



# Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Transmission Business Group

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## CORRIGENDUM - 02 TO NIT NO-83362

**Dated 08-07-2024**

**Subject: Corrigendum-02 to Tender enquiry for Pre Bid Tie up with the GIS OEM for Supply & Services of 400KV GIS for HTPS KORBA WEST Tender / Project.**

Project : 2X660 MW HTPS Korba West  
Equipment / Item : Supply & Services of 400kV GIS  
Enquiry No/Date : Enquiry No\_61Q2500150 Dtd: 24-06-2024  
BHEL NIT NO : 83362  
**Original Tender due date : 05-07-2024**

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

A) Issuance of Technical Corrigendum Rev-01 (enclosed). Due to change in BOQ, Revised price bid format (unpriced) is also enclosed and same need to be followed for bid submission.

B) Bidder to submit offer directly to **TENDER BOX only through email** on **tbmmtenderbox@bhel.in** for part- 1 bid (i.e. techno-commercial bid) & **tbmmtender.pricebidbox@bhel.in** for Part-2 (i.e. PRICE BID)

C) Tender submission and opening is 10-07-2024, 11:00/ 16:00 Hrs shall remain same.

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

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

Note: Tender ID on CPP Portal is **2024\_BHEL\_37394\_1**.

Thanking you

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

Gaurav Agarwal  
BHEL TBG, NOIDA

**Ref. No.**      **Technical Corrigendum-01**

**Project:**      **Pre Bid Tie up for,  
EPC Package for Design, Engineering, Manufacturing, Supply, Erection, Testing  
And Commissioning of 400kV GIS Switchyard of 2 X 660 Mw Super Critical Thermal Power Project, HTPS, CSPGCL Korba West**

**Date:**        **08.07.2024**

Sl. No.	Volume/ Section/ Clause	Volume/ Section/ Clause as Existing	Volume/ Section/ Clause as Amended/ Added in Technical Corrigendum-01
1	Section 1/ Part B	Clause No. 1/ BILL OF QUANTITIES_ANNEXURE: BOQ REV00_400kV GIS_CSPGCL KORBA	Please refer Clause No. 1/ BILL OF QUANTITIES_ANNEXURE: BOQ REV01_400kV GIS_CSPGCL KORBA (Please refer revised BOQ)

**Note:**

1. The changes/ revision are marked/ highlighted in yellow.
2. Amendment/ addendum/ clarification/ corrigendum issued herein shall form part of Technical Specification.

Bidders to please note that amendment/addendum/ clarification/ corrigendum issued shall supersede the respective Volume/ Section/ Clause of Technical Specification Document to the extent for the Volume/ Section/ Clause or part thereof the amendment is issued.

Sl. No.	Item Description	Unit	Qty.	Remarks
1.0	SUPPLY- GIS: 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS (Two bus with One & Half Breaker Scheme)			
1.01	GIS SUPPLY: 400KV, 3150A, 63 kA, SF6 GIS BUS BAR MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS	SET	2	
1.02	GIS SUPPLY: 400KV, 63 kA, SF6 BUS PT BAY MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS	SET	2	400kV PT BAY MODULE shall include following but not limited to, (a) 1 SET- 1 NO x3 phase Disconnecter with Double Maintenance Grounding Switch, complete with operating mechanism. (b) 3 NO- 1 phase multi winding Voltage Transformer In addition to above, Gas device, UHF sensors, Pressure Switches, Expansion joints/ Flexible connections, Insulators etc. as applicable shall be included, however, Controlled Switching Device (CSD), Surge Arrester with counter, Online PD Monitoring System, Local Control Cubicle and End Terminations, if applicable shall be covered separately. GIS shall be complete with all necessary terminal boxes, inspection windows, SF6 gas, grounding connection, pipings for gas monitoring system, trays, support structures with mounting hardware, walkways, interconnecting cables with glands, ferrules, lugs etc. Please refer section-2 (TS for 400kV GIS)- Technical Specification.
1.03	GIS BAY SUPPLY: 400kV, 3150A, 63 kA, SF6 GIS GT FEEDER BAY MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS	SET	2	400kV GIS BAY MODULE shall include following but not limited to, (a) 1 SET- 1 NO x3 phase Circuit Breaker compatible for Controlled Switching Facility, complete with operating mechanism (b) 3 SET- 1 NO x3 phase Disconnecter, complete with operating mechanism. (c) 3 SET- 1 NO x3 phase Maintenance Grounding Switch, complete with operating mechanism. (d) 6 NO- 1 phase multi ratio Current Transformer (f) 3 NO- 1 phase multi ratio Current Transformer for metering purpose In addition to above, Gas device, UHF sensors, Pressure Switches, Expansion joints/ Flexible connections, Insulators etc. as applicable, however, Controlled Switching Device (CSD), Surge Arrester with counter, Online PD Monitoring System, Local Control Cubicle and End Terminations, if applicable shall be covered separately. GIS shall be complete with all necessary terminal boxes, inspection windows, SF6 gas, grounding connection, pipings for gas monitoring system, trays, support structures with mounting hardware, walkways, interconnecting cables with glands, ferrules, lugs etc. Please refer section-2 (TS for 400kV GIS)- Technical Specification.
1.04	GIS BAY SUPPLY: 400kV, 3150A, 63 kA, SF6 GIS ST FEEDER BAY MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS	SET	2	400kV GIS BAY MODULE shall include following but not limited to, (a) 1 SET- 1 NO x3 phase Circuit Breaker compatible for Controlled Switching Facility, complete with operating mechanism. (b) 3 SET- 1 NO x3 phase Disconnecter, complete with operating mechanism. (c) 3 SET- 1 NO x3 phase Maintenance Grounding Switch, complete with operating mechanism. (d) 6 NO- 1 phase multi ratio Current Transformer (e) 3 NO- 1 phase multi ratio Current Transformer for metering purpose In addition to above, Gas device, UHF sensors, Pressure Switches, Expansion joints/ Flexible connections, Insulators etc. as applicable, however, Controlled Switching Device (CSD), Surge Arrester with counter, Online PD Monitoring System, Local Control Cubicle and End Terminations, if applicable shall be covered separately. GIS shall be complete with all necessary terminal boxes, inspection windows, SF6 gas, grounding connection, pipings for gas monitoring system, trays, support structures with mounting hardware, walkways, interconnecting cables with glands, ferrules, lugs etc. Please refer section-2 (TS for 400kV GIS)- Technical Specification.
1.05	GIS BAY SUPPLY: 400kV, 3150A, 63 kA, SF6 GIS LINE FEEDER BAY MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS	SET	2	400kV GIS BAY MODULE shall include following but not limited to, (a) 1 SET- 1 NO x3 phase Circuit Breaker compatible for Controlled Switching Facility, complete with operating mechanism. (b) 3 SET- 1 NO x3 phase Disconnecter, complete with operating mechanism. (c) 2 SET- 1 NO x3 phase Maintenance Grounding Switch, complete with operating mechanism. (d) 1 SET- 1 NO x3 phase Fast Acting Earthing Switch, complete with operating mechanism. (e) 6 NO- 1 phase multi ratio Current Transformer (f) 3 NO- 1 phase multi ratio Current Transformer for metering purpose In addition to above, Gas device, UHF sensors, Pressure Switches, Expansion joints/ Flexible connections, Insulators etc. as applicable, however, Controlled Switching Device (CSD), Surge Arrester with counter, Online PD Monitoring System, Local Control Cubicle and End Terminations, if applicable shall be covered separately. GIS shall be complete with all necessary terminal boxes, inspection windows, SF6 gas, grounding connection, pipings for gas monitoring system, trays, support structures with mounting hardware, walkways, interconnecting cables with glands, ferrules, lugs etc. Please refer section-2 (TS for 400kV GIS)- Technical Specification.
1.06	GIS BAY SUPPLY: 400kV, 3150A, 63 kA, SF6 GIS LINE FEEDER BAY MODULE FOR INTERCONNECTION WITH EXISTING SWITCHYARD (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS	SET	1	400kV GIS BAY MODULE shall include following but not limited to, (a) 1 SET- 1 NO x3 phase Circuit Breaker compatible for Controlled Switching Facility, complete with operating mechanism. (b) 3 SET- 1 NO x3 phase Disconnecter, complete with operating mechanism. (c) 2 SET- 1 NO x3 phase Maintenance Grounding Switch, complete with operating mechanism. (d) 1 SET- 1 NO x3 phase Fast Acting Earthing Switch, complete with operating mechanism. (e) 6 NO- 1 phase multi ratio Current Transformer (f) 3 NO- 1 phase multi ratio Current Transformer for metering purpose In addition to above, Gas device, UHF sensors, Pressure Switches, Expansion joints/ Flexible connections, Insulators etc. as applicable, however, Controlled Switching Device (CSD), Surge Arrester with counter, Online PD Monitoring System, Local Control Cubicle and End Terminations, if applicable shall be covered separately. GIS shall be complete with all necessary terminal boxes, inspection windows, SF6 gas, grounding connection, pipings for gas monitoring system, trays, support structures with mounting hardware, walkways, interconnecting cables with glands, ferrules, lugs etc. Please refer section-2 (TS for 400kV GIS)- Technical Specification.
1.07	GIS BAY SUPPLY: 400kV, 3150A, 63 kA, SF6 GIS TIE FEEDER BAY MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS	SET	4	400kV GIS BAY MODULE shall include following but not limited to, (a) 1 SET- 1 NO x3 phase Circuit Breaker compatible for Controlled Switching Facility, complete with operating mechanism. (b) 2 SET- 1 NO x3 phase Disconnecter, complete with operating mechanism. (c) 4 SET- 1 NO x3 phase Maintenance Grounding Switch, complete with operating mechanism. (d) 6 NO- 1 phase multi ratio Current Transformer In addition to above, Gas device, UHF sensors, Pressure Switches, Expansion joints/ Flexible connections, Insulators etc. as applicable, however, Controlled Switching Device (CSD), Surge Arrester with counter, Online PD Monitoring System, Local Control Cubicle and End Terminations, if applicable shall be covered separately. GIS shall be complete with all necessary terminal boxes, inspection windows, SF6 gas, grounding connection, pipings for gas monitoring system, trays, support structures with mounting hardware, walkways, interconnecting cables with glands, ferrules, lugs etc. Please refer section-2 (TS for 400kV GIS)- Technical Specification.
1.08	GIS BAY SUPPLY: 400kV, 3150A, 63 kA, SF6 GIS BUS REACTOR FEEDER BAY MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS	SET	1	400kV GIS BAY MODULE shall include following but not limited to, (a) 1 SET- 1 NO x3 phase Circuit Breaker compatible for Controlled Switching Facility, complete with operating mechanism. (b) 3 SET- 1 NO x3 phase Disconnecter, complete with operating mechanism. (c) 2 SET- 1 NO x3 phase Maintenance Grounding Switch, complete with operating mechanism. (d) 1 SET- 1 NO x3 phase Fast Acting Earthing Switch, complete with operating mechanism. (e) 6 NO- 1 phase multi ratio Current Transformer In addition to above, Gas device, UHF sensors, Pressure Switches, Expansion joints/ Flexible connections, Insulators etc. as applicable, however, Controlled Switching Device (CSD), Surge Arrester with counter, Online PD Monitoring System, Local Control Cubicle and End Terminations, if applicable shall be covered separately. GIS shall be complete with all necessary terminal boxes, inspection windows, SF6 gas, grounding connection, pipings for gas monitoring system, trays, support structures with mounting hardware, walkways, interconnecting cables with glands, ferrules, lugs etc. Please refer section-2 (TS for 400kV GIS)- Technical Specification.
1.09	GIS SUPPLY: 400KV, ONLINE PD MONITORING SYSTEM (OPMS) FOR 400KV GIS SYSTEM	Lot	1	Please refer section-2 (TS for 400kV GIS)- Technical Specification.
1.10	GIS SUPPLY: 400KV, CONTROLLED SWITCHING DEVICE (CSD) FOR 420KV, 3- PH CIRCUIT BREAKER	SET	6	It is considered for ST & BR BAYS WITH ASSOCIATED TIE BAYS. 1 SET= 1 NO. OF EACH TYPE & RATING Please refer section-2 (TS for 400kV GIS)- Technical Specification.
1.11	SUPPLY- GIS : 400KV, 3150A, 1 PHASE GAS INSULATED BUS DUCT (INCLUDING SF6 GAS, STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	MTRS	1100	Please refer section-2 (TS for 400kV GIS)- Technical Specification.

Sl. No.	Item Description	Unit	Qty.	Remarks
1.12	GIS SUPPLY: 400KV, 3150A, 1 PHASE SF6 TO AIR BUSHING (POLYMER) (INCLUDING SF6 GAS, STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	SET	24	1 SET= 1 NO. OF EACH TYPE & RATING Please refer section-2 (TS for 400kV GIS)- Technical Specification. It is considered for LINE FEEDER BAYS only.
1.13	GIS SUPPLY: 390KV, 20kA, CLASS-4, 1 PHASE SURGE ARRESTER WITH SURGE COUNTER (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS)	SET	6	Please refer section-2 (TS for 400kV GIS)- Technical Specification. 1 SET= 1 NO. OF EACH TYPE & RATING It is considered for BUS BAR MODULE only, however, no. of surge arrester, its excat rating and location shall be decided based on insulation coordination/ transient studies.
1.14	GIS SUPPLY: LOCAL CONTROL CUBICLES	SET	12	Please refer section-2 (TS for 400kV GIS)- Technical Specification. It is considered for GIS BAYS only.
<b>2.0</b>	<b>SUPPLY- GIS: SPECIAL TOOLS AND TESTING &amp; MAINTENANCE INSTRUMENTS AS PER TS</b>			
2.01	GIS SUPPLY: SF6 GAS FILLING AND EVACUATING EQUIPMENT (PORTABLE)	NO.	1	Please refer section-2 (TS for 400kV GIS)- Technical Specification.
2.02	GIS SUPPLY: SF6 GAS FILTERING, DRYING, STORAGE AND RECYCLING PLANT	NO.	1	Please refer section-2 (TS for 400kV GIS)- Technical Specification.
2.03	GIS SUPPLY: SF6 GAS LEAK DETECTOR	NO.	1	Please refer section-2 (TS for 400kV GIS)- Technical Specification.
2.04	GIS SUPPLY: OPERATIONAL ANALYSER WITH DCRM KIT	NO.	1	Please refer section-2 (TS for 400kV GIS)- Technical Specification.
2.05	GIS SUPPLY: SELF-POWERED HYDRAULIC AERIAL WORKING-PLATFORM WITH ARTICULATED AND FLY BOOM FOR GENERAL-PURPOSE MAINTENANCE IN SWITCHYARD AND TRANSFORMER-YARD. (SUITABLE FOR 24M WORKING HEIGHT)	NO.	4	Please refer section-2 (TS for 400kV GIS)- Technical Specification.
2.05	GIS SUPPLY: DEW POINT METER	NO.	1	Please refer section-2 (TS for 400kV GIS)- Technical Specification.
2.06	GIS SUPPLY: PORTABLE PD MONITORING SYSTEM FOR GAS INSULATED SWITCHGEAR	NO.	1	Please refer section-2 (TS for 400kV GIS)- Technical Specification.
2.07	GIS SUPPLY: SF6 GAS ANALYZING EQUIPMENT AND INSTRUMENT	NO.	1	Please refer section-2 (TS for 400kV GIS)- Technical Specification.
2.08	GIS SUPPLY: PORTABLE LEAKAGE CURRENT ANALYZER (FOR GAPLESS SURGE ARRESTER)	NO.	1	Please refer section-2 (TS for 400kV GIS)- Technical Specification.
2.09	GIS SUPPLY: HYDRAULIC PORTABLE TYPE LADDER	NO.	1	Please refer section-2 (TS for 400kV GIS)- Technical Specification.
<b>3.0</b>	<b>SPARES- GIS: 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS</b>			
3.01	GIS SPARES: 400kV GIS- SF6 Gas Pressure Relief Devices of each type along with O-Rings	NO.	3	
3.02	GIS SPARES: 400kV GIS- SF6 Pressure gauge with coupling device cum switch or density monitors and pressure gauge, as applicable (of each type)	LOT	1	1 SET= 5% of total population (Max. 5 nos and min.1 nos)
3.03	GIS SPARES: 400kV GIS- Coupling device of each type for pressure gauge cum switch for connecting Gas handling plant	SET	2	
3.04	GIS SPARES: 400kV GIS- Rubber gaskets,"O"Rings and seals for SF6 gas, including Circuit Breaker, Disconnecter and other GIS equipment	SET	3	
3.05	GIS SPARES: 400kV GIS- Molecular filter for SF6 gas with filter bags	SET	1	1 SET= 5% of Total weight
3.06	GIS SPARES: 400kV GIS- All type of control valves for SF6 gas of each type	SET	3	
3.07	GIS SPARES: 400kV GIS- SF6 gas cylinder of 50Kgs/ cylinder	LOT	1	LOT 1= 20% of total gas qty
3.08	GIS SPARES: 400kV GIS- Locking device to keep the Dis-connectors and Earthing switches in close or open position in case of removal of the driving mechanism (If applicable)	NO.	3	
3.09	GIS SPARES: 400kV GIS- Spares for Local control cabinet including MCB, fuses, timers, Aux Relays, contactors, push buttons, switches, lamps, annunciation windows etc of each type & rating, terminals of each type (Set)	SET	2	
3.10	GIS SPARES: 400kV GIS- UHF PD sensors of each type, if applicable	LOT	1	LOT 1= 5% of total population (max 5nos and min 1no)
3.11	GIS SPARES: 400kV GIS- Bus Support insulator / gas Barrier of each type along with associated contacts and shields	NO.	5	
3.12	GIS SPARES: 400kV GIS- SF6 to air bushing of each type & rating along with conductor and enclosure for 1 phase enclosure	NO.	1	
3.13	GIS SPARES: 400kV GIS- All types of Corona shield	SET	1	1 SET= 3 No. of each type
3.14	GIS SPARES: 400kV GIS Circuit Breaker- One complete pole (1phase unit ) of circuit breaker including CSD/Closing resistor, grading capacitor(as applicable), of each type & rating complete with , interrupter, main circuit , enclosure and marshalling Box with operating Mechanism to enable replacement of any type / rating of CB by spare	SET	1	1 SET= 1 No. of each type & rating
3.15	GIS SPARES: 400kV GIS Circuit Breaker- Tripping coils assembly with resistors as applicable	SET	2	1 SET= 3 No. of each type
3.16	GIS SPARES: 400kV GIS Circuit Breaker- closing coil assembly with resistor as applicable (3nos of each type)	SET	2	1 SET= 3 No. of each type

Sl. No.	Item Description	Unit	Qty.	Remarks
3.17	GIS SPARES: 400kV GIS Circuit Breaker- Relays, Power contactors, push buttons, timers & MCBs etc of each type & rating( If applicable)	SET	1	
3.18	GIS SPARES: 400kV GIS Circuit Breaker- Aux. switch assembly	SET	1	1 SET= 3 No. of each type
3.19	GIS SPARES: 400kV GIS Circuit Breaker- Operation counter	SET	1	1 SET= 3 No. of each type
3.20	GIS SPARES: 400kV GIS Circuit Breaker- Window scope/ Observing window, if applicable	SET	1	1 SET= 3 Nos. of each type
3.21	GIS SPARES: 400kV GIS Circuit Breaker-Spare of Hydraulic operated mechanism if Applicable: a. Hydraulic operating mechanism with drive Motor of each type- 1 no. b. Ferrules and joints & couplings of each type- 1 Set c. Hydraulic Filter of each type- 1 Sets d. High Pressure Hose of each type- 1 Set e. N2 accumulator of each type- 2 No. f. Pressure Transducers- 1No. g. Valves of each type- 1 Set h. Orings, gaskets and seals- 1 Set i. Pressure gauges with coupling device of each type- 1 Set j. Hydraulic oil- 20% of total used quantity in substation k. Limit switch- 1 no. of each type l. Pipe length (Copper & steel) of each size & type-1set m. Pressure switch of each type-2nos n. Pressure Relief device of each type- 1set	LOT	1	1 LOT= 1 Set for each type of Circuit Breaker
3.22	GIS SPARES: 400kV GIS Circuit Breaker- Complete Spring operating Mechanism including charging mechanism etc of each type & rating if applicable	SET	1	
3.23	GIS SPARES: 400kV GIS Circuit Breaker- Spring charging motor of each type & rating	NO.	2	
3.24	GIS SPARES: 400kV GIS Disconnecter- Complete set of 3 nos. of single phase/ one 3- ph isolator of each type, dimension, current & voltage rating including main circuit, enclosure, driving mechanism and support insulator etc. to enable replacement of any type/ rating of isolator by spare	SET	1	
3.25	GIS SPARES: 400kV GIS Disconnecter- Complete set of 3 nos. of single phase/ one3-ph Maintenance earthing switch of each type, dimension, current & voltage rating including main circuit , enclosure , driving mechanism and support insulator etc to enable replacement of any type / rating of isolator by spare	SET	1	
3.26	GIS SPARES: 400kV GIS Disconnecter- Complete set of 3 nos. of single phase / one 3-ph Fast earthing switch of each type, dimension, current & voltage rating including main circuit, enclosure, driving mechanism and support insulator etc. to enable replacement of any type / rating of isolator by spare	SET	1	
3.27	GIS SPARES: 400kV GIS Disconnecter- Copper Contact fingers for isolator male & female contact along with corona shield -for one complete (3 phase) isolator of each type and rating	SET	1	
3.28	GIS SPARES: 400kV GIS Disconnecter- Copper Contact fingers for Maintenance earthing switch male & female contact along with corona shield -for one complete (3 phase) isolator of each type and rating	SET	1	
3.29	GIS SPARES: 400kV GIS Disconnecter- Copper Contact fingers for Fast earthing switch male & female contact along with corona shield -for one complete ( 3phase) isolator of each type and rating, If Applicable	SET	1	
3.30	GIS SPARES: 400kV GIS Disconnecter- Open/ close contactor assembly, timers, key interlock, interlocking coils, relays , push buttons indicating lamps , power contactors, resistors, fuses MCBs & drive control cards etc for one complete MOM box ( 3-ph gang operated or 1-ph unit ) disconnecter and ( 3 ph) earthing switch of each type and rating for one complete (3 ph) disconnecter and earthing switch of each type & rating, if applicable a) For Disconnecter- 1SET b) For Maintenance Earth switch- 1SET c) For Fast Earthing switch- 1SET	LOT	1	
3.31	GIS SPARES: 400kV GIS Disconnecter- Limit switches and Aux. switches for complete 3-phase equipment, a) For Disconnecter- 1SET b) For earth switch- 1 SET c) For high-speed earth switch- 1SET	LOT	1	
3.32	GIS SPARES: 400kV GIS Disconnecter- Drive Mechanism of each type, a) For isolator- 1SET b) For Maintenance Earth switch- 1SET c) For Fast Earthing switch- 1SET	LOT	1	
3.33	GIS SPARES: 400kV GIS Disconnecter- Motor Drive Mechanism of each type, a) For isolator- 1SET b) For Maintenance Earth switch- 1SET c) For Fast Earthing switch- 1SET	LOT	1	
3.34	GIS SPARES: 400kV GIS Current Transformer- Complete CT, of each type and with enclosure to enable replacement of any type/ rating of CT as spare	SET	1	1 SET= 1 NO. of each type/ rating
3.35	GIS SPARES: 400kV GIS Voltage Transformer- Complete VT of each type and with enclosure to enable replacement of any type / rating of VT as spare	SET	1	1 SET= 1 NO. of each type/ rating
3.36	GIS SPARES: 400kV GIS Surge Arrestor- Complete Surge Arrestors of each type andwith enclosure with surge monitor counter to enable replacement of any type/ rating of VT as spare	SET	1	1 SET= 1 NO. of each type/ rating
3.37	GIS SPARES: 400kV GIS Surge Arrestor- Surge Monitor and counter of each type/ rating	SET	1	1 SET= 1 NO. of each type/ rating

Sl. No.	Item Description	Unit	Qty.	Remarks
4.0	<b>SPARES- GIS: REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS</b> (Unit Prices of Individual Equipment included here or in manadatory 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, OPERATING MECHANISM FOR CIRCUIT BREAKER COMPLETE IN ALL RESPECT	Set	1	
4.02	SUPPLY- GIS: SPARES: 400KV, OPERATING MECHANISM FOR DISCONNECTOR	Set	1	
4.03	SUPPLY- GIS: SPARES: 400KV, OPERATING MECHANISM FOR MAINTENANCE EARTHING SWITCH COMPLETE IN ALL RESPECT	Set	1	
4.04	SUPPLY- GIS: SPARES: 400KV, OPERATING MECHANISM FOR FAST ACTING/ HIGH SPEED GROUNDING SWITCH COMPLETE IN ALL RESPECT	Set	1	
4.05	SUPPLY- GIS: SPARES: 400KV, MAINTENANCE EARTHING SWITCH WITH ENCLOSURE COMPLETE IN ALL RESPECT	Set	1	1 SET= 1 NO. of POLE each type and each rating.
4.06	SUPPLY- GIS: SPARES: 400KV, FAST ACTING/ HIGH SPEED GROUNDING SWITCH WITH ENCLOSURE COMPLETE IN ALL RESPECT	Set	1	1 SET= 1 NO. of POLE each type and each rating.
4.07	SUPPLY- GIS: SPARES: 400KV, CURRENT TRANSFORMER (2 CORE) WITH ENCLOSURE COMPLETE IN ALL RESPECT	Set	1	1 SET= 1 NO. of each type and each rating.
4.08	SUPPLY- GIS: SPARES: 400KV, CURRENT TRANSFORMER (3 CORE) WITH ENCLOSURE COMPLETE IN ALL RESPECT	Set	1	1 SET= 1 NO. of each type and each rating.
4.09	SUPPLY- GIS: SPARES: 400KV, CURRENT TRANSFORMER (5 CORE) WITH ENCLOSURE COMPLETE IN ALL RESPECT	Set	1	1 SET= 1 NO. of each type and each rating.
4.10	SUPPLY- GIS: SPARES: 400KV, SINGLE PHASE BUS BAR	Mtrs	1	Complete in all respect.
4.11	SUPPLY- GIS: SPARES: 400KV, GIS METALLIC ENCLOSURE	Kgs	50	
4.12	SUPPLY- GIS: SPARES: 400KV, EXPANSION JOINTS	Set	1	1set= 1 nos. of each type and each rating.
4.13	SUPPLY- GIS: SPARES: 400KV, FLEXIBLE CONNECTIONS	Set	1	1set= 1 nos. of each type and each rating.
4.14	SUPPLY- GIS: SPARES: 400KV, BARRIER INSULATOR	Set	1	1set= 1 nos. of each type and each rating.
4.15	SUPPLY- GIS: SPARES: 400KV, NON-BARRIER INSULATOR	Set	1	1set= 1 nos. of each type and each rating.
4.16	SUPPLY- GIS: SPARES: 400KV, GAS SEALS	Set	1	1set= 1 nos. of each type and each rating.
4.17	SUPPLY- GIS: SPARES: 400KV, GAS DENSITY MONITOR SWITCH	Set	1	1set= 1 nos. of each type and each rating.
4.18	SUPPLY- GIS: SPARES: 400KV, GAS PRESSURE SWITCH	Set	1	1set= 1 nos. of each type and each rating.
4.19	SUPPLY- GIS: SPARES: 400KV, TEE BEND	Set	1	1set= 1 nos. of each type and each rating.
4.20	SUPPLY- GIS: SPARES: 400KV, ANGLE BEND	Set	1	1set= 1 nos. of each type and each rating.
4.21	SUPPLY- GIS: SPARES: 400KV, L-BEND	Set	1	1set= 1 nos. of each type and each rating.



Sl. No.	Description	Unit	Quantity	Remarks
5.0	SERVICES- GIS : 400KV, 63KA FOR IS, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
5.01	SERVICES- 400kV GIS: SUPERVISION OF ERECTION OF GIS	Bays	12	Supervision of erection of GIS with main bus, bus PT bat complete as per TS in all respect including LCC and its accessories. It also includes verification of materials for proper storage at site for final storage. Earthing, SF6 Gas Filing works, Internal Cabling from GIS to LCC, including Structure Works are covered under this item. GIS Bus Duct, SF6 to Air Bushing (SAB), Surge Arrester are not covered in this BOQ item.
5.02	SERVICES- 400kV GIS: SUPERVISION OF ERECTION OF 1-PHASE GAS INSULATED BUS DUCT	MTR	1100	Supervision of erection of GIB complete as per TS in all respect. GIB shall be considered from first equipment of GIS. Earthing, SF6 Gas Filing works, Internal Cabling including Structure Works are covered under this item.
5.03	SERVICES- 400kV GIS: SUPERVISION OF ERECTION OF 1 PHASE SF6 TO AIR BUSHING	SET	24	Earthing, SF6 Gas Filing works, including Structure Works are covered under this item.
5.04	SERVICES- 400kV GIS: SUPERVISION OF ERECTION OF 1 PHASE SURGE ARRESTER WITH SURGE COUNTER	SET	6	Earthing, SF6 Gas Filing works, including Structure Works are covered under this item.
5.05	SERVICES- 400kV GIS: TESTING & COMMISSIONING OF GIS	Bays	12	Testing and commissioning of complete GIS system including main bus, LCC and associated system (LA, VT, CSD etc.) is to be executed by bidder. All the special testing instruments, kits, T&P etc. are to be arranged by bidder on returnable basis. Please refer relevant section of technical specification for details.
5.06	SERVICES- 400kV GIS : TESTING & COMMISSIONING OF GAS INSULATED BUS DUCT	MTR	1100	Testing and commissioning of GIB complete as per TS in all respect. GIB shall be considered from first equipment of GIS. All the special 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- 400kV GIS : FINAL SUCCESSFUL HV/ POWER FREQUENCY TESTING OF GIS INCLUDING ARRANGING OF HV TEST KIT ALONG WITH OPERATOR	Bays	12	Carrying out successful HV/ Power Frequency Testing of GIS as per IEC including Arrangement of HV Test kit with operator (on returnable basis) shall be in scope of bidder, which includes charges of HV test kit with operator, accessories & tools required for completion of HV testing. The quoted price shall include GIS bays including Main Bus, GIB, SAB, SOB and other common items as per TS complete in all respect. In this BOQ item, mobilization and demobilization for HV test kit is considered for once. In case of more, for reasons not attributable to bidder, same shall be paid extra as per BOQ Item.
5.08	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.
5.09	SERVICES- 400kV GIS : TRAINING FOR GIS AT MANUFACTURER WORKS (MIN. 8 NO. CUSTOMER/ BHEL OFFICIAL)	DAY	5	GIS equipments including system description, Basic Design and engineering, Quality Assurance concepts, Erection and operational aspects for the offered equipments. Boarding & Lodging shall be borne by Bidder.
5.10	SERVICES- 400kV GIS : TRAINING FOR GIS AT SITE (MIN. 6 NO. CUSTOMER/ BHEL OFFICIAL)	DAY	5	Operation, Maintenance, Site Testing and Trouble shooting for GIS.
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)			

Sl. No.	Description	Unit	Quantity	Remarks
6.01	SERVICES- 400kV GIS: REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - <b>SERVICES FOR SUPERVISION OF ERECTION OF GIS</b>	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 - <b>SERVICES FOR TESTING &amp; COMMISSIONING OF GIS</b>	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 <b>ERECTION SUPERVISION TEAM</b>	Set	2	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 <b>TESTING &amp; COMMISSIONING TEAM</b>	Set	2	BOQ ITEM SHALL BE PAYABLE IF REQUIRED FOR REASONS NOT ATTRIBUTE TO BIDDER. HV TESTING IS NOT PART OF THIS ITEM.
6.05	SERVICES- 400kV GIS: DEMOBILIZATION & REMOBILIZATION CHARGES OF <b>HV TEST KIT</b> 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. HV testing charges shall be paid per bay basis as per main HV testing charge.
6.06	SERVICES- 400kV GIS: TYPE TEST CHARGES FOR 400KV GIS (AS PER ANNEXURE- BREAK UP OF TYPE TEST CHARGES FOR 400KV GIS)	Lot	1	Unit rate against each type test shall be be quoted and total amount shall be quoted against this itm.



Annexure- Breakup of Type test charges for 400kV GIS

The following type tests on typical 400kV GIS (As Applicable) GIS bay module as per IEC 62271-203. The components forming parts of the GIS which are covered by other standards shall comply with and shall be type tested according to those standards.

Sl. No.	Description of Test	Number of Type/ Rating	Charges for one Type/ Rating (Rs.)	Total Price (Rs.)
A.	<b>The following type tests on typical 400kV (As Applicable)</b> GIS bay module as per IEC 62271-203. The components forming parts of the GIS which are covered by other standards shall comply with and shall be type tested according to those standards			
(i)	Lightning impulse voltage dry tests.			
(ii)	Switching impulse voltage dry tests.			
(iii)	Power frequency voltage dry tests.			
(iv)	Partial discharge tests.			
(v)	Test to prove the temperature rise of any part of the equipment and measurement of the resistance of the main circuit.			
(vi)	Test to prove the ability of the main circuit and earthing circuit to carry the rated peak and the rated short time withstand current.			
(vii)	Test to verify the making and breaking capacity of the included switching devices.			
(viii)	Test for satisfactory operation of the included switching devices.			
(ix)	Test to prove the strength of enclosures.			
(x)	Gas tightness tests			
(xi)	Electromagnetic capability test ( EMC)			
(xii)	Test on partitions			
(xiii)	Internal arc tests			
(xiv)	Mechanical operation tests.			
(xv)	Test to prove the satisfactory operation at limit temperature.			
(xvi)	Verification of degree of protection of auxiliary and control circuit			
(xvii)	Test to prove performance under thermal cycling and gas tightness test on gas barrier insulators			
(xviii)	Capacitive Current switching test			
(xix)	Shunt reactor current switching test			
B	<b>For surge arrestor and Bus VT following type tests as per relevant IEC. 400kV (As Applicable) Surge Arrestor (As per IEC 60099-4)</b>			
(a)	Insulation withstand test on housing			
(b)	Residual voltage test			
(c)	Long duration current impulse withstand test			
(d)	Operating duty test			
(e)	Partial Discharge Test			
(f)	Leakage Test			
C	<b>400kV (As Applicable) Bus VT (As per IEC 60044-2)</b>			
(a)	Temperature rise test			
(b)	Lighting Impulse test			
(c)	Switching Impulse test			
(d)	Determination of errors			
(e)	Short circuit withstand capability			
				<b>Total (Rs.):</b>

Tender Inviting Authority: BHEL TBG Noida

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
1.01	GIS SUPPLY: 400KV, 3150A, 63 ka, SF6 GIS BUS BAR MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS	item1	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.02	GIS SUPPLY: 400KV, 63 ka, SF6 BUS PT BAY MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS	item2	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.03	GIS BAY SUPPLY: 400kv, 3150A, 63 ka, SF6 GIS GT FEEDER BAY MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS	item3	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.04	GIS BAY SUPPLY: 400kv, 3150A, 63 ka, SF6 GIS ST FEEDER BAY MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS	item4	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.05	GIS BAY SUPPLY: 400kv, 3150A, 63 ka, SF6 GIS LINE FEEDER BAY MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS	item5	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.06	GIS BAY SUPPLY: 400kv, 3150A, 63 ka, SF6 GIS LINE FEEDER BAY MODULE FOR INTERCONNECTION WITH EXISTING SWITCHYARD (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS	item6	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.07	GIS BAY SUPPLY: 400kv, 3150A, 63 ka, SF6 GIS TIE FEEDER BAY MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS	item7	4	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.08	GIS BAY SUPPLY: 400kv, 3150A, 63 ka, SF6 GIS BUS REACTOR FEEDER BAY MODULE (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS) AS PER TS	item8	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.09	GIS SUPPLY: 400KV, ONLINE PD MONITORING SYSTEM (OPMS) FOR 400KV GIS SYSTEM	item9	1	Lot	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.10	GIS SUPPLY: 400KV, CONTROLLED SWITCHING DEVICE (CSD) FOR 420KV, 3- PH CIRCUIT BREAKER	item10	6	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.11	SUPPLY- GIS : 400KV, 3150A, 1 PHASE GAS INSULATED BUS DUCT (INCLUDING SF6 GAS, STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	item11	1100	MTRS	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.12	GIS SUPPLY: 400KV, 3150A, 1 PHASE SF6 TO AIR BUSHING (POLYMER) (INCLUDING SF6 GAS, STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	item12	24	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.13	GIS SUPPLY: 390KV, 20ka, CLASS-4, 1 PHASE SURGE ARRESTER WITH SURGE COUNTER (INCLUDING SF6 GAS, STRUCTURE, HARDWARES & EARTHING MATERIALS)	item13	6	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.14	GIS SUPPLY: LOCAL CONTROL CUBICLES	item14	12	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG Noida

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2.01	GIS SUPPLY: SF6 GAS FILLING AND EVACUATING EQUIPMENT (PORTABLE)	item15	1	NO.	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.02	GIS SUPPLY: SF6 GAS FILTERING, DRYING, STORAGE AND RECYCLING PLANT	item16	1	NO.	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.03	GIS SUPPLY: SF6 GAS LEAK DETECTOR	item17	1	NO.	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.04	GIS SUPPLY: OPERATIONAL ANALYSER WITH DCRM KIT	item18	1	NO.	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.05	GIS SUPPLY: DEW POINT METER	item19	1	NO.	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.06	GIS SUPPLY: PORTABLE PD MONITORING SYSTEM FOR GAS INSULATED SWITCHGEAR	item20	1	NO.	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.07	GIS SUPPLY: SF6 GAS ANALYZING EQUIPMENT AND INSTRUMENT	item21	1	NO.	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.08	GIS SUPPLY: PORTABLE LEAKAGE CURRENT ANALYZER (FOR GAPLESS SURGE ARRESTER)	item22	1	NO.	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.09	GIS SUPPLY: HYDRAULIC PORTABLE TYPE LADDER	item23	1	NO.	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.01	GIS SPARES: 400kV GIS- SF6 Gas Pressure Relief Devices of each type along with O-Rings	item24	3	NO.	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.02	GIS SPARES: 400kV GIS- SF6 Pressure gauge with coupling device cum switch or density monitors and pressure gauge, as applicable (of each type)	item25	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.03	GIS SPARES: 400kV GIS- Coupling device of each type for pressure gauge cum switch for connecting Gas handling plant	item26	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.04	GIS SPARES: 400kV GIS- Rubber gaskets,“O”Rings and seals for SF6 gas, including Circuit Breaker, Disconnecter and other GIS equipment	item27	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.05	GIS SPARES: 400kV GIS- Molecular filter for SF6 gas with filter bags	item28	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
3.06	GIS SPARES: 400kV GIS- All type of control valves for SF6 gas of each type	item29	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.07	GIS SPARES: 400kV GIS- SF6 gas cylinder of 50Kgs/ cylinder	item30	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.08	GIS SPARES: 400kV GIS- Locking device to keep the Dis-connectors and Earthing switches in close or open position in case of removal of the driving mechanism (If applicable)	item31	3	NO.	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.09	GIS SPARES: 400kV GIS- Spares for Local control cabinet including MCB, fuses, timers, Aux Relays, contactors, push buttons, switches, lamps, annunciation windows etc of each type & rating, terminals of each type (Set)	item32	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.1	GIS SPARES: 400kV GIS- UHF PD sensors of each type, if applicable	item33	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.11	GIS SPARES: 400kV GIS- Bus Support insulator / gas Barrier of each type along with associated contacts and shields	item34	5	NO.	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.12	GIS SPARES: 400kV GIS- SF6 to air bushing of each type & rating along with conductor and enclosure for 1 phase enclosure	item35	1	NO.	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.13	GIS SPARES: 400kV GIS- All types of Corona shield	item36	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.14	GIS SPARES: 400kV GIS Circuit Breaker- One complete pole (1phase unit ) of circuit breaker including CSD/Closing resistor, grading capacitor(as applicable), of each type & rating complete with , interrupter, main circuit , enclosure and marshalling Box with operating	item37	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.15	GIS SPARES: 400kV GIS Circuit Breaker- Tripping coils assembly with resistors as applicable	item38	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.16	GIS SPARES: 400kV GIS Circuit Breaker- closing coil assembly with resistor as applicable (3nos of each type)	item39	2	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
3.17	GIS SPARES: 400kV GIS Circuit Breaker- Relays, Power contactors, push buttons, timers & MCBs etc of each type & rating( If applicable)	item40	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.18	GIS SPARES: 400kV GIS Circuit Breaker- Aux. switch assembly	item41	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.19	GIS SPARES: 400kV GIS Circuit Breaker- Operation counter	item42	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.2	GIS SPARES: 400kV GIS Circuit Breaker- Window scope/ Observing window, if applicable	item43	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.21	GIS SPARES: 400kV GIS Circuit Breaker-Spare of Hydraulic operated mechanism if Applicable: a. Hydraulic operating mechanism with drive Motor of each type- 1 no. b. Ferrules and joints & couplings of each type- 1 Set	item44	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.22	GIS SPARES: 400kV GIS Circuit Breaker- Complete Spring operating Mechanism including charging mechanism etc of each type & rating if applicable	item45	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.23	GIS SPARES: 400kV GIS Circuit Breaker- Spring charging motor of each type & rating	item46	2	NO.	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.24	GIS SPARES: 400kV GIS Disconnecter- Complete set of 3 nos. of single phase/ one 3- ph isolator of each type, dimension, current & voltage rating including main circuit, enclosure, driving mechanism and support insulator etc. to enable replacement of any type/ rating of isolator by spare	item47	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only

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3.25	GIS SPARES: 400kV GIS Disconnecter- Complete set of 3 nos. of single phase/ one3-ph Maintenance earthing switch of each type, dimension, current & voltage rating including main circuit , enclosure , driving mechanism and support insulator etc to enable replacement of any type / rating of isolator by spare	item48	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.26	GIS SPARES: 400kV GIS Disconnecter- Complete set of 3 nos. of single phase / one 3-ph Fast earthing switch of each type, dimension, current & voltage rating including main circuit, enclosure, driving mechanism and support insulator etc. to enable replacement of any type / rating of isolator by spare	item49	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.27	GIS SPARES: 400kV GIS Disconnecter- Copper Contact fingers for isolator male & female contact along with corona shield -for one complete (3 phase) isolator of each type and rating	item50	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.28	GIS SPARES: 400kV GIS Disconnecter- Copper Contact fingers for Maintenance earthing switch male & female contact along with corona shield -for one complete (3 phase) isolator of each type and rating	item51	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.29	GIS SPARES: 400kV GIS Disconnecter- Copper Contact fingers for Fast earthing switch male & female contact along with corona shield - for one complete ( 3phase) isolator of each type and rating, If Applicable	item52	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.3	GIS SPARES: 400kV GIS Disconnecter- Open/ close contactor assembly, timers, key interlock, interlocking coils, relays , push buttons indicating lamps , power contactors, resistors, fuses MCBs & drive control cards etc for one complete MOM box ( 3-ph gang operated or 1-ph unit ) disconnecter and ( 3-ph earthing switch of each type and rating for	item53	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.31	GIS SPARES: 400kV GIS Disconnecter- Limit switches and Aux. switches for complete 3-phase equipment, a) For Disconnecter- 1SET b) For earth switch- 1 SET c) For high-speed earth switch- 1SET	item54	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only



Tender Inviting Authority: BHEL TBG Noida

Name of Work: 400kV GIS for 2X660 MW Korba TPS

NIT/Enquiry No: NIT No.83362\_61Q2500150 Dtd: 24-06-2024

Name of the Bidder/ Bidding Firm / Company :															
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only )															
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Sl. No.	Item Description	Item Code / Make	Quantity	Units	Quoted Currency in INR / Other Currency	Unit RATE In <b>Figures</b> To be entered by the Bidder in <b>Rs. P</b>	GST (in Percentage)	GST Amount (Unit Rate*Quantity* GST) <b>Rs. P</b>	Unit Freight & Insurance Charges in <b>Rs. P</b>	GST (in Percentage)	GST Amount on F&I (Unit Rate*Quantity*GST) <b>Rs. P</b>	HSN / SAC Code	<b>TOTAL</b> Ex-Works + F & I AMOUNT excluding GST in <b>Rs. P</b>	<b>TOTAL</b> Ex-Works + F & I AMOUNT including GST in <b>Rs. P</b>	<b>TOTAL AMOUNT</b> In Words
1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
3.32	GIS SPARES: 400kV GIS Disconnecter- Drive Mechanism of each type, a) For isolator- 1SET b) For Maintenance Earth switch- 1SET c) For Fast Earthing switch- 1SET	item55	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.33	GIS SPARES: 400kV GIS Disconnecter- Motor Drive Mechanism of each type, a) For isolator- 1SET b) For Maintenance Earth switch- 1SET c) For Fast Earthing switch- 1SET	item56	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.34	GIS SPARES: 400kV GIS Current Transformer- Complete CT, of each type and with enclosure to enable replacement of any type/ rating of CT as spare	item57	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.35	GIS SPARES: 400kV GIS Voltage Transformer- Complete VT of each type and with enclosure to enable replacement of any type / rating of VT as spare	item58	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.36	GIS SPARES: 400kV GIS Surge Arrestor- Complete Surge Arrestors of each type andwith enclosure with surge monitor counter to enable replacement of any type/ rating of VT as spare	item59	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.37	GIS SPARES: 400kV GIS Surge Arrestor- Surge Monitor and counter of each type/ rating	item60	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.01	SPARES- GIS: REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS : 400KV, OPERATING MECHANISM FOR CIRCUIT BREAKER COMPLETE IN ALL RESPECT	item61	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.02	SPARES- GIS: REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS : 400KV, OPERATING MECHANISM FOR DISCONNECTOR	item62	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.03	SPARES- GIS: REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS : 400KV, OPERATING MECHANISM FOR MAINTENANCE EARTHING SWITCH COMPLETE IN ALL RESPECT	item63	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.04	SUPPLY- GIS: SPARES: 400KV, OPERATING MECHANISM FOR FAST ACTING/ HIGH SPEED GROUNDING SWITCH COMPLETE IN ALL RESPECT	item64	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.05	SPARES- GIS: REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS : 400KV, MAINTENANCE EARTHING SWITCH WITH ENCLOSURE COMPLETE IN ALL RESPECT	item65	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: 400kV GIS for ZX660 MW Korba TPS

NIT/Enquiry No: NIT No.83362\_61Q2500150 Dtd: 24-06-2024

Name of the Bidder/ Bidding Firm / Company :															
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Sl. No.	Item Description	Item Code / Make	Quantity	Units	Quoted Currency in INR / Other Currency	Unit RATE In <div>Figures To be entered by the Bidder in Rs. P</div>	GST (in Percentage)	GST Amount (Unit Rate*Quantity* GST) <div>Rs. P</div>	Unit Freight & Insurance Charges in Rs. P	GST (in Percentage)	GST Amount on F&I (Unit Rate*Quantity*GST) <div>Rs. P</div>	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
4.06	SPARES- GIS: REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS : 400KV, FAST ACTING/ HIGH SPEED GROUNDING SWITCH WITH ENCLOSURE COMPLETE IN ALL RESPECT	item66	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.07	SPARES- GIS: REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS : 400KV, CURRENT TRANSFORMER (2 CORE) WITH ENCLOSURE COMPLETE IN ALL RESPECT	item67	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.08	SPARES- GIS: REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS : 400KV, CURRENT TRANSFORMER (3 CORE) WITH ENCLOSURE COMPLETE IN ALL RESPECT	item68	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.09	SPARES- GIS: REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS : 400KV, CURRENT TRANSFORMER (5 CORE) WITH ENCLOSURE COMPLETE IN ALL RESPECT	item69	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.1	SPARES- GIS: REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS : 400KV, SINGLE PHASE BUS BAR	item70	1	Mtrs	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.11	SPARES- GIS: REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS : 400KV, GIS METALLIC ENCLOSURE	item71	50	Kgs	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.12	SPARES- GIS: REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS : 400KV, EXPANSION JOINTS	item72	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.13	SPARES- GIS: REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS : 400KV, FLEXIBLE CONNECTIONS	item73	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.14	SPARES- GIS: REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS : 400KV, BARRIER INSULATOR	item74	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.15	SPARES- GIS: REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS : 400KV, NON-BARRIER INSULATOR	item75	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only

Tender Inviting Authority: BHEL TBG Noida

Name of Work: 400kV GIS for 2X660 MW Korba TPS

NIT/Enquiry No: NIT No.83362\_61Q2500150 Dtd: 24-06-2024

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4.16	SPARES- GIS: REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS : 400KV, GAS SEALS	item76	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.17	SPARES- GIS: REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS : 400KV, GAS DENSITY MONITOR SWITCH	item77	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.18	SPARES- GIS: REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS : 400KV, GAS PRESSURE SWITCH	item78	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.19	SPARES- GIS: REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS : 400KV, TEE BEND	item79	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.2	SPARES- GIS: REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS : 400KV, ANGLE BEND	item80	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.21	SPARES- GIS: REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS : 400KV, L-BEND	item81	1	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.01	SERVICES- 400kv GIS: SUPERVISION OF ERECTION OF GIS	item82	12	Bays	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.02	SERVICES- 400kv GIS: SUPERVISION OF ERECTION OF 1-PHASE GAS INSULATED BUS DUCT	item83	1100	MTR	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.03	SERVICES- 400kv GIS: SUPERVISION OF ERECTION OF 1 PHASE SF6 TO AIR BUSHING	item84	24	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.04	SERVICES- 400kv GIS: SUPERVISION OF ERECTION OF 1 PHASE SURGE ARRESTER WITH SURGE COUNTER	item85	6	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.05	SERVICES- 400kv GIS: TESTING & COMMISSIONING OF GIS	item86	12	Bays	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.06	SERVICES- 400kv GIS : TESTING & COMMISSIONING OF GAS INSULATED BUS DUCT	item87	1100	MTR	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.07	SERVICES- 400kv GIS : FINAL SUCCESSFUL HV/ POWER FREQUENCY TESTING OF GIS INCLUDING ARRANGING OF HV TEST KIT ALONG WITH OPERATOR	item88	12	Bays	INR			0.00			0.00		0.000	0.000	INR Zero Only

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### Item Wise BoQ

**Tender Inviting Authority: BHEL TBG NOIDA**

**Name of Work: 400kV GIS for 2X660 MW Korba TPS**

NIT/Enquiry No: NIT No.83362\_61Q2500150 Dtd: 24-06-2024

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
5.08	SERVICES- 400kV GIS : INSULATION CO-ORDINATION STUDIES FOR GIS SYSTEM	item89	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.09	SERVICES- 400kV GIS : TRAINING FOR GIS AT MANUFACTURER WORKS (MIN. 8 NO. CUSTOMER/ BHEL OFFICIAL)	item90	5	DAY	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.10	SERVICES- 400kV GIS : TRAINING FOR GIS AT SITE (MIN. 6 NO. CUSTOMER/ BHEL OFFICIAL)	item91	5	DAY	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.01	SERVICES- GIS : REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SERVICES: - SERVICES FOR SUPERVISION OF ERECTION OF GIS	item92	10	MANDAY	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.02	SERVICES- GIS : REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SERVICES: - SERVICES FOR TESTING & COMMISSIONING OF GIS	item93	10	MANDAY	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.03	SERVICES- GIS : REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SERVICES : DEMOBILIZATION AND REMOBILIZATION CHARGES FOR GIS ERECTION SUPERVISION TEAM	item94	2	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.04	SERVICES- GIS : REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SERVICES : DEMOBILIZATION AND REMOBILIZATION CHARGES FOR GIS TESTING & COMMISSIONING TEAM	item95	2	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.05	SERVICES- GIS : REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SERVICES: DEMOBILIZATION & REMOBILIZATION CHARGES OF HV TEST KIT ALONG WITH OPERATOR	item96	1	Lot	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.06	SERVICES- GIS : REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SERVICES: TYPE TEST CHARGES FOR 400KV GIS (AS PER ANNEXURE- BREAK UP OF TYPE TEST CHARGES FOR 400KV GIS)	item97	1	Lot	INR			0.00			0.00		0.000	0.000	INR Zero Only
Total in Figures													0.000	0.000	Zero Only
otepd Rate in Words		INR Zero Only													