	item21	5	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.11	220KV GIS-GAS BARRIERS OF EACH TYPE (COMPLETE WITH METAL RING ETC.)ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	item22	5	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.12	220KV GIS- 2000 A SF6 TO AIR BUSHING COMPLETE IN ALL RESPECT	item23	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-220kv GIS	item24	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.14	220KV GIS-ONE POLE OF 2000 A CIRCUIT BREAKER WITH INTERRUPTER, MAINCIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALL RESPECT	item25	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.15	220KV GIS-ONE POLE OF 3500A CIRCUIT BREAKER WITH INTERRUPTER, MAINCIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALL RESPECT	item26	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.16	Trip coil assembly with resistor for245kv GIS Circuit Breaker (asapplicable)	item27	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.17	Closing coil assembly with resistor for245kv GIS Circuit Breaker (asapplicable)	item28	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 220KV GIS CIRCUIT BREAKER	item29	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.19	Auxiliary switch assembly of each type for 245kv GIS Circuit Breaker	item30	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.20	220KV GIS CIRCUIT BREAKER-OPERATION COUNTER	item31	3	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.21	220KV GIS CIRCUIT BREAKER-HYDRAULIC OPERATING MECHANISM WITH DRIVEMOTOR (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item32	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)-220KV GIS CIRCUIT BREKAER	item33	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.23	220KV GIS CIRCUIT BREAKER- HOSE PIPE OF EACH TYPE (AS APPLICABLE) (FORHYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item34	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.24	220KV GIS CIRCUIT BREAKER - N2 ACCUMULATOR (FOR HYDRAULIC OPERATEDMECHANISM, IF APPLICABLE)	item35	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)-220KV GIS CIRCUIT BREKAER	item36	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
3.26	PIPE LENGTH (COPPER & STEEL) OF EACH SIZE & TYPE (FOR HYDRAULICOPERATED MECHANISM, IF APPLICABLE)-220KV GIS CIRCUIT BREKAER	item37	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)-220KV GIS CIRCUIT BREKAER	item38	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)-220KV GIS CIRCUIT BREKAER	item39	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.29	220KV GIS CIRCUIT BREAKER-HYDRAULIC OIL (5% OF TOTAL OIL QUANTITY)(FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item40	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.30	PRESSURE RELIEF DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM,IF APPLICABLE)- 220KV GIS CIRCUIT BREKAER	item41	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.31	220KV GIS CIRCUIT BREAKER-COMplete SPRING OPERATING MECHANISMINCLUDING CHARGING MECHANISM ETC. (FOR SPRING OPERATED MECHANISM, IFAPPLICABLE)	item42	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.32	220KV GIS CIRCUIT BREAKER- COMPLETE HYDRAULIC-SPRING OPERATINGMECHANISM INCLUDING CHARGING MECHANISM ETC. (FOR HYDRAULIC-SPRINGOPERATED MECHANISM, IF APPLICABLE)	item43	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.33	PRESSURE SWITCHES OF EACH TYPE (FOR HYDRAULIC-SPRING OPERATEDMECHANISM, IF APPLICABLE)- 220KV GIS CIRCUIT BREAKER	item44	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)-220KV GIS CIRCUIT BREKAER	item45	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.35	220kv GIS- Three phase of 2000Adisconnector switch including maincircuit, enclosure, driving mechanismand support insulator etc., complete inall respect	item46	4	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.36	220kv GIS- Three phase of 3500A disconnector switch including maincircuit, enclosure, driving mechanism and support insulator etc.,complete in all respect	item47	2	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.37	220KV GIS- THREE PHASE MAINTENANCE EARTHING SWITCH INCLUDING MAINCIRCUIT, ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC.,COMPLETE IN ALL RESPECT	item48	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.38	220KV GIS - THREE PHASE FAST EARTHING SWITCH INCLUDING MAIN CIRCUIT,ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC., COMPLETE INALL RESPECT	item49	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 220KV GIS DISCONNECTORSWITCH	item50	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
3.40	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	item51	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.41	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	item52	1	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 FORDISCONNECTOR-220KV GIS	item53	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 FORMAINTENANCE EARTHING SWITCH-220KV GIS	item54	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.44	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR FASTEARTHING SWITCH (IF APPLICABLE)-220KV GIS	item55	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.45	DRIVE MECHANISM FOR 220KV GIS DISCONNECTOR SWITCH	item56	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.46	DRIVE MECHANISM FOR 220KV GIS MAINTENANCE EARTH SWITCH	item57	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.47	DRIVE MECHANISM FOR 220KV GIS FAST EARTHING SWITCH	item58	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.48	MOTOR FOR DRIVE MECHANISM FOR 220KV GIS DISCONNECTOR SWITCH	item59	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.49	MOTOR FOR DRIVE MECHANISM FOR 220KV GIS MAINTENANCE EARTH SWITCH	item60	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.50	MOTOR FOR DRIVE MECHANISM FOR 220KV GIS FAST EARTHING SWITCH	item61	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.51	220KV GIS- SINGLE PHASE VT WITH ASSOCIATED ENCLOSURE COMPLETE IN ALLRESPECT	item62	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.52	220KV GIS- 01 NO. (EACH TYPE) OF 3500A SINGLE PHASE OF CURRENT TRANSFORMER (5 CORES) WITHASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALL RESPECT	item63	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.53	220KV GIS- 01 NO. (EACH TYPE) OF 2000A SINGLE PHASE OF CURRENT TRANSFORMER (5 CORES) WITHASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALL RESPECT	item64	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.54	SF6 PRESSURE GAUGE CUM SWITCH /DENSITY MONITORS AND PRESSURE SWITCH AS APPLICABLE, OF EACH TYPE 220KV GIS	item65	3	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
4.01	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. Bidder 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) (For item sl. No. 4.01-4.02): SUPPLY- GIS: SPARES: 220KV, EXPANSION JOINTS	item66	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.02	SUPPLY- GIS: SPARES: 220KV, L-BEND	item67	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.01	SERVICES- GIS : 220KV, GAS INSULATED SWITCHGEAR (GIS) AS PER TS (For item sl. No. 5.01-5.08): SERVICES- 220KV GIS: SUPERVISION OF ERECTION OF GIS	item68	5	Bays	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.02	SERVICES- 220KV GIS: SUPERVISION OF ERECTION OF GAS INSULATED BUS DUCT 1 PHASE	item69	350	MTR	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.03	SERVICES- 220KV GIS: SUPERVISION OF ERECTION OF SINGLE PHASE, SF6 TO AIR BUSHING	item70	12	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.04	SERVICES- 220KV GIS: TESTING & COMMISSIONING OF GIS	item71	5	Bays	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.05	SERVICES- 220KV GIS : TESTING & COMMISSIONING OF OF GAS INSULATED BUS DUCT 1 PHASE	item72	350	MTR	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.06	SERVICES- 220KV, TESTING & COMMISSIONING OF SINGLE PHASE, SF6 TO AIR BUSHING	item73	12	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.07	SERVICES- 220KV GIS : FINAL SUCCESSFUL HV/ POWER FREQUENCY TESTING OF GIS INCLUDING ARRANGING OF HV TEST KIT ALONG WITH OPERATOR	item74	5	Bays	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.08	SERVICES- 220KV GIS : INSULATION CO-ORDINATION STUDIES FOR GIS SYSTEM	item75	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
6.01	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) (For item sl. No. 6.01-6.05): SERVICES- 220KV GIS: REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR SUPERVISION OF ERECTION OF GIS	item76	10	MANDAY	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.02	SERVICES- 220KV GIS: REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR TESTING & COMMISSIONING OF GIS	item77	10	MANDAY	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.03	SERVICES- 220KV GIS: DEMOBILIZATION AND REMOBILIZATION CHARGES FOR GIS ERECTION SUPERVISION TEAM	item78	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.04	SERVICES- 220KV GIS: DEMOBILIZATION AND REMOBILIZATION CHARGES FOR GIS TESTING & COMMISSIONING TEAM	item79	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.05	SERVICES- 220KV GIS: DEMOBILIZATION & REMOBILIZATION CHARGES OF HV TEST KIT ALONG WITH OPERATOR	item80	1	Lot	INR			0.00			0.00		0.000	0.000	INR Zero Only
Total in Figures													0.000	0.000	Zero Only
oted Rate in Words		INR Zero Only													