Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)
Transmission Business Group
Materials Management, 5th Floor, Plot No.25,
Sector-16A, Noida, Uttar Pradesh, PIN No: 201301
Phone: 0120-6748543, Email: gaurav.agarwal@bhel.in

CORRIGENDUM - 01 TO NIT NO-95618

Dated 19-11-2025

Subject: Corrigendum-01 to Tender enquiry for Pre-Bid Tie up for Supply & Services of 400KV GIS for POWERGRID's Substation Package SS-142T (Niglok).

Project	: POWERGRID's Substation Package SS-142T (Niglok)
Equipment / Item	: Supply & Services of 400kV GIS and Its associated equipment
Enquiry No/Date	: Enquiry No. 61Q2600368 Dated 13-11-2025
BHEL NIT NO	: 95618
Original Tender due date	**: 24-11-2025**

This Corrigendum is issued by BHEL TBG against above mentioned NIT/ enquiry for issuance of Technical Corrigendum Rev-01. Due to change in BOQ, Revised price bid format (unpriced) is also enclosed and same need to be followed for bid submission.

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 **2025_BHEL_54749_1.**

Thanking you

-------Sd/------
Gaurav Agarwal
BHEL TBG, NOIDA

Ref. No.	**Technical Corrigendum-01**
Project:	**Pre-Bid Tie up for 400 kV GIS Substation Package SS142T for (a) Establishment of 400 kV GIS Switching station (New) at Niglok in Arunachal Pradesh (b) Extension of 400 kV (AIS) S/s at Gogamukh associated with "NERGS-III Siang Basin" through tariff based competitive bidding (TBCB) route prior to RfP bid submission by POWERGRID to BPC; Specification No: CC/T/W-GIS/DOM/A04/25/13443**
Package/Item:	**400 kV GAS INSULATED SWITCHGEAR WITH ITS ACCESSORIES**
Technical Specification No.	**TB-PBTU-GIS-PGCIL-NIGLOK, REV-00**
Date:	**19.11.2025**

Sl. No.	Volume/ Section/ Clause	Volume/ Section/ Clause as Existing	Volume/ Section/ Clause as Amended/ Added in Technical Corrigendum
1	Technical Specification / Section 1.3 & Section 1.5	Section-1.3 - Section-Project Section-1.5 - BOQ (Bill of Quantity)	**Amendment No. I (Technical)** dated 19.11.2025 to the Technical Portion of the Bidding Document. (Copy attached).
2	-	-	**Clarification No. I (Technical)** dated 19.11.2025 to the Technical Portion of the Bidding Document. (copy attached).

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.

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Amendment No. I (Technical)

Amendment No. I (Technical) dated 19.11.2025 to the technical portion of the Bidding Document for **Pre-Bid Tie up** for **400 kV GIS Substation Package SS142T** for (a) Establishment of 400 kV GIS Switching station (New) at Niglok in Arunachal Pradesh (b) Extension of 400 kV (AIS) S/s at Gogamukh associated with "NERGS-III Siang Basin" through tariff based competitive bidding (TBCB) route prior to RfP bid submission by POWERGRID to BPC; Specification No: CC/T/W-GIS/DOM/A04/25/13443

<table>
<tr><th>Sl. No.</th><th>Clause Ref. No.</th><th>Existing provision</th><th>Amended as</th></tr>
<tr><td>1.</td><td>Section 1.5 of Technical Specification [Bill of Quantity]</td><td>ANNEXURE- BOQ_GIS_NIGLOK_REV00
Existing line item:
<table><tr><th>Sl. No.</th><th>ITEM DESCRIPTION</th><th>UNIT</th><th>QTY</th></tr><tr><td>1.07</td><td>420KV, 4000 A, 63 KA, SF6 GIS BUS BAR MODULE AS PER SECTION-PROJECT, TECHNICAL SPECIFICATION</td><td>SET</td><td>2</td></tr></table></td><td>ANNEXURE- BOQ_GIS_NIGLOK_REV01 (Copy attached)
Line item amended as below:
<table><tr><th>Sl. No.</th><th>ITEM DESCRIPTION</th><th>UNIT</th><th>QTY</th></tr><tr><td>1.07</td><td>420KV, 5000 A, 63 KA, SF6 GIS BUS BAR MODULE AS PER SECTION-PROJECT, TECHNICAL SPECIFICATION</td><td>SET</td><td>2</td></tr></table></td></tr>
<tr><td>2.</td><td>Section 1.3 of Technical Specification- [Section Project] Clause no. 6. (b)
CLAUSE MODIFIED</td><td><table><tr><th>Sl. No</th><th>Description of bay</th><th>400 kV Niglok (GIS) S/s</th><th>400kV Gogamukh S/s</th></tr><tr><td></td><td></td><td>400 kV</td><td>400 kV</td></tr><tr><td>1.</td><td>Bus Bar</td><td>4000A</td><td>4000A</td></tr><tr><td>2.</td><td>Line bay</td><td>3150 A</td><td>3150A</td></tr><tr><td>3.</td><td>ICT bay</td><td>NA</td><td>NA</td></tr><tr><td>4.</td><td>Bus reactor</td><td>3150 A</td><td>NA</td></tr><tr><td>5.</td><td>Tie Bay</td><td>3150 A</td><td>3150 A</td></tr><tr><td>6.</td><td>Line reactor bay</td><td>3150 A</td><td>NA</td></tr></table></td><td><table><tr><th>Sl. No.</th><th>Description of bay</th><th>400kV Niglok (GIS) S/S</th><th>400kV Gogamukh S/s</th></tr><tr><td></td><td></td><td>400kV</td><td>400kV</td></tr><tr><td>1.</td><td>Bus Bar</td><td>5000A</td><td>4000 A</td></tr><tr><td>2.</td><td>Line bay</td><td>3150A</td><td>3150A</td></tr><tr><td>3.</td><td>ICT bay</td><td>NA</td><td>NA</td></tr><tr><td>4.</td><td>Bus Reactor Bay</td><td>3150A</td><td>NA</td></tr><tr><td>5.</td><td>Tie bay</td><td>3150A</td><td>3150A</td></tr><tr><td>6.</td><td>Line Reactor Bay</td><td>3150A</td><td>NA</td></tr></table></td></tr>
<tr><td>3.</td><td>Section 1.3 of Technical Specification- [Section Project] Clause no. 9.18
NEW CLAUSE ADDED</td><td>-</td><td>9.18 400kV Bay configuration at Niglok switching station shall consist of 03 Nos. of full diameter (one diameter consists of two Nos. Main and associated Tie bays) for termination of Bus Reactor/Line bays as per following feeder distribution.
<table><tr><th>Configuration</th><th>Number of diameters</th></tr><tr><td>Bus Reactor - Tie- CKT-I (Kaying PS – Niglok PS)</td><td>1 (One)</td></tr><tr><td>CKT-I (Niglok PS – Gogamukh) -Tie- CKT-II (Kaying PS – Niglok PS)</td><td>1 (One)</td></tr><tr><td>CKT-II (Niglok PS – Gogamukh) -Tie- Bus Reactor</td><td>1 (One)</td></tr></table></td></tr>
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SECTION-1.5
BILL OF QUANTITY

ANNEXURE- BOQ_GIS_NIGLOK_REV01

Sl. No.	ITEM DESCRIPTION	UNIT	QTY	REMARK
1.00	**SUPPLY- GIS : 400kV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS**			
1.01	420KV, 3150 A, 63 KA, SF6 GIS BUS REACTOR BAY MODULE AS PER SECTION-PROJECT, TECHNICAL SPECIFICATION	SET	2	
1.02	420 KV, 3150 A, 63 KA, SF6 GIS LINE FEEDER BAY MODULE (WITHOUT PIR) AS PER SECTION-PROJECT, TECHNICAL SPECIFICATION	SET	4	
1.03	420KV, 3150 A, 63 KA, SF6 GIS TIE BAY MODULE (WITHOUT PIR) AS PER SECTION-PROJECT, TECHNICAL SPECIFICATION	SET	3	
1.04	420KV, 3150A, 63KA SF6 TO AIR BUSHING INCLUDING SUPPORT STRUCTURE	SET	24	
1.05	CONTROLLED SWITCHING DEVICE FOR 420 KV, 3-PH CIRCUIT BREAKER	EA	6	
1.06	420KV, 3000A, 63KA, SINGLE PHASE, SF6 GAS INSULATED BUS DUCT (GIB) OUTSIDE GIS HALL ALONGWITH ASSOCIATED SUPPORT STRUCTURE, ETC. AS PER TECHNICAL SPECIFICATION	M	1400	
1.07	420KV, **5000 A**, 63 KA, SF6 GIS BUS BAR MODULE AS PER SECTION-PROJECT,TECHNICAL SPECIFICATION	SET	2	
1.08	420KV, 3150 A, 63 KA, SF6 GIS SWITCHABLE LINE REACTOR BAY MODULE AS PER SECTION-PROJECT, TECHNICAL SPECIFICATION	SET	2	
2.00	**SUPPLY- GIS : 400KV, SPECIAL TOOLS AND TESTING & MAINTENANCE EQUIPMENTS AS PER TS**			
2.01	SCISSOR LIFT	EA	1	
2.02	PORTABLE PARTIAL DISCHARGE MEASUREMENT TEST KIT WITH ALL NECESSARY ACCESSORIES, INDUSTRIAL GRADE LAPTOP AND LICENSED SOFTWARE AS PER TECHNICAL SPECIFICATION.	EA	1	
2.03	SF6 GAS ANALYZER	EA	1	
2.04	SF6 GAS LEAKAGE DETECTOR	EA	1	
2.05	SF6 GAS PROCESSING UNIT FOR 400KV GIS STATION	SET	1	
3.00	**SPARES- GIS : 400kV, 63KA FOR 1S, MANDATORY SPARES AS PER TS**			
3.01	400KV GIS-SF6 GAS PRESSURE RELIEF DEVICE ASSEMBLY OF EACH TYPE	SET	2	1 SET= 1 NUMBER OF EACH MAKE, TYPE AND RATING
3.02	SF6 PRESSURE GAUGE CUM SWITCH/ DENSITY MONITORS AND PRESSURESWITCH AS APPLICABLE, OF EACH TYPE-400KV GIS	SET	3	
3.03	COUPLING DEVICE FOR PRESSURE GAUGE CUM SWITCH FOR CONNECTING GAS HANDLING PLANT OF EACH TYPE-400KV GIS	SET	2	
3.04	RUBBER GASKETS, 'O'RINGS AND SEALS FOR SF6 GAS FOR GISENCLOSURE OF EACH TYPE-400KV GIS	SET	3	
3.05	400KV GIS-MOLECULAR FILTER FOR SF6 GAS WITH FILTER BAGS (5% OF TOTAL WEIGHT)	SET	1	
3.06	CONTROL VALVES FOR SF6 GAS OF EACH TYPE-400KV GIS	SET	3	
3.07	400KV GIS-SF6 GAS (5% OF TOTAL GAS QUANTITY)	LOT	1	
3.08	LOCKING DEVICE TO KEEP THE DIS-CONNECTORS (ISOLATORS) AND EARTHING/ FAST EARTHING SWITCHES IN CLOSE OR OPEN POSITION IN CASE OF REMOVAL OF THE DRIVING MECHANISM-400KV GIS	SET	3	
3.09	UHF PD SENSORS OF EACH TYPE ALONG WITH BNC CONNECTOR FOR 420KV GIS	SET	5	1 SET= 1 NUMBER OF EACH MAKE, TYPE AND RATING
3.10	400KV GIS-SUPPORT INSULATORS (GAS THROUGH) OF EACH TYPE (COMPLETE WITH METAL RING ETC.) ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	SET	5	1 SET= 1 NUMBER OF EACH MAKE, TYPE AND RATING
3.11	400KV GIS-GAS BARRIERS OF EACH TYPE (COMPLETE WITH METAL RING ETC.) ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	SET	5	1 SET= 1 NUMBER OF EACH MAKE, TYPE AND RATING
3.12	400KV GIS- 3150A SF6 TO AIR BUSHING COMPLETE IN ALL RESPECT	SET	1	1 SET= 1 NUMBER OF EACH MAKE, TYPE AND RATING
3.13	LCC SPARES - AUX. RELAYS, CONTACTORS,PUSH BUTTONS, SWITCHES,LAMPS,ANNUNCIATION WINDOWS, MCB, FUSES,TIMERS, TERMINAL BLOCKS ETC. OF EACH TYPE & RATING-400kV GIS	SET	2	
3.14	400KV GIS-ONE POLE OF 3150A CIRCUIT BREAKER WITHOUT PIR WITH INTERRUPTER, MAIN CIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALL RESPECT	SET	1	
3.15	TRIP COIL ASSEMBLY WITH RESISTOR FOR 420KV GIS CIRCUIT BREAKER (AS APPLICABLE)	SET	3	
3.16	CLOSING COIL ASSEMBLY WITH RESISTOR FOR 420KV GIS CIRCUIT BREAKER (AS APPLICABLE)	SET	3	
3.17	RELAYS, POWER CONTACTORS, PUSH BUTTONS, TIMERS & MCBS ETC. (ASAPPLICABLE) OF EACH TYPE FOR 400KV GIS CIRCUIT BREAKER	SET	1	
3.18	AUXILIARY SWITCH ASSEMBLY OF EACH TYPE FOR 420KV GIS CIRCUIT BREAKER	SET	3	
3.19	400KV GIS CIRCUIT BREAKER-OPERATION COUNTER	SET	3	1 SET= 1 NUMBER OF EACH MAKE, TYPE AND RATING
3.20	400KV GIS CIRCUIT BREAKER-HYDRAULIC OPERATING MECHANISM WITH DRIVE MOTOR (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.21	HYDRAULIC FILTER OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	SET	1	
3.22	400KV GIS CIRCUIT BREAKER- HOSE PIPE OF EACH TYPE (AS APPLICABLE) (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	

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Sl. No.	ITEM DESCRIPTION	UNIT	QTY	REMARK
3.23	400KV GIS CIRCUIT BREAKER - N2 ACCUMULATOR (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.24	VALVES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-400KV GIS CIRCUIT BREKAER	SET	1	
3.25	PIPE LENGTH (COPPER & STEEL) OF EACH SIZE & TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	SET	1	
3.26	PRESSURE SWITCHES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	SET	1	
3.27	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	SET	1	
3.28	400KV GIS CIRCUIT BREAKER-HYDRAULIC OIL (5% OF TOTAL OIL QUANTITY)(FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.29	PRESSURE RELIEF DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM,IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	SET	1	
3.30	400KV GIS CIRCUIT BREAKER-COMPLETE SPRING OPERATING MECHANISM INCLUDING CHARGING MECHANISM ETC. (FOR SPRING OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.31	400KV GIS CIRCUIT BREAKER- COMPLETE HYDRAULIC-SPRING OPERATINGMECHANISM INCLUDING CHARGING MECHANISM ETC. (FOR HYDRAULIC-SPRING OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.32	PRESSURE SWITCHES OF EACH TYPE FOR420KV GIS CIRCUIT BREAKER (FOR HYDRAULIC-SPRING OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.33	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULIC-SPRINGOPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	SET	1	
3.34	400KV GIS- SINGLE PHASE OF 3150A DISCONNECTOR SWITCH INCLUDING MAINCIRCUIT, ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC., COMPLETE IN ALL RESPECT	SET	4	1 SET= 1 NUMBER OF EACH MAKE, TYPE AND RATING (NOTE 1- THE CONTRACTOR/BIDDER SHALL SUPPLY SPARE FOR DISCONNECTOR SWITCH TO ENSURE ONE TO ONE REPLACEMENT OF ALL DISCONNECTOR SWITCH SUPPLIED AS MAIN EQUIPMENT WITHOUT ANY REQUIREMENTOF MODIFICATION IN FITTINGS AT SITE TO COVER ALL DIFFERENT TYPES OF DISCONNECTOR SWITCH SUPPLIED. IN CASE,QUANTITY OF SUPPLIED DIS-CONNECTOR SWITCH TYPES (FOR ONE TO ONE REPLACEMENT) ARE MORE THAN THE QUANTITY MENTIONED IN BPS FOR SPARE, THE CONTRACTOR/BIDDER SHALL SUPPLY THESE ADDITIONAL TYPES OF DISCONNECTOR SWITCH WITHOUT ANY ADDITIONAL PRICE IMPLICATION TO POWERGRID AND QUANTITIES OF THESE ADDITIONAL TYPE OF DISCONNECTOR SWITCH ARE DEEMED TO BE INCLUDED IN THE QUANTITIES MENTIONED IN BPS FOR SPARE DISCONNECTOR. NOTE 2 - INCASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAME ENCLOSURE WITH COMMON OPERATING MECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR & EARTH SWITCH INSINGLE ENCLOSURE WITH COMMON OPERATING MECHANISM IS TO BE PROVIDED UNDER THE HEAD OF SPARE DIS-CONNECTOR ONLY. NOTE3- IN CASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAME ENCLOSURE WITH SEPARATE OPERATING MECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR & EARTH SWITCH IN SINGLE ENCLOSURE WITH SEPARATE OPERATING MECHANISM IS TO BE PROVIDED UNDER THE HEAD OF SPARE DIS-CONNECTOR ONLY.)
3.35	400KV GIS- SINGLE PHASE MAINTENANCE EARTHING SWITCH INCLUDING MAINCIRCUIT, ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC.,COMPLETE IN ALL RESPECT	SET	2	1 SET= 1 NUMBER OF EACH MAKE, TYPE AND RATING (NOTE 1 - IN CASE, DIS-CONNECTOR SWITCH (DS) &EARTH SWITCH (ES) IS PROVIDED IN A SAME ENCLOSURE WITH COMMONOPERATING MECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR &EARTH SWITCH IN SINGLE ENCLOSURE WITH COMMON OPERATING MECHANISM IS TOBE PROVIDED UNDER THE HEAD OF SPARE DIS-CONNECTOR ONLY. NOTE 2 - INCASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN ASAME ENCLOSURE WITH SEPARATE OPERATING MECHANISM, THEN THE MODULECOMPRISING OF DIS-CONNECTOR & EARTH SWITCH IN SINGLE ENCLOSURE WITHSEPARATE OPERATING MECHANISM IS TO BE PROVIDED UNDER THE HEAD OF SPAREDIS-CONNECTOR ONLY.)
3.36	400KV GIS - SINGLE PHASE FAST EARTHING SWITCH INCLUDING MAIN CIRCUIT,ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC., COMPLETE INALL RESPECT	SET	2	1 SET= 1 NUMBER OF EACH MAKE, TYPE AND RATING (NOTE 1 - IN CASE, DIS-CONNECTOR SWITCH (DS) & EARTHSWITCH (ES) IS PROVIDED IN A SAME ENCLOSURE WITH COMMON OPERATINGMECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR & EARTH SWITCHIN SINGLE ENCLOSURE WITH COMMON OPERATING MECHANISM IS TO BE PROVIDEDUNDER THE HEAD OF SPARE DIS-CONNECTOR ONLY. NOTE 2 - IN CASE,DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAMEENCLOSURE WITH SEPARATE OPERATING MECHANISM, THEN THE MODULECOMPRISING OF DIS-CONNECTOR & EARTH SWITCH IN SINGLE ENCLOSURE WITHSEPARATE OPERATING MECHANISM IS TO BE PROVIDED UNDER THE HEAD OF SPAREDIS-CONNECTOR ONLY.)
3.37	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKINGCOILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONE OF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 400KV GIS DISCONNECTOR SWITCH	SET	1	
3.38	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKING COILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONE OF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 400KV GIS MAINTENANCE EARTH SWITCH	SET	1	

Sl. No.	ITEM DESCRIPTION	UNIT	QTY	REMARK
3.39	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKING COILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONE OF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 400KV GIS FAST EARTHING SWITCH	SET	1	
3.40	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR DISCONNECTOR-400KV GIS	SET	2	
3.41	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR MAINTENANCE EARTHING SWITCH-400KV GIS	SET	2	
3.42	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR FAST EARTHING SWITCH (IF APPLICABLE)-400KV GIS	SET	2	
3.43	DRIVE MECHANISM FOR 400KV GIS DISCONNECTOR SWITCH	SET	1	
3.44	DRIVE MECHANISM FOR 400KV GIS MAINTENANCE EARTH SWITCH	SET	1	
3.45	DRIVE MECHANISM FOR 400KV GIS FAST EARTHING SWITCH	SET	1	
3.46	MOTOR FOR DRIVE MECHANISM FOR 400KV GIS DISCONNECTOR SWITCH	SET	1	1 SET= 1 NUMBER OF EACH MAKE, TYPE AND RATING
3.47	MOTOR FOR DRIVE MECHANISM FOR 400KVGIS MAINTENANCE EARTH SWITCH	SET	1	1 SET= 1 NUMBER OF EACH MAKE, TYPE AND RATING
3.48	MOTOR FOR DRIVE MECHANISM FOR 400KV GIS FAST EARTHING SWITCH	SET	1	1 SET= 1 NUMBER OF EACH MAKE, TYPE AND RATING
3.49	400KV GIS- SINGLE PHASE OF CURRENT TRANSFORMER (3 CORES, TYPE-CTA)WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALL RESPECT	SET	1	1 SET= 1 NUMBER OF EACH MAKE, TYPE AND RATING
3.50	400KV GIS- SINGLE PHASE OF CURRENT TRANSFORMER (2 CORES, TYPE-CTB) WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALL RESPECT	SET	1	1 SET= 1 NUMBER OF EACH MAKE, TYPE AND RATING
3.51	400KV GIS- SINGLE PHASE VT WITH ASSOCIATED ENCLOSURE COMPLETE IN ALL RESPECT	SET	1	1 SET= 1 NUMBER OF EACH MAKE, TYPE AND RATING
4.00	**SERVICES- GIS : 400kV, 63kA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS**			
4.01	SERVICES- GIS : 400kV, SUPERVISION OF ERECTION OF GIS	bays	11	Supervision of erection of GIS with main bus & auxiliary bus (if applicable), complete as per TS in all respect including LCC, its accessories and CSD (if applicable). It also includes verification of materials for proper storage at site for final storage. Earthing, SF6 Gas Filling works, Internal Cabling from GIS to LCC, interfacing of CSD (if applicable) with GIS/ CRP, including Structure Works are covered under this item. GIS Bus Duct & SF6 to Air Bushing (SAB) are not covered in this BOQ item.
4.02	SERVICES- GIS : 400kV, SUPERVISION OF ERECTION OF GAS INSULATED BUS DUCT	MTR	1400	Supervision of erection of GIB complete as per TS in all respect. GIB outside the GIS Hall wall shall be considered for mode of measurement. Earthing, SF6 Gas Filling works, Internal Cabling from GIS to LCC, including Structure Works are covered under this item. Inner side GIB / Aux Bus (if applicable) Module etc are to be considered as part of respective GIS Assembly and cost of the same shall be deemed inclusive.
4.03	SERVICES- GIS : 400kV, SUPERVISION OF ERECTION OF SF6 TO AIR BUSHING	SET	24	Earthing, SF6 Gas Filling works, Internal Cabling from GIS to LCC, including Structure Works are covered under this item.
4.04	SERVICES- GIS : 400kV, TESTING & COMMISSIONING OF GIS	bays	11	Testing and commissioning of complete GIS system including main bus, LCC and associated system 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.
4.05	SERVICES- GIS : 400kV, TESTING & COMMISSIONING OF GAS INSULATED BUS DUCT	MTR	1400	GIB outside the GIS Hall wall shall be considered for mode of measurement. Inner side GIB / Aux Bus (if applicable) Module e.t.c. are to be considered as part of respective GIS Assembly and cost of the same shall be deemed inclusive. 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.
4.06	SERVICES- GIS : 400kV, TESTING & COMMISSIONING OF SF6 TO AIR BUSHING	SET	24	
4.07	SERVICES- ETC OF CONTROLLED SWITCHING DEVICE FOR 420 KV, 3-PH CIRCUIT BREAKER	SET	6	Installation and execution of Testing & commissioning complete as per TS in all respect. All the testing instruments, kits, T&P etc. are to be arranged by bidder on returnable basis. Please refer relevant section of technical specification for details.
4.08	SERVICES- GIS : 400kV, FINAL SUCCESSFUL HV/ POWER FREQUENCY TESTING OF GIS INCLUDING ARRANGING OF HV TEST KIT ALONG WITH OPERATOR	bays	11	Carrying out successful HV/ Power Frequency Testing of 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 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.
4.09	SERVICES- GIS : INSULATION CO-ORDINATION STUDIES FOR GIS SYSTEM	LOT	1	1 Lot means Complete study report as per technical specification, Including VFTO report.
5.00	**SUPPLY- GIS : 400kV, 63kA FOR 1S, REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS**			
	(Unit Prices of Individual Equipment included here or in manadatory 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 : 400kV, SINGLE PHASE BUS BAR	MTR	1	Complete in all respect.
5.02	SUPPLY- GIS : 400kV, GIS METALLIC ENCLOSURE	KG	50	
5.03	SUPPLY- GIS : 400kV, EXPANSION BELLOWS/ JOINTS	SET	1	For Single Phase of any type and any rating.
5.04	SUPPLY- GIS : 400kV, TEE BEND	SET	1	For Single Phase of any type and any rating.

Sl. No.	ITEM DESCRIPTION	UNIT	QTY	REMARK
5.05	SUPPLY- GIS : 400kV, ANGLE BEND	SET	1	For Single Phase of any type and any rating.
5.06	SUPPLY- GIS : 400kV, L-BEND	SET	1	For Single Phase of any type and any rating.
6.00	**SERVICES- GIS : 400kV, 63kA FOR 1S, REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SERVICES**			
	SERVICES- GIS : REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SERVICES ***(Unit Prices of Individual services included here are required for any Addition/Deletion of Equipment and replacement of damaged items. Vendor to ensure that the unit prices have a logical relationship with prices of assemblies in main items. Quoting for unit prices is mandatory and shall be considered for evaluation)***			
6.01	SERVICES- GIS : 400kV, REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR SUPERVISION OF ERECTION OF GIS	MANDAY	10	Charges for repetition of services - (if required due to reasons not attributed to the contractor). This item will be executed only if repetition of services is required by BHEL.
6.02	SERVICES- GIS : 400kV, REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR TESTING & COMMISSIONING OF GIS	MANDAY	10	Charges for repetition of services - (if required due to reasons not attributed to the contractor). This item will be executed only if repetition of services is required by BHEL.
	DEMOBILIZATION AND REMOBILIZATION CHARGES			
6.03	SERVICES- GIS : 400kV, DEMOBILIZATION AND REMOBILIZATION CHARGES FOR GIS ERECTION SUPERVISION TEAM	SET	1	THIS BOQ ITEM SHALL BE EXECUTED IF REQUIRED FOR REASONS NOT ATTRIBUTABLE TO BIDDER.
6.04	SERVICES- GIS : 400kV, DEMOBILIZATION AND REMOBILIZATION CHARGES FOR GIS TESTING & COMMISSIONING TEAM	SET	1	THIS BOQ ITEM SHALL BE EXECUTED IF REQUIRED FOR REASONS NOT ATTRIBUTABLE TO BIDDER.
6.05	SERVICES- GIS : 400kV, DEMOBILIZATION & REMOBILIZATION CHARGES OF HV TEST KIT ALONG WITH OPERATOR	LOT	1	Mobilization and demobilization charges for the HV test kit shall be applicable if it is required for a second time or more, due to reasons not attributable to the bidder.

10/11/25

Clarification No. I (Technical)

Clarification No. I (Technical) dated 19.11.2025 to the technical portion of the Bidding Document for **400 kV GIS Substation Package SS142T** for (a) Establishment of 400 kV GIS Switching station (New) at Niglok in Arunachal Pradesh (b) Extension of 400 kV (AIS) S/s at Gogamukh associated with "NERGS-III Siang Basin" through tariff based competitive bidding (TBCB) route prior to RfP bid submission by POWERGRID to BPC; Specification No: CC/T/W-GIS/DOM/A04/25/13443

Sl. No.	Reference Clause	Description	Bidder's Query	POWERGRID Reply
1	Technical Specification, Section – Project (Rev.0) clause 2.3.1.B.m), page 7 of 25	m) BATTERY AND BATTERY CHARGERS: The capacity of the Battery & Battery charger shall be worked out by the contractor for complete substation scope including future bays as specified at clause 2.1 above	A) For Future Line Bays, please provide the number of lines to be considered as Single Circuit and Double circuit, same is required for calculation of 48V battery bank capacity.	Bidder to refer Clause 1.3 of Section-Project for Scope of Transmission scheme.
2	C/ENGG/SPEC/BAT Rev. No:7, June'2024 clause 1.1.4, page 1 of 13	48V DC system Continuous Load- 10 Hrs continuous	B) Bidder understand the continous load requirement for 220V Battery is 3 hours whereas for 48V battery is 10 hours, so there is will be much higher rating requirement for the 48V Battery system of more than 2 times of the mentioned value. Please amend the minimum rating requirement of 48V battery to 3500AH to have parity among bidders.	The requirement as per BPS/TS is amply clear. Bidder to quote as per BPS and provisions of Bidding document.
3	Technical Specification, Section – Project (Rev.0) clause 2.1), page 4 of 25	1. 400 kV: 400 kV Line bays – 4 Nos. 400kV Bus reactor bay - 2 nos. 400kV Switchable Line reactor bays- 2 nos. All associated tie bays Future 400/220/33 kV, 500 MVA ICTs – 4 Nos. Future 400 kV ICT bays – 4 Nos. Future 420kV, 80 MVAr Bus Reactor – 1 Nos. Future 400kV Bus Reactor Bays – 1 No. Future 400kV Line Bays with Switchable Line reactor - 12 nos. Future 400 kV Bus Sectionalizer Bay – 1 set Future 400kV bays (6 complete diameter) associated with HVDC system All associate Future Tie bays. Future 220kV: Future 220 kV ICT bays – 4 Nos. Future 220 kV Line bays - 8 Nos Future 220 kV Bus Sectionalizer Bay – 1 Set Future 220kV Bus Coupler Bay - 2 Nos. Future HVDC yard (6000MW LCC HVDC station)	Bidder understands the bays to be considered for Central unit is as below :- 400 kV: 400 kV Line bays – 4 Nos. 400kV Bus reactor bay - 2 nos. 400kV Switchable Line reactor bays- 2 nos. All associated tie bays Future 400/220/33 kV, 500 MVA ICTs – 4 Nos. Future 400 kV ICT bays – 4 Nos. Future 420kV, 80 MVAr Bus Reactor – 1 Nos. Future 400kV Bus Reactor Bays – 1 No. Future 400kV Line Bays with Switchable Line reactor - 12 nos. Future 400 kV Bus Sectionalizer Bay – 1 set All associate Future Tie bays. Future 220kV: Future 220 kV ICT bays – 4 Nos. Future 220 kV Line bays - 8 Nos Future 220 kV Bus Sectionalizer Bay – 1 Set Future 220kV Bus Coupler Bay - 1 Nos. Please confirm.	Bidder to quote as per the provisions of TS & Bidding documents.
4	Technical Specification, Section – Project (Rev.0) clause 2.3.1.1.B.e), page 5 & 6 of 25	e) CONTROL, RELAY & PROTECTION SYSTEM: Central Unit must have adequate provision for input and out modules for all future peripheral units for bays under present Bus section.		Bidder to quote as per provisions of the Bidding Documents

5	Technical Specification, Section – Project (Rev.0) clause 2.3.1.1.B.h), page 6 of 25	h) Lightning protection (DSLP): In case,additional structures (Lightning Masts) are required to meet the lightning protection, same shall be paid in matric tonnage.	Bidder understand additional structures (Lightning Masts) shall be payable under BPS SCH-1 item sl no. 198. Please confirm.	It is confirmed that Lightning Masts structure shall be payable under BPS SCH-1 item sl no. 198,199, 200 & 201 for supply and SCH-3 item sl no. 174,175,176,177 for erection.
	BPS Sch-1 sl no. 198	Fabrication, galvanising and supply of Lattice Structures (MS Steel),to be designed during detailed engineering, for towers, beams andequipment support structure including pack plates / packwashers andgusset plates excluding fasteners and foundation bolts- 175 MT		
6	Technical Specification, Section – Project (Rev.0) clause 2.3.1.1.B.j), page 7 of 25	LT switchgear (AC/DC Distribution boards) considering all present and future 400kV & 220kV bays/ ICTs/Reactors as per clause no 2.1 above is under present scope.	Bidder understand LT Switchgear will cater to future 6 400kV GIS Diameters of associated with HVDC system. Aux Power requirement for other HVDC items like Convertor transformers/ Filters etc is not envisaged. Please confirm.	Bidder to quote as per provisions of the Bidding Documents
7	Technical Specification, Section – Project (Rev.0) clause 2.3.1.3.B.iv), page 10 of 25	iv) GIS Building:	Bidder understand the GIS buidling dimensions to be considered for the current scope of bays only. Please confirm.	Bidder to quote as per provisions of the Bidding Documents
8	Technical Specification, Section – Project (Rev.0) clause 2.3.1.B.r), page 7 of 25	Visual Monitoring System:- Further, in addition to the gates of the switchyard, the cameras shall also be located around the boundaries of entire S/s plot at suitable locations.	A) Bidder understand the boundary is considered for the current scope only. Please confirm. B) If future to be considered as well please provide tentative perimeter length of the boundary. C) Kindly specify the requirement of Camera around the boundaries of entire SS plot. 1. Which type of camera are acceptable along boundary, Bullet type or PTZ type. 2. Whether the cameras are pole mounted or wall mounted. 3. Applicable criterias for spacing between cameras for boundary wall. 4. Whether all cameras shall on integrated on same system or seperate system is required for boundary wall cameras	A) Boundary refers to the Boundary of entire plot plan including Present as well as Future Scope of complete Transmssion Scheme. B) Bidder to estimate perimeter of boundary/area as per the Cl. No. 1.3 of Section Project. C) Bidder to refer Annexure-S9 of Specific Requirement Rev.10

9		General	Please provide Coordinates for New site. Please provide the following drawings for extention Sites/projects:- A) Existing Layout marking the existing control room building B) Existing earthmat layout. C) Existing SLD marking the extention scope	Cooridnates for New sites shall be provided to the successful bidder during detailed engineering. Drawings of extension substation shall be provided to the successful bidder during detailed engineering.Bidder to quote as per the provisions of Bidding document.
10	Technical Requirement of Sub-contractors GTR Rev. 15	"The sub-contractor must have either of the following experience of having successfully completed similar works during last 7 years as on the last day of month previous to the one in which the sub-contractor is proposed to be engaged: a) Three similar works costing not less than the amount equal to 40% of the cost of the work to be sub-contracted. OR b) Two similar works costing not less than the amount equal to 50% of the cost of the work to be sub-contracted. OR c) One similar work costing not less than the amount equal to 80% of the cost of the work to be sub-contracted. 1. Minimum Average Annual Turnover **(MAAT) for best three years i.e. 36 months out of last five financial years of the sub-contractor should be.....: **Annual Gross Revenue from operations/ Gross operating income as incorporated in the profit & loss account excluding Other Income. a) Similar work shall mean the work which are of similar in nature to the work to be sub-contracted e.g. for the scope of civil work to be sub-contracted, the experience should be of civil work. b) The aforesaid qualifying requirement shall however, not be applicable for engaging labour as per extant policy. c) The cost of the work to be sub-contracted shall be considered as available in the Contract Agreement. However, if the value is not available in the Contract Agreement, the same shall be the estimated value for such work. d) The above criteria is in addition to extant policy on selection of sub-contractor as per WPPP, Vol-II. **e) The MAAT requirement shall be worked out basis the following formula: Minimum Average Annual Turnover (MAAT) = Cost of the work to be sub-contracted x 1.5/Completion period in years****	This criteria lays stringent condition for MAAT w.r.t. guidelines prescribed by CVC due to which getting healthy competition and bidding is tough at our end. We request POWERGRID to relax MAAT requirement for meeting Technical Requirement of Sub-contractors.	Bidder to quote as per provisions of the Bidding Documents
CRP & SAS Establishment of 400 kV Niglok GIS (New) Substation				
11	Ref Cl. Section Project 2.3.1.1 (e) Decentralized (distributed) type of bus bar protection system shall be provided for 400kV Niglok (GIS) substation.		we understand that the 400kV Bus Bar Protection is of Redundant + Decentralized type and considering provision of central units for both present and future bays. We understand, the peripheral/bay units for future bays are excluded from the present scope.	**Bidder to quote as per BPS and provisions of Bidding document.**
12	Ref Cl. Section Project 2.3.1.1 (f) Substation automation system		As per BPS and TS, We understand that SAS is based on IEC-61850 and SAS integration work and data configuration is considered only for the present scope of bays. Please confirm.	**The requirement as per BPS/TS is amply clear. Bidder to quote as per BPS and provisions of Bidding document.**

13	PLCC	We understand that the PLCC equipment to be considered at both ends of line feeders (i.e., local and remote end) under the current scope. Please confirm.	**Bidder to quote as per BPS and provisions of Bidding document.**
14	Ref Cl. Price schedule: PMUs for 400/220kV Niglok SS – 3 No.	In the present scope, there are a total of four-line bays; however as per the BOQ, PMUs have been considered for only three-line feeders. Kindly confirm.	Bidder to comply with the Bidding Documents Each PMU shall support measurement of 2 feeders/element i.e 3 PMU shall support measurement of 6 feeders/element (4 line and 2 bus feeders)
15	Ref Cl. Section Project 2.3.1.1 (t): The PMU supplied in this project shall support measurement of voltages and currents of at least 2 feeders/bays.	Please clarify this point.	PMU shall measure at least 2 sets of 3 phase voltage inputs and 2 sets of 3 phase current inputs. (i.e., Current and voltage of two feeders/elements)" PMU shall measure 16 Digital Input (i.e., 8 Digital Inputs per feeder) (Refer DRS of PMU)
16	Ref Cl. Section Project 2.3.1.1 (t): The PMUs shall be integrated with Phasor data Concentrator (PDC) at respective Regional Load Dispatch Centre (RLDC)/State Load Dispatch Centre (SLDC).	Necessary Support required for PMU at substation end for Integration with PDC shall be provided.	Refer Clause 2.3.1.1.B.(t).(iv) of Section Project "The Contractor shall extend technical support at Substation end for seamless integration of PMU with PDC at respective RLDC/SLDC end. The integration work at RLDC end will not be under the scope of the Contractor"
17	Tele-Communication Equipment	We understand that tele-communication equipment for line feeders to be considered at local end only. Any works at the remote end/RLDC/SLDC are not within the bidder scope. Kindly confirm.	All the configuration work of Supplied FOTE/system at substation end required for integration with RLDC/SLDC shall be in the scope of Bidder. Bidder to Bid as per BPS.

CRP & SAS EXTENSION OF 400KV GOGAMUKH AIS SUBSTATION			
18	Ref Cl. Price schedule: CRP for 400kV Bays 400KV CIRCUIT BREAKER RELAY PANEL (WITH AUTOMATION) – 4No.	As per BOQ, (i) Line bays: 2nos. (ii)Tie bays: 2nos We understand that this 400kV AIS SS with One and a Half Breaker Scheme with 2 dia having 2 spare bays in the present extension scope. Please confirm whether the SPARE bays are intended to complete the dia or is for future use. Please confirm the scope of BCU for spare bays.	Bidder to quote as per BPS and provisions of Bidding document.
19	Ref Cl. Section Project 2.3.2 (c) Augmentation of existing Bus Bar Protection at 400kV Gogamukh AIS Substation.	1) Please provide the details of make and model of existing busbar protection relays and provide the Existing BUSBAR CRP Scheme drawing along with necessary wiring connection of busbar protection. 2) Please confirm whether the existing Central Unit (CU) for busbar protection at the substation has sufficient capacity and communication ports to integrate the new bays under the present scope. 3) We understand Peripheral/bay units to be supplied for 2 number of Line feeders which is included in this scope. 4) Please confirm whether we have to consider busbar protection for the spare bays under the present scope?	1) Details shall be provided to the successful bidder during detail engineering. 2), 3) & 4) Bidder to refer clause 2.3.2. A). c) and quote inline with BPS and provisions of the Bidding Document.
20	Ref Cl. Section Project 2.3.2 (d) Augmentation of Substation Automation System	We understand that the integration of IEDs and Updating of SAS Data base & Up gradation of hardware & software for SAS integration for present bays is in our scope. Please confirm.	Bidder to refer clause 2.3.2. A). d) and quote inline with BPS and provisions of the Bidding Document.
21	SAS	Please provide the existing SAS architecture of 400kV Gogamukh AIS Substation and Please confirm the existing SAS (make/model) integration work.	Details shall be provided to the successful bidder during detail engineering
22	Tele-Communication Equipment	We understand that tele-communication equipment for line feeders to be considered at local end only. Any works at the remote end/RLDC/SLDC is not in bidder scope. Kindly confirm.	All the configuration work of Supplied FOTE/system at substation end required for integration with RLDC/SLDC shall be in the scope of Bidder. Bidder to Bid as per BPS.
23	New Communication Equipment integration	Please provide the make and model details of the existing SDH system.	The required details shall be provided to successful bidder during detailed engineering. Bidder to Bid as per BPS.
24	Ref Cl. Price Schedule: PMUs for 400/220kV Gogamukh SS – 1 No.	In the present scope, there are a total of two-line bays; however as per the BOQ, PMU have been considered for only one-line feeder. Kindly confirm.	Bidder to quote as per BPS and provisions of Bidding document.

CIVIL			
25	Price Schedule_ Civil works _ Steel reinforcement	The proposed locations do not fall within coastal regions and we are presumed have non-aggressive soil and water conditions. Therefore, we are considered TMT or HYSD reinforcement bars at both substation locations (i.e. Noglok SS & Gogamukh SS).	Bidder to quote as per BPS and technical specification.
26	Civil _ Technical specification_ clause: 10.5.6 _Protection coating for foundation	As the proposed locations are not in coastal regions and are presumed to have non-aggressive soil conditions such as alkaline or black cotton soil. Therefore, protective coating for foundations has not been considered for either substation (i.e. Noglok SS & Gogamukh SS) .	Bidder to quote as per BPS and technical specification.
27	Civil_ General	We have not considered re-routing & dismantling of existing under or above ground utilities if any under bidder scope for Gogamukh Substation extension works.	Bidder to quote as per BPS and technical specification.
28	Civil _ General	Kindly provide the Gogamukh Substation existing layout for bid purpose.	Details shall be provided to the successful bidder during detail engineering
29	Price Schedule_ Civil works _ switchyard panel room_ Ext. of Gogamukh Substation	Kindly confirm the SPR room height to be considered for the bid. Although not specified in the BPS, the tender drawings indicate heights of 6 meters and 9 meters. Please clarify whether we should consider 6 meters or 9 meters.	1. Height of the SPR shall be as per the drawing attached in the tender document. 2. Size of the SPR shall be finalized during detailed engineering.
30	Access Roads	we understand that the External Access Roads Until the Site / Plot (including necessary maintenance / clearance from obstructions due to natural or local events or weather to make the road accessible / motorable) are made available by the Owner (or by Owner through relevant authorities) to the Contractor for the Project Works i.e., Movement of Construction Vehicles, Transportation of project Personnel, Equipment etc. Kindly Confirm.	Bidder to quote as per the provisions of Bidding document.
31	Disposal of packing material, cable drums & other material etc.,	We considered that location on disposal of debris will be very near to Substation (i.e., within 500 meters from site location).	Bidder to quote as per the provisions of Bidding document.
31	Disposal of hard rock, waste, debris, etc.	We considered that location of disposal of debris will be very near to Substation (i.e., within 500 meters from site location)	Bidder to quote as per the provisions of Bidding document.
32	Site/Plot access	We understand that free access to site/plot areas shall be provided by M/s PGCIL. Kindly confirm.	Bidder to quote as per the provisions of Bidding document.

33	Site land	We understand that land for the construction and execution of bidder's Scope of works shall be free issued by M/s PGCIL. Kindly confirm.	Bidder to quote as per the provisions of Bidding document.
34	General -Plot co-ordinates	Kindly provide the proposed plot co-ordinates.	Plot details shall be furnished to the successful bidder during Detail Enginnering. Bidder to quote as per the provisions of Bidding document.
35	Request For Site Person Contact Details	Request you to kindly provide Site Person Contact details for site visit.	Bidder is advised to contact NER Regional Headquarters at Shillong.
36	Construction Power	We understand that construction power will be provided by M/s PGCIL at free of cost. Kindly confirm.	Bidder to refer clause no 14.3 of SECTION-GENERAL TECHNICAL REQUIREMENTS (GTR) Rev 15
37	Construction Water	We understand that construction water will be provided by M/s PGCIL at free of cost. Kindly confirm.	Bidder to refer clause no 14.3 of SECTION-GENERAL TECHNICAL REQUIREMENTS (GTR) Rev 15

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Item Wise BoQ

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: Powergrid's Substation Package SS-142T (Niglok)

Enquiry/NIT No: NIT No. 95618_Enquiry No. 61Q2600368 Dated 13-11-2025

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)

NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	TEXT #	NUMBER #	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units	Quoted Currency in INR / Other Currency	Unit RATE In Figures To be entered by the Bidder in Rs. P	GST (in Percentage)	GST Amount (Unit Rate*Quantity* GST) Rs. P	Unit Freight & Insurance Charges in Rs. P	GST (in Percentage)	GST Amount on F&I (Unit Rate*Quantity*GST) Rs. P	HSN / SAC Code	TOTAL Ex-Works + F & I AMOUNT excluding GST in Rs. P	TOTAL Ex-Works + F & I AMOUNT including GST in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
1.01	**SUPPLY- GIS : 400kV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS (For item sl. No. 1.01-1.08):** 420KV, 3150 A, 63 KA, SF6 GIS BUS REACTOR BAY MODULE AS PER SECTION-PROJECT, TECHNICAL SPECIFICATION	item1	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.02	420 KV, 3150 A, 63 KA, SF6 GIS LINE FEEDER BAY MODULE (WITHOUT PIR) AS PER SECTION-PROJECT, TECHNICAL SPECIFICATION	item2	4	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.03	420KV, 3150 A, 63 KA, SF6 GIS TIE BAY MODULE (WITHOUT PIR) AS PER SECTION-PROJECT, TECHNICAL SPECIFICATION	item3	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.04	420KV, 3150A, 63KA SF6 TO AIR BUSHING INCLUDING SUPPORT STRUCTURE	item4	24	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.05	CONTROLLED SWITCHING DEVICE FOR 420 KV, 3-PH CIRCUIT BREAKER	item5	6	EA	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.06	420KV, 3000A, 63KA, SINGLE PHASE, SF6 GAS INSULATED BUS DUCT (GIB) OUTSIDE GIS HALL ALONGWITH ASSOCIATED SUPPORT STRUCTURE, ETC. AS PER TECHNICAL SPECIFICATION	item6	1400	M	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.07	420KV, **5000 A**, 63 KA, SF6 GIS BUS BAR MODULE AS PER SECTION-PROJECT,TECHNICAL SPECIFICATION	item7	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
1.08	420KV, 3150 A, 63 KA, SF6 GIS SWITCHABLE LINE REACTOR BAY MODULE AS PER SECTION-PROJECT, TECHNICAL SPECIFICATION	item8	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.01	**SUPPLY- GIS : 400KV, SPECIAL TOOLS AND TESTING & MAINTENANCE EQUIPMENTS AS PER TS (For item sl. No. 2.01-2.05):** SCISSOR LIFT	item9	1	EA	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.02	PORTABLE PARTIAL DISCHARGE MEASUREMENT TEST KIT WITH ALL NECESSARY ACCESSORIES, INDUSTRIAL GRADE LAPTOP AND LICENSED SOFTWARE AS PER TECHNICAL SPECIFICATION.	item10	1	EA	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.03	SF6 GAS ANALYZER	item11	1	EA	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.04	SF6 GAS LEAKAGE DETECTOR	item12	1	EA	INR			0.00			0.00		0.000	0.000	INR Zero Only
2.05	SF6 GAS PROCESSING UNIT FOR 400KV GIS STATION	item13	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.01	**SPARES- GIS : 400kV, 63KA FOR 1S, MANDATORY SPARES AS PER TS (For item sl. No. 3.01-3.51):** 400KV GIS-SF6 GAS PRESSURE RELIEF DEVICE ASSEMBLY OF EACH TYPE	item14	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.02	SF6 PRESSURE GAUGE CUM SWITCH/ DENSITY MONITORS AND PRESSURESWITCH AS APPLICABLE, OF EACH TYPE-400KV GIS	item15	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.03	COUPLING DEVICE FOR PRESSURE GAUGE CUM SWITCH FOR CONNECTING GAS HANDLING PLANT OF EACH TYPE-400KV GIS	item16	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.04	RUBBER GASKETS, 'O' RINGS AND SEALS FOR SF6 GAS FOR GISENCLOSURE OF EACH TYPE-400KV GIS	item17	3	SET	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: Powergrid's Substation Package SS-142T (Niglok)

Enquiry/NIT No: NIT No. 95618_Enquiry No. 61Q2600368 Dated 13-11-2025

Name of the Bidder/ Bidding Firm / Company :	

PRICE SCHEDULE

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Sl. No.	Item Description	Item Code / Make	Quantity	Units	Quoted Currency in INR / Other Currency	Unit RATE In Figures To be entered by the Bidder in Rs. P	GST (in Percentage)	GST Amount (Unit Rate*Quantity* GST) Rs. P	Unit Freight & Insurance Charges in Rs. P	GST (in Percentage)	GST Amount on F&I (Unit Rate*Quantity*GST) Rs. P	HSN / SAC Code	TOTAL Ex-Works + F & I AMOUNT excluding GST in Rs. P	TOTAL Ex-Works + F & I AMOUNT including GST in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
3.05	400KV GIS-MOLECULAR FILTER FOR SF6 GAS WITH FILTER BAGS (5% OF TOTAL WEIGHT)	item18	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.06	CONTROL VALVES FOR SF6 GAS OF EACH TYPE-400KV GIS	item19	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.07	400KV GIS-SF6 GAS (5% OF TOTAL GAS QUANTITY)	item20	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.08	LOCKING DEVICE TO KEEP THE DIS-CONNECTORS (ISOLATORS) AND EARTHING/ FAST EARTHING SWITCHES IN CLOSE OR OPEN POSITION IN CASE OF REMOVAL OF THE DRIVING MECHANISM-400KV GIS	item21	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.09	UHF PD SENSORS OF EACH TYPE ALONG WITH BNC CONNECTOR FOR 420KV GIS	item22	5	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.10	400KV GIS-SUPPORT INSULATORS (GAS THROUGH) OF EACH TYPE (COMPLETE WITH METAL RING ETC.) ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	item23	5	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.11	400KV GIS-GAS BARRIERS OF EACH TYPE (COMPLETE WITH METAL RING ETC.) ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	item24	5	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.12	400KV GIS- 3150A SF6 TO AIR BUSHING COMPLETE IN ALL RESPECT	item25	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.13	LCC SPARES - AUX. RELAYS, CONTACTORS,PUSH BUTTONS, SWITCHES,LAMPS,ANNUNCIATION WINDOWS, MCB, FUSES,TIMERS, TERMINAL BLOCKS ETC. OF EACH TYPE & RATING-400kV GIS	item26	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.14	400KV GIS-ONE POLE OF 3150A CIRCUIT BREAKER WITHOUT PIR WITH INTERRUPTER, MAIN CIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETE IN ALL RESPECT	item27	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.15	TRIP COIL ASSEMBLY WITH RESISTOR FOR 420KV GIS CIRCUIT BREAKER (AS APPLICABLE)	item28	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.16	CLOSING COIL ASSEMBLY WITH RESISTOR FOR 420KV GIS CIRCUIT BREAKER (AS APPLICABLE)	item29	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.17	RELAYS, POWER CONTACTORS, PUSH BUTTONS, TIMERS & MCBS ETC. (ASAPPLICABLE) OF EACH TYPE FOR 400KV GIS CIRCUIT BREAKER	item30	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.18	AUXILIARY SWITCH ASSEMBLY OF EACH TYPE FOR 420KV GIS CIRCUIT BREAKER	item31	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.19	400KV GIS CIRCUIT BREAKER-OPERATION COUNTER	item32	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.20	400KV GIS CIRCUIT BREAKER-HYDRAULIC OPERATING MECHANISM WITH DRIVE MOTOR (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item33	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.21	HYDRAULIC FILTER OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	item34	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.22	400KV GIS CIRCUIT BREAKER- HOSE PIPE OF EACH TYPE (AS APPLICABLE) (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item35	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.23	400KV GIS CIRCUIT BREAKER - N2 ACCUMULATOR (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item36	1	SET	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: Powergrid's Substation Package SS-142T (Niglok)

Enquiry/NIT No: NIT No. 95618_Enquiry No. 61Q2600368 Dated 13-11-2025

Name of the Bidder/ Bidding Firm / Company :	

PRICE SCHEDULE

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
3.24	VALVES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-400KV GIS CIRCUIT BREKAER	item37	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.25	PIPE LENGTH (COPPER & STEEL) OF EACH SIZE & TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	item38	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.26	PRESSURE SWITCHES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	item39	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.27	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	item40	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.28	400KV GIS CIRCUIT BREAKER-HYDRAULIC OIL (5% OF TOTAL OIL QUANTITY)(FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item41	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.29	PRESSURE RELIEF DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM,IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	item42	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.30	400KV GIS CIRCUIT BREAKER-COMPLETE SPRING OPERATING MECHANISM INCLUDING CHARGING MECHANISM ETC. (FOR SPRING OPERATED MECHANISM, IF APPLICABLE)	item43	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.31	400KV GIS CIRCUIT BREAKER- COMPLETE HYDRAULIC-SPRING OPERATINGMECHANISM INCLUDING CHARGING MECHANISM ETC. (FOR HYDRAULIC-SPRING OPERATED MECHANISM, IF APPLICABLE)	item44	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.32	PRESSURE SWITCHES OF EACH TYPE FOR420KV GIS CIRCUIT BREAKER (FOR HYDRAULIC-SPRING OPERATED MECHANISM, IF APPLICABLE)	item45	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.33	PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULIC-SPRINGOPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREKAER	item46	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.34	400KV GIS- SINGLE PHASE OF 3150A DISCONNECTOR SWITCH INCLUDING MAINCIRCUIT, ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC., COMPLETE IN ALL RESPECT	item47	4	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.35	400KV GIS- SINGLE PHASE MAINTENANCE EARTHING SWITCH INCLUDING MAINCIRCUIT, ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC.,COMPLETE IN ALL RESPECT	item48	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.36	400KV GIS - SINGLE PHASE FAST EARTHING SWITCH INCLUDING MAIN CIRCUIT,ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC., COMPLETE INALL RESPECT	item49	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.37	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKINGCOILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONE OF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 400KV GIS DISCONNECTOR SWITCH	item50	1	SET	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: Powergrid's Substation Package SS-142T (Niglok)

Enquiry/NIT No: NIT No. 95618_Enquiry No. 61Q2600368 Dated 13-11-2025

Name of the Bidder/ Bidding Firm / Company :	

PRICE SCHEDULE

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Sl. No.	Item Description	Item Code / Make	Quantity	Units	Quoted Currency in INR / Other Currency	Unit RATE In Figures To be entered by the Bidder in Rs. P	GST (in Percentage)	GST Amount (Unit Rate*Quantity* GST) Rs. P	Unit Freight & Insurance Charges in Rs. P	GST (in Percentage)	GST Amount on F&I (Unit Rate*Quantity*GST) Rs. P	HSN / SAC Code	TOTAL Ex-Works + F & I AMOUNT excluding GST in Rs. P	TOTAL Ex-Works + F & I AMOUNT including GST in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
3.38	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKING COILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONE OF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 400KV GIS MAINTENANCE EARTH SWITCH	item51	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.39	OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKING COILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONE OF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 400KV GIS FAST EARTHING SWITCH	item52	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.40	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR DISCONNECTOR-400KV GIS	item53	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.41	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR MAINTENANCE EARTHING SWITCH-400KV GIS	item54	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.42	LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR FAST EARTHING SWITCH (IF APPLICABLE)-400KV GIS	item55	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.43	DRIVE MECHANISM FOR 400KV GIS DISCONNECTOR SWITCH	item56	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.44	DRIVE MECHANISM FOR 400KV GIS MAINTENANCE EARTH SWITCH	item57	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.45	DRIVE MECHANISM FOR 400KV GIS FAST EARTHING SWITCH	item58	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.46	MOTOR FOR DRIVE MECHANISM FOR 400KV GIS DISCONNECTOR SWITCH	item59	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.47	MOTOR FOR DRIVE MECHANISM FOR 400KVGIS MAINTENANCE EARTH SWITCH	item60	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.48	MOTOR FOR DRIVE MECHANISM FOR 400KV GIS FAST EARTHING SWITCH	item61	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.49	400KV GIS- SINGLE PHASE OF CURRENT TRANSFORMER (3 CORES, TYPE-CTA)WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALL RESPECT	item62	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.50	400KV GIS- SINGLE PHASE OF CURRENT TRANSFORMER (2 CORES, TYPE-CTB) WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALL RESPECT	item63	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.51	400KV GIS- SINGLE PHASE VT WITH ASSOCIATED ENCLOSURE COMPLETE IN ALL RESPECT	item64	1	SET	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: Powergrid's Substation Package SS-142T (Niglok)

Enquiry/NIT No: NIT No. 95618_Enquiry No. 61Q2600368 Dated 13-11-2025

Name of the Bidder/ Bidding Firm / Company :	

PRICE SCHEDULE

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Sl. No.	Item Description	Item Code / Make	Quantity	Units	Quoted Currency in INR / Other Currency	Unit RATE In Figures To be entered by the Bidder in Rs. P	GST (in Percentage)	GST Amount (Unit Rate*Quantity* GST) Rs. P	Unit Freight & Insurance Charges in Rs. P	GST (in Percentage)	GST Amount on F&I (Unit Rate*Quantity*GST) Rs. P	HSN / SAC Code	TOTAL Ex-Works + F & I AMOUNT excluding GST in Rs. P	TOTAL Ex-Works + F & I AMOUNT including GST in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
4.01	**SUPPLY- GIS : 400kV, 63kA FOR 1S, REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS (Unit Prices of Individual Equipment included here or in manadatory 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) (For item sl. No. 5.01-5.06):** SUPPLY- GIS : 400kV, SINGLE PHASE BUS BAR	item65	1	MTR	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.02	SUPPLY- GIS : 400kV, GIS METALLIC ENCLOSURE	item66	50	KG	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.03	SUPPLY- GIS : 400kV, EXPANSION BELLOWS/ JOINTS	item67	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.04	SUPPLY- GIS : 400kV, TEE BEND	item68	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.05	SUPPLY- GIS : 400kV, ANGLE BEND	item69	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.06	SUPPLY- GIS : 400kV, L-BEND	item70	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.01	**SERVICES- GIS : 400kV, 63kA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS (For item sl. No. 4.01-4.09):** SERVICES- GIS : 400kV, SUPERVISION OF ERECTION OF GIS	item71	11	bays	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.02	SERVICES- GIS : 400kV, SUPERVISION OF ERECTION OF GAS INSULATED BUS DUCT	item72	1400	MTR	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.03	SERVICES- GIS : 400kV, SUPERVISION OF ERECTION OF SF6 TO AIR BUSHING	item73	24	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.04	SERVICES- GIS : 400kV, TESTING & COMMISSIONING OF GIS	item74	11	bays	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.05	SERVICES- GIS : 400kV, TESTING & COMMISSIONING OF GAS INSULATED BUS DUCT	item75	1400	MTR	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.06	SERVICES- GIS : 400kV, TESTING & COMMISSIONING OF SF6 TO AIR BUSHING	item76	24	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.07	SERVICES- ETC OF CONTROLLED SWITCHING DEVICE FOR 420 KV, 3-PH CIRCUIT BREAKER	item77	6	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.08	SERVICES- GIS : 400kV, FINAL SUCCESSFUL HV/ POWER FREQUENCY TESTING OF GIS INCLUDING ARRANGING OF HV TEST KIT ALONG WITH OPERATOR	item78	11	bays	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.09	SERVICES- GIS : INSULATION CO-ORDINATION STUDIES FOR GIS SYSTEM	item79	1	LOT	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: Powergrid's Substation Package SS-142T (Niglok)

Enquiry/NIT No: NIT No. 95618_Enquiry No. 61Q2600368 Dated 13-11-2025

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
6.01	**SERVICES- GIS : 400kV, 63kA FOR 1S, REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SERVICES SERVICES- GIS : REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SERVICES (Unit Prices of Individual services included here are required for any Addition/Deletion of Equipment and replacement of damaged items. Vendor to ensure that the unit prices have a logical relationship with prices of assemblies in main items. Quoting for unit prices is mandatory and shall be considered for evaluation) (For item sl. No. 6.01-6.05):** SERVICES- GIS : 400kV, REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR SUPERVISION OF ERECTION OF GIS	item80	10	MANDAY	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.02	SERVICES- GIS : 400kV, REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR TESTING & COMMISSIONING OF GIS	item81	10	MANDAY	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.03	SERVICES- GIS : 400kV, DEMOBILIZATION AND REMOBILIZATION CHARGES FOR GIS ERECTION SUPERVISION TEAM	item82	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.04	SERVICES- GIS : 400kV, DEMOBILIZATION AND REMOBILIZATION CHARGES FOR GIS TESTING & COMMISSIONING TEAM	item83	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.05	SERVICES- GIS : 400kV, DEMOBILIZATION & REMOBILIZATION CHARGES OF HV TEST KIT ALONG WITH OPERATOR	item84	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
Total in Figures													0.000	0.000	Zero Only
oted Rate in Words		**INR Zero Only**													