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DATE 27.07.2018

Subject- Corrigendum-2 (Technical and due date amendment)

1. Project : HPCL VISAKH REFINERY CCPP
2. Equipment / Item : 66kV GIS with LCC and CRP
3. Enquiry No. / Date : 278E096 , Dtd. 04/06/2018

With reference to the above tenders, kindly note the following;

- (1) Technical specification rev -01(As per attached annexure)
- (2) Price bid format (Indian and Foreign) rev -01(As per attached annexure)
- (3) Due date of tender submission date has been extended from 27.07.2018 to 10.08.2018 upto 2.00 PM.

Opening of the tender shall be at 2:30 PM on same day.

All other terms and conditions shall remain same of the tender.


Bhagchand Kumawat
Sr. Mgr (TBMM)

UN-PRICED BID SCHEDULE (for Foreign vendors only) REV 01
(BIDDER TO STRICTLY ENSURE SUBMITTING THE PRICE BIDS IN THIS FORMAT)

TENDER Enquiry No 278E096, dtd. 04/06/2018

**66kV GAS INSULATED SWITCHGEAR (GIS) for HPCL VISAKH
REFINERY CCPP Project**

A	B	C	D	E	F	G	H
	Name of item	HSN / SAC code	Unit	Qty	Currency	Unit-CIF (Indian Sea port)	Total -CIF (Indian Sea port)
	GIS & its accessories						
	A1-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS Double Bus Scheme as per attached Single Line Diagram						
1	A1.1-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Incomer Generator Transformer (GTG) Bay (GTG-07 Bay)	85359030	Set	1			
2	A1.2-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Incomer Future Grid Transformer Bay (Future GT Bay)	85359030	Set	1			
3	A1.3-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Incomer Station Transformer (STG) Bay (STG-01 Bay)	85359030	Set	1			
4	A1.4-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Incomer Transformer (SS-93 (220kV GIS) TR-9301 Bay, TR-9302 Bay)	85359030	Set	2			
5	A1.5-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Bus Coupler Bay (Bus Coupler 1-2 Bay, 3-4 Bay)	85359030	Set	2			
6	A1.6-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Bus Sectionalizer Bay (Bus Sectionalizer 1-3 Bay, 2-4 Bay)	85359030	Set	2			
7	A1.7-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Outgoing Transformer Feeder (SS-94 (CPP) TR-9401 Feeder, TR-9402 Feeder, TR-9403 Feeder, TR-9404 Feeder)	85359030	Set	4			
8	A1.8-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Fully Equipped Spare Feeder (Spare-01 Feeder, Spare-02 Feeder)	85359030	Set	2			
9	A1.9-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Outgoing Transformer Feeder (SS-83 (CO/VDU) TR-8301 Feeder, TR-8302 Feeder)	85359030	Set	2			
10	A1.10-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Outgoing Transformer/ Motor Feeder (SS-84 (RUF) TR-8401 Feeder, TR-8302 Feeder, Large Motor-01 Feeder, Large Motor-02 Feeder)	85359030	Set	4			
11	A1.11-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Outgoing Transformer Feeder (SS-82 (FCHCU) TR-8201 Feeder, TR-8302 Feeder)	85359030	Set	2			
12	A1.12-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Outgoing Transformer Feeder (SS-86 (CT), TR-8601 Feeder, TR-8602 Feeder)	85359030	Set	2			
13	A1.13-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Outgoing Transformer Feeder (SS-90 (HGO) TR-9001 Feeder, TR-9002 Feeder)	85359030	Set	2			
14	A1.14-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Bus Measurement Bay with Disconnector & Earthswitch	85359030	Set	4			
15	A1.15-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Bus Earth Switch Bay	85359030	Set	4			
16	A1.16-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-EHV Cable Termination module	85359030	Set	26			
17	A1.17-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Surge Arrestors including Surge Counters	85359030	Set	23			
18	A1.18-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Dummy Panel for bus bar extension (Optional)	85359030	Set	2			
19	A1.19-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Local Control Cabinet (LCC)	85359030	Set	27			
20	A1.20-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-SF6 gas required for first filling for placing GIS & its accessories into successful operation. In addition 10% of total gas requirement shall be supplied in separate non returnable gas cylinder as a spare requirement.	85359030	Lot	1			
21	A1.21-Supply item: 66kV, 2500A, 40kA(1 sec) GIS-Supply of structure material, required for complete installation of GIS including support structure (foundation bolts/ embedded parts) in floor, walkway platform & railing etc. (The civil works will be done based on supplier design & drawings).	85359030	Lot	1			
22	A1.22-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Supply of Grounding/ earthing Material for GIS	85359030	Lot	1			
23	A1.23-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Gas Monitoring and Alarm System	85359030	Lot	1			
24	A1.24-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Consumables required for GIS	85359030	Lot	1			
25	A1.25-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Any other supply item required for completion of GIS work and not covered above	85359030	Lot	1			
	B1-Supply Item: Mandatory Maintenance Equipment						
26	B1.1-Supply Item: Mandatory Maintenance Equipment-Portable gas filling equipment/SF6 gas cart	85381010	Set	1			
27	B1.2-Supply Item: Mandatory Maintenance Equipment-Portable ladder with adjustable height	85381010	Set	1			
28	B1.3-Supply Item: Mandatory Maintenance Equipment-SF6 Gas Leak Detector	85381010	Set	1			

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**66kV GAS INSULATED SWITCHGEAR (GIS) for HPCL VISAKH
REFINERY CAPP Project**

A	B	C	D	E	F	G	H
	Name of Item	HSN / SAC code	Unit	Qty	Currency	Unit-CIF (Indian Sea port))	Total -CIF (Indian Sea port)).
29	B1.4-Supply Item: Mandatory Maintenance Equipment-Breaker Operation Analyzer with Transducers	85381010	Set	1			
	C1-Supply Item: Mandatory Spares for GIS						
30	C1.1-Supply Item: Mandatory Spares for GIS-Handle for disconnect switch drive	85381010	No	4			
31	C1.2-Supply Item: Mandatory Spares for GIS-Handle for earthing switch drive	85381010	No	4			
32	C1.3-Supply Item: Mandatory Spares for GIS-Pre selection key for three position switch	85381010	No	1			
33	C1.4-Supply Item: Mandatory Spares for GIS-Power cable termination kit	85381010	Set	2			
34	C1.5-Supply Item: Mandatory Spares for GIS-Tripping coil (Per Switchgear)	85381010	No	1			
35	C1.6-Supply Item: Mandatory Spares for GIS-Closing coil (Per Switchgear)	85381010	No	1			
36	C1.7-Supply Item: Mandatory Spares for GIS-Capacitive type voltage detectors	85381010	Set	1			
37	C1.8-Supply Item: Mandatory Spares for GIS-Control fuses/MCB	85381010	Set	10			
38	C1.9-Supply Item: Mandatory Spares for GIS-Density monitoring device	85381010	Set	2			
39	C1.10-Supply Item: Mandatory Spares for GIS-Pressure Gauge	85381010	Set	2			
40	C1.11-Supply Item: Mandatory Spares for GIS-Indication lamp covers	85381010	Set	5			
41	C1.12-Supply Item: Mandatory Spares for GIS-Indication lamps	85381010	Set	1			
42	C1.13-Supply Item: Mandatory Spares for GIS-Network switches	85381010	Set	1			
	D1-Supply Item: Operation & Maintenance Spares						
43	D1.1-Supply Item: Operation & Maintenance Spares-GIS	85381010	Set	1			
	E1-Supply Item: Special Tools & Tackles						
44	E1.1-Supply Item: Special Tools & Tackles-Analogue & Digital multi meters	85381010	Set	1			
45	E1.2-Supply Item: Special Tools & Tackles-Clip-on meters of different ranges	85381010	Set	1			
46	E1.3-Supply Item: Special Tools & Tackles-Tong testers	85381010	Set	1			
47	E1.4-Supply Item: Special Tools & Tackles-Allen Keys	85381010	Set	1			
48	E1.5-Supply Item: Special Tools & Tackles-Hammers	85381010	Set	1			
49	E1.6-Supply Item: Special Tools & Tackles-Illuminated SLD	85381010	Set	1			
50	E1.7-Supply Item: Special Tools & Tackles-Complete Tool kit for the Electrician	85381010	Set	1			
51	E1.8-Supply Item: Special Tools & Tackles-Battery and mains operated portable Megger	85381010	Set	1			
	H1-Supply: Reference unit prices of Individual Item/ Equipment for any addition or deletion due to change in SLD, damage or replacement etc.						
67	H1.1-Supply: Reference unit prices of Individual Item/ Equipment- Circuit Breaker	853590	Set	1			
68	H1.2-Supply: Reference unit prices of Individual Item/ Equipment- Disconnect	853590	Set	1			
69	H1.3-Supply: Reference unit prices of Individual Item/ Equipment- Safety Earthing Switch	853590	Set	1			
70	H1.4-Supply: Reference unit prices of Individual Item/ Equipment- High Speed make proof Earthing Switch	853590	Set	1			
71	H1.5-Supply: Reference unit prices of Individual Item/ Equipment- Surge Arrestor including Surge Counter (Rated arrester voltage – 60 kV)	853590	Set	1			
72	H1.6-Supply: Reference unit prices of Individual Item/ Equipment- Current Transformer	853590	Set	1			
73	H1.7-Supply: Reference unit prices of Individual Item/ Equipment- Voltage Transformer	853590	Set	1			
74	H1.8-Supply: Reference unit prices of Individual Item/ Equipment-EHV Cable Termination module	853590	Set	1			
75	H1.9-Supply: Reference unit prices of Individual Item/ Equipment- Operating Mechanism for Circuit Breaker	853590	Set	1			
76	H1.10-Supply: Reference unit prices of Individual Item/ Equipment- Operating Mechanism box for Disconnect	853590	Set	1			
77	H1.11-Supply: Reference unit prices of Individual Item/ Equipment- Operating Mechanism for Safety Earthing Switch	853590	Set	1			
78	H1.12-Supply: Reference unit prices of Individual Item/ Equipment- Operating Mechanism for High Speed make proof Earthing Switch	853590	Set	1			
79	H1.13-Supply: Reference unit prices of Individual Item/ Equipment- Conductor for GIS	853590	Mtr	1			

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A	B	C	D	E	F	G	H
	Name of Item	HSN / SAC code	Unit	Qty	Currency	Unit-CIF (Indian Sea port))	Total -CIF (Indian Sea port))
80	H1.14-Supply: Reference unit prices of Individual Item/ Equipment-Conductor/ Bus Support Insulator	853590	No	1			
81	H1.15-Supply: Reference unit prices of Individual Item/ Equipment-Gas Barrier Insulator	853590	No	1			
82	H1.16-Supply: Reference unit prices of Individual Item/ Equipment-Gas Permeable/ Communication Insulator	853590	No	1			
83	H1.17-Supply: Reference unit prices of Individual Item/ Equipment-Density Monitor Switch	853590	No	1			
84	H1.18-Supply: Reference unit prices of Individual Item/ Equipment-Elbows	853590	No	1			
85	H1.19-Supply: Reference unit prices of Individual Item/ Equipment-Expansion joints/ Flexible connections	853590	No	1			
	CRP & Its Accessories						
	A2-Supply Item: Control & Protection Panel for 66 kV GIS						
89	A2.1-Supply Item: Control & Protection Panel for 66 kV-Incomer Generator Transformer Bay	85372000	Set	2			
90	A2.2-Supply Item: Control & Protection Panel for 66 kV-Incomer Grid Transformer Bay	85372000	Set	3			
91	A2.3-Supply Item: Control & Protection Panel for 66 kV-Bus Coupler Bay	85372000	Set	2			
92	A2.4-Supply Item: Control & Protection Panel for 66 kV-Bus Sectionalizer Bay	85372000	Set	2			
93	A2.5-Supply Item: Control & Protection Panel for 66 kV-Outgoing 66/11.5kV Transformer Feeder	85372000	Set	4			
94	A2.6-Supply Item: Control & Protection Panel for 66 kV-Outgoing Plant feeders	85372000	Set	14			
95	A2.7-Supply Item: Control & Protection Panel for 66 kV-Bus VT Bay	85372000	Set	2			
96	A2.8-Supply Item: Control & Protection Panel for 66 kV-Busbar Protection Panel for 66kV GIS	85372000	Set	1			
97	A2.10-Supply Item: Control & Protection Panel for 66 kV-Transducer Panel for ECS/RTU/SCAP interface	85372000	Lot	1			
98	A2.11-Supply Item: Control & Protection Panel for 66 kV-Dummy Panel for interface between CR Panel and owner supplied RTU/ECS/SCAP Panels.	85372000	Lot	1			
99	A2.12-Supply Item: Control & Protection Panel for 66 kV-Interposing relay panel for ECS/RTU/SCAP interface	85372000	Lot	1			
100	A2.18-Supply Item: Laptop with software	85372000	Set	1			
101	A2.19-Supply Item: Relay configuration tool to be installed in control room work stations	85372000	Set	1			
102	A2.20-Supply Item: Substation Automation System (SAS)-Time Synchronisation Equipment	85372000	Set	1			
103	A2.21-Supply Item: Substation Automation System (SAS)-Ethernet Switches as per communication/SAS architecture requirement.	85372000	Lot	1			
104	A2.22-Supply Item: Armoured Optical Fibre cable system and Copper medium Communication cable system for Substation automation system, data concentrator panel interface & busbar protection (where applicable)	85372000	Lot	1			
	C2-Supply Item: Mandatory Spares for Protection System (CRP, BusBar Protection, interposing relay Panel, transducer panel, dummy panel)						
105	C2.1-Supply Item: Mandatory Spares for Protection System-Protection Relays (1 Set= 1 No of each type)	85364900	Set	1			
106	C2.2-Supply Item: Mandatory Spares for Protection System-Auxiliary Relays (1 Set= 1 No of each type)	85364900	Set	1			
107	C2.3-Supply Item: Mandatory Spares for Protection System-Interposing Relays (As applicable)(1Set= 5 Nos. of each type)	85364900	Set	1			
108	C2.4-Supply Item: Mandatory Spares for Protection System-Transducers (1set = 20 % of estimated quantity of each type or one no (min) of each make & type, whichever is more)	85364900	Set	1			
109	C2.5-Supply Item: Mandatory Spares for Protection System-Indication lamp covers, if applicable	85364900	Set	5			
110	C2.6-Supply Item: Mandatory Spares for Protection System-Indication lamps, if applicable	85364900	Set	1			
111	C2.7-Supply Item: Mandatory Spares for Protection System-All cards such as input & output cards, power supply cards, processor cards etc. (1 Set= 1 No of each type)	85364900	Set	1			
112	C2.8-Supply Item: Mandatory Spares for Protection System-Ethernet/Network switches (1 Set= 1 No of each type)	85364900	Set	1			
113	C2.9-Supply Item: Mandatory Spares for Protection System-Control fuses/ MCB (1 Set= 10 No of each rating and type)	85364900	Set	1			
	D2-Supply Item: Operation & Maintenance Spares						

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	Name of item	HSN / SAC code	Unit	Qty	Currency	Unit-CIF (Indian Sea port)	Total -CIF (Indian Sea port)
114	D2.1-Supply Item: Operation & Maintenance Spares-CRP & BusBar Protection Panel	85364900	Set	1			
	Total cost for Supply portion						
A	B	C	D	E	F	G	H
					Currency	Unit Charges	Total Charges
	F1-Services: Supervision of Erection, Testing & Commissioning						
52	F1.1-Services: Supervision of Erection, Testing & Commissioning-Site Visit for supervision of unloading & verification of materials for proper storage & upkeeping at site.	998732	Lot	1			
53	F1.2-Services: Supervision of Erection, Testing & Commissioning-Supervision of Erection of GIS including earthing	853590	Lot	1			
54	F1.3-Services: Supervision of Erection, Testing & Commissioning-Supervision of Erection of GIS- for EHV Cable Termination module	853590	Set	23			
55	F1.4-Services: Supervision of Erection, Testing & Commissioning-Testing & Commissioning of GIS	853590	Lot	1			
56	F1.5-Services: Supervision of Erection, Testing & Commissioning-Testing & Commissioning of GIS- for EHV Cable Termination module	853590	Set	23			
57	F1.6-Services: Supervision of Erection, Testing & Commissioning-Final Successful HV/ Power Frequency Testing of GIS including arranging of HV test kit along with operator	853590	Lot	1			
58	F1.7-Services: Supervision of Erection, Testing & Commissioning-Insulation Co-ordination Studies for GIS System	853590	Lot	1			
59	F1.8-Services: Supervision of Erection, Testing & Commissioning-Final Documentation	853590	Lot	1			
60	F1.9-Services: Supervision of Erection, Testing & Commissioning-Any other Service item required for completion of work and not covered above	853590	Lot	1			
	G1-Service: Training						
61	G1.1-Service: Training-Training for GIS of 6 no. Engineers (4 no. customer engineers+2 no. BHEL engineers) for a period of at least one week at Manufacturer's works	853590	Lot	1			
62	G1.2-Service: Training-Lodging and boarding of 4 no. customer engineers for a period of at least one week at Manufacturer's works	853590	Lot	1			
63	G1.3-Service: Training-To and Fro charges of 4 no. customer engineers for a period of at least one week at Manufacturer's works	853590	Lot	1			
64	G1.4-Service: Training-Training for GIS of 12 no. Engineers (10 no. customer engineers+2 no. BHEL engineers) for a period of at least one week at site	853590	Lot	1			
65	G1.5-Service: Training-Lodging and boarding of 10 no. customer engineers for a period of at least one week at site	853590	Lot	1			
66	G1.6-Service: Training-To and Fro charges of 10 no. customer engineers for a period of at least one week at site	853590	Lot	1			
	I1-Service: Reference unit prices of Individual Item/ Equipment for any addition or deletion due to change in SLD, damage or replacement etc.						
86	I1.1-Service: Reference unit prices of Individual Item/ Equipmen-Services for supervision of erection of GIS	998732	Manday	1			
87	I1.2-Service: Reference unit prices of Individual Item/ Equipmen-Services for Testing & Commissioning of GIS	998732	Manday	1			
88	I1.3-Service: Reference unit prices of Individual Item/ Equipmen-Hiring charges of HV test kit with operator	998732	Lot	1			
	F2-Services						

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	Name of Item	HSN / SAC code	Unit	Qty	Currency	Unit-CIF (Indian Sea port)	Total -CIF (Indian Sea port)
115	F2-Services: Supervision of Testing and Commissioning of protection relays and complete Substation automation system at site. Scope shall be as following but not limited to (Any item even if not specifically included in BOQ but required for successful completion of work as per technical specification shall be in bidders scope): a) Testing & commissioning of main protection relays and Numerical Busbar protection including Relay parameterization and configuration. b) Testing & commissioning of SAS system including termination of network/optical cables (complete with all end connectors, tees etc as required). c) For network/optical cables which are in the bidder's scope, the laying of cables shall be in BHEL scope. However, Optical cable will be laid under bidder's supervision. Splicing and Termination shall be in bidder's scope. d) Site acceptance Tests(SAT) as per technical specification. e) Arranging all necessary tools , tackles and equipment for protection and communication testing including automatic relay test kit shall be bidder's responsibility. f) Maintenance support services.	853590	Lot	29			
116	F2.3-Services-Final Documentation	853590	Lot	1			
117	F2.4-Services-Relay Setting calculation	853590	Lot	1			
	G2-Services: Training						
118	G2.1-Services: Training: Training in Numerical relay, Substation Automation System (SAS) and Data Concentrator for 6 no. Engineers (4 no. customer engineers+2 no. BHEL engineers) for a period of at least three days one week at Manufacturer's works	853590	Lot	1			
119	G2.2-Services: Training: Lodging and boarding of 4 no. customer engineers for a period of at least three days one week at Manufacturer's works	853590	Lot	1			
120	G2.3-Services: Training: To and Fro charges of 4 no. customer engineers for a period of at least one week three days at Manufacturer's works	853590	Lot	1			
121	G2.4-Services: Training: Training in Numerical relay, Substation Automation System (SAS) and Data Concentrator of 12 no. Engineers (10 no. customer engineers+2 no. BHEL engineers) for a period of at least one week three days at site	853590	Lot	1			
122	G2.5-Services: Training: Lodging and boarding of 10 no. customer engineers for a period of at least three days one week at site	853590	Lot	1			
123	G2.6-Services: Training: To and Fro charges of 10 no. customer engineers for a period of at least three days one week at site	853590	Lot	1			
				337			
	Total cost for Service Portion						
	Total (supply+ Service)(In figure)						
	Total (supply+ Service)(In Words)						

NOTE-

- Discharge Port:-Chennai port or Mumbai Port as opted by Bidder. Port of discharge as per Vendor.
- TOTAL (supply+ Service) is excluding Custom duty, handling charges at discharge port, Inland F&I charges, taxes applicable in India and other loading charges.
- No of package with Dimensions and type of cargo/Break Bulk/LCL/FCL and no. of container (with type of container) required-Is also to be mentioned by bidder.
- Bidder has to mention "quoted" (In each applicable cell) in unpriced bid. In case that cell is Not Applicable, "NA" must be mentioned in that particular cell. Prices shall be mentioned in Price bid schedule only.
- Bidder strictly to quote as per BHEL format only. Other format of price bid will be liable for rejection.
- Bidder to quote strictly as per BoQ. Rates/prices shall not be combined. In case, the charges/prices are combined, BHEL reserves the right to reject the offer. Decision of BHEL shall be final.
- Taxes outside India shall be in scope of bidder and deemed to be included in their quoted price.
- It is certified that, We (M/s) have quoted as per the specified price format of the tender, otherwise our offer shall be liable for rejection.

66kV GAS INSULATED SWITCHGEAR (GIS) for HPCL VISAKH REFINERY CCPP Project

[illegible]

S.No.	Description of Item	HSN / SAC Code	Unit	Quantity	Unit Price Ex-works	Total Ex-Works	% of GST on Ex-W (vendor to mention % of GST applicable in respect of each line item)	GST on total Ex Works	Unit Freight & Insurance	Total Freight & Insurance	% of GST on F&I (vendor to mention % of GST applicable in respect of each line item)	GST on Total Freight & Insurance	TOTAL (FOR Destination) PRICE (Rs.)
1	2	3	4	5	6	7	8	9	10	11	12	13	14 (14=7+9+11+13)
25	A1.25-Supply Item: 66kV, 2500A, 40kA(1 sec) GIS-Any other supply item required for completion of GIS work and not covered above	85359030	Lot	1									
	B1-Supply Item: Mandatory Maintenance Equipment												
26	B1.1-Supply Item: Mandatory Maintenance Equipment-Portable gas filling equipment/SF6 gas cart	85381010	Set	1									
27	B1.2-Supply Item: Mandatory Maintenance Equipment-Portable ladder with adjustable height	85381010	Set	1									
28	B1.3-Supply Item: Mandatory Maintenance Equipment-SF6 Gas Leak Detector	85381010	Set	1									
29	B1.4-Supply Item: Mandatory Maintenance Equipment-Breaker Operation Analyzer with Transducers	85381010	Set	1									
	C1-Supply Item: Mandatory Spares for GIS												
30	C1.1-Supply Item: Mandatory Spares for GIS-Handle for disconnect switch drive	85381010	No	4									
31	C1.2-Supply Item: Mandatory Spares for GIS-Handle for earthing switch drive	85381010	No	4									
32	C1.3-Supply Item: Mandatory Spares for GIS-Pre selection key for three position switch	85381010	No	1									
33	C1.4-Supply Item: Mandatory Spares for GIS-Power cable termination kit	85381010	Set	2									
34	C1.5-Supply Item: Mandatory Spares for GIS-Tripping coil (Per Switchgear)	85381010	No	1									
35	C1.6-Supply Item: Mandatory Spares for GIS-Closing coil (Per Switchgear)	85381010	No	1									
36	C1.7-Supply Item: Mandatory Spares for GIS-Capacitive type voltage detectors	85381010	Set	1									
37	C1.8-Supply Item: Mandatory Spares for GIS-Control fuses/MCB	85381010	Set	10									
38	C1.9-Supply Item: Mandatory Spares for GIS-Density monitoring device	85381010	Set	2									
39	C1.10-Supply Item: Mandatory Spares for GIS-Pressure Gauge	85381010	Set	2									
40	C1.11-Supply Item: Mandatory Spares for GIS-Indication lamp covers	85381010	Set	5									
41	C1.12-Supply Item: Mandatory Spares for GIS-Indication lamps	85381010	Set	1									
42	C1.13-Supply Item: Mandatory Spares for GIS-Network switches	85381010	Set	1									
	D1-Supply Item: Operation & Maintenance Spares												
43	D1.1-Supply Item: Operation & Maintenance Spares-GIS	85381010	Set	1									
	E1-Supply Item: Special Tools & Tackles												
44	E1.1-Supply Item: Special Tools & Tackles-Analogue & Digital multi meters	85381010	Set	1									
45	E1.2-Supply Item: Special Tools & Tackles-Clip-on meters of different ranges	85381010	Set	1									
46	E1.3-Supply Item: Special Tools & Tackles-Tong testers	85381010	Set	1									
47	E1.4-Supply Item: Special Tools & Tackles-Allen Keys	85381010	Set	1									
48	E1.5-Supply Item: Special Tools & Tackles-Hammers	85381010	Set	1									
49	E1.6-Supply Item: Special Tools & Tackles-Illuminated SLD	85381010	Set	1									
50	E1.7-Supply Item: Special Tools & Tackles-Complete Tool kit for the Electrician	85381010	Set	1									
51	E1.8-Supply Item: Special Tools & Tackles-Battery and mains operated portable Megger	85381010	Set	1									
	F1-Services: Supervision of Erection, Testing & Commissioning												
52	F1.1-Services: Supervision of Erection, Testing & Commissioning-Site Visit for supervision of unloading & verification of materials for proper storage & upkeeping at site.	998732	Lot	1									
53	F1.2-Services: Supervision of Erection, Testing & Commissioning-Supervision of Erection of GIS including earthing	853590	Lot	1									
54	F1.3-Services: Supervision of Erection, Testing & Commissioning-Supervision of Erection of GIS- for EHV Cable Termination module	853590	Set	23									
55	F1.4-Services: Supervision of Erection, Testing & Commissioning-Testing & Commissioning of GIS	853590	Lot	1									
56	F1.5-Services: Supervision of Erection, Testing & Commissioning-Testing & Commissioning of GIS- for EHV Cable Termination module	853590	Set	23									
57	F1.6-Services: Supervision of Erection, Testing & Commissioning-Final Successful HV/ Power Frequency Testing of GIS including arranging of HV test kit along with operator	853590	Lot	1									
58	F1.7-Services: Supervision of Erection, Testing & Commissioning-Insulation Co-ordination Studies for GIS System	853590	Lot	1									
59	F1.8-Services: Supervision of Erection, Testing & Commissioning-Final Documentation	853590	Lot	1									

[illegible]

[illegible]

S.No.	Description of Item	HSN / SAC Code	Unit	Quantity	Unit Price Ex-works	Total Ex-Works	% of GST on Ex-W (vendor to mention % of GST applicable in respect of each line item)	GST on total Ex Works	Unit Freight & Insurance	Total Freight & Insurance	% of GST on F&I (vendor to mention % of GST applicable in respect of each line item)	GST on Total Freight & Insurance	TOTAL (FOR Destination) PRICE (Rs.)
1	2	3	4	5	6	7	8	9	10	11	12	13	14 (14=7+9+11+13)
115	F2-Services: Supervision of Testing and Commissioning of protection relays and complete Substation automation system at site. Scope shall be as following but not limited to (Any Item even if not specifically included in BOQ but required for successful completion of work as per technical specification shall be in bidders scope): a) Testing & commissioning of main protection relays and Numerical Busbar protection including Relay parameterization and configuration. b) Testing & commissioning of SAS system including termination of network/optical cables (complete with all end connectors, tees etc as required). c) For network/optical cables which are in the bidder's scope, the laying of cables shall be in BHEL scope. However, Optical cable will be laid under bidder's supervision. Splicing and Termination shall be in bidder's scope. d) Site acceptance Tests(SAT) as per technical specification. e) Arranging all necessary tools , tackles and equipment for protection and communication testing including automatic relay test kit shall be bidder's responsibility. f) Maintenance support services.	853590	Lot	29									
116	F2.3-Services-Final Documentation	853590	Lot	1									
117	F2.4-Services-Relay Setting calculation	853590	Lot	1									
	G2-Services: Training												
118	G2.1-Services: Training: Training in Numerical relay, Substation Automation System (SAS) and Data Concentrator for 6 no. Engineers (4 no. customer engineers+2 no. BHEL engineers) for a period of at least three days one-week at Manufacturer's works	853590	Lot	1									
119	G2.2-Services: Training: Lodging and boarding of 4 no. customer engineers for a period of at least three days one-week at Manufacturer's works	853590	Lot	1									
120	G2.3-Services: Training: To and Fro charges of 4 no. customer engineers for a period of at least one-week three days at Manufacturer's works	853590	Lot	1									
121	G2.4-Services: Training: Training in Numerical relay, Substation Automation System (SAS) and Data Concentrator of 12 no. Engineers (10 no. customer engineers+2 no. BHEL engineers) for a period of at least one-week three days at site	853590	Lot	1									
122	G2.5-Services: Training: Lodging and boarding of 10 no. customer engineers for a period of at least three days one-week at site	853590	Lot	1									
123	G2.6-Services: Training: To and Fro charges of 10 no. customer engineers for a period of at least three days one-week at site	853590	Lot	1									
				337									
A	Total cost (in figures)												
B	Total cost (in words)												
C	Input credit available to BHEL on account of GST (on Ex-W, F&I)												
D=A-C	Total cost to BHEL (after input credit of GST) = Total cost less GST on Ex-works less GST on F&I												

NOTE:

- Bidder has to mention "quoted" (in each applicable cell) in unpriced bid. In case that cell is Not Applicable, "NA" must be mentioned in that particular cell. Prices shall be mentioned in Price bid schedule only.
- Bidder strictly to quote as per BHEL format only. Other format of price bid will be liable for rejection.
- Bidder to quote strictly as per BoQ. Rates/prices shall not be combined. In case, the charges/prices are combined, BHEL reserves the right to reject the offer. Decision of BHEL shall be final.
- Bidder has to mention present rate of applicable taxes and duties in column no.8 & 12.
- Bidder to indicate import contents if applicable Rs. (Mention Quoted in unprice bid, if not mentioned "NIL" shall be considered) as per custom duty benefit clause of NIT.
- It is certified that, We (M/s) have quoted as per the specified price format of the tender, otherwise our offer shall be liable for rejection.

NAME AND SEAL OF TENDERER