

Annexure_BOQ_GIPL

Doc. No. Annexure-BOQ_GIPL REV01

Project: Pre Bid Tie up for, Tender Enquiry Document for Pooling Substation 400/33 kV, 1200 MW (PSS-1, Phase-I & Phase-II of 600 MW each) of Solar/ Wind/ Hybrid RE Park of 2375 MW Capacity at Great Rann of Kutch Area, Gujarat

Date: 22.06.2022

Sl. No.	Description
A	400kV GIS Sub-Station at GIPL at Great Rann of Kutch Area, Gujarat
A.1	Annexure_BOQ_GIPL_MAIN GIS & EQUIPMENT REV00
A.2	Annexure_BOQ_GIPL_SPARES REV00
A.3	Annexure_BOQ_GIPL_SERVICES REV01

Rev. No.	REV00				
Sl. No.	Item Description	Unit	Qty.	Remarks	
1	Supply- GIS: 400kV, 63kA for 3sec, Gas Insulated Switchgear (GIS) as per TS				
1.01	SUPPLY- GIS: 400KV, 3150A, SF6 BUS BAR MODULE WITH BUS PT & BUS EARTH SWITCH BAY MODULE (INCLUDING SF6 GAS WITH ADDITIONAL REQUIREMENT, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	SET	2	<p>400kV GIS BAY MODULE with all necessary equipment comprising of following but not limited to, Busbar, Disconnector & Maintenance Grounding Switch, Fast Acting High Speed Earthing Switch, Voltage Transformer, GIS bus duct, Expansion joints & flexible connections, Online Gas Monitoring System including Gas device, Online PD Monitoring System, Pressure Switches etc. as applicable. 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 hardwares, platforms, ladders, staircases, catwalks, walkways, interconnecting cables with glands, ferrules, lugs etc. However, other applicable equipment such as local control cubicle, surge arrester etc. shall be considered in other line items.</p> <p>Please refer clause 2.2.1/ 2.2.15 of section-2 (TS for 400kV GIS)- Technical Specification with clarifications on pre-bid queries.</p>	
1.02	SUPPLY- GIS: 400KV, 3150A, SF6 BUS COUPLER BAY MODULE (INCLUDING SF6 GAS WITH ADDITIONAL REQUIREMENT, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	SET	1	<p>400kV GIS BAY MODULE with all necessary equipment comprising of following but not limited to, Busbar, Circuit Breaker, Disconnector & Maintenance Grounding Switch, Current Transformer, GIS bus duct, Expansion joints & flexible connections, Online Gas Monitoring System including Gas device, Online PD Monitoring System, Pressure Switches, local control cubicles etc. as applicable. 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 hardwares, platforms, ladders, staircases, catwalks, walkways, interconnecting cables with glands, ferrules, lugs etc. However, other applicable equipment such as local control etc. shall be considered in other line items.</p> <p>Please refer clause 2.2.3/ 2.2.15 of section-2 (TS for 400kV GIS)- Technical Specification with clarifications on pre-bid queries.</p>	
1.03	SUPPLY- GIS: 400KV, 3150A, SF6 TRANSFORMER FEEDER BAY MODULE (INCLUDING SF6 GAS WITH ADDITIONAL REQUIREMENT, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	SET	4	<p>400kV GIS BAY MODULE with all necessary equipment comprising of following but not limited to, Busbar, Circuit Breaker, Disconnector & Maintenance Grounding Switch, Voltage Transformer, Current Transformer, SF6 to Air Connection (Bushing) Module, GIS bus duct, Expansion joints & flexible connections, Online Gas Monitoring System including Gas device, Online PD Monitoring System, Pressure Switches, local control cubicles etc. as applicable. 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 hardwares, platforms, ladders, staircases, catwalks, walkways, interconnecting cables with glands, ferrules, lugs etc. However, other applicable equipment such as local control, controlled switching device etc. shall be considered in other line items.</p> <p>Please refer clause 2.2.3/ 2.2.15 of section-2 (TS for 400kV GIS)- Technical Specification with clarifications on pre-bid queries.</p>	
1.04	SUPPLY- GIS: 400KV, 4000A, SF6 GIS LINE FEEDER BAY MODULE (INCLUDING SF6 GAS WITH ADDITIONAL REQUIREMENT, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	SET	1	<p>400kV GIS BAY MODULE with all necessary equipment comprising of following but not limited to, Busbar, Circuit Breaker, Disconnector & Maintenance Grounding Switch, Fast Acting High Speed Earthing Switch, Voltage Transformer, Current Transformer, SF6 to Air Connection (Bushing) Module, GIS bus duct, Expansion joints & flexible connections, Online Gas Monitoring System including Gas device, Online PD Monitoring System, Pressure Switches, local control cubicles etc. as applicable. 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 hardwares, platforms, ladders, staircases, catwalks, walkways, interconnecting cables with glands, ferrules, lugs etc. However, other applicable equipment such as local control, controlled switching device etc. shall be considered in other line items.</p> <p>Please refer clause 2.2.4/ 2.2.15 of section-2 (TS for 400kV GIS)- Technical Specification with clarifications on pre-bid queries.</p>	
1.05	SUPPLY- GIS : 400KV, CONTROLLED SWITCHING DEVICE (CSD) FOR GIS 3-PHASE CIRCUIT BREAKER	SET	4	Please refer clause 2.2.3/ 2.2.5 of section-2 (TS for 400kV GIS)- Technical Specification with clarifications on pre-bid queries.	
1.06	SUPPLY- GIS : 400KV, 3150A, SINGLE PHASE GAS INSULATED BUS DUCT OUTSIDE GIS HALL (INCLUDING SF6 GAS, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	MTRS	600	Please refer clause 2.2.3/ 2.2.4/ 2.2.6 of section-2 (TS for 400kV GIS)- Technical Specification with clarifications on pre-bid queries.	
1.07	SUPPLY- GIS : 400KV, ONLINE CONTINUOUS PD MONITORING SYSTEM FOR 400KV GIS MODULE	Lot	1	Please refer clause 2.2.10/ 2.2.11 of section-2 (TS for 400kV GIS)- Technical Specification with clarifications on pre-bid queries.	
1.08	SUPPLY- GIS : 400KV, ONLINE CONTINUOUS GAS MONITORING SYSTEM FOR 400KV GIS MODULE	Lot	1	Please refer clause 2.2.14 of section-2 (TS for 400kV GIS)- Technical Specification with clarifications on pre-bid queries.	
1.09	SUPPLY- GIS : LOCAL CONTROL CUBICLES	SET	6	Please refer clause 8.0.0 of section-2 (TS for 400kV GIS)- Technical Specification with clarifications on pre-bid queries.	
1.10	SUPPLY- GIS: 400KV, 4000A, SF6 END PIECE/ INTERFACE MODULE FOR FUTURE EXTENSION	SET	2	Please refer clause 2.1.1 (i) of section-2 (TS for 400kV GIS)- Technical Specification with clarifications on pre-bid queries.	
1.11	SUPPLY- GIS : 400KV, 4000A, SINGLE PHASE SF6 TO AIR BUSHING (INCLUDING SF6 GAS, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	SET	15	Please refer section-2 (TS for 400kV GIS) of Technical Specification.	
1.12	SUPPLY- GIS : 400KV, SURGE ARRESTER (INCLUDING SF6 GAS, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	SET	6	Please refer section-2 (TS for 400kV GIS) of Technical Specification.	
2	Supply- GIS: Special Tools, Tesing & Maintenance Equipments as per TS				

Sl. No.	Item Description	Unit	Qty.	Remarks
2.01	SUPPLY- GIS: TESTING & MAINTENANCE INSTRUMENTS: SF6 GAS FILLING, EVACUATING & RECOVERY PLANT	Set	1	DILO make mega series with 300 Litres internal tank, or equivalent like WIKA. Please refer clause 2.2.7 of section-2 (TS for 400kV GIS)- Technical Specification with clarifications on pre-bid queries.
2.02	SUPPLY- GIS: TESTING & MAINTENANCE INSTRUMENTS: PORTABLE GAS MEASURING ANALYSER WITH PUMP BACK FACILITY OF SF6 GAS	Set	1	DILO MAKE Model: - 3-038R-R303. Please refer clause 2.2.8 of section-2 (TS for 400kV GIS)- Technical Specification with clarifications on pre-bid queries.
2.03	SUPPLY- GIS: TESTING & MAINTENANCE INSTRUMENTS: SF6 GAS MULTI ANALYZER KIT	Set	1	Make DILO, Model No 3-038R-R303. Please refer clause 2.2.8 (1) of section-2 (TS for 400kV GIS)- Technical Specification with clarifications on pre-bid queries.
2.04	SUPPLY- GIS: TESTING & MAINTENANCE INSTRUMENTS: SF6 GAS LEAKAGE / POINTER	Set	1	Make DILO, Model No 3-033-R002 Please refer clause 2.2.8 (2) of section-2 (TS for 400kV GIS)- Technical Specification with clarifications on pre-bid queries.
2.05	SUPPLY- GIS: TESTING & MAINTENANCE INSTRUMENTS: SF6 GAS SERVICE CART	Set	1	DILO Make, Model No B057R17 Please refer clause 2.2.8 (3) of section-2 (TS for 400kV GIS)- Technical Specification with clarifications on pre-bid queries.
2.06	SUPPLY- GIS: TESTING & MAINTENANCE INSTRUMENTS: SF6 GAS REFILLING DEVICE	Set	1	Make DILO Model No 3-001-R002 Please refer clause 2.2.8 (4) of section-2 (TS for 400kV GIS)- Technical Specification with clarifications on pre-bid queries.
2.07	SUPPLY- GIS: TESTING & MAINTENANCE INSTRUMENTS: SF6 GAS DEW POINT MEASUREMENT KIT	Set	1	Make DILO Model No 3-037-R001 Please refer clause 2.2.8 (5) of section-2 (TS for 400kV GIS)- Technical Specification with clarifications on pre-bid queries.
2.08	SUPPLY- GIS: TESTING & MAINTENANCE INSTRUMENTS: BREAKER OPERATION ANALYZER WITH TRANSDUCESR	Set	1	Please refer clause 6.3.0 of section-2 (TS for 400kV GIS)- Technical Specification with clarifications on pre-bid queries.

Rev. No.	REV01			
Sl. No.	Item Description	Unit	Qty.	Remarks
6	Services- GIS: 400kV, 63kA for 3sec, Gas Insulated Switchgear (GIS) as per TS			
6.01	SERVICES- GIS: SUPERVISION OF ERECTION: 400KV, SF6 GIS BAY MODULE (INCLUDING LCC, SF6 GAS WITH ADDITIONAL REQUIREMENT, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	SET	6	Supervision of erection of GIS system, complete in all respect including LCC and other accessories. It also includes supervision of unloading & verification of materials for proper storage at site. GIS bay having GIS circuit Breaker is counted as Bay Module. PT Bay module is included in this item.
6.02	SERVICES- GIS: TESTING & COMMISSIONING: 400KV, SF6 GIS BAY MODULE (INCLUDING LCC, SF6 GAS WITH ADDITIONAL REQUIREMENT, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	SET	6	Testing and commissioning of complete GIS system, is to be executed by vendor. All testing instruments, kits, T&P etc. are to be arranged by contractor on returnable basis. Please refer relevant section of technical specification for details. GIS bay having GIS circuit Breaker is counted as Bay Module. PT Bay module is included in this item.
6.03	SERVICES- GIS: SUPERVISION OF ERECTION: 400KV, SINGLE PHASE GAS INSULATED BUS DUCT OUTSIDE GIS HALL (INCLUDING SF6 GAS, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	MTRS	600	GIB outside the GIS Hall wall shall be considered for mode of measurement. Inside GIB shall be considered as part of respective Feeder Bay and cost of the same shall be deemed inclusive.
6.04	SERVICES- GIS: TESTING & COMMISSIONING: 400KV, SINGLE PHASE GAS INSULATED BUS DUCT OUTSIDE GIS HALL (INCLUDING SF6 GAS, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	MTRS	600	
6.05	SERVICES- GIS: SUPERVISION OF ERECTION: 400KV, SINGLE PHASE SF6 TO AIR BUSHING (INCLUDING SF6 GAS, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	SET	15	
6.06	SERVICES- GIS: TESTING & COMMISSIONING: 400KV, SINGLE PHASE SF6 TO AIR BUSHING (POLYMER) (INCLUDING SF6 GAS, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	SET	15	
6.09	SERVICES- GIS: SUPERVISION OF ERECTION: 400KV, SINGLE PHASE SF6 TO CABLE TERMINATION MODULE (INCLUDING SF6 GAS, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	SET	1	
6.10	SERVICES- GIS: TESTING & COMMISSIONING: 400KV, SINGLE PHASE SF6 TO CABLE TERMINATION MODULE (INCLUDING SF6 GAS, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	SET	1	
6.11	SERVICES- GIS: SUPERVISION OF ERECTION: 360KV, 20kA, CLASS-4 SURGE ARRESTER (INCLUDING SF6 GAS, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	SET	6	
6.12	SERVICES- GIS: TESTING & COMMISSIONING: 360KV, 20kA, CLASS-4 SURGE ARRESTER (INCLUDING SF6 GAS, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	SET	6	
6.13	SERVICES- GIS: FINAL SUCCESSFUL HV/ POWER FREQUENCY TESTING OF GIS INCLUDING ARRANGING OF HV TEST KIT ALONG WITH OPERATOR	Lot	1	Carrying out successful HV/ Power Frequency Testing of complete GIS as per IEC including Arrangement of HV Test kit (on returnable basis) shall be in scope of bidder, which includes charges HV test kit with operator, accessories & tools required for completion of HV testing. Bays may be commissioned separately.
6.14	SERVICES- GIS: SUPERVISION OF ERECTION: 400KV, CONTROLLED SWITCHING DEVICE (CSD) FOR GIS THREE PHASE CIRCUIT BREAKER	SET	7	
6.15	SERVICES- GIS: TESTING & COMMISSIONING: 400KV, CONTROLLED SWITCHING DEVICE (CSD) FOR GIS THREE PHASE CIRCUIT BREAKER	SET	7	
6.16	SERVICES- GIS: INSULATION CO-ORDINATION STUDIES GIS SYSTEM COMPLETE	LOT	1	
6.17	SERVICES- GIS: ANNUAL MAINTENANCE SERVICE SUPPORT FOR 400KV GIS PACKAGE	LOT	1	Please refer Annexure-I, technical amendment of section-2 (TS for 400kV GIS)- Technical Specification with clarifications on pre-bid queries.
7	Services-GIS: Reference Unit Price for addition/ deletion of supply items of 400kV, 63kA for 3sec, Gas Insulated Switchgear (GIS) as per TS			
7.01	SERVICES- GIS : REFERENCE UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR SUPERVISION OF ERECTION OF GIS	MAN-DAY	10	Charges for repetition of services - (if required due to reasons not attributed to the contractor) This item will be executed only if repetition of services is required by BHEL.
7.02	SERVICES- GIS : REFERENCE UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR TESTING & COMMISSIONING OF GIS	MAN-DAY	10	Charges for repetition of services - (if required due to reasons not attributed to the contractor) This item will be executed only if repetition of services is required by BHEL.
7.03	SERVICES- GIS : REFERENCE UNIT OF GIS INDIVIDUAL ITEM/ EQUIPMENT - HIRING CHARGES OF HV TEST KIT WITH OPERATOR	LOT	1	Additional HV test kit charges including charges of operator, HV test kit, accessories & tools required for completion of HV test (Dielectric Test after installation of GIS). This item is executed only if repetition/ additional HV Test is required by BHEL i.e. post successful commissioning of GIS. (if required due to reasons not attributed to the contractor)
8	Services-GIS: Training of customer/ owner Personnel as per TS			
8.01	SERVICE: TRAINING: TRAINING IN CONSTRUCTION, INSTALLATION, COMMISSIONING AND O&m OF GIS BEING SUPPLIED AT MANUFACTURES WORKS/ FACILITY	MAN-DAY	70	

Rev. No.	REV00			
Sl. No.	Item Description	Unit	Qty.	Remarks
3	Spares-GIS: Mandatory Spares for 400kV, 63kA for 3sec, Gas Insulated Switchgear (GIS) as per TS			
3.01	SUPPLY- GIS: SPARES: GIS- SF6 Gas Pressure Relief Devices of Each Type Along With O - Rings	SET	4	
3.02	SUPPLY- GIS: SPARES: GIS- SF6 Pressure Gauge Cum Switch or Density Monitors and Pressure Switch As Applicable Each Type (1 Lot= 8% of total population, max 7 nos. and min. 2 nos.)	LOT	1	
3.03	SUPPLY- GIS: SPARES: GIS- Coupling Device Of Each Type For Pressure Gauge Cum Switch For Connecting Gas Handling Plant	SET	2	
3.04	SUPPLY- GIS: SPARES: GIS- Rubber Gaskets, "O" Rings And Seals for SF6 Gas of each type	SET	3	
3.05	SUPPLY- GIS: SPARES: GIS- Molecular Filter for SF6 Gas With Filter Bags (1 Lot= 5% of total weight)	LOT	1	
3.06	SUPPLY- GIS: SPARES: GIS- All types of Control Valves for SF6 Gas of each type	NO	3	
3.07	SUPPLY- GIS: SPARES: GIS- SF6 Gas In Non-Returnable Cylinders (1 Lot= 20% of total gas quantity)	LOT	1	
3.08	SUPPLY- GIS: SPARES: GIS- Locking Device to keep the Dis-Connectors (Isolators) And Earthing Switches in Close Or Open position in case of removal of the Driving Mechanism	NO	3	
3.09	SUPPLY- GIS: SPARES: GIS- Spares for Local Control Cabinet Including MCB, Fuses, Timers, Aux. Relays, Contactor, Push Buttons, Switches, Lamps, Annunciation Windows etc. of each type & rating and terminal of each type	SET	3	
3.10	SUPPLY- GIS: SPARES: GIS- UHF PD Sensors of each type (1 Lot= 5% of total population, max 5 Nos. and min. 1 No.)	LOT	1	
3.11	SUPPLY- GIS: SPARES: GIS- Support Insulator/ Gas Barrier of each type along with associated contacts & shields	NO	5	
3.12	SUPPLY- GIS: SPARES: GIS- SF6 to Air Bushing of each type & rating along with conductor and enclosure	NO	2	
3.13	SUPPLY- GIS: SPARES: CIRCUIT BREAKER- Complete Circuit Breaker (1 Phase Unit) of each type & rating complete with Interrupter, Main Circuit, Enclosure And Marshaling Box With Operating Mechanism to enable Replacement of Any Type/ Rating Of CB by spare, as applicable	SET	3	
3.14	SUPPLY- GIS: SPARES: CIRCUIT BREAKER- Fixed, moving and arcing contacts including insulating nozzles of each type - for Main Chamber	SET	1	
3.15	SUPPLY- GIS: SPARES: CIRCUIT BREAKER- Trip Coil Assembly With Resistor, as applicable, (1 Set= 3 Nos. of each type)	SET	2	
3.16	SUPPLY- GIS: SPARES: CIRCUIT BREAKER- Closing Coil Assembly With Resistor, As Applicable, (1 Set= 3 Nos. of each type)	SET	2	
3.17	SUPPLY- GIS: SPARES: CIRCUIT BREAKER- Relays, Power Contactors, Push Buttons, Timers & MCBs etc. of each type and rating	SET	3	
3.18	SUPPLY- GIS: SPARES: CIRCUIT BREAKER- Auxiliary Switch Assembly, (1 Set= 3 Nos. of each type)	SET	2	
3.19	SUPPLY- GIS: SPARES: CIRCUIT BREAKER- Operation Counter, (1 Set= 3 Nos. of each type)	SET	1	
3.20	SUPPLY- GIS: SPARES: CIRCUIT BREAKER- Window-scope/ Observing Window, 3 Nos. of each type	SET	2	
3.21	SUPPLY- GIS: SPARES: SPRING OPERATED MECHANISM- Complete Spring Operating Mechanism Including Charging Mechanism etc. of each type	SET	1	
3.22	SUPPLY- GIS: SPARES: SPRING OPERATED MECHANISM- Spring Charging Motor	NO	3	
3.23	SUPPLY- GIS: SPARES: ISOLATOR- For Maintenance Earth Switch: 3 No. of Single Phase Maintenance Earthing Switch Of Each Type, Dimension, Current & Voltage Including Main Circuit, Enclosure, Driving Mechanism And Support Insulator etc. to enable replacement of any Type/Rating of Earth Switch by spare	SET	3	
3.24	SUPPLY- GIS: SPARES: ISOLATOR- Complete set of 3-phase dis-connector of each type including main circuit, enclosure, driving mechanism and support Insulator etc. to enable complete one to one replacement of all applicable type of Isolator by spare	SET	3	
3.25	SUPPLY- GIS: SPARES: ISOLATOR- For Fast Earthing Switch: 3 No. of Single Phase 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 Earth Switch by spare, If Applicable	SET	2	

Sl. No.	Item Description	Unit	Qty.	Remarks
3.26	SUPPLY- GIS: SPARES: ISOLATOR- Copper contact fingers for isolator male & female contact along with corona shield- for one complete (3 phase) isolator of each type and rating	SET	3	
3.27	SUPPLY- GIS: SPARES: ISOLATOR- Copper contact fingers for Maintenance Earthing switch male & female contacts along with corona shield, for one complete (3 phase) earthing switch of each type and rating	SET	2	
3.28	SUPPLY- GIS: SPARES: ISOLATOR- Copper contact fingers for Fast Earthing switch male & female contacts along with corona shield, for one complete (3 phase) earthing switch of each type and rating (if applicable)	SET	2	
3.29	SUPPLY- GIS: SPARES: ISOLATOR- For Isolator: 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 – Phase Gang Operated or 1 – Phase Unit) of each type and rating.	SET	2	
3.30	SUPPLY- GIS: SPARES: ISOLATOR- For Maintenance Earth Switch: 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 – Phase Gang Operated or 1 – Phase Unit) of each type and rating.	SET	2	
3.31	SUPPLY- GIS: SPARES: ISOLATOR- For Fast Earthing Switch: 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 – Phase Gang Operated or 1 – Phase Unit) of each type and rating.	SET	2	
3.32	SUPPLY- GIS: SPARES: ISOLATOR- For Isolator: Limit Switch and Aux. Switches for complete 3-Phase Equipment	SET	2	
3.33	SUPPLY- GIS: SPARES: ISOLATOR- For Maintenance Earth Switch: Limit Switch And Aux. Switches for complete 3-Phase Equipment	SET	2	
3.34	SUPPLY- GIS: SPARES: ISOLATOR- For Fast Earthing Switch: Limit Switch And Aux. Switches for complete 3-Phase Equipment	SET	2	
3.35	SUPPLY- GIS: SPARES: ISOLATOR- For Isolator: Drive Mechanism of each type	NO	2	
3.36	SUPPLY- GIS: SPARES: ISOLATOR- For Maintenance Earth Switch: Drive Mechanism of each type	NO	2	
3.37	SUPPLY- GIS: SPARES: ISOLATOR- For Fast Earthing Switch: Drive Mechanism of each type	NO	1	
3.38	SUPPLY- GIS: SPARES: ISOLATOR- For Isolator: Motor for Drive Mechanism of each type	NO	3	
3.39	SUPPLY- GIS: SPARES: ISOLATOR- For Maintenance Earth Switch: Motor for Drive Mechanism of each type	NO	3	
3.40	SUPPLY- GIS: SPARES: ISOLATOR- For Fast Earthing Switch: Motor for Drive Mechanism of each type	NO	3	
3.41	SUPPLY- GIS: SPARES: CURRENT TRANSFORMER- Complete 400kV CT of each Type And Rating with enclosure to enable replacement of any type/ rating of CT by spare	NO	2	
3.42	SUPPLY- GIS: SPARES: VOLTAGE TRANSFORMER- Complete EMVT of each type and rating with enclosure to enable replacement of any type/rating of EMVT by spare	NO	2	
3.43	SUPPLY- GIS: SPARES: CONTROLLED SWITCHING DEVICE- Controlled Switching Device along with Transducers, Sensors, Contactors, Switches etc. (1 Set= 1 set of each make)	SET	1	
3.44	SUPPLY- GIS: SPARES: SURGE ARRESTOR- Complete Surge Arrester with insulating base and Terminal connector & structure with Surge counter/ Monitor of each type and rating	SET	2	
3.45	SUPPLY- GIS: SPARES: SURGE ARRESTOR- Surge counter/ monitor. (In addition to above)	NO	6	
4	Spares-GIS: Recommended O&M Spares for 400kV, 63kA for 3sec, Gas Insulated Switchgear (GIS) as per TS	Lot	1	Bidder to provide O&M spares as per CEA guidelines for min. period of 10years.
5	Spares-GIS: Reference Unit Price for addition/ deletion of supply items of 400kV, 40kA for 3sec, Gas Insulated Switchgear (GIS) as per TS			
	Unit Prices of Individual Equipment included here or in mandatory spares are required for any Addition/Deletion of Equipment and replacement of damaged items. Vendor to ensure that the unit prices have a logical relationship with prices of assemblies in main items. Quoting for unit prices is mandatory and shall be considered for evaluation			
5.01	SUPPLY- GIS: SPARES: 400KV, OPERATING MECHANISM FOR CIRCUIT BREAKER COMPLETE IN ALL RESPECT	Set	1	

Sl. No.	Item Description	Unit	Qty.	Remarks
5.02	SUPPLY- GIS: SPARES: 400KV, OPERATING MECHANISM FOR DISCONNECTOR	Set	1	
5.03	SUPPLY- GIS: SPARES: 400KV, OPERATING MECHANISM FOR MAINTENANCE EARTHING SWITCH COMPLETE IN ALL RESPECT	Set	1	
5.04	SUPPLY- GIS: SPARES: 400KV, OPERATING MECHANISM FOR FAST ACTING/ HIGH SPEED GROUNDING SWITCH COMPLETE IN ALL RESPECT	Set	1	
5.05	SUPPLY- GIS: SPARES: 400KV, MAINTENANCE EARTHING SWITCH COMPLETE IN ALL RESPECT	Set	1	
5.06	SUPPLY- GIS: SPARES: 400KV, FAST ACTING/ HIGH SPEED GROUNDING SWITCH COMPLETE IN ALL RESPECT	Set	1	
5.07	SUPPLY- GIS: SPARES: 400KV, SINGLE PHASE BUS BAR	Mtrs	1	Complete in all respect.
5.08	SUPPLY- GIS: SPARES: 400KV, GIS METALLIC ENCLOSURE	Kgs	50	
5.09	SUPPLY- GIS: SPARES: 400KV, EXPANSION JOINTS	Set	1	1set means 1 nos. of each type.
5.10	SUPPLY- GIS: SPARES: 400KV, FLEXIBLE CONNECTIONS	Set	1	1set means 1 nos. of each type. For Single Phase of any type and any rating.
5.11	SUPPLY- GIS: SPARES: 400KV, BARRIER INSULATOR	Set	1	1set means 1 nos. of each type.
5.12	SUPPLY- GIS: SPARES: 400KV, NON-BARRIER INSULATOR	Set	1	1set means 1 nos. of each type.
5.13	SUPPLY- GIS: SPARES: 400KV, GAS SEALS	Set	1	1set means 1 nos. of each type.
5.14	SUPPLY- GIS: SPARES: 400KV, GAS DENSITY MONITOR SWITCH	Set	1	1set means 1 nos. of each type.
5.15	SUPPLY- GIS: SPARES: 400KV, GAS PRESSURE SWITCH	Set	1	1set means 1 nos. of each type.
5.16	SUPPLY- GIS: SPARES: 400KV, TEE BEND	Set	1	1set means 1 nos. of each type and each rating.
5.17	SUPPLY- GIS: SPARES: 400KV, ANGLE BEND	Set	1	1set means 1 nos. of each type and each rating.
5.18	SUPPLY- GIS: SPARES: 400KV, L-BEND	Set	1	1set means 1 nos. of each type and each rating.

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Sl. No.	Item Description	Item Code / Make	Quantity	Units	Unit RATE In Figures To be entered by the Bidder in Rs. P	GST (in Percentage)	GST Amount (Unit Rate*Quantity*GST) in Rs. P	Unit Freight & Insurance Charges in Rs. P	GST (in Percentage)	GST Amount on F&I (Unit Rate*Quantity*GST) in 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	13	14	15	16	20	21	51	53	54	55
1.01	SUPPLY- GIS: 400KV, 3150A, SF6 BUS BAR MODULE WITH BUS PT & BUS EARTH SWITCH BAY MODULE (INCLUDING SF6 GAS WITH ADDITIONAL REQUIREMENT, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	item1	2	SET			0.00			0.00		0.000	0.000	INR Zero Only
1.02	SUPPLY- GIS: 400KV, 3150A, SF6 BUS COUPLER BAY MODULE (INCLUDING SF6 GAS WITH ADDITIONAL REQUIREMENT, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	item2	1	SET			0.00			0.00		0.000	0.000	INR Zero Only
1.03	SUPPLY- GIS: 400KV, 3150A, SF6 TRANSFORMER FEEDER BAY MODULE (INCLUDING SF6 GAS WITH ADDITIONAL REQUIREMENT, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	item3	4	SET			0.00			0.00		0.000	0.000	INR Zero Only
1.04	SUPPLY- GIS: 400KV, 4000A, SF6 GIS LINE FEEDER BAY MODULE (INCLUDING SF6 GAS WITH ADDITIONAL REQUIREMENT, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	item4	1	SET			0.00			0.00		0.000	0.000	INR Zero Only
1.05	SUPPLY- GIS : 400KV, CONTROLLED SWITCHING DEVICE (CSD) FOR GIS 3-PHASE CIRCUIT BREAKER	item5	4	SET			0.00			0.00		0.000	0.000	INR Zero Only
1.06	SUPPLY- GIS : 400KV, 3150A, SINGLE PHASE GAS INSULATED BUS DUCT OUTSIDE GIS HALL (INCLUDING SF6 GAS, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	item6	550	MTRS			0.00			0.00		0.000	0.000	INR Zero Only
1.07	SUPPLY- GIS : 400KV, ONLINE CONTINUOUS PD MONITORING SYSTEM FOR 400KV GIS MODULE	item7	1	Lot			0.00			0.00		0.000	0.000	INR Zero Only
1.08	SUPPLY- GIS : 400KV, ONLINE CONTINUOUS GAS MONITORING SYSTEM FOR 400KV GIS MODULE	item8	1	Lot			0.00			0.00		0.000	0.000	INR Zero Only
1.09	SUPPLY- GIS : LOCAL CONTROL CUBICLES	item9	6	SET			0.00			0.00		0.000	0.000	INR Zero Only
1.10	SUPPLY- GIS: 400kv, 4000A, SF6 END PIECE/ INTERFACE MODULE FOR FUTURE EXTENSION	item10	2	SET			0.00			0.00		0.000	0.000	INR Zero Only
1.11	SUPPLY- GIS : 400KV, 4000A, SINGLE PHASE SF6 TO AIR BUSHING (INCLUDING SF6 GAS, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	item11	15	SET			0.00			0.00		0.000	0.000	INR Zero Only
1.12	SUPPLY- GIS : 400kv, SURGE ARRESTER (INCLUDING SF6 GAS, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	item12	6	SET			0.00			0.00		0.000	0.000	INR Zero Only
2.01	SUPPLY- GIS: TESTING & MAINTENANCE INSTRUMENTS: SF6 GAS FILLING, EVACUATING & RECOVERY PLANT	item13	1	Set			0.00			0.00		0.000	0.000	INR Zero Only
2.02	SUPPLY- GIS: TESTING & MAINTENANCE INSTRUMENTS: PORTABLE GAS MEASURING ANALYSER WITH PUMP BACK FACILITY OF SF6 GAS	item14	1	Set			0.00			0.00		0.000	0.000	INR Zero Only
2.03	SUPPLY- GIS: TESTING & MAINTENANCE INSTRUMENTS: SF6 GAS MULTI ANALYZER KIT	item15	1	Set			0.00			0.00		0.000	0.000	INR Zero Only
2.04	SUPPLY- GIS: TESTING & MAINTENANCE INSTRUMENTS: SF6 GAS LEAKAGE / POINTER	item16	1	Set			0.00			0.00		0.000	0.000	INR Zero Only
2.05	SUPPLY- GIS: TESTING & MAINTENANCE INSTRUMENTS: SF6 GAS SERVICE CART	item17	1	Set			0.00			0.00		0.000	0.000	INR Zero Only
2.06	SUPPLY- GIS: TESTING & MAINTENANCE INSTRUMENTS: SF6 GAS REFILLING DEVICE	item18	1	Set			0.00			0.00		0.000	0.000	INR Zero Only
2.07	SUPPLY- GIS: TESTING & MAINTENANCE INSTRUMENTS: SF6 GAS DEW POINT MEASUREMENT KIT	item19	1	Set			0.00			0.00		0.000	0.000	INR Zero Only
2.08	SUPPLY- GIS: TESTING & MAINTENANCE INSTRUMENTS: BREAKER OPERATION ANALYZER WITH TRANSDUCESR	item20	1	Set			0.00			0.00		0.000	0.000	INR Zero Only

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Sl. No.	Item Description	Item Code / Make	Quantity	Units	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	13	14	15	16	20	21	51	53	54	55
3.01	SUPPLY- GIS: SPARES: GIS- SF6 Gas Pressure Relief Devices of Each Type Along With O- Rings	item21	4	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.02	SUPPLY- GIS: SPARES: GIS- SF6 Pressure Gauge Cum Switch or Density Monitors and Pressure Switch As Applicable Each Type (1 Lot= 8% of total population, max 7 nos. and min. 2 nos.)	item22	1	LOT			0.00			0.00		0.000	0.000	INR Zero Only
3.03	SUPPLY- GIS: SPARES: GIS- Coupling Device Of Each Type For Pressure Gauge Cum Switch For Connecting Gas Handling Plant	item23	2	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.04	SUPPLY- GIS: SPARES: GIS- Rubber Gaskets, "O" Rings And Seals for SF6 Gas of each type	item24	3	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.05	SUPPLY- GIS: SPARES: GIS- Molecular Filter for SF6 Gas With Filter Bags (1 Lot= 5% of total weight)	item25	1	LOT			0.00			0.00		0.000	0.000	INR Zero Only
3.06	SUPPLY- GIS: SPARES: GIS- All types of Control Valves for SF6 Gas of each type	item26	3	NO			0.00			0.00		0.000	0.000	INR Zero Only
3.07	SUPPLY- GIS: SPARES: GIS- SF6 Gas In Non-Returnable Cylinders (1 Lot= 20% of total gas quantity)	item27	1	LOT			0.00			0.00		0.000	0.000	INR Zero Only
3.08	SUPPLY- GIS: SPARES: GIS- Locking Device to keep the Dis-Connectors (Isolators) And Earthing Switches in Close Or Open position in case of removal of the Driving Mechanism	item28	3	NO			0.00			0.00		0.000	0.000	INR Zero Only
3.09	SUPPLY- GIS: SPARES: GIS- Spares for Local Control Cabinet Including MCB, Fuses, Timers, Aux. Relays, Contactor, Push Buttons, Switches, Lamps, Annunciation Windows etc. of each type & rating and terminal of each type	item29	3	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.10	SUPPLY- GIS: SPARES: GIS- UHF PD Sensors of each type (1 Lot= 5% of total population, max 5 Nos. and min. 1 No.)	item30	1	LOT			0.00			0.00		0.000	0.000	INR Zero Only
3.11	SUPPLY- GIS: SPARES: GIS- Support Insulator/ Gas Barrier of each type along with associated contacts & shields	item31	5	NO			0.00			0.00		0.000	0.000	INR Zero Only
3.12	SUPPLY- GIS: SPARES: GIS- SF6 to Air Bushing of each type & rating along with conductor and enclosure	item32	2	NO			0.00			0.00		0.000	0.000	INR Zero Only
3.13	SUPPLY- GIS: SPARES: CIRCUIT BREAKER- Complete Circuit Breaker (1 Phase Unit) of each type & rating complete with Interrupter, Main Circuit, Enclosure And Marshaling Box With Operating Mechanism to enable Replacement of Any Type/ Rating Of CB by spare, as applicable	item33	3	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.14	SUPPLY- GIS: SPARES: CIRCUIT BREAKER- Fixed, moving and arcing contacts including insulating nozzles of each type - for Main Chamber	item34	1	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.15	SUPPLY- GIS: SPARES: CIRCUIT BREAKER- Trip Coil Assembly With Resistor, as applicable, (1 Set= 3 Nos. of each type)	item35	2	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.16	SUPPLY- GIS: SPARES: CIRCUIT BREAKER- Closing Coil Assembly With Resistor, As Applicable, (1 Set= 3 Nos. of each type)	item36	2	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.17	SUPPLY- GIS: SPARES: CIRCUIT BREAKER- Relays, Power Contactors, Push Buttons, Timers & MCBs etc. of each type and rating	item37	3	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.18	SUPPLY- GIS: SPARES: CIRCUIT BREAKER- Auxiliary Switch Assembly, (1 Set= 3 Nos. of each type)	item38	2	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.19	SUPPLY- GIS: SPARES: CIRCUIT BREAKER- Operation Counter, (1 Set= 3 Nos. of each type)	item39	1	SET			0.00			0.00		0.000	0.000	INR Zero Only

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1	2	3	4	5	13	14	15	16	20	21	51	53	54	55
3.20	SUPPLY- GIS: SPARES: CIRCUIT BREAKER- Window-scope/ Observing Window, 3 Nos. of each type	item40	2	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.21	SUPPLY- GIS: SPARES: SPRING OPERATED MECHANISM- Complete Spring Operating Mechanism Including Charging Mechanism etc. of each type	item41	1	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.22	SUPPLY- GIS: SPARES: SPRING OPERATED MECHANISM- Spring Charging Motor	item42	3	NO			0.00			0.00		0.000	0.000	INR Zero Only
3.23	SUPPLY- GIS: SPARES: ISOLATOR- For Maintenance Earth Switch: 3 No. of Single Phase Maintenance Earthing Switch Of Each Type, Dimension, Current & Voltage Including Main Circuit, Enclosure, Driving Mechanism And Support Insulator etc. to enable replacement of any Type/Rating of Earth Switch by spare	item43	3	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.24	SUPPLY- GIS: SPARES: ISOLATOR- Complete set of 3-phase dis-connector of each type including main circuit, enclosure, driving mechanism and support Insulator etc. to enable complete one to one replacement of all applicable type of Isolator by spare	item44	3	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.25	SUPPLY- GIS: SPARES: ISOLATOR- For Fast Earthing Switch: 3 No. of Single Phase 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 Earth Switch by spare, If Applicable	item45	2	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.26	SUPPLY- GIS: SPARES: ISOLATOR- Copper contact fingers for isolator male & female contact along with corona shield- for one complete (3 phase) isolator of each type and rating	item46	3	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.27	SUPPLY- GIS: SPARES: ISOLATOR- Copper contact fingers for Maintenance Earthing switch male & female contacts along with corona shield, for one complete (3 phase) earthing switch of each type and rating	item47	2	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.28	SUPPLY- GIS: SPARES: ISOLATOR- Copper contact fingers for Fast Earthing switch male & female contacts along with corona shield, for one complete (3 phase) earthing switch of each type and rating (if applicable)	item48	2	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.29	SUPPLY- GIS: SPARES: ISOLATOR- For Isolator: 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 - Phase Gang Operated or 1 - Phase Unit) of each type and rating.	item49	2	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.30	SUPPLY- GIS: SPARES: ISOLATOR- For Maintenance Earth Switch: 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 - Phase Gang Operated or 1 - Phase Unit) of each type and rating.	item50	2	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.31	SUPPLY- GIS: SPARES: ISOLATOR- For Fast Earthing Switch: 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 - Phase Gang Operated or 1 - Phase Unit) of each type and rating.	item51	2	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.32	SUPPLY- GIS: SPARES: ISOLATOR- For Isolator: Limit Switch and Aux. Switches for complete 3-Phase Equipment	item52	2	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.33	SUPPLY- GIS: SPARES: ISOLATOR- For Maintenance Earth Switch: Limit Switch And Aux. Switches for complete 3-Phase Equipment	item53	2	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.34	SUPPLY- GIS: SPARES: ISOLATOR- For Fast Earthing Switch: Limit Switch And Aux. Switches for complete 3-Phase Equipment	item54	2	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.35	SUPPLY- GIS: SPARES: ISOLATOR- For Isolator: Drive Mechanism of each type	item55	2	NO			0.00			0.00		0.000	0.000	INR Zero Only
3.36	SUPPLY- GIS: SPARES: ISOLATOR- For Maintenance Earth Switch: Drive Mechanism of each type	item56	2	NO			0.00			0.00		0.000	0.000	INR Zero Only
3.37	SUPPLY- GIS: SPARES: ISOLATOR- For Fast Earthing Switch: Drive Mechanism of each type	item57	1	NO			0.00			0.00		0.000	0.000	INR Zero Only
3.38	SUPPLY- GIS: SPARES: ISOLATOR- For Isolator: Motor for Drive Mechanism of each type	item58	3	NO			0.00			0.00		0.000	0.000	INR Zero Only

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Sl. No.	Item Description	Item Code / Make	Quantity	Units	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	13	14	15	16	20	21	51	53	54	55
3.39	SUPPLY- GIS: SPARES: ISOLATOR- For Maintenance Earth Switch: Motor for Drive Mechanism of each type	item59	3	NO			0.00			0.00		0.000	0.000	INR Zero Only
3.40	SUPPLY- GIS: SPARES: ISOLATOR- For Fast Earthing Switch: Motor for Drive Mechanism of each type	item60	3	NO			0.00			0.00		0.000	0.000	INR Zero Only
3.41	SUPPLY- GIS: SPARES: CURRENT TRANSFORMER- Complete 400kV CT of each Type And Rating with enclosure to enable replacement of any type/ rating of CT by spare	item61	2	NO			0.00			0.00		0.000	0.000	INR Zero Only
3.42	SUPPLY- GIS: SPARES: VOLTAGE TRANSFORMER- Complete EMVT of each type and rating with enclosure to enable replacement of any type/rating of EMVT by spare	item62	2	NO			0.00			0.00		0.000	0.000	INR Zero Only
3.43	SUPPLY- GIS: SPARES: CONTROLLED SWITCHING DEVICE- Controlled Switching Device along with Transducers, Sensors, Contactors, Switches etc. (1 Set= 1 set of each make)	item63	1	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.44	SUPPLY- GIS: SPARES: SURGE ARRESTOR- Complete Surge Arrester with insulating base and Terminal connector & structure with Surge counter/ Monitor of each type and rating	item64	2	SET			0.00			0.00		0.000	0.000	INR Zero Only
3.45	SUPPLY- GIS: SPARES: SURGE ARRESTOR- Surge counter/ monitor. (In addition to above)	item65	6	NO			0.00			0.00		0.000	0.000	INR Zero Only
4.00	Spares-GIS: Recommended O&M Spares for 400kV, 63kA for 3sec, Gas Insulated Switchgear (GIS) as per TS	item66	1	Lot			0.00			0.00		0.000	0.000	INR Zero Only
5.01	SUPPLY- GIS: SPARES: 400KV, OPERATING MECHANISM FOR CIRCUIT BREAKER COMPLETE IN ALL RESPECT	item67	1	Set			0.00			0.00		0.000	0.000	INR Zero Only
5.02	SUPPLY- GIS: SPARES: 400KV, OPERATING MECHANISM FOR DISCONNECTOR	item68	1	Set			0.00			0.00		0.000	0.000	INR Zero Only
5.03	SUPPLY- GIS: SPARES: 400KV, OPERATING MECHANISM FOR MAINTENANCE EARTHING SWITCH COMPLETE IN ALL RESPECT	item69	1	Set			0.00			0.00		0.000	0.000	INR Zero Only
5.04	SUPPLY- GIS: SPARES: 400KV, OPERATING MECHANISM FOR FAST ACTING/ HIGH SPEED GROUNDING SWITCH COMPLETE IN ALL RESPECT	item70	1	Set			0.00			0.00		0.000	0.000	INR Zero Only
5.05	SUPPLY- GIS: SPARES: 400KV, MAINTENANCE EARTHING SWITCH COMPLETE IN ALL RESPECT	item71	1	Set			0.00			0.00		0.000	0.000	INR Zero Only
5.06	SUPPLY- GIS: SPARES: 400KV, FAST ACTING/ HIGH SPEED GROUNDING SWITCH COMPLETE IN ALL RESPECT	item72	1	Set			0.00			0.00		0.000	0.000	INR Zero Only
5.07	SUPPLY- GIS: SPARES: 400KV, SINGLE PHASE BUS BAR	item73	1	Mtrs			0.00			0.00		0.000	0.000	INR Zero Only
5.08	SUPPLY- GIS: SPARES: 400KV, GIS METALLIC ENCLOSURE	item74	50	Kgs			0.00			0.00		0.000	0.000	INR Zero Only
5.09	SUPPLY- GIS: SPARES: 400KV, EXPANSION JOINTS	item75	1	Set			0.00			0.00		0.000	0.000	INR Zero Only
5.10	SUPPLY- GIS: SPARES: 400KV, FLEXIBLE CONNECTIONS	item76	1	Set			0.00			0.00		0.000	0.000	INR Zero Only
5.11	SUPPLY- GIS: SPARES: 400KV, BARRIER INSULATOR	item77	1	Set			0.00			0.00		0.000	0.000	INR Zero Only

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1	2	3	4	5	13	14	15	16	20	21	51	53	54	55
5.12	SUPPLY- GIS: SPARES: 400KV, NON-BARRIER INSULATOR	item78	1	Set			0.00			0.00		0.000	0.000	INR Zero Only
5.13	SUPPLY- GIS: SPARES: 400KV, GAS SEALS	item79	1	Set			0.00			0.00		0.000	0.000	INR Zero Only
5.14	SUPPLY- GIS: SPARES: 400KV, GAS DENSITY MONITOR SWITCH	item80	1	Set			0.00			0.00		0.000	0.000	INR Zero Only
5.15	SUPPLY- GIS: SPARES: 400KV, GAS PRESSURE SWITCH	item81	1	Set			0.00			0.00		0.000	0.000	INR Zero Only
5.16	SUPPLY- GIS: SPARES: 400KV, TEE BEND	item82	1	Set			0.00			0.00		0.000	0.000	INR Zero Only
5.17	SUPPLY- GIS: SPARES: 400KV, ANGLE BEND	item83	1	Set			0.00			0.00		0.000	0.000	INR Zero Only
5.18	SUPPLY- GIS: SPARES: 400KV, L-BEND	item84	1	Set			0.00			0.00		0.000	0.000	INR Zero Only
6.01	SERVICES- GIS: SUPERVISION OF ERECTION: 400KV, SF6 GIS BAY MODULE (INCLUDING LCC, SF6 GAS WITH ADDITIONAL REQUIREMENT, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	item85	6	SET			0.00			0.00		0.000	0.000	INR Zero Only
6.02	SERVICES- GIS: TESTING & COMMISSIONING: 400KV, SF6 GIS BAY MODULE (INCLUDING LCC, SF6 GAS WITH ADDITIONAL REQUIREMENT, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	item86	6	SET			0.00			0.00		0.000	0.000	INR Zero Only
6.03	SERVICES- GIS: SUPERVISION OF ERECTION: 400KV, SINGLE PHASE GAS INSULATED BUS DUCT OUTSIDE GIS HALL (INCLUDING SF6 GAS, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	item87	550	MTRS			0.00			0.00		0.000	0.000	INR Zero Only
6.04	SERVICES- GIS: TESTING & COMMISSIONING: 400KV, SINGLE PHASE GAS INSULATED BUS DUCT OUTSIDE GIS HALL (INCLUDING SF6 GAS, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	item88	550	MTRS			0.00			0.00		0.000	0.000	INR Zero Only
6.05	SERVICES- GIS: SUPERVISION OF ERECTION: 400KV, SINGLE PHASE SF6 TO AIR BUSHING (INCLUDING SF6 GAS, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	item89	15	SET			0.00			0.00		0.000	0.000	INR Zero Only
6.06	SERVICES- GIS: TESTING & COMMISSIONING: 400KV, SINGLE PHASE SF6 TO AIR BUSHING (POLYMER) (INCLUDING SF6 GAS, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	item90	15	SET			0.00			0.00		0.000	0.000	INR Zero Only
6.07	SERVICES- GIS: SUPERVISION OF ERECTION: 400KV, SINGLE PHASE SF6 TO CABLE TERMINATION MODULE (INCLUDING SF6 GAS, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	item91	1	SET			0.00			0.00		0.000	0.000	INR Zero Only
6.08	SERVICES- GIS: TESTING & COMMISSIONING: 400KV, SINGLE PHASE SF6 TO CABLE TERMINATION MODULE (INCLUDING SF6 GAS, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	item92	1	SET			0.00			0.00		0.000	0.000	INR Zero Only
6.09	SERVICES- GIS: SUPERVISION OF ERECTION: 360KV, 20kA, CLASS-4 SURGE ARRESTER (INCLUDING SF6 GAS, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	item93	6	SET			0.00			0.00		0.000	0.000	INR Zero Only
6.10	SERVICES- GIS: TESTING & COMMISSIONING: 360KV, 20kA, CLASS-4 SURGE ARRESTER (INCLUDING SF6 GAS, SUPPORT STRUCTURE WITH HARDWARES AND EARTHING MATERIALS)	item94	6	SET			0.00			0.00		0.000	0.000	INR Zero Only
6.11	SERVICES- GIS: FINAL SUCCESSFUL HV/ POWER FREQUENCY TESTING OF GIS INCLUDING ARRANGING OF HV TEST KIT ALONG WITH OPERATOR	item95	1	Lot			0.00			0.00		0.000	0.000	INR Zero Only
6.12	SERVICES- GIS: SUPERVISION OF ERECTION: 400KV, CONTROLLED SWITCHING DEVICE (CSD) FOR GIS THREE PHASE CIRCUIT BREAKER	item96	7	SET			0.00			0.00		0.000	0.000	INR Zero Only

Name of the Bidder/ Bidding Firm / Company :														
PRICE SCHEDULE														
NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER #	NUMBER #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units	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	13	14	15	16	20	21	51	53	54	55
6.13	SERVICES- GIS: TESTING & COMMISSIONING: 400KV, CONTROLLED SWITCHING DEVICE (CSD) FOR GIS THREE PHASE CIRCUIT BREAKER	item97	7	SET			0.00			0.00		0.000	0.000	INR Zero Only
6.14	SERVICES- GIS: INSULATION CO-ORDINATION STUDIES GIS SYSTEM COMPLETE	item98	1	LOT			0.00			0.00		0.000	0.000	INR Zero Only
6.15	SERVICES- GIS: ANNUAL MAINTENANCE SERVICE SUPPORT FOR 400KV GIS PACKAGE	item99	1	LOT			0.00			0.00		0.000	0.000	INR Zero Only
7.01	SERVICES- GIS : REFERENCE UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR SUPERVISION OF ERECTION OF GIS	item100	10	MAN-DAY			0.00			0.00		0.000	0.000	INR Zero Only
7.02	SERVICES- GIS : REFERENCE UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR TESTING & COMMISSIONING OF GIS	item101	10	MAN-DAY			0.00			0.00		0.000	0.000	INR Zero Only
7.03	SERVICES- GIS : REFERENCE UNIT OF GIS INDIVIDUAL ITEM/ EQUIPMENT - HIRING CHARGES OF HV TEST KIT WITH OPERATOR	item102	1	LOT			0.00			0.00		0.000	0.000	INR Zero Only
8.01	SERVICE: TRAINNG: TRAINING IN CONSTRUCTION, INSTALLATION, COMMISSIONING AND O&m OF GIS BEING SUPPLIED AT MANUFACTURES WORKS/ FACILITY	item103	70	MAN-DAY			0.00			0.00		0.000	0.000	INR Zero Only
Total in Figures												0.000	0.000	Zero Only
Quoted Rate in Words												INR Zero Only		