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-86688

Dated 20-11-2024

Subject: Corrigendum-01 to Tender enquiry for Pre-Bid Tie up with the GIS OEM for Supply & Services of 400 kV GIS for POWERGRID'S 400KV GIS Pkg-SS-80T (Raghanesda) Tender / Project.

Project	: POWERGRID'S 400KV GIS Pkg-SS-80T (Raghanesda)
Equipment / Item	: Supply & Services of 400kV GIS
Enquiry No/Date	: Enquiry No.61Q2500387 dated 14-11-2024
BHEL NIT NO	: 86688
Original Tender due date	**: 25-11-2024**

This Corrigendum is issued by BHEL TBG against above mentioned NIT/ enquiry for issuance of Technical Corrigendum Rev-01 along with Technical clarifications (enclosed). 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 **2024_BHEL_41912_1.**

Thanking you

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

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

Project: **Pre-Bid Tie up for,**
400kV GIS Package SS80T for Extension of 765/400kV Substation near Raghanesda (GIS) for establishment of 400kV GIS associated with "Transmission System for evacuation of RE power from Raghanesda area of Gujarat – 3 GW under Phase-I" under TBCB route.

Date: **14.11.2024**

Sl. No.	Volume/ Section/ Clause	Volume/ Section/ Clause as Existing	Volume/ Section/ Clause as Amended/ Added in Technical Corrigendum-01
1	Technical Specification/ Section-1/ Section 1.7	Please refer BOQ/ Section 1 as detailed below, ANNEXURE: BOQ_400kV GIS_SUPPLY_RAGHANESDA Rev 0 & ANNEXURE: BOQ_400kV GIS_SERVICE_RAGHANESDA Rev 00	Please refer revised BOQ/ Section 1 as detailed below, ANNEXURE: BOQ_400kV GIS_SUPPLY_RAGHANESDA Rev 01 & ANNEXURE: BOQ_400kV GIS_SERVICE_RAGHANESDA Rev 01 (Copy attached)
2	Technical Specification/ Section-1	Section-1	Please refer Amendment-I dated: 13/11/2024 for 400kV GIS Package SS80T (Copy attached).
			Please refer Clarification No.1 (Technical) dated: 13/11/2024 for 400kV GIS Package SS80T (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.

Amendment-I dated: 13/11/2024 for 400kV GIS Package SS80T for Extension of 765/400kV Substation near Raghanesda (GIS) for establishment of 400kV GIS associated with "Transmission System for evacuation of RE power from Raghanesda area of Gujarat - 3 GW under Phase-I" under TBCB route.

SPECIFICATION NO: CC/T/W-GIS/DOM/A10/24/13643

<table>
<tr><th>Sl. No.</th><th>Clause/ Drg. No.</th><th>Existing provision</th><th>Amended provision</th></tr>
<tr><td>1)</td><td>Volume-II
Technical Specifications

Section-Project {Rev 00}

Clause No. 2.1</td><td>.
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<table>
<tr><th>400 kV Bus Section-1</th><th>400 kV Bus Section-2 (Future)</th></tr>
<tr><td>a) 4 nos. of present 400kV Line Bays
b) 3 nos. of present 765/400kV ICT
c) 2 nos. of present Bus Reactor
d) 1 no. of present 400kV Line Bay along with switchable line reactor Bay for dia completion
e) 3 nos. of future 400kV line along with switchable line reactor
f) 1 nos. of future 765/400kV ICT
g) 4 Nos. of future 400/220kV ICT
h) All associate tie bays</td><td>a) 4 nos. of future 765/400kV ICT
b) 4 nos. of future 400/220kV ICT
c) 8 nos. of future 400kV Line along with switchable line reactor
d) 2 nos. of Future 400kV Bus Reactor
e) All associate tie bays</td></tr>
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f) 1 nos. of future 765/400kV ICT
g) 4 Nos. of future 400/220kV ICT
h) 2 Nos. of future interconnection of (2x1500MW) for 600MW, ± 800kV</td><td>a) 4 nos. of future 765/400kV ICT
b) 4 nos. of future 400/220kV ICT
c) 8 nos. of future 400kV Line along with switchable line reactor
d) 2 nos. of Future 400kV Bus Reactor
e) 2 Nos. of future interconnection of (2x1500MW) for 600MW, ± 800kV Raghanesda(HVDC) [LCC]
f) All associate tie bays</td></tr>
</table></td></tr>
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Sl. No.	Clause/ Drg. No.	Existing provision	Amended provision
		. . .	***Raghanesda(HVDC) [LCC]*** i) All associate tie bays . . . .
2)	Volume-II Technical Specifications Section-Project {Rev 00} Clause No. 2.2.1.1 (B) (b)	Complete control, relay and protection system as per Section–Control and Relay panels. Decentralized (distributed) type of bus bar protection system shall be provided for 400kV Substation near Raghanesda (GIS). The Central units shall be suitable for all present and future 400kV bays as per clause no 2.1 above and Peripheral/bay units shall be provided for the present scope 400kV bays only.	Complete control, relay and protection system as per Section–Control and Relay panels. Decentralized (distributed) type of bus bar protection system shall be provided for 400kV Substation near Raghanesda (GIS). The Central units shall be suitable for all present and future 400kV bays ***for Bus Section-I*** as per clause no 2.1 above and Peripheral/bay units shall be provided for the present scope 400kV bays only. ***Protection panels for 1 No. of 400kVLine Bays under present scope shall consist of Numerical Distance protection relay as both Main–I & Main-II protection.*** ***Further, Protection panels for 3 Nos. of 400kV Line Bays under present scope shall consist of Numerical Line Current Differential protection relay (with back up distance protection feature) as both Main–I & Main-II protection. Loose supply of matching Line differential protection relays for remote end substation shall also be under present scope of work. The necessary Fibre optic cable, along with interface equipment (i.e LIU, patch chord etc) at both ends to***

<table>
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<tr><td></td><td></td><td></td><td>connect line differential relay with FODP is also under the present scope of work. OPGW for 400 kV lines shall be supplied under separate package.</td></tr>
<tr><td>3)</td><td>Price Schedule
Sch.1,2 & 3</td><td>
<table>
<tr><td>Activity Description</td><td>Item Description</td><td>Unit</td><td>Qty</td></tr>
<tr><td colspan="4">Schedule-1&2</td></tr>
<tr><td>Relay and Protection panel</td><td>400kV Line Protection Panel (with Automation)</td><td>EA</td><td>4</td></tr>
<tr><td colspan="4">Schedule-3</td></tr>
<tr><td>Installation Relay and Protection panel</td><td>400kV Line Protection Panel (with Automation)</td><td>EA</td><td>4</td></tr>
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<tr><td>Relay and Protection panel</td><td>400kV Differential Relay protection panel (with Automation)</td><td>EA</td><td>3</td></tr>
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<tr><td>Installation Relay and Protection panel</td><td>400kV Line Protection Panel (with Automation)</td><td>EA</td><td>1</td></tr>
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<tr><td>4)</td><td>Volume-II
Technical Specifications</td><td>It is responsibility of contractor to develop general arrangement drawing, layout drawings, single line drawing, foundation & cable trench layout, erection key diagram & all other layout drawings for present scope of work.</td><td>It is responsibility of contractor to develop general arrangement drawing, layout drawings, single line drawing, foundation & cable trench layout, erection key diagram & all other layout drawings for present scope of work.</td></tr>
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Amendment-I dated: 13/11/2024 for 400kV GIS Package SS80T for Extension of 765/400kV Substation near Raghanesda (GIS) for establishment of 400kV GIS associated with "Transmission System for evacuation of RE power from Raghanesda area of Gujarat - 3 GW under Phase-I" under TBCB route.

SPECIFICATION NO: CC/T/W-GIS/DOM/A10/24/13643

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<tr><td></td><td>Section-Project {Rev 00}

Clause No. 6(e)</td><td></td><td>Configuration of 400kV Bays under present scope at 765/400/220kV Substation near Raghanesda (GIS) with One and a half breaker bus switching scheme shall be as below:

<table><tr><td>Diameter Configuration</td><td>Numbers</td></tr><tr><td>ICT (400kV side of 765/400kV ICT) – Tie – Line</td><td>3 Nos.</td></tr><tr><td>Bus Reactor – Tie – Line</td><td>1 No.</td></tr><tr><td>Bus Reactor – Tie – Future Line with Switchable Reactor</td><td>1 No.</td></tr></table></td></tr>
<tr><td>5)</td><td>Price Schedule

Sch.1,2 & 3</td><td><table><tr><td>Activity Description</td><td>Item Description</td><td>Unit</td><td>Qty</td></tr><tr><td colspan="4">Schedule-1&2</td></tr><tr><td>GIS Portion-420 kV GIS Equipments</td><td>Controlled Switching Device for 420 kV, 3-ph Circuit Breaker</td><td>EA</td><td>9</td></tr><tr><td>GIS Portion-420 kV GIS Equipments</td><td>420KV, 3000A, 63KA, SINGLE PHASE, SF6 GAS INSULATED BUS DUCT (GIB)OUTSIDE GIS HALL ALONGWITH ASSOCIATED SUPPORT STRUCTURE, ETC. AS PERTECHNICAL SPECIFICATION</td><td>M</td><td>1750</td></tr><tr><td colspan="4">Schedule-3</td></tr></table></td><td><table><tr><td>Activity Description</td><td>Item Description</td><td>Unit</td><td>Qty</td></tr><tr><td colspan="4">Schedule-1&2</td></tr><tr><td>GIS Portion-420 kV GIS Equipments</td><td>Controlled Switching Device for 420 kV, 3-ph Circuit Breaker</td><td>EA</td><td>10</td></tr><tr><td>GIS Portion-420 kV GIS Equipments</td><td>420KV, 3000A, 63KA, SINGLE PHASE, SF6 GAS INSULATED BUS DUCT (GIB)OUTSIDE GIS HALL ALONGWITH ASSOCIATED SUPPORT STRUCTURE, ETC. AS PERTECHNICAL SPECIFICATION</td><td>M</td><td>2200</td></tr><tr><td colspan="4">Schedule-3</td></tr></table></td></tr>
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<tr><td>6)</td><td>Section Project
Clause No. 2.2.1.1(B)(i)</td><td>INSULATOR STRINGS AND ASSOCIATED HARDWARE: Insulator strings and associated hardware fittings under present scope shall be provided by the contractor as per Bid Price Schedule (BPS).</td><td>Deleted</td></tr>
<tr><td>7)</td><td>Section Project
Clause No. 2.2.1.1(B)(j)</td><td>Erection Hardware: This item of BPS includes Conductor(s), Al tube, bus-bar materials, cable trays & covers, Bay MB (as applicable), spacers, clamps & connectors (including terminal connectors HV & Neutral Bushings of 400kV Reactors (Employer Supplied)), Junction box, earthwire, earthing material risers, auxiliary earthmat (excluding main earth mat), buried cable trenches/pipes for equipment & lighting, cable supporting angles/channels, cable pull pit, cable trays & covers, Insulating mats, cable sealing arrangement etc. as required.</td><td>Erection Hardware: This item of BPS includes insulator strings and associated hardware fittings, Conductor(s), Al tube, bus-bar materials, cable trays & covers, Bay MB (as applicable), spacers, clamps & connectors (including terminal connectors HV & Neutral Bushings of 400kV Reactors (Employer Supplied)), Junction box, earthwire, earthing material risers, auxiliary earthmat (excluding main earth mat), buried cable trenches/pipes for equipment & lighting, cable supporting angles/channels, cable pull pit, cable trays & covers, Insulating mats, cable sealing arrangement etc. as required.</td></tr>
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Sl. No.	Clause/ Drg. No.	Existing provision				Amended provision			
		Erection Hardware (H.Ftg.)	400KV TENSION INSULATOR STRING AND ASSOCIATED HARDWARE FITTINGSWITH TURN BUCKLE SUITABLE FOR QUAD CONDUCTOR	EA	12	Erection Hardware (H.Ftg.)	400KV TENSION INSULATOR STRING AND ASSOCIATED HARDWARE FITTINGSWITH TURN BUCKLE SUITABLE FOR QUAD CONDUCTOR	EA	Nil (Item Deleted)
		Erection Hardware (H.Ftg.)	400KV SUSPENSION INSULATOR STRING AND ASSOCIATED HARDWARE FITTINGSWITH DROP CLAMP SUITABLE FOR QUAD CONDUCTOR	EA	4	Erection Hardware (H.Ftg.)	400KV SUSPENSION INSULATOR STRING AND ASSOCIATED HARDWARE FITTINGSWITH DROP CLAMP SUITABLE FOR QUAD CONDUCTOR	EA	Nil (Item Deleted)
		Erection Hardware (H.Ftg.)	400KV SUSPENSION INSULATOR STRING AND ASSOCIATED HARDWARE FITTINGSWITH THROUGH CLAMP SUITABLE FOR QUAD CONDUCTOR	EA	8	Erection Hardware (H.Ftg.)	400KV SUSPENSION INSULATOR STRING AND ASSOCIATED HARDWARE FITTINGSWITH THROUGH CLAMP SUITABLE FOR QUAD CONDUCTOR	EA	Nil (Item Deleted)
		Erection Hardware **(Excl H.Ftg.)**	Erection Hardware for 400kV I type layout for GIS terminationarrangement-Transformer bay as per technical specification	SET	3	Erection Hardware	Erection Hardware for 400kV I type layout for GIS terminationarrangement-Transformer bay as per technical specification	SET	3
		Erection Hardware	Erection Hardware for 400kV I type layout for GIS	SET	2	Erection Hardware	Erection Hardware for 400kV I type layout for GIS	SET	2

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<tr><td>(Excl H.Ftg.)</td><td>terminationarrangement-Bus Reactor bay as per technical specification</td><td></td><td></td></tr>
<tr><td>Erection Hardware (Excl H.Ftg.)</td><td>Erection Hardware for 400kV I type layout for GIS terminationarrangement-Line bay as per technical specification</td><td>SET</td><td>4</td></tr>
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<tr><th>Activity</th><th>Description</th><th>Unit</th><th>Qty</th></tr>
<tr><td colspan="4">Schedule – 3</td></tr>
<tr><td>Install. Erection Hardware (H.ftg)</td><td>400KV TENSION INSULATOR STRING AND ASSOCIATED HARDWARE FITTINGS WITH TURN BUCKLE SUITABLE FOR QUAD CONDUCTOR</td><td>EA</td><td>12</td></tr>
<tr><td>Install. Erection Hardware (H.ftg)</td><td>400KV SUSPENSION INSULATOR STRING AND ASSOCIATED HARDWARE FITTINGS WITH DROP CLAMP SUITABLE FOR QUAD CONDUCTOR</td><td>EA</td><td>4</td></tr>
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<tr><td>Install. Erection Hardware (H.ftg)</td><td>400KV TENSION INSULATOR STRING AND ASSOCIATED HARDWARE FITTINGS WITH TURN BUCKLE SUITABLE FOR QUAD CONDUCTOR</td><td>EA</td><td>Nil
(Item Deleted)</td></tr>
<tr><td>Install. Erection Hardware (H.ftg)</td><td>400KV SUSPENSION INSULATOR STRING AND ASSOCIATED HARDWARE FITTINGS WITH DROP CLAMP SUITABLE FOR QUAD CONDUCTOR</td><td>EA</td><td>Nil
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<tr><td>Install of Erection Hardware (Excl. Ftg)</td><td>Erection Hardware for 400kV I type layout for GIS termination arrangement-Transformer bay as per technical specification</td><td>SET</td><td>3</td></tr>
<tr><td>Install of Erection Hardware (Excl. Ftg)</td><td>Erection Hardware for 400kV I type layout for GIS termination arrangement-Bus Reactor bay as per technical specification</td><td>SET</td><td>2</td></tr>
<tr><td>Install of Erection Hardware (Excl. Ftg)</td><td>Erection Hardware for 400kV I type layout for GIS termination arrangement-Line bay as per technical specification</td><td>SET</td><td>4</td></tr>
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<tr><td>9)</td><td>Section Project
Clause No. 2.2.1.1(B)(g)</td><td>1.1 kV grade Power & Control cables (and special cables, if any) along with complete accessories including cabling from 400kV Class Reactors marshaling box to Relay panel room/control room. Power receptacle for oil filtration unit shall also be provided under present scope of work as per BPS. Methodology for supply, installation & sizing of cables shall be as per specific requirements rev-09.</td><td>Cable:
• 1.1 kV grade Power & Control cables (and special cables, if any) along with complete accessories including cables for oil filtration units and cabling from 400kV Class Reactors marshaling box to Relay panel room/control room. Power receptacle for oil filtration unit shall also be provided under present scope of work as per BPS.</td></tr>
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<tr><td></td><td></td><td></td><td>• Cable Sizes Shall be used as per Sizing of 1.1kV Power & Control cables specified at Annexure-VI.
• Annexure S1 of Specific Requirements enclosed at Annexure-III of Section Project stands deleted</td></tr>
<tr><td>10)</td><td>Price Schedule Sch.1,2</td><td>
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<tr><th>Activity</th><th>Description</th><th>Unit</th><th>Qty</th></tr>
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<tr><td>Power and Control Cables</td><td>1.1KV GRADE 3CX2.5 SQMM CONTROL CABLE</td><td>KM</td><td>7</td></tr>
<tr><td>Power and Control Cables</td><td>1.1KV GRADE 5CX2.5 SQMM CONTROL CABLE</td><td>KM</td><td>12</td></tr>
<tr><td>Power and Control Cables</td><td>1.1KV GRADE 7CX2.5 SQMM CONTROL CABLE</td><td>KM</td><td>3</td></tr>
<tr><td>Power and Control Cables</td><td>1.1KV GRADE 10CX2.5 SQMM CONTROL CABLE</td><td>KM</td><td>4</td></tr>
<tr><td>Power and Control Cables</td><td>1.1KV GRADE 19CX1.5 SQMM CONTROL CABLE</td><td>KM</td><td>2</td></tr>
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<tr><td>Power and Control Cables</td><td>1.1KV GRADE 5CX2.5 SQMM CONTROL CABLE</td><td>KM</td><td>Nil
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<tr><td>Power and Control Cables</td><td>1.1KV GRADE 7CX2.5 SQMM CONTROL CABLE</td><td>KM</td><td>Nil
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<tr><td>Power and Control Cables</td><td>1.1KV GRADE 10CX2.5 SQMM CONTROL CABLE</td><td>KM</td><td>Nil
(Item Deleted)</td></tr>
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Sl. No.	Clause/ Drg. No.	Existing provision				Amended provision			
		Power and Control Cables	1.1KV GRADE 27CX1.5 SQMM CONTROL CABLE	KM	2	Power and Control Cables	1.1KV GRADE 19CX1.5 SQMM CONTROL CABLE	KM	Nil (Item Deleted)
		Power and Control Cables	4PAIR, 0.5 SQ.MM SCREENED CABLE	KM	1	Power and Control Cables	1.1KV GRADE 27CX1.5 SQMM CONTROL CABLE	KM	Nil (Item Deleted)
		Power and Control Cables	1.1KV GRADE 3.5CX70 SQMM (PVC) POWER CABLE	KM	2	Power and Control Cables	4PAIR, 0.5 SQ.MM SCREENED CABLE	KM	Nil (Item Deleted)
		Power and Control Cables	1.1KV GRADE 3.5CX35 SQMM (PVC) POWER CABLE	KM	3	Power and Control Cables	1.1KV GRADE 3.5CX70 SQMM (PVC) POWER CABLE	KM	Nil (Item Deleted)
		Power and Control Cables	1.1KV GRADE 4CX16 SQMM (PVC) POWER CABLE	KM	2	Power and Control Cables	1.1KV GRADE 3.5CX35 SQMM (PVC) POWER CABLE	KM	Nil (Item Deleted)
		Power and Control Cables	1.1KV GRADE 2CX6 SQMM (PVC) POWER CABLE	KM	2	Power and Control Cables	1.1KV GRADE 4CX16 SQMM (PVC) POWER CABLE	KM	Nil (Item Deleted)
		Power and Control Cables	1.1KV GRADE 4CX6 SQMM (PVC) POWER CABLE	KM	4				

Sl. No.	Clause/ Drg. No.	Existing provision				Amended provision			
		Power and Control Cables	1.1KV GRADE 3.5CX300 SQMM (XLPE) POWER CABLE	KM	1	Power and Control Cables	1.1KV GRADE 2CX6 SQMM (PVC) POWER CABLE	KM	Nil (Item Deleted)
						Power and Control Cables	1.1KV GRADE 4CX6 SQMM (PVC) POWER CABLE	KM	Nil (Item Deleted)
						Power and Control Cables	1.1KV GRADE 3.5CX300 SQMM (XLPE) POWER CABLE	KM	Nil (Item Deleted)
						Power and Control Cables	1.1kV grade Power Cables (PVC insulated)along with lugs,glands,straight joints & accessories,etc.	LS	1
						Power and Control Cables	1.1kV grade Control Cables (PVC insulated) along with lugs,glands,straight joints & accessories,etc.	LS	1
						Power and Control Cables	1.1kV grade Power Cables (XLPE insulated) along with lugs,glands,straight joints &accessories,etc.	LS	1

Amendment-I dated: 13/11/2024 for 400kV GIS Package SS80T for Extension of 765/400kV Substation near Raghanesda (GIS) for establishment of 400kV GIS associated with "Transmission System for evacuation of RE power from Raghanesda area of Gujarat - 3 GW under Phase-I" under TBCB route.

SPECIFICATION NO: CC/T/W-GIS/DOM/A10/24/13643

<table>
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<tr><td>11) .</td><td>Section Project:
Clause no. 2.2.1.3 (Civil works)
F. (iii)- (a)</td><td>Raghanesda (GIS) S/S

(iii) Soil investigation:
a) Soil investigation needs to be conducted as per the technical specification. The necessary soil investigation layout and final soil report shall be proposed by vendor for approval of POWERGRID.</td><td>Raghanesda (GIS) S/S

(iii) Soil investigation:
a) Soil investigation needs to be conducted as per the technical specification. Bore holes up to 30meter depth into virgin soil or to refusal whichever occurs earlier shall be drilled. The necessary soil investigation layout and final soil report shall be proposed by vendor for approval of POWERGRID.</td></tr>
<tr><td>12)</td><td>Section Project:
Clause no. 3 (e)
SPECIFIC EXCLUSIONS</td><td>Soil investigation (Soil report shall be provided during detailed engineering).</td><td>Deleted</td></tr>
<tr><td>13)</td><td>Price Schedule Sch.1,2 & 3</td><td><table><tr><td>Activity</td><td>Description</td><td>Unit</td><td>Qty</td></tr><tr><td colspan="4">Schedule – 1&2</td></tr></table></td><td><table><tr><td>Activity</td><td>Description</td><td>Unit</td><td>Qty</td></tr><tr><td colspan="4">Schedule – 1 & 2</td></tr></table></td></tr>
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</table>
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</table>

Sl. No.	Clause/ Drg. No.	Existing provision				Amended provision			
		Civil Works	Excavation in all kind of soil including rock for all leads and lifts, backfilling, disposal of surplus earth within a lead up to 2Km as per technical specification. The surplus earth shall be roughly graded.	M3	9839	Civil Works	Excavation in all kind of soil including rock for all leads and lifts, backfilling, disposal of surplus earth within a lead up to 2Km as per technical specification. The surplus earth shall be roughly graded.	M3	10261
		Civil Works	Providing and laying of Plain Cement Concrete (PCC) (1:4:8)	M3	388	Civil Works	Providing and laying of Plain Cement Concrete (PCC) (1:4:8)	M3	404
		Civil Works	Providing and laying of Reinforced Cement Concrete M30 including pre cast, shuttering, Grouting of pockets & underpinning but excluding steel reinforcement	M3	3869	Civil Works	Providing and laying of Reinforced Cement Concrete M30 including pre cast, shuttering, Grouting of pockets & underpinning but excluding steel reinforcement	M3	3988
		Civil Works	Reinforcement steel meeting corrosion resistance properties as per IS:1786 and manufacturer specification.	MT	271	Civil Works	Reinforcement steel meeting corrosion resistance properties as per IS:1786 and manufacturer specification.	MT	279
		Civil Works	Supply and Installation of 800mm dia vibro stone columns as per approved drawing, using bottom feed method as per IS 15284 (PT-1),2003 as per site requirements including all	RM	51277	Civil Works	Supply and Installation of 800mm dia vibro stone columns as per approved drawing, using bottom feed method as per IS 15284 (PT-1),2003 as per site requirements including all T&Ps, materials etc. complete in all respect. This includes setting up of column, supply of required stone aggregate,	RM	56677

Sl. No.	Clause/ Drg. No.	Existing provision				Amended provision			
			T&Ps, materials etc. complete in all respect. This includes setting up of column, supply of required stone aggregate, feeding of the stone from the stone stack, automatic real time monitoring of depth and compaction effect for each column, preparation of records, submission and preparation of as built drawings etc. The rates are inclusive of all materials, labour, T&P etc. required for completion of the work in all respect. Mode of Measurement - For payment purpose, length of boring shall be measured from Stone Column Cut-off Level to Termination level of Stone Column.				feeding of the stone from the stone stack, automatic real time monitoring of depth and compaction effect for each column, preparation of records, submission and preparation of as built drawings etc. The rates are inclusive of all materials, labour, T&P etc. required for completion of the work in all respect. Mode of Measurement - For payment purpose, length of boring shall be measured from Stone Column Cut-off Level to Termination level of Stone Column.		
		Civil Works	Providing and laying of granular material blanket by using clean medium to coarse sand over the top of the stone column. The blanket material should be laid after ensuring complete removal of slush	M3	4620		Providing and laying of granular material blanket by using clean medium to coarse sand over the top of the stone column. The blanket material should be laid after ensuring complete removal of slush deposited during boring/charging operations etc., The granular blanket shall be compacted by suitable means such as rolling or tamping to densify the layer. The rates is inclusive of all materials, labour, T&P etc. required for completion of the work in all respect.	M3	5070

Sl. No.	Clause/ Drg. No.	Existing provision	Amended provision
		deposited during boring/charging operations etc., The granular blanket shall be compacted by suitable means such as rolling or tamping to densify the layer. The rates is inclusive of all materials, labour, T&P etc. required for completion of the work in all respect. The compacted layer shall be measured for the payment purpose.	The compacted layer shall be measured for the payment purpose.
15)	Price Schedule	In view of the above, the MS excel file containing prevailing Price Schedule namely **'Price_Schedule'**, stands replaced by new file namely this '**Price_Schedule_Rev01'** attached herewith.	

Clarification No.1 (Technical) dated: 13/11/2024 for 400kV GIS Package SS80T for Extension of 765/400kV Substation near Raghanesda (GIS) for establishment of 400kV GIS associated with "Transmission System for evacuation of RE power from Raghanesda area of Gujarat - 3 GW under Phase-I" under TBCB route

SPECIFICATION NO: CC/I/W-GIS/DOM/A10/24/13643

SR.NO.	NAME OF THE DOCUMENTS	CLAUSE	BIDDER's QUERIES	POWERGRID Reply
1		Request for site person contact details	Request you to kindly provide Site Person Contact details for site visit.	CGM - Projects, Power Grid Corportation of India Ltd. Regional Headquarter, Western Region-II, Vadodara, Gujarat
2		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.	Please refer Annexure-IV (Frequently asked questions) of Section Project under Technical Specifications.
3	BOQ_Sch-1_S.No-27 Controlled Switching Device for 420 kV, 3-ph Circuit Breaker - 9 Nos		We wish to inform you that CSD is considering for the following bays Bus reactor bay - 2 no.s, ICT feeder bay - 3, Tie bays – 3, Switchable line reactor - 1 kindly Confirm	Bidder to quote as per the BPS
4	Section Project	Civil_ Soil investigation report	Please provide soil report (if any) for our understanding and bid purpose. And share the site co-ordinates.	Please refer Clause no. 2.2.1.3 F. (iii)- (a) of Section-Project. Accordingly, soil investigation is under the present scope of the bidder. Further, refer clause no. 6 (f) (i) of Section-Project, wherein it is mentioned that Location of identified land and Plot plan for land shall be provided to successful bidder during detailed engineering
5	Section Project	Civil_ BPS S. No-59 Painting of Fire wall	As BPS S. No-59 recommends waterproof cement paint for fire walls whereas technical specification civil works Rev 12 clause 10.7.5 confirms cement wash. So we presumed fire wall of cement wash painting for bid purpose, kindly confirm.	Bidder may quote as per BPS
6	Section Project	Civil_ BPS S. No-60 3.75mtr Bitumen road.	As BPS S. No-60 recommends 100mm dia RCC Hume pipe @ 100mtr interval whereas technical specification civil works Rev 12 clause 3.1.4 confirms 100mm dia uPVC pipe with encasing in place of Hume below WMM/WBM. So we presumed Hume pipe as per BPS for bid purpose, kindly confirm.	Bidder may quote as per BPS

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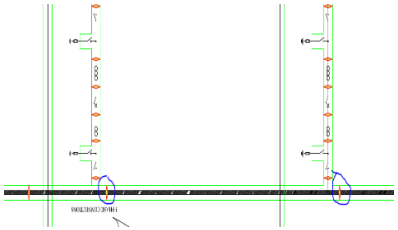
SR.NO.	NAME OF THE DOCUMENTS	CLAUSE	BIDDER's QUERIES	POWERGRID Reply
7	General	Civil_ BPS S. No-64,65,66 RCC Culverts crossing with Hume pipe.	As BPS S. No-64,65,66 and tender drawings recommends Hume pipe for cable trench & road culvert crossing works whereas technical specification clause 3.5.1 recommends HDPE pipe in place of Hume pipe. So, please confirm type of pipe to be consider for bid.	Bidder may quote as per BPS
8	Section Project	Civil_ BPS S. No-93 Pull pits for HDPE pipe	As Technical Specification, Section – Project {Rev.00} , page 10 of 17 clause-V confirms pull pits RCC shall be M30 grade whereas Technical specification rev-12 states M25 grade for Pull pit RCC work. So, please confirm the grade of concrete i.e. M25 or M30.	Bidder may quote as per BPS
9	Section Project	Technical specification civil works Rev 12_ Anti-termite	As technical specification civil works Rev-12, clause 13.2 recommends anti- termite treatment for buildings, footings & trenches etc. but there is no separate line item for anti-termite activity in BPS. So, we understand anti-termite work shall be paid separately as extra item.	Bidder may quote as per BPS and Tech Spec.
10	BPS	Civil_ BPS S. No-92,93 _ HDPE pipe laying , Pull pits for HDPE pipe	The unit of measurement of BPS S. No-92,93 is LS. So, we request you to confirm the length & no of pull pits to be consider for respective BPS items for bid purpose. And please share the overall switchyard tender layout.	Length and no of pull pits for HDPE pipe shall be finalised during detailed engineering in the Cable Trench Layout based on the best engineering practices. Further, refer clause no. 6(e) and 6(f)(i) of Section Project regarding bidder's scope for preperation of cable trench layout and furnishing of land plot plan to the successful bidder.
11	Section GIS Rev 5A Typical SLD		Our type tested 400KV GIS has passive non segerated busbar design. We meet the requirement of service continuity, maintenance & repair without provision of any barrier in busbar. All the requirement of repair & maintenance as per specifications are met with passive non-segregated busbar design. This design is accepted by various utilities in India and Abroad and also in ongoing projects of PGCIL. This type of passive non-segregated busbar design is working satisfactorily at site without any issues hence we request an acceptance of this design.	Acceptable in case other requirements of Technical Specifications are fulfilled for offered design of GIS.
12	BOQ	Controlled Switching Device for 420 kV, 3-ph Circuit Breaker - 09 nos	We understand that the qty of CSD shall be 10 nos. Please confirm	Bidder to quote as per the BPS

Clarification No.1 (Technical) dated: 13/11/2024 for 400kV GIS Package SS80T for Extension of 765/400kV Substation near Raghanesda (GIS) for establishment of 400kV GIS associated with "Transmission System for evacuation of RE power from Raghanesda area of Gujarat - 3 GW under Phase-I" under TBCB route

SPECIFICATION NO: CC/T/W-GIS/DOM/A10/24/13643

SR.NO.	NAME OF THE DOCUMENTS	CLAUSE	BIDDER's QUERIES	POWERGRID Reply
13	Section Project, 2.2.1.3 Civil works,F,iv	Section Project, 2.2.1.3 Civil works,F,iv	As per the referred clause, We understand that- "GIS Hall Building is envisaged for construction of total 09 nos. of 400kV GIS Diameters as well as maintenance bays as per requirement." We presume that bidder need to construct GIS hall considering the following bays to complete 05nos. of diameter under the present scope of work along with space provision for 04 nos diamater under future scope- a) 4 nos. of present 400kV Line Bays b) 3 nos. of present 765/400kV ICT c) 2 nos. of present Bus Reactor d) 1 no. of present 400kV Line Bay along with switchable line reactor Bay for dia completion e) 3 nos. of future 400kV line along with switchable line reactor f) 1 nos. of future 765/400kV ICT g) 4 Nos. of future 400/220kV ICT h) All associate tie bays (5 present tie bays + 4 future tie bays) Please confirm whether bidder's understanding is correct.	400kV GIS Building is envisaged for housing 400kV GIS bays under present scope (i.e. 5 Nos. of diameters) as well as maintenance bays as per requirement. Accordingly, design of GIS building shall be finalized during the detailed engineering based on best engineering practices. Bidder to quote as per BPS & provision of Technical specifications.
14	GIS Building design- future	GIS Building design- future	We presume the below mentioned future 400kV bays along with future bus sectionalizer shall be placed in new GIS building which shall be constructed in future a) 4 nos. of future 765/400kV ICT b) 4 nos. of future 400/220kV ICT c) 8 nos. of future 400kV Line along with switchable line reactor d) 2 nos. of Future 400kV Bus Reactor e) All associate tie bays Please confirm whether bidder's understanding is correct.	Location of future 400kV bays shall be finalised during detailed engineering based on best engineering practices. Bidder to quote as per BPS & provision of Technical specifications.

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SPECIFICATION NO: CC/T/W-GIS/DOM/A10/24/13643

SR.NO.	NAME OF THE DOCUMENTS	CLAUSE	BIDDER's QUERIES	POWERGRID Reply
15	Section Project, 2.1 The broad scope for the 765/400/220kV Substation near Raghanesda (GIS) is	Section Project, 2.1 The broad scope for the 765/400/220kV Substation near Raghanesda (GIS) is	As per referred clause, We understand that termination of 400kV Line Bay with Switchable Line Reactor Bay - 1 No (For diameter completion) is under future scope of work. However, the bidder needs to consider 1 no Line Bay with Switchable Line Reactor Bay under the current scope to complete the diameter, while the line termination will be addressed in the future. Please confirm whether bidder understanding is correct.	Bidder's understanding is generally in order. However, refer Clause no.2.1 of Section Project and S.No.4 of Amendment No.1.
16	COMMUNICATION EQUIPMENT	COMMUNICATION EQUIPMENT	We understand that PLCC & FOTE equipments will be supplied in future for proposed future 400 kV lines and 220kV (To be constructed under separate package).Please confirm.	Prposed future 400 kv and 220 kv lines are not considered for FOTE & PLCC. However, bidder is requested to quote as per BPS.
17	General (land)	General (land)	As only 400kV GIS substation is under present scope of work for this tender, we presume that we have to consider site levelling, fencing, earth mat, cable trench, lightning protection, lighting, VMS for present scope of 400KV Bays only. Any Works for future 765kV, 400kV & 220kV bays & unused area are not considered under this package. Please confirm whether bidder's understanding is correct.	Following systems shall be provided for present scope of work under 400kV(GIS) Substation - a) Lightning protection b) Lighting c) VMS d) Earth mat e) Cable trench f) Site leveling g) fencing However space & capability in common infrastructure viz, Common cable trenches etc. for accommodation of present as well as future i.e., 400kV & 220kV shall be in present scope of bidder as per the provisions of bidding document.
18	EOT Crane for 400kV GIS	EOT Crane for 400kV GIS	We request PGCIL to confirm the type of crane required for 400kV GIS i.e. Single Girder (or) Double Girder type?	400kV GIS crane shall be of Single Girder type meeting the other requirement mentioned in the Technical Specifications.
19	General (Space)	General (Space)	Please confirm whether space need to be consider for line reactors for proposed 400Kv line bays under present scope.	Line Reactors are not envisaged for 4 Nos. of 400kV Line Bays under present scope

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SR.NO.	NAME OF THE DOCUMENTS	CLAUSE	BIDDER's QUERIES	POWERGRID Reply
20	BPS ,sch-1, Raghanesda (GIS), sl.no-44	BPS ,sch-1, Raghanesda (GIS), sl.no-44	As per the referred line item, substation automation for line reactor bay shall be considered under present scope. However, there is no line item for line recator protection panel. We understand that line reactor protection panel and integartion with SAS shall be under future scope. In present scope bidder scope is limted to supply of line reactor GIS module along with associated circuit breaker relay panel only. Please confirm.	Integeration of GIS bay (considered for dia completion) with SAS (including supply of necessary hardware) is envisaged under present scope of the bidder. However, protection panel for same shall be under future scope.
21	BPS ,sch-1, Raghanesda (GIS), sl.no-66	BPS ,sch-1, Raghanesda (GIS), sl.no-66	As per referred BPS, it is mentioned as "Indoor lightning for GIS building" . We understand that referred BPS related to indoor lighting pf GIS building. Please confirm whether our understanding is correct	Referred BOQ Item clearly specifies- "INDOOR LIGHTNING FOR GIS BUILDING (AS PER TECHNICAL SPECIFICATION) including AHU & Relay Rooms as applicable". Bidder to quote accordingly as per provisions of bidding documents.
22	Line item	Line item	There is no line item for illumination of labour hut in the BPS. Please check and provide suitable amendments.	Construction of Labour Hut is not envisaged under the present scope of the bidder.
23	Dismantling	Dismantling	We do not envisage dismantling of any existing equipments / structures/buildings under present scope. Encumbrance free land shall be provided by PGCIL to the Bidder. Please confirm.	Contractor shall be provided with reasonably encumbrance free land.
24	Tender Specification : Volume II, Section project - Scope of work,	2.2.1.3 Civil works cl.no: F	Please provide the following details for the proposed substation. 1. Soil investigation report (if available) 2. Contour layout showing existing ground level (if available) 3. HFL Data (in order to finalize the FGL) 4. Site global co-ordinates for the proposed plot in order to estimate the quantum of work.	1. Soil investigation work is in the scope of bidder. 2. Contouring and levelling is in the scope of Bidder. 3. FGL & HFL shall be decided during detail engineering jointly. 4. Refer clause no. 6 (f) (i) of Section-Project, wherein it is mentioned that Location of identified land and Plot plan for land shall be provided to successful bidder during detailed engineering
25	Tender Specification : Volume II, Section project - Scope of work,	2.2.1.3 Civil works cl.no: G (ii) & 3	As per referred clause, it is mentioned that Bituminous Road including approach road (if any), shall be constructed as per POWERGRID standard drawings provided in tender. However, in the Clause no.3 (d) approach road is mentioned under specific exclusions. Please clarify the scope of approach road	Approach road if required shall be executed as per the respective line item of BPS for road works

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SR.NO.	NAME OF THE DOCUMENTS	CLAUSE	BIDDER's QUERIES	POWERGRID Reply
26	Tender Specification : Volume II, Section project - Scope of work & Civil works-Rev-12 & BPS, Price schedule-3	2.2.1.3 Civil works cl.no: F(iii) & Sl no. 77	As per referred clause, soil investigation is in the bidder scope and item for the same also added in the price schedule. However, in the Clause no.3 (e) soil investigation is mentioned under specific exclusions. Please clarify the scope of soil investigation.	Bidder may quote as per BPS
27	Section Project	Cl. No 3 (c) Specific Exclusions	Refere to section project clause Cl. No 3 (c) specific exclusions, considering exclusion for store building in section project, we are not considering Hydrant including hydrant pipe,VMS System including power and control cables "for both open and close stores". Please confirm.	Construction of Store is excluded from bidders scope. However, as per provisions of Section Fire Protection of Technical specification, hydrant protection for Store is envisaged under present scope of the bidder.
28	General	Illumination System	Kindly confirm our understanding as below: We have considered outdoor lighting scope for the present scope of bays only. Outdoor illumination required for future bays are excluded from our scope of supply and engineering.	Confirmed. Bidder to quote as per BPS and provisions of bidding documents.
29	General	Space for Future bay Module	We have considered Line Bay only as per BOQ without considering any provision for future Line reactor. Kindly confirm .	Requirement of bidding documents is amply clear. Bidder to quote as per provision of bidding documents.
30	Technical specification for(GIS-REV 5A)	Cl.no. 5.8.: The material and thickness of the enclosures shall be such as to withstand an internal flash over without burns through for a period of 300 ms at rated short time withstand current. The material shall be such that it has no effect of environment as well as from the by-products of SF6 breakdown under arcing condition. This shall be validated with Type Test.	The parameters shall be in line with the requirement of IEC 62271-203. Request a concurrence on the same.	Bidder to quote as per provisions of bidding documents.
31	Technical specification for (GIS-REV 5A)	Cl.no. 5.9: Inspection windows (View Ports) shall be provided for Disconnect Switch and both type of earth switches i.e. maintenance and fast operating.	Inspection windows shall be provided for Disconnector enclosures. Provision of observation windows for earth switches is not envisaged. Please confirm.	Bidder to quote as per provisions of bidding documents.

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SR.NO.	NAME OF THE DOCUMENTS	CLAUSE	BIDDER's QUERIES	POWERGRID Reply
32	Technical specification for (GIS-REV 5A)	Cl.no. 15.2.1: It shall comprise structural frames completely enclosed with specially selected smooth finished, cold rolled sheet steel of thickness not less than 3 mm for weight bearing members of the panels such as base frame, front sheet and door frames, and 2.0mm for sides, door, top and bottom portions..	As per the standard practice, for the weight bearing members a sheet thickness of 2.5 mm is more than sufficient and as GIS manufacturer recommends the same and for non weight bearing members the same is 2 mm thick. **Kindly confirm**.	Bidder to quote as per provisions of bidding documents.
33	Technical specification for 400kV GIS (GIS-REV 5A)	Cl.no. 22: All transport packages containing critical units viz Circuit breakers and Voltage transformers shall be provided with sufficient number of impact recorders (on returnable basis) during transportation to measure the magnitude and duration of the impact in all three directions.	VTs being an critical equipment only impact recorders shall be provided for VTs. We request to kindly accept the same.	Bidder to quote as per provisions of bidding documents.
34	General	Telecom system	Please provide the details of remote end FOTE System/Equipment make for line bays.	Details of remote end FOTE system/equipment make shall be provided at the time of detailed engineering.
35	General	Land Acquisition	We understand that the proposed land has already been acquired by the PGCIL and encumbrance free land will be provided to the successful bidder. The plot offerred for pre-bid stage site visit will remain same and there will be no change in the plot. Please confirm.	Contractor shall be provided with reasonably encumbrance free land.
36	General	Plot boundary coordinates	Please share the reference coordinates of plot boundaries of substation area.	Please refer clause no. 6 (f) (i) of Section-Project, wherein it is mentioned that Location of identified land and Plot plan for land shall be provided to successful bidder during detailed engineering.
37	General	Approach Road	We understand that, substation approach from the major state road to the plot main gate is in good condition. There is no requirement of strengthening of the existing approach road, culverts/ bridges, drainage networks etc in order to facilitate transport of heavy equipments. Kindly confirm.	Please refer Annexure-IV (Frequently asked questions) of Section Project under Technical Specifications.
38	General	M-sand, stone dust and PPC cement	We understand that, use of alternate construction materials as m-sand, stone dust and PPC cement will be allowed. Kindly confirm	Confirmed but manufactuture sand should adhere to the following IS codes (latest revision) for given works. 1. Concrete M-sand/ Sand IS code: IS 383 latest 2. Brickwork M-sand/ Sand IS code: IS 2116 latest 3. Plastering M-sand/ Sand IS code: IS 1542 latest

Clarification No.1 (Technical) dated: 13/11/2024 for 400kV GIS Package SS80T for Extension of 765/400kV Substation near Raghanesda (GIS) for establishment of 400kV GIS associated with "Transmission System for evacuation of RE power from Raghanesda area of Gujarat - 3 GW under Phase-I" under TBCB route

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SR.NO.	NAME OF THE DOCUMENTS	CLAUSE	BIDDER's QUERIES	POWERGRID Reply
39	General	Scope of work for civil amenities	We presume that the quantity mentioned in "Price schedule" is tentative and for any changes in quantity during detailed engineering/execution, bidder's may ask for quantity amendment. Please confirm.	It shall be dealt as per provision in the contract.
40	General	Price schedule/Specification	We understand that in case of any discrepency between price schedule & specifications, price schedule will govern. Kindly confirm.	Kindly refer Annexure-IV(FAQ) of Section project.
41	General	Slope protection structures	We understand that retaining wall/stone pitching require for protection of fondation or slope will be claimed under separate line item. Please confirm	Retaining wall/stone pitching is not envisaged, however if exceuted it shall be dealt as per provisions in the contract. Bidder may quote as per BPS and Tech Spec.
42	General	Power & Water for Construction Work	We understand that construction purpose 415V power and water supply and it's arrangements upto a single point adjoining to the construction site will be provided free of cost by the PGCIL to the successful Bidder, Please confirm.	Bidder to refer clause no 14.3 of section GTR rev 15. Bidder to quote accordingly.
43	General	Bore well	We understand that, contruction of bore well is not in our scope. Please confirm.	Bidder to quote as per provisions of bidding documents.
44	BPS, Sch-3	Stone column works	Refer to BPS, sch 3, Sr. no 81 kindly inform the requirement of 800mm dia vibro stone column for various types of foundations.	It shall be decided during detail engineering based on soil report
45	General	Existing Drawings for Extn substations.	Please share existing general arrangement, layout drawings (i.e. foundation layout, drain layout, cable trench layout, stone spreading layout) and foundation & structural drawings of existing tower/gantry & equipment support structures.	Please refer clause no. 6 (f) (i) of Section-Project, wherein it is mentioned that Location of identified land and Plot plan for land shall be provided to successful bidder during detailed engineering. Further, any other input drawings required shall also be made available to the successful bidder during detailed engineering.
46	BPS, Sch-3	Dismantling/Demolishing Work	We understand that, the plot is free from any other existing temporary and permanent structures. There is no scope of dismantling and disposal of waste materials other than mentioned in the price schedule. Please confirm.	Contractor shall be provided with reasonably encumbrance free land.
47	Cable trench	Cable trench	Refer to BPS, there is no line item for cable trench in price schedule, please confirm the line item for billing of switchyard cable trenches.	Bidder may quote as per BPS and Tech Spec. Cable trench shall be paid under respective items in the BPS like excavation, PCC, RCC, Reinforcement & Misc. structural steel.
48	Order of Precedence	Order of Precedence	In case of any discrepancy in price schedule (BPS), section project and technical specification, kindly confirm the order of precedence for consideration of item.	Kindly refer Annexure-IV(FAQ) of Section project.

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SR.NO.	NAME OF THE DOCUMENTS	CLAUSE	BIDDER's QUERIES	POWERGRID Reply
49	JDU requirement of GIS	JDU requirement of GIS	We understand that bidder who are qualifying through the Qualification requirement clause No. 1.4 (iii), ROUTE-4, OF ANNEXURE-A (BDS) can obtain JDU from multiple GIS manufacturers and similarly, eligible 400kV KV GIS manufacturer can support to multiple bidders, during execution stage bidder can finalize GIS manufacture to metting their timline and suitability. Kindly confirm.	Bidder to quote as per provisions of bidding documents.
50	JDU requirement of GIS	JDU requirement of GIS	We understand that bidder can submit the 2% additional PBG requirement againest 400KV GIS on behalf of manufacturer. Kindly confirm.	Bidder to quote as per provisions of bidding documents.
51	JDU requirement of GIS	JDU requirement of GIS	We understand that during execution stage bidder can propose and obtain JDU form the GIS manufacturer who is meeting the qualification requirement stipulated in clause No. 1.4 (iii), ROUTE-4, OF ANNEXURE-A (BDS).Kindly confirm.	Bidder to quote as per provisions of bidding documents.
52		General	Cooling capacity of 2TR AC unit shall not be less 22000BTU/hr. and shall have energy efficiency rating of 3 star, However, with revised BEE star rating & current availability of models from all supplier, 2TR AC unit is available with 21000BTU with 4star rating only.	Bidder to quote as per the provisions of bidding documents
53	Technical Specification for Fire protection system Rev 6, Clause No. 2.03.01	Fire Detection & Alarm System	We understand that Conventional Type Fire Detection & Alarm System shall be envisaged for this tender. Please confirm.	Confirmed
54		General	We have not considered any type of fire protection and detection alarm system for any type of residential building such as labor hut, Staff quarter or any other buildings. Please confirm.	Confirmed
55	Section Project Clause No. 2.1, Scope Table for 400kV	400kV Line Bay with Switchable Line Reactor Bay : 1 No. (For diameter completion)	We understand that Line reactor is envisaged for this tender, but the same is not specified in the BPS. Hence we have not considered HVWS system for the protection of line reactors. Please confirm	400kV line reactor is not envisaged under the present scope of works. Bidder to quote as per the BPS.
56		General	In the absence of existing hydrant layout, We are considering tapping distance from existing header as 50 meters. Please confirm	Bidder to quote as per the provisions of bidding documents
57	Technical specification GIS Rev 05 A (5.36)	Indicators shall be provided on all circuit breakers, isolators and earth-switches, which shall clearly show whether the switches are open or closed.	Indicators shall be provided on Drive Box/Equipment . Request for your acceptance.	Bidder to quote as per the provisions of bidding documents

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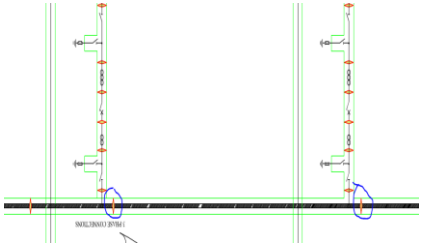
SR.NO.	NAME OF THE DOCUMENTS	CLAUSE	BIDDER's QUERIES	POWERGRID Reply
58	Technical specification GIS Rev 05 A (6.7.1 e)	An operation counter shall also be provided .	The operation counter shall be in LCC where it is easier to monitor / note along with other indications.	Acceptable
59	Technical specification GIS Rev 05 A (6.7.3 k)	Separate MCBs shall be provided for each spring charging motor and the rating of MCBs shall be suitably selected to match the starting, running and stalling time.	Offered HMB drive is Spring-hydralic type, and is already accepted in PGCIL. For MCB requirement, If needed MCB will be provided in LCC, same is not feasible to be provided in Drives due to compactness and design constraints.	Acceptable
60	Technical specification GIS Rev 05 A (6.7.3 l)	An overload relay shall be provided for protection of the spring charging motor.	If needed relay will be provided in LCC, same is not feasible to be provided in Drives due to compactness and design constraints.	Acceptable
61	Technical specification GIS Rev 05 A (15.3.6)	All instrument transformer connections shall be hard wired to terminal block via ring type connection.	We understand this requirement is at LCC side only considering the reliability of latest design of Pin Type terminals, request to please accept the Pin type terminations as well.	Bidder shall comply with the requirements of technical specification.
62	Technical specification GIS Rev 05 A (5.42 (9))	GIS manufacturer as per their design shall preferably use maximum three standard straight horizontal outdoor bus duct lengths for entire GIS installation to optimize the spare requirement.	Its not possible to built the GIS Layout using 3 lengths of busduct only. Request to accept more than 3 lengths of busduct.	Please refer S.no.B8 of Specific Requirement Rev 09 annexed with Section Project. Bidder to quote accordingly.
63	Technical specification GIS Rev 05 A (8.13)	Mechanical position indication shall be provided locally at each switch and Electrical indication at each Local Control Cabinet (LCC) / SAS.	Shall be provided on drives.	Bidder to quote as per the provisions of bidding documents
64	Typ SLD		Our type tested 400KV GIS has passive non segerated busbar design. We meet the requirement of service continuity, maintenance & repair without provision of any barrier in busbar. All the requirement of repair & maintenance as per specifications are met with passive non-segregated busbar design. This design is accepted by various utilities in India and Abroad and also in ongoing projects of PGCIL. This type of passive non-segregated busbar design is working satisfactorily at site without any issues hence we request an acceptance of this design.	Please refer our reply at S.no.10 of Clarification no.1
65	BOQ	Controlled Switching Device for 420 kV, 3-ph Circuit Breaker - 09 nos	We understand that the qty of CSD shall be 10 nos. Please confirm	Bidder to quote as per the BPS

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SPECIFICATION NO: CC/T/W-GIS/DOM/A10/24/13643

SR.NO.	NAME OF THE DOCUMENTS	CLAUSE	BIDDER's QUERIES	POWERGRID Reply
Volume-I (Conditions of Contract)				
1	General	Zero date of project	We understand that Zero date of Project will start from the date of handing over of encumbrance free land to Contractor. Please confirm.	The provisions of the Bidding Documents are amply clear.
2	Section IV, GCC, 34. Extension of Time for Completion	34.1 The Time(s) for Completion specified in the SCC shall be extended if …… 34.2 Except where otherwise specifically provided in the Contract, the …… 34.3 The Contractor shall at all times use its reasonable efforts to minimize any delay in the performance of its obligations under the Contract.	We request to add following clause under GCC 34, Extension of time for completion - In case of of any default by employer to execute any of its responsibilities under GCC 6, the Time for Completion shall be extended along with suitable cost compensation.	The provisions of the Bidding Documents shall remain unchanged.
3	Section IV, GCC, 32. Force Majure	32.1 "Force Majeure" shall mean any event beyond the reasonable control of the Employer or of the Contractor, as the case may be, and which is unavoidable notwithstanding…...	Considering Covid-19 pandemic & lockdown history. We request you to include "Pandemic" in the acceptable events of force majeure.	The Provisions of Bidding Documents are amply clear and shall remain unaltered.

Clarification No.1 (Commercial) dated: 13/11/2024 400kV GIS Package SS80T for Extension of 765/400kV Substation near Raghanesda (GIS) for establishment of 400kV GIS associated with "Transmission System for evacuation of RE power from Raghanesda area of Gujarat - 3 GW under Phase-I" under TBCB route

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SR.NO.	NAME OF THE DOCUMENTS	CLAUSE	BIDDER's QUERIES	POWERGRID Reply
4	Section IV, GCC, 35. Suspension	35.1 The Employer may request the Project Manager, by notice to the Contractor, to order the Contractor to suspend performance of any or all of its obligations under the Contract. Such notice shall specify the …… 35.2 If the Contractor's performance of its obligations is suspended or the rate of progress is reduced pursuant to this GCC Clause 35, then…… 35.3 During the period of suspension, the Contractor shall not remove from the Site any Plant and Equipment, any part of the Facilities or any Contractor's Equipment, without the prior written consent of the Employer.	We request to add following clause as contractor's suspension rights - Suspension Rights - If Owner fails or delays to release the payments and or perform any other obligations under this Agreement, The Contractor may, after giving not less than [21] days' notice to Owner, suspend work (or reduce the rate of work) unless and until the Contractor has received the Payment or the breach of Owner is remedied. The Contractor's action shall not prejudice its other rights and entitlements including interest on delayed payments. If the Contractor suffers delay and/or incurs Cost as a result of suspending work (or reducing the rate of work), it shall be entitled to : (a) an extension of time for any such delay, if completion is or will be delayed, and (b) payment of any such Costs incurred as a result thereto.	The provisions of the Bidding Documents shall remain unchanged.

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SR.NO.	NAME OF THE DOCUMENTS	CLAUSE	BIDDER's QUERIES	POWERGRID Reply
5	General	Delay in land handover/ ROW- issue not attributable to Contractor	We request to consider delay in Delay in land handover/ ROW issue for the reasons not attributable to Contractor as suspension period and below terms should be followed for this period: a)"If the total period of all such suspension exceeds thirty days, the Contractor shall, in addition be entitled to compensation, as the Engineer-in-Charge may consider reasonable, in respect of salaries and/or wages paid by the Contractor to his employees and labour and hired contractor's equipments at Site remaining idle during the period of suspension, adding thereto 5% of the sum of the compensation, for suspension exceeding 30 days and not exceeding 90 days to cover indirect expenses of the Contractor, provided the Contractor submits his claim supported by details to the Engineer-In-Charge within 14 days of the expiry of the period of suspension." b)If, by virtue of a suspension order given by the Employer, other than by reason of the Contractor's default or breach of the Contract, the Contractor's performance of any of its obligations is suspended for an aggregate period of more than ninety (90) days, then at any time thereafter and provided that at that time such performance is still suspended, the Contractor may give a notice to the Employer requiring that the Employer shall, within twenty-eight	The provisions of the Bidding Documents shall remain unchanged.

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SR.NO.	NAME OF THE DOCUMENTS	CLAUSE	BIDDER's QUERIES	POWERGRID Reply
6	Section IV, GCC, 36. Termination	36.1 Termination for Employer's Convenience 36.1.1 The Employer may at any time terminate the Contract for any reason …….. 36.1.2 Upon receipt of the notice of termination under …….. 36.1.3 In the event of termination of the Contract under …… 36.2 Termination for Contractor's Default 36.2.1 The Employer, without prejudice to any other rights or remedies…….. …….. 36.2.2 If the Contractor …….. 36.2.3 Upon receipt of the notice of termination under …… 36.2.4 The Employer may enter upon the Site, expel the Contractor, and complete the Facilities itself or by employing any third party. The Employer may,…….. 36.2.5 Subject to GCC Sub-Clause 36.2.6, the	We request to add following clause as contractor's termination rights - Termination Rights: The Contractor shall be entitled to terminate the Contract if: a) The breach of Owner is not remedied and/or continues despite suspension of contract by the Contractor b) Owner assigns, sublets or transfers this Contract in contravention to the terms of this Contract. c) Owner becomes bankrupt, insolvent, goes into liquidation (voluntary or otherwise), has a receiving or administration order made against him, compounds with his creditors, or carries on business under a receiver, trustee or manager for the benefit of his creditors, an order for corporate insolvency resolution process or liquidation is passed by a court/ tribunal, change of Control, or if any act is done or event occurs which (under applicable Laws) has a similar effect to any of these acts or events. Except in events under (c) where the termination shall be immediate, the Contractor may upon giving 14 days' notice to Owner, terminate this Contract in any of the other events listed out hereinabove, without prejudice to its other rights under contract or otherwise;	The provision of the Bidding Documents shall remain unchanged.

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SR.NO.	NAME OF THE DOCUMENTS	CLAUSE	BIDDER's QUERIES	POWERGRID Reply
7	Section IV, GCC, 36.1.3. Termination	36.1.3 In the event of termination of the Contract under GCC Sub-Clause 36.1.1, the Employer shall pay to the Contractor the following amounts: (a) the Contract Price, properly attributable to the parts of the Facilities executed by the Contractor as of the date of termination (b) the costs reasonably incurred by the Contractor in the removal of the Contractor's Equipment from the Site and in the repatriation of the Contractor's and its Subcontractors" personnel (c) any amounts to be paid by the Contractor to its Subcontractors in connection with the termination of any subcontracts, including any cancellation charges (d) costs incurred by the Contractor in protecting the Facilities and leaving the Site in a clean and safe condition pursuant to paragraph (a) of GCC Sub-Clause 36.1.2 (e) the cost of satisfying all other obligations, commitments and claims that the Contractor may in good faith have undertaken with third parties in connection	We request to add following clause - In the event of termination of the Contract under GCC Sub-Clause 36.1.1, the Employer shall pay to the Contractor the following amounts: a) …..... b) …..... c) …..... d) …..... e) …..... f) Loss of profit	The provision of the Bidding Documents shall remain unchanged.
8	Section IV, GCC, 2.13.1 (b)	"Any notice sent by special courier shall be deemed (in the absence of evidence of earlier receipt) to have been delivered ten (10) days after dispatch. In proving the fact of dispatch, it shall be sufficient to show that the envelope containing such notice was properly addressed, stamped and conveyed to the postal authorities or courier service for transmission by special courier. Provided further that whenever the postal authorities or courier service provide a proof of delivery, the same shall also be applicable for presenting the fact of dispatch. "	We Request you to delete this clause as the same is detrimental to contractor interest.	The provision of the Bidding Documents shall remain unchanged.

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SR.NO.	NAME OF THE DOCUMENTS	CLAUSE	BIDDER's QUERIES	POWERGRID Reply
9	Section IV, GCC 39	GCC 39- Incase of sole arbitrator, he/she will be chosen from a panel maintained by the Owner.- Owner shall, within 30 days of dispute notice, send a list of names of 3 arbitrators and the contractor shall within the period of further 30 days select anyone person to act as "Sole Arbitrator", which will be confirmed by Owner.	We seek appointment of independent arbitrators (mutual appointment in case of a sole arbitrator) without reference to the panel maintained by the Employer. Pl confirm.	The provision of the Bidding Documents are amply clear.
10	Section IV, GCC 39	39. Arbitration 39.1 All disputes or differences in respect of which the decision, if any, of the Project Manager and/or the Head of the Implementing Authority has not become final or binding as aforesaid shall be settled by arbitration in the manner provided herein below: 39.2 The arbitration shall be conducted by a sole arbitrator in case the amount of claim is less than Rs. 25 Crore and by three member arbitral tribunal in case the amount of claim is greater than Rs. 25 Crore. Sole Arbitration ……	We request for settlement of disputes arising out of contract or in connection with the contract, to be settled with panel of three arbitrators, one from each party and a presiding arbitrator. Also the claim about shall not be the basis of deciding the number of arbitrators. Please confirm.	The provision of the Bidding Documents are amply clear.
11	General		In case of suspesion of work by employer due to reasons not attributable to bidder and/or delay in handover of land. We requests to include provision of cost compensation towards extended stay including all cost incurred for staff, watch & ward, bank guarantees, insurance, plant & machineries etc along with extension of time .	The Provisions of Bidding Documents are amply clear and shall remain unaltered.

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SR.NO.	NAME OF THE DOCUMENTS	CLAUSE	BIDDER's QUERIES	POWERGRID Reply
12	Section VI - Forms & Procedures - Terms and Procedures of Payment Appendix-1		As per appendix-1, advance amount shall be proportionately adjusted against progressive payment. Please confirm whether advance can be short closed by adjusting balance amount from running bills in one lot.	The provisions of the Bidding Documents are amply clear.
13	General	Hinderance Register	Site Hinderance register shall be maintained by us, which shall include the delays due to force majeures, natural calamities and other unforseen conditions etc. Schedule extension/compensation shall be provided to us for the same accordingly.	Extension/compensation if any shall be governed by the terms and references of respective provisions in Bidding Documents and as per the provisions in Contract Agreem ent in case of award.
14	Clause 34.1 -Section IV, GCC, Vol-I-Extension of Time	Clause 34.1 -Section IV, GCC, Vol-I-Extension of Time	Please include the below mentioned provision in stated clause: (f) Any delay caused due to delay/failure in fulfilment of Employer's obligations . The contractor is entitled for extension of time along with reimbursement of additional cost incurred.	The provisions of the Bidding Documents shall remain unchanged.
15	Appendix-1 (TERMS AND PROCEDURES OF PAYMENT) in Vol-I-Sample forms and Procedures.	Appendix-1 (TERMS AND PROCEDURES OF PAYMENT) in Vol-I-Sample forms and Procedures.	Please rephrase this clause as under: In case of delay in testing and commissioning & issuance of taking over certificate by Employer beyond **One (1)** month from the date of receipt of equipment at site, the last 10% of Ex-Works price of respective equipment shall be paid after issuance of a certificate by Employer's representative that the equipment have been received in good condition and on submission of a bank guarantee of equivalent amount, which shall be kept valid initially for a period of twelve (12) months or until three (3) months after the expected date of commissioning (in case it is possible to anticipate the same), whichever is earlier, provided all other conditions as per above are complied with by the Contractor. If the commissioning does not take place within the validity period of BG, the validity of BG shall be extended from time to time. The bank guarantee shall, however, be released within one month of successful commissioning of the respective equipment by the Employer."	The provisions of the Bidding Documents shall remain unchanged.

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SR.NO.	NAME OF THE DOCUMENTS	CLAUSE	BIDDER's QUERIES	POWERGRID Reply
16	Appendix-1 (TERMS AND PROCEDURES OF PAYMENT) in Vol-I-Sample forms and Procedures.	Appendix-1 (TERMS AND PROCEDURES OF PAYMENT) in Vol-I-Sample forms and Procedures.	Please include provision of interest on delayed payments by Employer @ SBI PLR for the prevailing year.	The provisions of Terms and Procedures of Payment referred to in Appendix-1 to Contract Agreement in Section-VI - Sample forms and Procedures in Volume-I of the Bidding Documents shall prevail.
17	Clause no. 32.1 of GCC - Force Majeure	Clause no. 32.1 of GCC - Force Majeure	We understand that Epidemics/Pandemic such as Novel Coronavirus (e.g. COVID 19) etc., Terrorism, Bandhs, Infrastructure failures and Shortage of certain components required for the performance of the scope of work are covered under force majeure. **Please Confirm.**	The Provisions of Bidding Documents are amply clear and shall remain unaltered.
18	Clause no. 31.1 of GCC - Change in Laws and Regulations	Clause no. 31.1 of GCC - Change in Laws and Regulations	We understand that, If any new law or regulation imposed social responsibility on Contractor which hamper the progress of work with financial burden out of Contract, the same shall be borne by Employer. **Please Confirm.**	The Provisions of Bidding Documents are amply clear and shall remain unaltered.

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SR.NO.	NAME OF THE DOCUMENTS	CLAUSE	BIDDER's QUERIES	POWERGRID Reply
19	Site Storage Facility	Site Storage Facility	We presume that space shall be provided at site for storage & site office construction at free of cost. **Please confirm.**	The Contractor has to ensure that the suitable arrangements of storage during the execution stage and overall responsibility of the same lies with him in line with the provision of the Bidding Documents. Further, for providing land for such construction store, the same can be done in coordination with site during execution stage depending upon the availability of space. However, the Employer has no binding to provide the same.
20	TCS	TCS	W.e.f. 01/10/2020, TCS is implemented . The seller is required to collect the TCS from buyer TCS @ .1% of sales consideration on sale of goods when Seller receives amount Rs 50 lakh from any single buyer in current financial year. In current tender, bidder will have to collect TCS on sale of goods @ 0.1% on value of goods excluding GST. Bidder will issue certificate to client and the same will be subject to credit to client However on service invoice no TCS will be applicable. **Please confirm our understanding.**	Bidder have to comply with all the statutory requirements.

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SR.NO.	NAME OF THE DOCUMENTS	CLAUSE	BIDDER's QUERIES	POWERGRID Reply
21	Clause 39-Section IV, SCC-Arbitration	Clause 39-Section IV, SCC-Arbitration	We request for settlement of disputes arising out of contract or in connection with the contract , to be settled with panel of three arbitrators, one from each party and a presiding arbitrator. Also the claim about shall not be the basis of deciding the number of arbitrators. **Please confirm.**	The Provisions of Bidding Documents shall prevail.
22	Appendix-2 (Price Adjustment), Section-VI (Sample Forms and Procedures), Vol-I of Bidding Documents	Appendix-2 (Price Adjustment), Section-VI (Sample Forms and Procedures), Vol-I of Bidding Documents	We request you to kindly incorporate the Price Adjustment for GIS, Instrument Transformer, Surge Arrestor, BPI, Power & Control Cables, Earthing Materials, IPS Tube, Conductor, Hardware, Clamps & Connectors, cement, TMT bars, Structure steel and Concrete. Please confirm.	The provisions of the Bidding Documents shall remain unchanged.
23	GCC/SCC Clause 33, Section-IV & Section-V, Vol-I of Bidding Documents	GCC/SCC Clause 33, Section-IV & Section-V, Vol-I of Bidding Documents	As per referred clause " Percentage for the Change Proposal under this Clause shall be limited to Fifteen (15) percent". Hope the current change proposal is limited to the project duration. **Kindly confirm our understanding.**	The provisions of the Bidding Documents are amply clear.
24	GCC, 2.1	2.1 Contract 2.1.1 The Contracts to be entered into with the successful Bidder shall be as under: (i) First Contract: For Ex works supply of all equipments and materials including mandatory spares and Type Test to be conducted (whether in India or abroad) (Supply of Goods Contract) (ii) Second Contract: For providing all services i.e. inland transportation for delivery at site, In-transit insurance, unloading, handling at site, installation, Testing and Commissioning including performance testing in respect of all the equipments supplied under the "First Contract", Training to be imparted (whether in India or abroad) and any other services specified in the Contract Documents (Supply of Services Contract).	In case of Joint Venture, we understand that PGCIL will issue common purchase order for complete scope of work envisaged in this package. Against this common order, both partners can book separate orders of value arrived by adding the line items in PGCIL BPS for respective scope. Pls clarify our understanding.	As per the provisions of bidding documents, in case of Joint Venture, the award shall be placed on the Lead Partner (Partner In-charge) for and on behalf of the Joint Venture for complete scope of work covered under Contract. Further, as per the provisions of bidding documents, all the parties to the Joint Venture shall be jointly and severally bound unto the Employer for the successful performance of the Contract. Bidders are requested to refer the provisions of Form-15(Undertaking by the Joint Venture Partners), Section-VI, Volume-I of Bidding Documents.

Clarification No.1 (Commercial) dated: 13/11/2024 400kV GIS Package SS80T for Extension of 765/400kV Substation near Raghanesda (GIS) for establishment of 400kV GIS associated with "Transmission System for evacuation of RE power from Raghanesda area of Gujarat - 3 GW under Phase-I" under TBCB route

SPECIFICATION NO: CC/T/W-GIS/DOM/A10/24/13643

SR.NO.	NAME OF THE DOCUMENTS	CLAUSE	BIDDER's QUERIES	POWERGRID Reply
25	ITB, 9.3 (c)	The leader shall be authorized to incur liabilities and receive instructions for and on behalf of any and all partners of the joint venture, and the entire execution of the contract, including payment, shall be done exclusively with the leader, provided otherwise requested by the joint venture and agreed between the Employer and the leader.	In case of joint venture, pls confirm whether both partners of joint venture can raise separate invoices towards PGCIL for re-spective scope.	As per the provisions of the Bidding Documents, in case of joint venture bid, payment shall be done exclusively with the Lead Partner of the joint venture. The payment under the contract can also be received by other Partner(s) based on authorisation of Lead Partner and agreement between the Employer and the Lead Partner.
26			In case of joint venture, pls confirm whether both partners can receive direct payments from PGCIL in respective accounts.	

ANNEXURE: BOQ_400kV GIS_SUPPLY_RAGHANESDA
REV No: 1
DATE: 14.11.2024

Sl. No.	Item Description	Unit	Qty.	Remarks
1	**SUPPLY- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS**			
1.01	GIS SUPPLY: 420kV, 3150 A, 63 kA, SF6 GIS Auxiliary Bus module for Spare Transformer as per Section-Project, Technical specification	SET	1	
1.02	GIS BAY SUPPLY: 420kV, 3150 A, 63 kA, SF6 GIS Bus Reactor bay module as per Section-Project, Technical specification	SET	2	
1.03	GIS BAY SUPPLY: 420kV, 4000 A, 63 kA, SF6 GIS Bus bar module as per Section-Project, Technical specification	SET	2	
1.04	GIS BAY SUPPLY: 420kV, 3150 A, 63 kA, SF6 GIS Tie bay module (without PIR) as per Section-Project, Technical specification	SET	5	
1.05	GIS BAY SUPPLY: 420 kV, 3150 A, 63 kA, SF6 GIS Line feeder bay module (without PIR) as per Section-Project, Technical specification	SET	5	
1.06	GIS BAY SUPPLY: 420KV, 3150 A, 63 KA, SF6 GIS SWITCHABLE LINE REACTOR BAY MODULE ASPER SECTION-PROJECT, TECHNICAL SPECIFICATION	SET	1	
1.07	GIS BAY SUPPLY: 420KV, 3150 A, 63 KA, SF6 GIS ICT FEEDER BAY MODULE FOR IV SIDE CONNECTION WITH 765KV ICT AS PER SECTION-PROJECT, TECHNICAL SPECIFICATION	SET	3	
1.08	GIS SUPPLY: 420KV, 3000A, 63KA, SINGLE PHASE, SF6 GAS INSULATED BUS DUCT (GIB) OUTSIDE GIS HALL ALONGWITH ASSOCIATED SUPPORT STRUCTURE, ETC. AS PER TECHNICAL SPECIFICATION	METRE	2200	
1.09	GIS SUPPLY: 420KV, 3150A, 63KA SF6 TO AIR BUSHING including support structure	SET	28	
1.10	GIS SUPPLY: Controlled Switching Device for 420 kV, 3-ph Circuit Breaker	SET	10	1 SET= 1 Nos. of each type and rating
1.11	GIS SUPPLY: Local Control Cubicles (LCC)	SET	16	INCLUDING POWER, CONTROL & INSTRUMENTATION CABLE AS APPLICABLE.
2	**SUPPLY- GIS : SPECIAL TOOLS AND TESTING & MAINTENANCE INSTRUMENTS AS PER TS**			
2.01	SUPPLY- GIS : MANDATORY MAINTENANCE EQUIPMENT SUITABLE FOR GIS -SCISSOR LIFT	SET	1	1 SET= 1 Nos. of each type and rating
3	**SPARES- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS**			
3.01	GIS SPARES: 400KV GIS-SF6 GAS PRESSURE RELIEF DEVICE ASSEMBLY OF EACH TYPE	SET	2	1 SET= 1 Nos. of each type and rating
3.02	GIS SPARES: SF6 PRESSURE GAUGE CUM SWITCH /DENSITY MONITORS AND PRESSURESWITCH AS APPLICABLE, OF EACH TYPE-400KV GIS	SET	3	
3.03	GIS SPARES: COUPLING DEVICE FOR PRESSURE GAUGE CUM SWITCH FOR CONNECTINGGAS HANDLING PLANT OF EACH TYPE-400KV GIS	SET	2	
3.04	GIS SPARES: RUBBER GASKETS, “O” RINGS AND SEALS FOR SF6 GAS FOR GISENCLOSURE OF EACH TYPE-400KV GIS	SET	3	
3.05	GIS SPARES: 400KV GIS-MOLECULAR FILTER FOR SF6 GAS WITH FILTER BAGS (5 % OF TOTALWEIGHT)	SET	1	
3.06	GIS SPARES: CONTROL VALVES FOR SF6 GAS OF EACH TYPE-400KV GIS	SET	3	
3.07	GIS SPARES: 400KV GIS-SF6 GAS	LOT	1	1 LOT= 5 % OF TOTAL GAS QUANTITY
3.08	GIS SPARES: 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	GIS SPARES: UHF PD SENSORS OF EACH TYPE ALONG WITH BNC CONNECTOR FOR 420KV GIS	SET	5	1 SET= 1 Nos. of each type and rating
3.10	GIS SPARES: 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 Nos. of each type and rating
3.11	GIS SPARES: 400KV GIS-GAS BARRIERS OF EACH TYPE (COMPLETE WITH METAL RING ETC.)ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	SET	5	1 SET= 1 Nos. of each type and rating
3.12	GIS SPARES: 400KV GIS- 3150A SF6 TO AIR BUSHING COMPLETE IN ALL RESPECT	SET	1	1 SET= 1 Nos. of each type and rating
3.13	GIS SPARES: LCC SPARES - AUX. RELAYS, CONTACTORS, PUSH BUTTONS, SWITCHES,LAMPS,ANNUNCIATION WINDOWS, MCB, FUSES,TIMERS, TERMINAL BLOCKS ETC. OF EACHTYPE & RATING-400kV GIS	SET	2	
3.14	GIS SPARES: 400KV GIS-ONE POLE OF 3150A CIRCUIT BREAKER WITHOUT PIR WITH INTERRUPTER, MAIN CIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETEIN ALL RESPECT	SET	1	
3.15	GIS SPARES: GIS SPARES: Trip coil assembly with resistor for 420kV GIS Circuit Breaker (as applicable)	SET	3	
3.16	GIS SPARES: Closing coil assembly with resistor for 420kV GIS Circuit Breaker (as applicable)	SET	3	
3.17	GIS SPARES: RELAYS, POWER CONTACTORS, PUSH BUTTONS, TIMERS & MCBS ETC. (AS APPLICABLE) OF EACH TYPE FOR 400KV GIS CIRCUIT BREAKER	SET	1	
3.18	GIS SPARES: Auxiliary switch assembly of each type for 420kV GIS Circuit Breaker	SET	3	

Sl. No.	Item Description	Unit	Qty.	Remarks
3.19	GIS SPARES: 400KV GIS CIRCUIT BREAKER-OPERATION COUNTER	SET	3	1 SET= 1 Nos. of each type and rating
3.20	GIS SPARES: 400KV GIS CIRCUIT BREAKER-HYDRAULIC OPERATING MECHANISM WITH DRIVE MOTOR (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.21	GIS SPARES: HYDRAULIC FILTER OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREAKER	SET	1	
3.22	GIS SPARES: 400KV GIS CIRCUIT BREAKER- HOSE PIPE OF EACH TYPE (AS APPLICABLE) (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.23	GIS SPARES: 400KV GIS CIRCUIT BREAKER - N2 ACCUMULATOR (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.24	GIS SPARES: VALVES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREAKER	SET	1	
3.25	GIS SPARES: PIPE LENGTH (COPPER & STEEL) OF EACH SIZE & TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)- 400KV GIS CIRCUIT BREAKER	SET	1	
3.26	GIS SPARES: PRESSURE SWITCHES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-400KV GIS CIRCUIT BREAKER	SET	1	
3.27	GIS SPARES: PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE) -400KV GIS CIRCUIT BREAKER	SET	1	
3.28	GIS SPARES: 400KV GIS CIRCUIT BREAKER-HYDRAULIC OIL (5% OF TOTAL OIL QUANTITY) (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.29	GIS SPARES: PRESSURE RELIEF DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREAKER	SET	1	
3.30	GIS SPARES: 400KV GIS CIRCUIT BREAKER-COMPLETE SPRING OPERATING MECHANISM INCLUDING CHARGING MECHANISM ETC. (FOR SPRING OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.31	GIS SPARES: 400KV GIS CIRCUIT BREAKER- COMPLETE HYDRAULIC-SPRING OPERATING MECHANISM INCLUDING CHARGING MECHANISM ETC. (FOR HYDRAULIC-SPRING OPERATED MECHANISM, IF APPLICABLE)	SET	1	
3.32	GIS SPARES: PRESSURE SWITCHES OF EACH TYPE FOR 420KV GIS CIRCUIT BREAKER (For Hydraulic-Spring Operated Mechanism, if applicable)	SET	1	
3.33	GIS SPARES: GIS SPARES: PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULIC-SPRING OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREAKER	SET	1	
3.34	GIS SPARES: 400KV GIS- SINGLE PHASE OF 3150A DISCONNECTOR SWITCH INCLUDING MAIN CIRCUIT, ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC., COMPLETE IN ALL RESPECT (NOTE 1- THE CONTRACTOR SHALL SUPPLY SPARE FOR DISCONNECTOR SWITCH TO ENSURE ONE TO ONE REPLACEMENT OF ALL DISCONNECTOR SWITCH SUPPLIED AS MAIN EQUIPMENT WITHOUT ANY REQUIREMENT OF MODIFICATION IN FITTINGS AT SITE TO COVER ALL DIFFERENT TYPES OF DISCONNECTOR SWITCH SUPPLIED. IN CASE, QUANTITY OF SUPPLIED DIS-CONNECTOR SWITCH TYPES (FOR ONE TO ONE REPLACEMENT) ARE MORE THAN THE QUANTITY MENTIONED IN BPS FOR SPARE, THE CONTRACTOR SHALL SUPPLY THESE ADDITIONAL TYPES OF DISCONNECTOR SWITCH WITHOUT ANY ADDITIONAL PRICE IMPLICATION TO POWERGRID AND QUANTITIES OF THESE ADDITIONAL TYPE OF DISCONNECTOR SWITCH ARE DEEM TO BE INCLUDED IN THE QUANTITIES MENTIONED IN BPS FOR SPARE DISCONNECTOR. NOTE 2 – IN CASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAME ENCLOSURE WITH COMMON OPERATING MECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR & EARTH SWITCH IN SINGLE ENCLOSURE WITH COMMON OPERATING MECHANISM IS TO BE PROVIDED UNDER THE HEAD OF SPARE DIS-CONNECTOR ONLY. 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.)	SET	4	1 SET= 1 Nos. of each type and rating
3.35	GIS SPARES: 400KV GIS- SINGLE PHASE MAINTENANCE EARTHING SWITCH INCLUDING MAIN CIRCUIT, ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC., COMPLETE IN ALL RESPECT (NOTE 1 - IN CASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAME ENCLOSURE WITH COMMON OPERATING MECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR & EARTH SWITCH IN SINGLE ENCLOSURE WITH COMMON OPERATING MECHANISM IS TO BE PROVIDED UNDER THE HEAD OF SPARE DIS-CONNECTOR ONLY. NOTE 2 - INCASE, 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.)	SET	2	1 SET= 1 Nos. of each type and rating
3.36	GIS SPARES: 400KV GIS - SINGLE PHASE FAST EARTHING SWITCH INCLUDING MAIN CIRCUIT, ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC., COMPLETE IN ALL RESPECT (NOTE 1 - IN CASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAME ENCLOSURE WITH COMMON OPERATING MECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR & EARTH SWITCHIN SINGLE ENCLOSURE WITH COMMON OPERATING MECHANISM IS TO BE PROVIDED UNDER THE HEAD OF SPARE DIS-CONNECTOR ONLY. NOTE 2 - IN CASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAMEENCLOSURE WITH SEPARATE OPERATING MECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR & EARTH SWITCH IN SINGLE ENCLOSURE WITHSEPARATE OPERATING MECHANISM IS TO BE PROVIDED UNDER THE HEAD OF SPAREDIS-CONNECTOR ONLY.)	SET	2	1 SET= 1 Nos. of each type and rating
3.37	GIS SPARES: 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 DISCONNECTORSWITCH	SET	1	
3.38	GIS SPARES: 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) ONEOF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 400KV GIS MAINTENANCE EARTHSWITCH	SET	1	
3.39	GIS SPARES: OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKINGCOILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS, RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONEOF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 400KV GIS FAST EARTHINGSWITCH	SET	1	

Sl. No.	Item Description	Unit	Qty.	Remarks
3.40	GIS SPARES: LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FORDISCONNECTOR-400KV GIS	SET	2	
3.41	GIS SPARES: LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FORMAINTENANCE EARTHING SWITCH-400KV GIS	SET	2	
3.42	GIS SPARES: LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR FASTEARTHING SWITCH (IF APPLICABLE)-400KV GIS	SET	2	
3.43	GIS SPARES: DRIVE MECHANISM FOR 400KV GIS DISCONNECTOR SWITCH	SET	1	
3.44	GIS SPARES: DRIVE MECHANISM FOR 400KV GIS MAINTENANCE EARTH SWITCH	SET	1	
3.45	GIS SPARES: DRIVE MECHANISM FOR 400KV GIS FAST EARTHING SWITCH	SET	1	
3.46	GIS SPARES: MOTOR FOR DRIVE MECHANISM FOR 400KV GIS DISCONNECTOR SWITCH	SET	1	1 SET= 1 Nos. of each type and rating
3.47	GIS SPARES: MOTOR FOR DRIVE MECHANISM FOR 400KVGIS MAINTENANCE EARTH SWITCH	SET	1	1 SET= 1 Nos. of each type and rating
3.48	GIS SPARES: MOTOR FOR DRIVE MECHANISM FOR 400KV GIS FAST EARTHING SWITCH	SET	1	1 SET= 1 Nos. of each type and rating
3.49	GIS SPARES: 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 Nos. of each type and rating
3.50	GIS SPARES: 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 Nos. of each type and rating
3.51	GIS SPARES: 400KV GIS- SINGLE PHASE VT WITH ASSOCIATED ENCLOSURE COMPLETE IN ALL RESPECT	SET	1	1 SET= 1 Nos. of each type and rating
4	SPARES- GIS : **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. Bidder to ensure that the unit prices have a logical relationship with prices of assemblies in main items. Quoting for unit prices is mandatory and shall be considered for evaluation)			
4.01	SPARES: 400KV GIS- GIS METALLIC ENCLOSURE	KG	50	
4.02	SPARES: 400KV GIS- EXPANSION BELLOWS/ JOINTS	SET	1	1 SET= For Single Phase of any type and any rating.
4.03	SPARES: 400KV GIS- TEE BEND	SET	1	1 SET= For Single Phase of any type and any rating.
4.04	SPARES: 400KV GIS- L BEND	SET	1	1 SET= For Single Phase of any type and any rating.
4.05	SPARES: Controlled Switching Device for 420 kV, 3-ph Circuit Breaker	SET	1	1 SET= For Single Phase of any type and any rating.

ANNEXURE BOQ_400kV GIS_SERVICE_RAGHANESDA
REV No: 01
DATE: 14.11.2024

Sl. No.	Description	Unit	Quantity	Remarks
5	SERVICES- GIS : 400KV, 63KA FOR IS, GAS INSULATED SWITCHGEAR (GIS) AS PER TS			
5.01	SERVICES- 400kV GIS: SUPERVISION OF ERECTION OF GIS	Bays	16	Supervision of erection of GIS with main bus, complete as per TS in all respect including LCC and its accessories. It also includes verification of materials for proper storage at site for final storage. Earthing, SF6 Gas Fiiling works, Internal Cabling from GIS to LCC, including Structure Works are covered under this item. GIS Bus Duct & SF6 to Air Bushing (SAB) are not covered in this BOQ item.
5.02	SERVICES- 400kV GIS: SUPERVISION OF ERECTION OF GAS INSULATED BUS DUCT	MTR	2200	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 Fiiling works, Internal Cabling from GIS to LCC, including Structure Works are covered under this item. Inner side GIB / Aux Bus Module etc are to be considered as part of respective GIS Assembly and cost of the same shall be deemed inclusive.
5.03	SERVICES- 400kV GIS: SUPERVISION OF ERECTION OF SF6 TO AIR BUSHING	SET	28	Earthing, SF6 Gas Fiiling works, Internal Cabling from GIS to LCC, including Structure Works are covered under this item.
5.04	SERVICES- 400kV GIS: TESTING & COMMISSIONING OF GIS	Bays	16	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.
5.05	SERVICES- 400kV GIS : TESTING & COMMISSIONING OF GAS INSULATED BUS DUCT	MTR	2200	GIB outside the GIS Hall wall shall be considered for mode of measurement. Inner side GIB / Aux Bus 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.
5.06	SERVICES- 400kV GIS : TESTING & COMMISSIONING OF SF6 TO AIR BUSHING	SET	28	
5.07	SERVICES- 400kV GIS : FINAL SUCCESSFUL HV/ POWER FREQUENCY TESTING OF GIS INCLUDING ARRANGING OF HV TEST KIT ALONG WITH OPERATOR	Bays	16	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.
5.08	SERVICES- 400kV GIS : INSULATION CO-ORDINATION STUDIES FOR GIS SYSTEM	LOT	1	1 Lot means Complete study report as per technical specification, Including VFTO report.
5.09	SERVICES- 400kV GIS : TRAINING FOR GIS AT SITE	DAY	2	
5.1	SERVICES- 400kV GIS : TRAINING FOR GIS AT MANUFACTURER WORKS	DAY	2	

6	SERVICES- GIS : **REFERENCE UNIT PRICE FOR ADDITION / DELETION** OF SERVICES: (UNIT PRICES OF INDIVIDUAL SERVICES INCLUDED HERE ARE REQUIRED FOR ANY ADDITION/DELETION OF EQUIPMENT AND REPLACEMENT OF DAMAGED ITEMS. VENDOR TO ENSURE THAT THE UNIT PRICES HAVE A LOGICAL RELATIONSHIP WITH PRICES OF ASSEMBLIES IN MAIN ITEMS. QUOTING FOR UNIT PRICES IS MANDATORY AND SHALL BE CONSIDERED FOR EVALUATION)			
6.01	SERVICES- 400kV GIS: REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - **SERVICES FOR SUPERVISION OF ERECTION OF GIS**	MANDAY	10	Charges for repetition of services - (if required due to reasons not attributed to the bidder) This item will be executed only if repetition of services is required by BHEL.

Sl. No.	Description	Unit	Quantity	Remarks
6.02	SERVICES- 400kV GIS: REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - **SERVICES FOR TESTING & COMMISSIONING OF GIS**	MANDAY	10	Charges for repetition of services - (if required due to reasons not attributed to the bidder) This item will be executed only if repetition of services is required by BHEL.
	DEMOBILIZATION AND REMOBILIZATION CHARGES			
6.03	SERVICES- 400kV GIS: DEMOBILIZATION AND REMOBILIZATION CHARGES FOR GIS **ERECTION SUPERVISION TEAM**	Set	2	THIS BOQ ITEM SHALL BE EXECUTED IF REQUIRED FOR REASONS NOT ATTRIBUTABLE TO BIDDER.
6.04	SERVICES- 400kV GIS: DEMOBILIZATION AND REMOBILIZATION CHARGES FOR GIS **TESTING & COMMISSIONING TEAM**	Set	2	BOQ ITEM SHALL BE PAYABLE IF REQUIRED FOR REASONS NOT ATTRIBUTE TO BIDDER. HV TESTING IS NOT PART OF THIS ITEM.
6.05	SERVICES- 400kV GIS: DEMOBILIZATION & REMOBILIZATION CHARGES OF **HV TEST KIT** ALONG WITH OPERATOR	Lot	1	In this BOQ item, mobilization and demobilization chages for HV test kit is considered for second time or more , for reasons not attributable to bidder. HV testing charges shall be paid per bay basis as per main HV testing charge.

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Item Wise BoQ

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: POWERGRID Substation Package SS-80T (Raghanesda)

Enquiry/NIT No: NIT_86688_Enquiry No.61Q2500387 dated 14-11-2024

Name of the Bidder/ Bidding Firm / Company :	

PRICE SCHEDULE

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

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 (item sl. No: 1.01-1.11):** GIS SUPPLY: 420kV, 3150 A, 63 kA, SF6 GIS Auxiliary Bus module for Spare Transformer as per Section-Project, Technical specification	item1	1	SET	**INR**			**0.00**			**0.00**		**0.000**	**0.000**	INR Zero Only
1.02	GIS BAY SUPPLY: 420kV, 3150 A, 63 kA, SF6 GIS Bus Reactor bay module as per Section-Project, Technical specification	item2	2	SET	**INR**			**0.00**			**0.00**		**0.000**	**0.000**	INR Zero Only
1.03	GIS BAY SUPPLY: 420kV, 4000 A, 63 kA, SF6 GIS Bus bar module as per Section-Project, Technical specification	item3	2	SET	**INR**			**0.00**			**0.00**		**0.000**	**0.000**	INR Zero Only
1.04	GIS BAY SUPPLY: 420kV, 3150 A, 63 kA, SF6 GIS Tie bay module (without PIR) as per Section-Project, Technical specification	item4	5	SET	**INR**			**0.00**			**0.00**		**0.000**	**0.000**	INR Zero Only
1.05	GIS BAY SUPPLY: 420 kV, 3150 A, 63 kA, SF6 GIS Line feeder bay module (without PIR) as per Section-Project, Technical specification	item5	5	SET	**INR**			**0.00**			**0.00**		**0.000**	**0.000**	INR Zero Only
1.06	GIS BAY SUPPLY: 420KV, 3150 A, 63 KA, SF6 GIS SWITCHABLE LINE REACTOR BAY MODULE ASPER SECTION-PROJECT, TECHNICAL SPECIFICATION	item6	1	SET	**INR**			**0.00**			**0.00**		**0.000**	**0.000**	INR Zero Only
1.07	GIS BAY SUPPLY: 420KV, 3150 A, 63 KA, SF6 GIS ICT FEEDER BAY MODULE FOR IV SIDE CONNECTION WITH 765KV ICT AS PER SECTION-PROJECT, TECHNICAL SPECIFICATION	item7	3	SET	**INR**			**0.00**			**0.00**		**0.000**	**0.000**	INR Zero Only
1.08	GIS SUPPLY: 420KV, 3000A, 63KA, SINGLE PHASE, SF6 GAS INSULATED BUS DUCT (GIB) OUTSIDE GIS HALL ALONGWITH ASSOCIATED SUPPORT STRUCTURE, ETC. AS PER TECHNICAL SPECIFICATION	item8	2200	M	**INR**			**0.00**			**0.00**		**0.000**	**0.000**	INR Zero Only
1.09	GIS SUPPLY: 420KV, 3150A, 63KA SF6 TO AIR BUSHING including support structure	item9	28	SET	**INR**			**0.00**			**0.00**		**0.000**	**0.000**	INR Zero Only
1.10	GIS SUPPLY: Controlled Switching Device for 420 kV, 3-ph Circuit Breaker	item10	10	SET	**INR**			**0.00**			**0.00**		**0.000**	**0.000**	INR Zero Only
1.11	GIS SUPPLY: Local Control Cubicles (LCC)	item11	16	Set	**INR**			**0.00**			**0.00**		**0.000**	**0.000**	INR Zero Only
2.01	**SUPPLY- GIS : SPECIAL TOOLS AND TESTING & MAINTENANCE INSTRUMENTS AS PER TS (Item sl No. 2.01):** SUPPLY- GIS : MANDATORY MAINTENANCE EQUIPMENT SUITABLE FOR GIS -SCISSOR LIFT	item12	1	SET	**INR**			**0.00**			**0.00**		**0.000**	**0.000**	INR Zero Only
3.01	**SPARES- GIS : 400KV, 63KA FOR 1S, GAS INSULATED SWITCHGEAR (GIS) AS PER TS (Item Sl. No. 3.01-3.51):** GIS SPARES: 400KV GIS-SF6 GAS PRESSURE RELIEF DEVICE ASSEMBLY OF EACH TYPE	item13	2	SET	**INR**			**0.00**			**0.00**		**0.000**	**0.000**	INR Zero Only
3.02	GIS SPARES: SF6 PRESSURE GAUGE CUM SWITCH /DENSITY MONITORS AND PRESSURESWITCH AS APPLICABLE, OF EACH TYPE-400KV GIS	item14	3	SET	**INR**			**0.00**			**0.00**		**0.000**	**0.000**	INR Zero Only
3.03	GIS SPARES: COUPLING DEVICE FOR PRESSURE GAUGE CUM SWITCH FOR CONNECTINGGAS HANDLING PLANT OF EACH TYPE-400KV GIS	item15	2	SET	**INR**			**0.00**			**0.00**		**0.000**	**0.000**	INR Zero Only
3.04	GIS SPARES: RUBBER GASKETS, "O" RINGS AND SEALS FOR SF6 GAS FOR GISENCLOSURE OF EACH TYPE-400KV GIS	item16	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 Substation Package SS-80T (Raghanesda)

Enquiry/NIT No: NIT_86688_Enquiry No.61Q2500387 dated 14-11-2024

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
3.05	GIS SPARES: 400KV GIS-MOLECULAR FILTER FOR SF6 GAS WITH FILTER BAGS (5 % OF TOTALWEIGHT)	item17	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.06	GIS SPARES: CONTROL VALVES FOR SF6 GAS OF EACH TYPE-400KV GIS	item18	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.07	GIS SPARES: 400KV GIS-SF6 GAS	item19	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.08	GIS SPARES: 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	item20	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.09	GIS SPARES: UHF PD SENSORS OF EACH TYPE ALONG WITH BNC CONNECTOR FOR 420KV GIS	item21	5	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.10	GIS SPARES: 400KV GIS-SUPPORT INSULATORS (GAS THROUGH) OF EACH TYPE (COMPLETE WITH METAL RING ETC.) ALONG WITH ASSOCIATED CONTACTS AND SHIELDS	item22	5	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.11	GIS SPARES: 400KV GIS-GAS BARRIERS 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
3.12	GIS SPARES: 400KV GIS- 3150A SF6 TO AIR BUSHING COMPLETE IN ALL RESPECT	item24	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.13	GIS SPARES: LCC SPARES - AUX. RELAYS, CONTACTORS, PUSH BUTTONS, SWITCHES,LAMPS,ANNUNCIATION WINDOWS, MCB, FUSES,TIMERS, TERMINAL BLOCKS ETC. OF EACHTYPE & RATING-400kV GIS	item25	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.14	GIS SPARES: 400KV GIS-ONE POLE OF 3150A CIRCUIT BREAKER WITHOUT PIR WITH INTERRUPTER, MAIN CIRCUIT, ENCLOSURE AND OPERATING MECHANISM COMPLETEIN ALL RESPECT	item26	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.15	GIS SPARES: GIS SPARES: Trip coil assembly with resistor for 420kV GIS Circuit Breaker (as applicable)	item27	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.16	GIS SPARES: Closing 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
3.17	GIS SPARES: RELAYS, POWER CONTACTORS, PUSH BUTTONS, TIMERS & MCBS ETC. (AS APPLICABLE) OF EACH TYPE FOR 400KV GIS CIRCUIT BREAKER	item29	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.18	GIS SPARES: Auxiliary switch assembly of each type for 420kV GIS Circuit Breaker	item30	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.19	GIS SPARES: 400KV GIS CIRCUIT BREAKER-OPERATION COUNTER	item31	3	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.20	GIS SPARES: 400KV GIS CIRCUIT BREAKER-HYDRAULIC OPERATING MECHANISM WITH DRIVE MOTOR (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item32	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.21	GIS SPARES: HYDRAULIC FILTER OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREAKER	item33	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 Substation Package SS-80T (Raghanesda)

Enquiry/NIT No: NIT_86688_Enquiry No.61Q2500387 dated 14-11-2024

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
3.22	GIS SPARES: 400KV GIS CIRCUIT BREAKER- HOSE PIPE OF EACH TYPE (AS APPLICABLE) (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item34	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.23	GIS SPARES: 400KV GIS CIRCUIT BREAKER - N2 ACCUMULATOR (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item35	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.24	GIS SPARES: VALVES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREAKER	item36	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.25	GIS SPARES: PIPE LENGTH (COPPER & STEEL) OF EACH SIZE & TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)- 400KV GIS CIRCUIT BREAKER	item37	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.26	GIS SPARES: PRESSURE SWITCHES OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IFAPPLICABLE)-400KV GIS CIRCUIT BREAKER	item38	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.27	GIS SPARES: PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE) -400KV GIS CIRCUIT BREAKER	item39	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.28	GIS SPARES: 400KV GIS CIRCUIT BREAKER-HYDRAULIC OIL (5% OF TOTAL OIL QUANTITY) (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)	item40	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.29	GIS SPARES: PRESSURE RELIEF DEVICE OF EACH TYPE (FOR HYDRAULIC OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREAKER	item41	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.30	GIS SPARES: 400KV GIS CIRCUIT BREAKER-COMPLETE SPRING OPERATING MECHANISM INCLUDING CHARGING MECHANISM ETC. (FOR SPRING OPERATED MECHANISM, IF APPLICABLE)	item42	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.31	GIS SPARES: 400KV GIS CIRCUIT BREAKER-COMPLETE HYDRAULIC-SPRING OPERATING MECHANISM INCLUDING CHARGING MECHANISM ETC. (FOR HYDRAULIC-SPRING OPERATED MECHANISM, IF APPLICABLE)	item43	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.32	GIS SPARES: PRESSURE SWITCHES OF EACH TYPE FOR 420KV GIS CIRCUIT BREAKER (For Hydraulic-Spring Operated Mechanism, if applicable)	item44	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.33	GIS SPARES: GIS SPARES: PRESSURE GAUGE WITH COUPLING DEVICE OF EACH TYPE (FOR HYDRAULIC-SPRING OPERATED MECHANISM, IF APPLICABLE)-400KV GIS CIRCUIT BREAKER	item45	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 Substation Package SS-80T (Raghanesda)

Enquiry/NIT No: NIT_86688_Enquiry No.61Q2500387 dated 14-11-2024

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
3.34	GIS SPARES: 400kV GIS- Single phase of 3150A disconnector switch including main circuit, enclosure, driving mechanism and support insulator etc., complete in all respect (Note 1- The contractor shall supply spare for disconnector switch to ensure one to one replacement of all disconnector switch supplied as main equipment without any requirement of modification in fittings at site to cover all different types of disconnector switch supplied. In case, quantity of supplied dis-connector switch types (for one to one replacement) are more than the quantity mentioned in BPS for spare, the contractor shall supply these additional types of disconnector switch without any additional price implication to POWERGRID and quantities of these additional type of disconnector switch are deem to be included in the quantities mentioned in BPS for spare disconnector. Note 2 – In case, Dis-connector Switch (DS) & Earth Switch (ES) is provided in a same enclosure with common operating mechanism, then the module comprising of Dis-	item46	4	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.35	GIS SPARES: 400KV GIS- SINGLE PHASE MAINTENANCE EARTHING SWITCH INCLUDING MAIN CIRCUIT, ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC., COMPLETE IN ALL RESPECT (NOTE 1 - IN CASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAME ENCLOSURE WITH COMMON OPERATING MECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR & EARTH SWITCH IN SINGLE ENCLOSURE WITH COMMON OPERATING MECHANISM IS TO BE PROVIDED UNDER THE HEAD OF SPARE DIS-CONNECTOR ONLY. NOTE 2 - INCASE, 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.)	item47	2	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 Substation Package SS-80T (Raghanesda)

Enquiry/NIT No: NIT_86688_Enquiry No.61Q2500387 dated 14-11-2024

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
3.36	GIS SPARES: 400KV GIS - SINGLE PHASE FAST EARTHING SWITCH INCLUDING MAIN CIRCUIT, ENCLOSURE, DRIVING MECHANISM AND SUPPORT INSULATOR ETC., COMPLETE IN ALL RESPECT (NOTE 1 - IN CASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAME ENCLOSURE WITH COMMON OPERATING MECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR & EARTH SWITCHIN SINGLE ENCLOSURE WITH COMMON OPERATING MECHANISM IS TO BE PROVIDED UNDER THE HEAD OF SPARE DIS-CONNECTOR ONLY. NOTE 2 - IN CASE, DIS-CONNECTOR SWITCH (DS) & EARTH SWITCH (ES) IS PROVIDED IN A SAMEENCLOSURE WITH SEPARATE OPERATING MECHANISM, THEN THE MODULE COMPRISING OF DIS-CONNECTOR & EARTH SWITCH IN SINGLE ENCLOSURE WITHSEPARATE OPERATING MECHANISM IS TO BE PROVIDED UNDER THE HEAD OF SPAREDIS-CONNECTOR ONLY.)	item48	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.37	GIS SPARES: 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 DISCONNECTORSWITCH	item49	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.38	GIS SPARES: OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKINGCOILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONEOF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 400KV GIS MAINTENANCE EARTHSWITCH	item50	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.39	GIS SPARES: OPEN/CLOSE CONTACTOR ASSEMBLY, TIMERS, KEY INTERLOCK, INTERLOCKINGCOILS, RELAYS, PUSH BUTTONS, INDICATING LAMPS, POWER CONTACTORS,RESISTORS, FUSES, MCBS & DRIVE CONTROL CARDS ETC. (AS APPLICABLE) ONEOF EACH TYPE FOR ONE COMPLETE MOM BOX FOR 400KV GIS FAST EARTHINGSWITCH	item51	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.40	GIS SPARES: LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FORDISCONNECTOR-400KV GIS	item52	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.41	GIS SPARES: LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FORMAINTENANCE EARTHING SWITCH-400KV GIS	item53	2	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.42	GIS SPARES: LIMIT SWITCHES AND AUX. SWITCHES FOR ONE COMPLETE MOM BOX FOR FASTEARTHING SWITCH (IF APPLICABLE)-400KV GIS	item54	2	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 Substation Package SS-80T (Raghanesda)

Enquiry/NIT No: NIT_86688_Enquiry No.61Q2500387 dated 14-11-2024

Name of the Bidder/ Bidding Firm / Company :	

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1	2	3	4	5	12	13	14	15	16	20	21	51	53	54	55
3.43	GIS SPARES: DRIVE MECHANISM FOR 400KV GIS DISCONNECTOR SWITCH	item55	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.44	GIS SPARES: DRIVE MECHANISM FOR 400KV GIS MAINTENANCE EARTH SWITCH	item56	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.45	GIS SPARES: DRIVE MECHANISM FOR 400KV GIS FAST EARTHING SWITCH	item57	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.46	GIS SPARES: MOTOR FOR DRIVE MECHANISM FOR 400KV GIS DISCONNECTOR SWITCH	item58	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.47	GIS SPARES: MOTOR FOR DRIVE MECHANISM FOR 400KVGIS MAINTENANCE EARTH SWITCH	item59	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.48	GIS SPARES: MOTOR FOR DRIVE MECHANISM FOR 400KV GIS FAST EARTHING SWITCH	item60	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.49	GIS SPARES: 400KV GIS- SINGLE PHASE OF CURRENT TRANSFORMER (3 CORES, TYPE-CTA)WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALLRESPECT	item61	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.50	GIS SPARES: 400KV GIS- SINGLE PHASE OF CURRENT TRANSFORMER (2 CORES, TYPE-CTB) WITH ASSOCIATED ENCLOSURE AND PRIMARY CONDUCTOR COMPLETE IN ALLRESPECT	item62	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
3.51	GIS SPARES: 400KV GIS- SINGLE PHASE VT WITH ASSOCIATED ENCLOSURE COMPLETE IN ALLRESPECT	item63	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.01	**SPARES- GIS : REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SUPPLY ITEMS (Unit Prices of Individual Equipment included here or in manadatory spares are required for any Addition/Deletion of Equipment and replacement of damaged items. Bidder to ensure that the unit prices have a logical relationship with prices of assemblies in main items. Quoting for unit prices is mandatory and shall be considered for evaluation) (Item sl. No. 4.01-4.05):** SPARES: 400KV GIS- GIS METALLIC ENCLOSURE	item64	50	KG	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.02	SPARES: 400KV GIS- EXPANSION BELLOWS/ JOINTS	item65	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.03	SPARES: 400KV GIS- TEE BEND	item66	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.04	SPARES: 400KV GIS- L BEND	item67	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
4.05	SPARES: Controlled Switching Device for 420 kV, 3-ph Circuit Breaker	item68	1	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.01	**SERVICES- GIS : 400KV, 63KA FOR IS, GAS INSULATED SWITCHGEAR (GIS) AS PER TS (Item Sl. No. 5.01-5.10):** SERVICES- 400kV GIS: SUPERVISION OF ERECTION OF GIS	item69	16	Bays	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.02	SERVICES- 400kV GIS: SUPERVISION OF ERECTION OF GAS INSULATED BUS DUCT	item70	2200	MTR	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.03	SERVICES- 400kV GIS: SUPERVISION OF ERECTION OF SF6 TO AIR BUSHING	item71	28	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.04	SERVICES- 400kV GIS: TESTING & COMMISSIONING OF GIS	item72	16	Bays	INR			0.00			0.00		0.000	0.000	INR Zero Only

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Item Wise BoQ

Tender Inviting Authority: BHEL TBG NOIDA

Name of Work: POWERGRID Substation Package SS-80T (Raghanesda)

Enquiry/NIT No: NIT_86688_Enquiry No.61Q2500387 dated 14-11-2024

Name of the Bidder/ Bidding Firm / Company :	

PRICE SCHEDULE

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

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
5.05	SERVICES- 400kV GIS : TESTING & COMMISSIONING OF GAS INSULATED BUS DUCT	item73	2200	MTR	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.06	SERVICES- 400kV GIS : TESTING & COMMISSIONING OF SF6 TO AIR BUSHING	item74	28	SET	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.07	SERVICES- 400kV GIS : FINAL SUCCESSFUL HV/ POWER FREQUENCY TESTING OF GIS INCLUDING ARRANGING OF HV TEST KIT ALONG WITH OPERATOR	item75	16	Bays	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.08	SERVICES- 400kV GIS : INSULATION CO-ORDINATION STUDIES FOR GIS SYSTEM	item76	1	LOT	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.09	SERVICES- 400kV GIS : TRAINING FOR GIS AT SITE	item77	2	DAY	INR			0.00			0.00		0.000	0.000	INR Zero Only
5.10	SERVICES- 400kV GIS : TRAINING FOR GIS AT MANUFACTURER WORKS	item78	2	DAY	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.01	**SERVICES- GIS : REFERENCE UNIT PRICE FOR ADDITION / DELETION OF SERVICES: (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) (Item Sl. No. 6.01-6.05):** SERVICES- 400kV GIS: REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR SUPERVISION OF ERECTION OF GIS	item79	10	MANDAY	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.02	SERVICES- 400kV GIS: REF. UNIT PRICE OF GIS INDIVIDUAL ITEM/ EQUIPMENT - SERVICES FOR TESTING & COMMISSIONING OF GIS	item80	10	MANDAY	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.03	SERVICES- 400kV GIS: DEMOBILIZATION AND REMOBILIZATION CHARGES FOR GIS ERECTION SUPERVISION TEAM	item81	2	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.04	SERVICES- 400kV GIS: DEMOBILIZATION AND REMOBILIZATION CHARGES FOR GIS TESTING & COMMISSIONING TEAM	item82	2	Set	INR			0.00			0.00		0.000	0.000	INR Zero Only
6.05	SERVICES- 400kV GIS: DEMOBILIZATION & REMOBILIZATION CHARGES OF HV TEST KIT ALONG WITH OPERATOR	item83	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**													