

NEPAL ELECTRICITY AUTHORITY

(An Undertaking of Government of Nepal)

Transmission Directorate

Grid Operation Department

BALAJU SUBSTATION UPGRADATION PROJECT



BIDDING DOCUMENT FOR

**Procurement of
Plant for Design, Supply, Construction, Installation,
Integration, Testing and Commissioning of 132 kV/11 kV
Substation at Balaju**

**International Competitive Bidding (ICB)
Single Stage, Two -Envelope Bidding Procedure**

Invitation for Bids (IFB) No. : GOD/2080/081-05
Employer : Nepal Electricity Authority
Country : Nepal

**VOLUME-III OF III
November 2023**

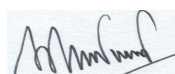
Nepal Electricity Authority
Grid Operation Department
Minbhawan, New Baneshwor, Kathmandu, Nepal.
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Letter of Price Bid

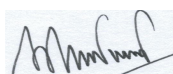
Price Schedules

Schedules of Rates and Prices [Lump sum contract]



Abbreviations

BD	Bidding Document
BDF	Bidding Forms
BDS	Bid Data Sheet
BOQ	Bill of Quantities
COF	Contract Forms
DP	Development Partners
ELI	Eligibility
EQC	Evaluation and Qualification Criteria
EXP	Experience
FIN	Financial
GCC	General Conditions of Contract
GoN	Government of Nepal
ICB	International Competitive Bidding
ICC	International Chamber of Commerce
ITB	Instructions to Bidders
JV	Joint Venture
LIT	Litigation
NCB	National Competitive Bidding
NEA	Nepal Electricity Authority
PAN	Permanent Account Number
PPA	Public Procurement Act
PPMO	Public Procurement Monitoring Office
PPR	Public Procurement Regulations
PL	Profit and Loss
NEA	Nepal Electricity Authority
SBD	Standard Bidding Document
SCC	Special Conditions of Contract
TS	Technical Specifications
VAT	Value Added Tax
WRQ	Works Requirements




Letter of Price Bid

The Bidder must accomplish the Letter of Price Bid in its letterhead clearly showing the Bidder's complete name and address.

Date:

Name of the contract:

Invitation for Bid No.:

To:

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB) Clause 8;
- (b) We offer to execute in conformity with the Bidding Documents the following Works:[...insert narrative...]
- (c) The total price of our Bid, excluding any discounts offered in item (d) below is the sum of

[amount of foreign currency in words], [amount in figures], and [amount of local currency in words], [amount in figures]
The total bid price from the Grand Summary (Schedule No. 5) should be entered by the Bidder inside this box. Absence of the total bid price in the Letter of Price Bid may result in the rejection of the bid.

- (d) The discounts offered and the methodology for their application are: [. . . insert discounts and methodology for their application if any . . .]
- (e) Our bid shall be valid for a period of [**insert validity period as specified in ITB 18.1**] days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) If our bid is accepted, we commit to obtain a performance security in accordance with the Bidding Document;
- (g) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- (h) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive;
- (i) We agree to permit the Employer/DP or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by the Employer; and
- (j) If awarded the contract, the person named below shall act as our Representative:

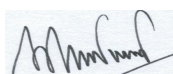
Name:

In the capacity of.....

Signed

Duly authorized to sign the Bid for and on behalf of

Date




Price Schedules

PREAMBLE

General

1. The Price Schedules are divided into separate Schedules as follows:
Schedule No. 1: Plant and Mandatory Spare Parts Supplied from Abroad
Schedule No. 2: Plant and Mandatory Spare Parts Supplied from within the Employer's Country
Schedule No. 3: Design Services
Schedule No. 4: Installation Charges and Other Services
Schedule No. 5: Grand Summary
2. The Schedules do not generally give a full description of the plant to be supplied and the services to be performed under each item. Bidders shall be deemed to have read the Employer's Requirements and other sections of the Bidding Document and reviewed the Drawings to ascertain the full scope of the requirements included in each item prior to filling in the rates and prices. The entered rates and prices shall be deemed to cover the full scope as aforesaid, including overheads and profit.
3. If bidders are unclear or uncertain as to the scope of any item, they shall seek clarification in accordance with ITB 7 prior to submitting their bid.

Pricing

4. Prices shall be filled in indelible ink, and any alterations necessary due to errors, etc., shall be initialed by the Bidder.

As specified in the Bid Data Sheet and Special Conditions of Contract, prices shall be fixed and firm for the duration of the Contract, or prices shall be subject to adjustment in accordance with the corresponding Appendix (Price Adjustment) to the Contract Agreement.
5. Bid prices shall be quoted in the manner indicated and in the currencies specified in the Instructions to Bidders in the Bidding Document.

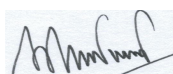
For each item, bidders shall complete each appropriate column in the respective Schedules, giving the price breakdown as indicated in the Schedules.

Prices given in the Schedules against each item shall be for the scope covered by that item as detailed in Section 6 (Employer's Requirements) or elsewhere in the Bidding Document.
6. Payments will be made to the Contractor in the currency or currencies indicated under each respective item.
7. When requested by the Employer for the purposes of making payments or part payments, valuing variations or evaluating claims, or for such other purposes as the Employer may

reasonably require, the Contractor shall provide the Employer with a breakdown of any composite or lump sum items included in the Schedules.

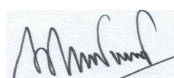
Schedules of Rates and Prices

- Schedule No. 1: Plant and Mandatory Spare Parts Supplied from Abroad
- Schedule No. 2: Plant and Mandatory Spare Parts Supplied from within the Employer's Country
- Schedule No. 3: Design Services
- Schedule No. 4: Installation Charges and Other Services
- Schedule No. 5: Grand Summary



Schedule 1: Plant and Equipment including Mandatory Spares to be supplied from abroad, including Type Test Charges for Type Tests to be conducted abroad.								
Item No.	Item description	Estimated		CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal) (Foreign Cost)			Total Amount (Excluding Taxes and Duties)	Custom, VAT and other taxes
		Unit	Quantity	FC			FC	LC
				Currency#	Unit Rate	Amount		
1	2	3	4	5	6	7 = (6) x (4)	8=7	9
	PART A							
A	TRANSFORMER							
A1	POWER TRANSFORMER							
a)	31.5/45 MVA, 132/11 KV, 3-phase, ONAN/ONAF Outdoor type 3-Phase transformer complete with all fittings and accessories including main control cabinet, cooling control cabinet, digital RTCC panel, OLTC, neutral CTs, RIP Bushing (HV Side) earthing arrangement, surge protection device and all fittings and accessories as specified/ required for the completion of the scope of works as per technical specifications	Nos.	3	USD				
b)	Insulating oil for 31.5/45MVA , 132/11 KV, 3-phase Transformer (* 1Lot = Oil for 1 Transformers)	Lot*	3	USD				
c)	Oil Storage Tank of 20 kL	No.	1	USD				
A2	LT Transformer							
a)	315 kVA, 11/0.4 kV, ONAN Transformer	No.	1	USD				
A3	PRE- ENGINEERED GIS/AHU BUILDING							
a)	Supply and fabrication of M.S Strcutural steel as per	MT	41.53	USD				

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Single Stage Two Envelope
Bidding Procedure

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		Unit	Quantity	FC			FC	LC
				Currency#	Unit Rate	Amount		
1	2	3	4	5	6	7 = (6) x (4)	8=7	9
	Technical Specifications to complete the works.							
b)	Other Miscellaneous item such as roof panels/wall panels etc. as per Technical Specifications to complete the works	LS	1	USD				
B	145 kV Equipment							
B1	145KV GIS Equipment							
1.1	145kV, SF6 GIS Bus Bars Module [Module description as per Technical specification]	Set	2	USD				
1.2	145kV, SF6 GIS Transformer bay Module [Module description as per Project specification]	Set	3	USD				
1.3	145kV, SF6 GIS Line bay Module [Module description as per Technical specification]	Set	1	USD				
1.4	145kV, SF6 GIS Bus Interconnecting Module [Module description as per Technical specification, Chapter 1-PSR]	Set	1	USD				
1.5	145kV, SF6 GIS Bus Coupler bay Module [Module description as per Technical specification]	Set	1	USD				
1.6	145kV, 1250A, 40kA SF6/Air Bushing for Connecting GIS to AIS alongwith support arrangement [Module description as per Technical specification, Chapter 1-PSR]	Nos	3	USD				

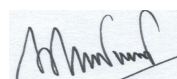
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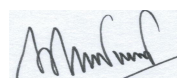
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				Currency#	Unit Rate	Amount		
1	2	3	4	5	6	7 = (6) x (4)	8=7	9
1.7	145kV, 1250A, 40kA SF6/Air Bushing for Connecting GIS to Transformer alongwith support arrangement [Module description as per Technical specification]	Nos	9	USD				
1.8	145 kV, 1250 A, 40kA, SF6 three phase GIS bus duct for connection of line feeder along with the all support arrangement	m	50	USD				
1.9	145 kV, 2000 A, 40kA, SF6 three phase GIS bus duct for connecting new 132 kV GIS to existing 132 kV Bus along with supporting arrangement	m	80	USD				
B2	Testing & Maintenance Equipment for GIS							
(i)	SF6 Gas processing Unit	set	1	USD				
(ii)	Partial Discharge Monitoring System for 145kV GIS System as per Technical Specification.	Set	1	USD				
(iii)	Dew Point meter for 145kV GIS System	Set	1	USD				
(iv)	SF6 Gas Leak Detector for 145kV GIS System	Set	1	USD				
(v)	EOT crane for 145kV GIS Hall	Set	1	USD				
(vi)	SF6 Gas Analyser	Set	1	USD				
B3	Outdoor Equipment							
1	120 kV, 10 kA LA,with support structure	Nos	12	USD				
2	9 kV, 10 kA LA with support structure	Nos	12	USD				
3	145 kV ,CVT with support structure	Nos	3	USD				

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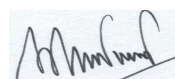
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1	2	3	4	5	6	7 = (6) x (4)	8=7	9
B4	11 kV, 31.5 kA (3 phase) indoor VCB switchgear panels (Double Tier)							
1	11 kV, 3000 A ,31.5 kA, 1s, Incomer panel all complete with accessories	Nos	3	USD				
2	11 KV, 1250, 31.5kA, 1s, Outgoing panel all complete with accessories (two breakers in each panel)	sets	12	USD				
3	11kV, 3000A, 31.5kA, 1s Bus Coupler panel all complete with accessories	Nos	2	USD				
4	11 kV, 4000 A Trunking Chamber	Nos	3	USD				
C	CONTROL AND PROTECTION RELAY PANELS (with Automations)							
1	132 kV							
a	132kV Line Control & Protection Panel for interconnecting bay	Set	1	USD				
b	Transformer Control & Protection Panel (For 132/11 kV)	Set	3	USD				
c	Bus coupler Control & Protection Panel	Set	1	USD				
d	Bus Bar Protection Panel	Set	1	USD				
D	COMMON ACCESSORIES UNIT							
1	Relay Test tool kit	Set	1	USD				
2	Time synchronization equipment (GPS)	No.	1	USD				

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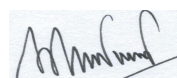
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1	2	3	4	5	6	7 = (6) x (4)	8=7	9
E	SUBSTATION AUTOMATION							
E.1	Integration of following bays into existing Substation Automation System (SAS) of GE make for substation including hardware and software for the substation & remote-control stations (LCD and MMC) along with associated equipment for the following bays as per Technical Specification (including main and backup relays, auxiliary relays, switches and other accessories for existing bays, where required)							
i	132 kV system	Bay	6	USD				
ii	11 kV system	Bay	29	USD				
iii	BCU for controlling & monitoring of Auxiliary System	Set	1	USD				
iv	Integration of all 132/11 kV bays under the present scope work via SCADA to MCC at Baneshwor including the supply of hardware, software and accessories as per technical specifications.	lot	1	USD				
v	Integration of all 132/11 kV Bays under present scope with the SCADA of SIEMENS (SINAUT Spectrum) at Load Dispatch Centre, Kathmandu including supply of Hardware, Software, accessories etc. as per TS Section	lot	1	USD				

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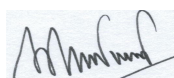
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		Unit	Quantity	FC			FC	LC
				Currency#	Unit Rate	Amount		
1	2	3	4	5	6	7 = (6) x (4)	8=7	9
	Project.							
F	LT Switchgear (As per Technical specification)							
a	415V Main switchboard	Set	1	USD				
b	415V ACDB	Set	1	USD				
c	415V MLDB	Set	1	USD				
d	415V Emergency LDB	Set	1	USD				
e	220V DCDB	Sets	1	USD				
G	Batteries and UPS							
a	220V							
i	800 AH	Nos	2	USD				
b	UPS 10 kVA	Nos	2	USD				
H	Float Cum Boost Battery Charger							
a	220V Float Cum Boost Battery Charger							
i	150A	Nos	2	USD				
I	Fire Protection System							
a	Portable /Trolley/Wheel mounted extinguishers							
i	9 litre water type	Nos	4	USD				
ii	50 litre foam type	Nos	1	USD				
iii	4.5 kg CO ₂ type	Nos	9	USD				
iv	4.5 kg Dry Chemical Power (DCP) type	Nos	5	USD				
b	Smoke detection system	Set	1	USD				

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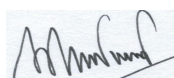
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				Currency#	Unit Rate	Amount		
1	2	3	4	5	6	7 = (6) x (4)	8=7	9
c	Fire detection and Alarm System	Set	1	USD				
d	Firefighting system with complete underground and over-ground piping, tanks, buildings and accessories etc. as required, complete for outdoor transformer	lot	1	USD				
J	Cables along with clamps, glands, lugs and straight joints etc.							
(a)	Power Cables(PVC) - (1.1kV grade)	LS	1	USD				
(b)	Power Cables (XLPE)-(1.1kV grade)	LS	1	USD				
(c)	Control Cables(PVC) - (1.1 kV grade)	LS	1	USD				
(d)	Power Cables - (145kV grade)	LS		USD				
i	1Cx400 sqmm (XLPE) copper cable for Transformer connection to GIS along with cable termination arrangement(Cable Shield End 9 Nos.) as per TS	KM	1	USD				
(e)	Power Cables - (12kV grade)			USD				
i	1Cx800 sqmm (XLPE) copper cable for power transformer incomer along with termination arrangement as per Technical Specifications	KM	4	USD				
ii	1Cx240 sq mm XLPE Copper cable for station transformer along with cable termination arrangement (Cable termination 3 Nos.) as per TS	m	150	USD				
(f)	Cable glands, lugs & straight through joints for Power	LS	1	USD				

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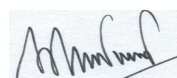
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1	2	3	4	5	6	7 = (6) x (4)	8=7	9
	& Control cables							
K	Air conditioning & ventilation System							
a	Air conditioning & Ventilation System							
i)	High Wall type Split AX unit of 2TR capacity	Nos.	12	USD				
ii)	Ventilation System for 132 kV GIS Hall	Lot.	1	USD				
iii)	Visual Monitoring System for watch and ward as per technical specification	LS	1	USD				
L	Erection Hardware							
	Insulator strings, Disc Insulators, Hardware, conductor, cable trays, clamps, spacers, connectors including equipment connectors, Junction box, earth wire, buried cable trenches/pipe equipment & lighting, all accessories etc. for the following:							
a	GIS to AIS Termination Arrangement:							
i	Line Bay	LS	1	USD				
ii	Transformer Bays	LS	1	USD				
b	Earthing and lightning protection including necessary connectors/connections,risers etc. complete in all respect							
i	Earth Conductor (copper)	LS	1	USD				
ii	Earth Rod (copper clad steel)	LS	1	USD				

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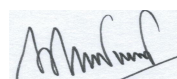
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1	2	3	4	5	6	7 = (6) x (4)	8=7	9
iii	Equipment for lightning protection	LS	1	USD				
M	Illumination System							
a	132 kV GIS Hall	LS	1	USD				
b	Switchyard lighting Outdoor	LS	1	USD				
c	Control Building	LS	1	USD				
	SUBTOTAL PART A							
	Part-B: Mandatory Spares							
(I)	Mandatory Spare List for Transformer							
	For 132/11 KV 3-phase Transformer			USD				
a)	Bushing of each rating with metal parts & gaskets and lifting tools	Set	1	USD				
b)	Cooler fan with Motor	No.	1	USD				
c)	Buchholz Relay (Main Tank) complete with floats and contacts	Set	1	USD				
d)	Local and Remote WTI with sensing device and contact(each)	Set	1	USD				
e)	Magnetic oil level gauge	No.	1	USD				
f)	Starters, contactors, switches & Relays for Electrical control panels (One set of each type)	Set	1	USD				
g)	Remote Tap position Indicator	No.	1	USD				
h)	Spare insulating oil to be handed over to Owner after	KL	10	USD				

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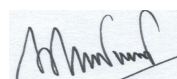
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1	2	3	4	5	6	7 = (6) x (4)	8=7	9
	commissioning for O&M requirement							
i)	Oil flow indicator with flow switch	Set	1	USD				
(II)	SPARES FOR 145 kV GIS							
A)	General							
a.	SF6 gas Pressure Relief Devices, 1Nos. of each type	Set	1	USD				
b.	SF6 Pressure gauge cum switch OR Density monitors and pressure switch as applicable (1 no. of each type)	Set	1	USD				
c.	Coupling device for pressure gauge cum switch for connecting Gas handling plant	Set	1	USD				
d.	Rubber Gaskets, "O" Rings and Seals for SF6 gas of each type	Set	1	USD				
e.	Molecular filter for SF6 gas with filter bags(20% of total weight)	Set	1	USD				
f.	All types of Control Valves for SF6 gas of each type	Set	1	USD				
g.	SF6 gas (20 % of total gas quantity)	Set	1	USD				
h.	All types of coupling for SF6 gas (1 no. of each type)	Set	1	USD				
i.	Pipe length (Copper or Steel as applicable) for SF6 Circuit of each type	Set	1	USD				
j.	Covers with all accessories necessary to close a							

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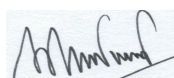
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1	2	3	4	5	6	7 = (6) x (4)	8=7	9
	compartment in case of dismantling of any part of the Enclosure to ensure the sealing of this compartment							
j.1	For 3 Phase Enclosure if applicable	Nos.	1	USD				
j.2	For Single phase enclosure if applicable	Nos.	1	USD				
k	Locking device to keep the Dis-connectors (Isolators) and Earthing switches in close or open position in case of removal of the driving Mechanism	Sets	1	USD				
l	Bus Support insulator of each type for 3 phase/single phase enclosure.	Nos.	1	USD				
m	SF6 to air bushing (145kV) as applicable	Sets	1	USD				
B)	145 kV SF6 CIRCUIT BREAKER:							
a.	Complete Circuit Breaker pole of each type & rating complete with interrupter, main circuit enclosure and Marshalling Box with operating mechanism	Nos.	1	USD				
b.	Rubber gaskets, 'O' rings and seals for SF6 gas (1 No. of each type)	Sets	1	USD				
c.	Trip coil assembly with resistor as applicable	Sets	1	USD				
d.	Closing coil assembly with resistor as applicable.	Sets	1	USD				
e.	Relays, Power contactors, push buttons, timers &	Sets	1	USD				

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Single Stage Two Envelope
Bidding Procedure

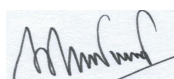
Schedule 1: Plant and Equipment including Mandatory Spares to be supplied from abroad, including Type Test Charges for Type Tests to be conducted abroad.								
Item No.	Item description	Estimated		CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal) (Foreign Cost)			Total Amount (Excluding Taxes and Duties)	Custom, VAT and other taxes
		Unit	Quantity	FC			FC	LC
				Currency#	Unit Rate	Amount		
1	2	3	4	5	6	7 = (6) x (4)	8=7	9
	MCBs etc. (1 No. of each type & rating)							
f.	Closing coil assembly (including valve, if applicable)	Sets	1	USD				
g.	Trip coil assembly (including valve, if applicable)	Sets	1	USD				
h.	Auxiliary switch assembly of each type	Sets	1	USD				
C)	145 KV ISOLATORS :							
a.	Complete set of 3-phase dis-connector including main circuit, enclosure, driving mechanism (one no of each type)	Sets	1	USD				
b.	Single Phase/ 3-phase Earthing switch including main circuit, enclosure, driving mechanism.	Sets	1	USD				
c.	Copper contact fingers for dis-connector male & female contact for one complete (3-phase) dis-connector of each type and rating	Sets	1	USD				
d.	Copper contact fingers for earthing switch male & female contacts, for one complete (3-phase) earthing switch of each type and rating	Sets	1	USD				
e.	Open / Close contactor assembly, timers, key interlock for one complete (3 phase) dis-connector and (3 phase) earthing switch (1 No. of each type and rating)	Sets	1	USD				
f.	Push button switch - (1 No. of each type & rating) as	Sets	1	USD				

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Single Stage Two Envelope
Bidding Procedure

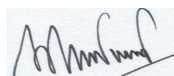
Schedule 1: Plant and Equipment including Mandatory Spares to be supplied from abroad, including Type Test Charges for Type Tests to be conducted abroad.								
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		Unit	Quantity	FC			FC	LC
				Currency#	Unit Rate	Amount		
1	2	3	4	5	6	7 = (6) x (4)	8=7	9
	applicable							
g.	Limit switch and Aux. Switches for complete 3 phase equipment							
g.1	For isolator	Sets	1	USD				
g.2	For earth switch	Sets	1	USD				
D)	145 KV CURRENT TRANSFORMER							
a.	Gas insulated complete CT of each type and rating with enclosure.	Lot	1	USD				
b.	Secondary bushing of each type	Sets	1	USD				
E)	145 kV VOLTAGE TRANSFORMER							
a.	Gas insulated complete PT of each type and rating with enclosure.	Nos.	1	USD				
(F)	120kV Surge Arrester							
i)	Complete LA	No.	1	USD				
ii)	Surge counter/monitor	Nos.	2	USD				
(III)	C&R PANELS							
i)	Transformer protection panel :							
a)	Transformer differential protection relay	No.	1	USD				
b)	REF protection relay with non-linear resistor	No.	1	USD				
c)	Directional over current & E/F Protection Relay	No.	1	USD				
ii)	Line protection panel :							

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Single Stage Two Envelope
Bidding Procedure

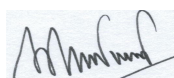
Schedule 1: Plant and Equipment including Mandatory Spares to be supplied from abroad, including Type Test Charges for Type Tests to be conducted abroad.								
Item No.	Item description	Estimated		CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal) (Foreign Cost)			Total Amount (Excluding Taxes and Duties)	Custom, VAT and other taxes
		Unit	Quantity	FC			FC	LC
				Currency#	Unit Rate	Amount		
1	2	3	4	5	6	7 = (6) x (4)	8=7	9
a)	Differential Protection relay	No.	1	USD				
iii)	Breaker Relay panel: Part of CRP							
a)	Trip circuit supervision relay	Nos.	2	USD				
b)	Self reset trip relay (relay of each type)	Set	1	USD				
c)	Hand reset trip relay(relay of each type)	Set	1	USD				
d)	Timer relay(relay of each type)	Set	1	USD				
e)	DC supervision relay(relay of each type)	Set	1	USD				
f)	Flag relays(relay of each type)	Set	1	USD				
g)	Auxiliary relays(relay of each type)	Set	1	USD				
(IV)	SAS							
i)	Bay Control Unit (BCU) of each type	Set	1	USD				
ii)	Ethernet Switch of each type	Set	1	USD				
(V)	LT TRANSFORMER							
i)	Bushings (Each type)	Set	1	USD				
ii)	Diaphragm for pressure relief vent	No.	1	USD				
iii)	Silica gel container	No.	1	USD				
iv)	Set of Valves (Each Type)	Set	1	USD				
(VI)	BATTERY CHARGER(220V)							
i)	Set of control cards	Set	1	USD				
ii)	Set of relays	Set	1	USD				
iii)	Rectifier transformer	No.	1	USD				

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Single Stage Two Envelope
Bidding Procedure

Schedule 1: Plant and Equipment including Mandatory Spares to be supplied from abroad, including Type Test Charges for Type Tests to be conducted abroad.								
Item No.	Item description	Estimated		CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal) (Foreign Cost)			Total Amount (Excluding Taxes and Duties)	Custom, VAT and other taxes
		Unit	Quantity	FC			FC	LC
				Currency#	Unit Rate	Amount		
1	2	3	4	5	6	7 = (6) x (4)	8=7	9
iv)	Thyristor/diode	Set	1	USD				
v)	Fuses of Thyristor with indicators	Set	6	USD				
(VII)	11 kV Switchgear							
a)	11 kV Vacuum Interrupter and Outgoing feeder	No.	3	USD				
b)	Tripping Coils	No.	3	USD				
c)	Closing Coils	Set	3	USD				
d)	Spring Charging Motor	Set	1	USD				
e)	Protection Relays							
i)	3 phase Overcurrent Relays for 11 kV side one of each type	No.	1	USD				
ii)	Earth Fault Relays for 11 kV Side, one of each type	No.	1	USD				
f)	Ammeter. Nos one of each rating	No.	1	USD				
g)	Voltmeter	No.	1	USD				
h)	kVA meter each	No.	1	USD				
i)	CTs of each type	set	1	USD				
j)	Operating Handle	No.	1	USD				
k)	Indicating Lamps and fuses (100% of Used), Lot	LS	1	USD				
l)	Breaker Trolley suitable for Double Tier System	LS	1	USD				
	Sub-Total Part-B							
	Total For Balaju Substation [(Part-A+ Part-B)]							

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Single Stage Two Envelope
Bidding Procedure

Name of Bidder:

Date:

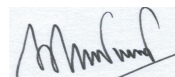
Signature of Bidder:

(Printed Name)

(Designation)

(Common Seal)

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Single Stage Two Envelope
Bidding Procedure

Schedule No. 2: Plant and Equipment including Mandatory Spares Parts to be supplied from within Nepal									
LC: Local Currency (ALL Price in Local Currency)									
Item No.	Item description	Unit	Quantity	Ex-Factory Price (Excluding VAT) in LC		Inland transportation to site in LC		Total Amount (Excluding Taxes)	VAT and other taxes
				Unit Rate	Amount	Unit Rate	Amount		
1	2	3	4	5	6 = (4) x (5)	7	8=(4)x(7)	9=(6)+(8)	10
	132/66/11 kV GIS Balaju Substation Upgradation Project								
	Total for 132/66/11 kV GIS Balaju Substation (I) (Part-A+ Part-B+ Part C)								
	Total for Schedule 2 (Total of column 9 to be carried forward to Schedule 5: Grand Summary)								

Note:

1) Bidder is required to quote prices in this Schedule for all the items in Schedule 1 which they wish to supply from within Nepal.

2.) The Prices of equipment are inclusive of type test charges

Specify currency in accordance with BDS ITB Clause, Part-I of the Bidding Documents.

* Strike-out whichever is not applicable.

^a Specify currency in accordance with ITB of the BDS.

^b Column 5 Price shall include all customs duties and sales and other taxes already paid or payable on the components and raw materials used in the manufacture or assembly of the item or the customs duties and sales and other taxes already paid on previously imported items.

Name of Bidder:

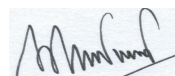
Date:

Signature of Bidder:

(Printed Name)

(Designation)

(Common Seal)

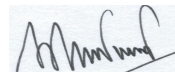



Schedule -3: Design Services							
Item No.	Item Description	Estimated		Unit Prices		Total Prices	
				Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion
		Quantity	Unit	NRs	Currency	LC	FC
1	2	3	4	5	6	7=(3)x(5)	8=(3)x(6)
	NOT APPLICABLE						
	Total for Schedule 3 (Total of column 7 & 8 to be carried forward to Schedule 5: Grand Summary)						

NOTE: The design cost is included in schedule 1.

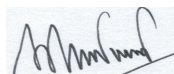
Name of Bidder:
Signature of Bidder:
 (Printed Name)
 (Designation)
 (Common Seal)

Date:



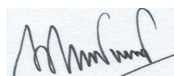

Schedule 4: Installation and Other Services Schedule 4a: Installation and Construction Charges					FC: Foreign Currency LC: Local Currency		
Item No.	Item description	Country of origin	Estimated		Portion in Nepalese Currency		
			Unit	Quantity	LC		
1	2	3	4	5	6	7	8=(5)x(7)
0	Site Clearance						
	PART A						
A	TRANSFORMER						
A1	POWER TRANSFORMER						
a)	31.5/45 MVA, 132/11 KV, 3-phase, ONAN/ONAF Outdoor type 3-Phase transformer complete with all fittings and accessories including main control cabinet, cooling control cabinet, digital RTCC panel, OLTC, neutral CTs, RIP Bushing (HV Side) earthing arrangement, surge protection device and all fittings and accessories as specified/ required for the completion of the scope of works as per technical specifications		Nos.	3.00	NPR		
b)	Insulating oil for 31.5/45MVA , 132/11 KV, 3-phase Transformer (* 1Lot = Oil for 1 Transformers)		Lot*	3.00	NPR		
c)	Oil Storage Tank of 20 kL		No.	1.00	NPR		
A2	LT Transformer						
a)	315 kVA, 11/0.4 kV, ONAN Transformer		No.	1.00	NPR		
B	145 kV equipment						
B1	145KV GIS Equipment						
1.1	145kV, SF6 GIS Bus Bars Module [Module description as per Technical specification]		Set	2.00	NPR		

Tender No. : GOD/2080/081-05


Single Stage Two Envelope
Bidding Procedure

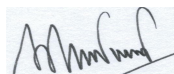
Schedule 4: Installation and Other Services Schedule 4a: Installation and Construction Charges					FC: Foreign Currency LC: Local Currency		
Item No.	Item description	Country of origin	Estimated		Portion in Nepalese Currency		
			Unit	Quantity	LC		
1	2	3	4	5	6	7	8=(5)x(7)
1.2	145kV, SF6 GIS Transformer bay Module [Module description as per Project specification]		Set	3.00	NPR		
1.3	145kV, SF6 GIS Line bay Module [Module description as per Technical specification]		Set	1.00	NPR		
1.4	145kV, SF6 GIS Bus Interconnecting Module [Module description as per Technical specification, Chapter 1-PSR]		Set	1.00	NPR		
1.5	145kV, SF6 GIS Bus Coupler bay Module [Module description as per Technical specification]		Set	1.00	NPR		
1.6	145kV, 1250A, 40kA SF6/Air Bushing for Connecting GIS to AIS along with support arrangement [Module description as per Technical specification, Chapter 1-PSR]		Nos	3.00	NPR		
1.7	145kV, 1250A, 40kA SF6/Air Bushing for Connecting GIS to Transformer along with support arrangement [Module description as per Technical specification]		Nos	9.00	NPR		
1.8	145 kV, 1250 A, 40kA, SF6 three phase GIS bus duct for connection of line feeder along with the all support arrangement		m	50.00	NPR		
1.9	145 kV, 2000 A, 40kA, SF6 three phase GIS bus duct for connecting new 132 kV GIS to existing 132 kV Bus along with supporting arrangement		m	80.00	NPR		
B2	Testing & Maintenance Equipment for GIS						
(i)	SF6 Gas processing Unit						
(ii)	Partial Discharge Monitoring System for 145kV GIS System as per Technical Specification.		Set	1.00	NPR		

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Single Stage Two Envelope
Bidding Procedure

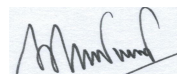
Schedule 4: Installation and Other Services					FC: Foreign Currency		
Schedule 4a: Installation and Construction Charges					LC: Local Currency		
Item No.	Item description	Country of origin	Estimated		Portion in Nepalese Currency		
			Unit	Quantity	LC		
1	2	3	4	5	6	7	8=(5)x(7)
(iii)	Dew Point meter for 145kV GIS System		Set	1.00	NPR		
(iv)	SF6 Gas Leak Detector for 145kV GIS System		Set	1.00	NPR		
(v)	EOT crane for 145kV GIS Hall		Set	1.00	NPR		
(vi)	SF6 Gas Analyzer		Set	1.00	NPR		
B3	Outdoor Equipment						
1	120 kV, 10 kA LA, with support structure		Nos	12.00	NPR		
2	9 kV, 10 kA LA with support structure		Nos	12.00	NPR		
3	145 kV ,CVT with support structure		Nos	3.00	NPR		
B4	11 kV, 31.5 kA (3 phase) indoor VCB switchgear panels (Double Tier)						
1	11 kV, 3000 A ,31.5 kA, 1s, Incomer panel all complete with accessories		sets	3.00	NPR		
2	11 KV, 1250, 31.5kA, 1s, Outgoing panel all complete with accessories (two breakers in each panel)		Nos	12.00	NPR		
3	11kV, 3000A, 31.5kA, 1s Bus Coupler panel all complete with accessories		Nos	2.00	NPR		
4	11 kV, 4000 A Trunking Chamber		Nos	3.00	NPR		
C	CONTROL AND PROTECTION RELAY PANELS (with Automations)						
1	132 kV						
a	132kV Line Control & Protection Panel for interconnecting bay		Set	1.00	NPR		
b	Transformer Control & Protection Panel (For 132/11kV)		Set	3.00	NPR		
c	Bus coupler Control & Protection Panel		Set	1.00	NPR		
d	Bus Bar Protection Panel		Set	1.00	NPR		

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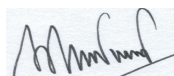
Schedule 4: Installation and Other Services Schedule 4a: Installation and Construction Charges					FC: Foreign Currency LC: Local Currency		
Item No.	Item description	Country of origin	Estimated		Portion in Nepalese Currency		
			Unit	Quantity	LC		
1	2	3	4	5	6	7	8=(5)x(7)
D	COMMON ACCESSORIES UNIT						
1	Relay Test tool kit		Set	1.00	NPR		
2	Time synchronization equipment (GPS)		No.	1.00	NPR		
E	SUBSTATION AUTOMATION						
E.1	Integration of following bays into existing Substation Automation System (SAS) of GE make for substation including hardware and software for the substation & remote control stations(LDC and MMC) along with associated equipment for the following bays as per Technical Specification (including main and backup relays, auxiliary relays, switches and other accessories for existing bays, where required)						
i	132 kV system		Bay	6	NPR		
ii	11 kV system		Bay	29	NPR		
iii	BCU for controlling & monitoring of Auxiliary System		Set	1	NPR		
iv	Integration of all 132/11 kV bays under the present scope work via SCADA to MCC at Baneshwor including the supply of hardware, software and accessories as per technical specifications.		lot	1	NPR		
v	Integration of all 132/11kV Bays under present scope with the SCADA of SIEMENS (SINAUT Spectrum) at Load Dispatch Centre, Kathmandu including supply of Hardware, Software, accessories etc. as per TS Section Project.		lot	1	NPR		
F	LT Switchgear (As per Technical specification)						
a	415V Main switchboard		Set	1	NPR		

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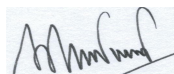
Schedule 4: Installation and Other Services Schedule 4a: Installation and Construction Charges					FC: Foreign Currency LC: Local Currency		
Item No.	Item description	Country of origin	Estimated		Portion in Nepalese Currency		
			Unit	Quantity	LC		
1	2	3	4	5	6	7	8=(5)x(7)
b	415V ACDB		Set	1	NPR		
c	415V MLDB		Set	1	NPR		
d	415V Emergency LDB		Set	1	NPR		
e	220V DCDB		Sets	1	NPR		
G	Batteries and UPS						
a	220V						
i	800 Ah		Nos	2	NPR		
b	UPS 10 kVA		Nos	2	NPR		
H	Float Cum Boost Battery Charger						
a	220V Float Cum Boost Battery Charger						
i	150A		Nos	2.00	NPR		
I	Fire Protection System						
a	Portable /Trolley/Wheel mounted extinguishers						
i	9 litre water type		Nos	4	NPR		
ii	50 litre foam type		Nos	1	NPR		
iii	4.5 kg CO2 type		Nos	9	NPR		
iv	4.5 kg Dry Chemical Power (DCP) type		Nos	5	NPR		
b	Smoke detection system		Set	1	NPR		
c	Fire detection and Alarm System		Set	1	NPR		
d	Firefighting system with complete underground and over-ground piping, tanks,		lot	1	NPR		

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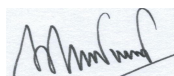
Schedule 4: Installation and Other Services					FC: Foreign Currency		
Schedule 4a: Installation and Construction Charges					LC: Local Currency		
Item No.	Item description	Country of origin	Estimated		Portion in Nepalese Currency		
			Unit	Quantity	LC		
1	2	3	4	5	6	7	8=(5)x(7)
	buildings and accessories etc. as required, complete for outdoor transformer						
J	Cables along with clamps, glands, lugs and straight joints etc.						
(a)	Power Cables (PVC) - (1.1kV grade)		LS	1	NPR		
(c)	Control Cables (PVC) - (1.1 kV grade)		LS	1	NPR		
(d)	Power Cables - (145kV grade)						
i	1Cx400 sqmm (XLPE) copper cable for Transformer connection to GIS along with cable termination arrangement (Cable Shield End 9 Nos.) as per TS		KM	1	NPR		
(e)	Power Cables - (12kV grade)						
i	1Cx800 sqmm (XLPE) copper cable for power transformer incomer along with termination arrangement as per Technical Specifications		KM	4	NPR		
ii	1Cx240 sq mm XLPE Copper cable for station transformer along with cable termination arrangement (Cable termination 3 Nos.) as per TS		m	150	NPR		
(f)	Cable glands, lugs & straight through joints for Power & Control cables		LS	1	NPR		
K	Air conditioning & ventilation System						
a	Air conditioning & Ventilation System						
i)	High Wall type Split AX unit of 2TR capacity		Nos.	12	NPR		
ii)	Ventilation System for 132 kV GIS Hall		Lot.	1.00	NPR		
L	Erection Hardware						
	Insulator strings, Disc Insulators, Hardware, conductor, cable trays, clamps, spacers, connectors including equipment connectors, Junction box, earth wire, buried cable trenches/pipe equipment & lighting, all						

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Single Stage Two Envelope
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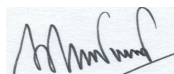
Schedule 4: Installation and Other Services Schedule 4a: Installation and Construction Charges					FC: Foreign Currency LC: Local Currency		
Item No.	Item description	Country of origin	Estimated		Portion in Nepalese Currency		
			Unit	Quantity	LC		
1	2	3	4	5	6	7	8=(5)x(7)
	accessories etc. for the following:						
a	GIS to AIS Termination Arrangement:						
i	Line Bay		LS	1	NPR		
ii	Transformer Bays		LS	1	NPR		
b	Earthing and lightning protection including necessary connectors / connections, risers etc. complete in all respect						
i	Earth Conductor (copper)		LS	1	NPR		
ii	Earth Rod (copper clad steel)		LS	1	NPR		
iii	Equipment for lightning protection		LS	1	NPR		
M	Illumination System						
a	132kV GIS Hall		LS	1	NPR		
b	Switchyard lighting Outdoor		LS	1	NPR		
c	Control Building		LS	1	NPR		
SUBTOTAL PART A							
PART B							
1	Dismantling Works						
	Dismantling of existing structures like buildings, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including scaffolding wherever necessary, sorting the dismantled Material, disposal o unserviceable Material and stacking the serviceable Material with all lifts and lead of 200 meters as suggested by the clients.						

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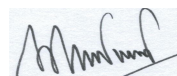
Schedule 4: Installation and Other Services Schedule 4a: Installation and Construction Charges					FC: Foreign Currency LC: Local Currency		
Item No.	Item description	Country of origin	Estimated		Portion in Nepalese Currency		
			Unit	Quantity	LC		
1	2	3	4	5	6	7	8=(5)x(7)
1.1	Dismantling of Existing Building		Sq.m	233.42	NPR		
1.2	Dismantling of RCC firewall		cu.m	15.00	NPR		
1.3	Dismantling of Foundation of Transformer		cu.m	90.00	NPR		
1.4	Shifting of existing transformers towards the east of substation access road (please refer Vol II) ,dismantling & shifting of Suichatar line LA and CVT and dismantling & Shifting of existing 11 kV switchgears at existing control room.		LS	1.00	NPR		
2	SITE CLEARANCE WORK						
2.1	Clearing and grubbing the site for construction by removing 150mm thick top soil including bushes, small trees, leveling of undulated ground, shorting and stacking/storing selected top soil for reuse in landscaping works, disposing unsuitable materials from site, etc., all complete as per drawings, specifications and instructions of the Employer.		Sq.m	226.25	NPR		
3	EARTHWORK EXCAVATION						
3.1	Earthwork in Excavation in foundations in all type of soils for foundation, trenches, footing, pits etc. to the required depth including dewatering by manual as per specifications with all contractor's own machinery and equipment's, providing crossing of track, shoring, strutting, timbering and buttressing with appropriate materials and all such measures necessary to retain in position the sides of the foundation pit and including refilling the excavated material with watering, ramming, leveling the site and disposing off the surplus/unusable earth to outside the construction premises, etc. all complete as per drawings, specifications and instructions of the Engineer.		Cu.m	1,251.82	NPR		

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Single Stage Two Envelope
Bidding Procedure

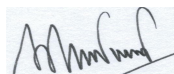
Schedule 4: Installation and Other Services Schedule 4a: Installation and Construction Charges					FC: Foreign Currency LC: Local Currency		
Item No.	Item description	Country of origin	Estimated		Portion in Nepalese Currency		
			Unit	Quantity	LC		
1	2	3	4	5	6	7	8=(5)x(7)
3.2	Earthwork in Excavation in foundations in all type of soils for foundation, trenches, footing, pits etc. to the required depth including dewatering by mechanical as per specifications with all contractor's own machinery and equipment's, providing crossing of track, shoring, strutting, timbering and butressing with appropriate materials and all such measures necessary to retain in position the sides of the foundation pit and including refilling the excavated material with watering, ramming, leveling the site and disposing off the surplus/unusable earth to outside the construction premises, etc. all complete as per drawings, specifications and instructions of the Engineer.		Cu.m	139.09	NPR		
4	EARTHWORK FILLING						
4.1	Earthwork in Back filling in foundation and sides of foundation with approved soil obtained from the excavation at site and stacked at site in layer not exceeding 15 cm thick (compacted thickness) including transportation of soil, spreading in required line and level, sprinkling water, ramming, compacting with mechanical rammers, testing, etc., all complete as per drawing, specification and instructions of the Engineer.		Cu.m	526.84	NPR		
4.2	Earthwork in Back filling in foundation and sides of foundation with approved soil brought from outside in layer not exceeding 15 cm thick (compacted thickness) including transportation of soil, spreading in required line and level, sprinkling water, ramming, compacting with mechanical rammers, testing, etc., all complete as per drawing, specification and instructions of the Engineer.		Cu.m	181.13	NPR		
5	BRICK SOLING						

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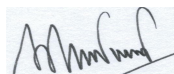
Schedule 4: Installation and Other Services Schedule 4a: Installation and Construction Charges					FC: Foreign Currency LC: Local Currency		
Item No.	Item description	Country of origin	Estimated		Portion in Nepalese Currency		
			Unit	Quantity	LC		
1	2	3	4	5	6	7	8=(5)x(7)
5.1	Dry Brick Flat soling in foundation and floor with 1st class bricks complete to level as per specification and direction complete work.		Sq.m	261.38	NPR		
6	1:3:6 PCC WORK (M10)						
6.1	Supplying mixing, placing, compacting 1:3:6 cement sand mortar mixes of plain cement concrete for foundation bases & floors lead upto 30m excluding the cost of formwork & reinforcement bars, as per drawing, specification & instruction all complete.		Cu.m	79.30	NPR		
7	1:1:2 PCC FOR RCC WORK (M25)						
7.1	Supplying mixing, placing, compacting reinforced cement concrete of M25 including admixture excluding the cost of reinforcement bars & formwork as per drawing, specification and instruction all complete.		Cu.m	700.00	NPR		
8	REINFORCEMENT WORK						
8.1	Providing and fixing in position Fe 500 steel reinforcement of various diameter conforming to relevant IS code in R.C.C. works including straightening, cutting, bending, binding with 20 SWG annealed wire for tying the reinforcement bars at each junctions (binding wire shall not be measured separately) including all waste and cut pieces, provision for adequate numbers of spacers, chairs, providing and placing cement mortar (1:1) cover blocks to keep the bars in intended position at all levels all complete as per drawings, specifications and instruction of the engineer. (Authorized lap length and for the bar length exceeding 10 meter in length shall be measured for the payment).		MT	70.35	NPR		
9	FORMWORK						

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Bidding Procedure

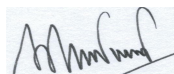
Schedule 4: Installation and Other Services					FC: Foreign Currency		
Schedule 4a: Installation and Construction Charges					LC: Local Currency		
Item No.	Item description	Country of origin	Estimated		Portion in Nepalese Currency		
			Unit	Quantity	LC		
1	2	3	4	5	6	7	8=(5)x(7)
9.1	Centering and Shuttering of Plywood / Steel form work in slabs, walls, columns, lintel and beams 'including propping, bracing and removal of formwork all complete as per drawing, specification & instruction.(Assume considering 7 times use of formwork)		Sq.m	2,455.25	NPR		
10	BRICKWORK						
10.1	Providing and laying first class Chimney Fired brick one or more brick thick wall in cement mortar 1:6 (1cement : 6 coarse sand) in foundation up to plinth, superstructure and other specified places in all heights and level including the cost of single or multi stage self standing scaffolding, soaking bricks, curing, raking joints, provision for recesses, openings, toothing etc., all complete as per drawing, specifications and instructions of the Engineer.		Cu.m	116.57	NPR		
11	PLASTERING WORK						
11.1	12.5mm thick Inside Wall plastering works in perfect plumb and lines/ levels with 1:4 cement sand mortar including curing and finishing for all floors including material and labours, tools, plants, scaffolding all complete.		Sq.m	815.26	NPR		
11.2	20mm thick Outside plastering works in perfect plumb and lines/ levels with 1:4 C/S mortar for all floors including material and labours, tools, plants, scaffolding all complete.		Sq.m	737.52	NPR		
12	FLOORING WORK						
12.1	Providing, laying, compacting and curing average 38mm mm thick screed with 1:2:4 cement sand mortar in perfect lines & level in whole flooring as per design, specification and instruction of the site engineer.		Sq.m	231.75	NPR		

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Bidding Procedure

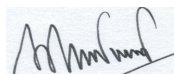
Schedule 4: Installation and Other Services					FC: Foreign Currency		
Schedule 4a: Installation and Construction Charges					LC: Local Currency		
Item No.	Item description	Country of origin	Estimated		Portion in Nepalese Currency		
			Unit	Quantity	LC		
1	2	3	4	5	6	7	8=(5)x(7)
12.2	Provide and laying 3 mm cement punning cement sand (1:1) in project office including cleaning, watering, curing the laid surface all complete as per instruction & specification.		Sq.m	183.86	NPR		
12.3	Supply, delivery and laying in perfect line and level of (Floor and wall of kazzaria, Somany or equivalent) glazed or non glazed ceramic wall & floor tiles (of approved colour and size) including necessary cement grout and backing of 1:4 c/s mortar, joint filling all complete.		Sq.m	226.60	NPR		
12.4	Supply, delivery and laying in perfect line and level of acid resistant wall & floor tiles (of approved colour and size) including necessary cement grout and backing of 1:4 c/s mortar, joint filling all complete.		Sq.m	44.44	NPR		
12.5	Providing and laying 16 mm thick Rajasthani white or equivalent marble flooring of approved colour and quality including 20 mm thick screeding with cement mortar of 1:2 (cement: sand), laying in required pattern, line and level all complete as per drawings, specifications and instruction.		Sq.m	27.70	NPR		
12.6	Stone soling and finishing to approved level, line and dimensions as per instruction & specification complete work		Cu.m	28.50	NPR		
12.7	62mm thick hardened concrete flooring with two coats of pu paint.		Sq.m	189.97	NPR		
12.8	Stone filling (40mm) over grating of Transformer /reactor Foundation		Cu.m	12.77	NPR		
13	PAINTING WORK						
13.1	Supply and applying of two or more coats of Putty on plastered surface of wall and ceiling including materials and labour with surface preparation by sanding		Sq.m	1,201.15	NPR		

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Single Stage Two Envelope
Bidding Procedure

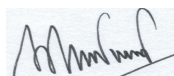
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Item No.	Item description	Country of origin	Estimated		Portion in Nepalese Currency		
			Unit	Quantity	LC		
1	2	3	4	5	6	7	8=(5)x(7)
	all complete.						
13.2	Supply and applying of two coats of interior emulsion paint of desired shade/ colour over primer applied surface of wall and ceiling including materials and labour with surface preparation, filling and finishing all complete.		Sq.m	815.26	NPR		
13.3	Supply and applying of two coats of Exterior Weather coat paint over one coat of primer on external plastered surface of wall including materials and labour with surface preparation all complete.		Sq.m	385.89	NPR		
13.4	Supply and applying of two coats of Enamel paint with primer on door, shutter and window including materials and labour with surface preparation all complete.		Sq.m	53.44	NPR		
14	WOOD WORKS						
14.1	Preparation of Salwood Door(chaukhat) as per drawing and specification including supply of materials, labours, making as per design/ details, fixing it to perfect position, molding on edges, grooves for plasters, fixing with necessary MS.		Cu.m	0.36	NPR		
14.2	Supplying and fitting Ready made Teak Wood Doors, Ordinary (seasoned, Poisoned treated one side teak) with all necessary hardware all complete.		Sq.m	22.58	NPR		
15	UPVC WORKS						
15.1	Providing, fabricating & fixing Windows and ventilation of Upvc frame using Upvc section with 5mm clear float glass, U-shaped both side plastic gasket, steel hook locks and screws all accessories as per drawing all complete.((frame 60*60mm, sash 60*78mm, white colour with 5mm glass)		Sq.m	17.93	NPR		

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Single Stage Two Envelope
Bidding Procedure

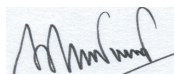
Schedule 4: Installation and Other Services Schedule 4a: Installation and Construction Charges					FC: Foreign Currency LC: Local Currency		
Item No.	Item description	Country of origin	Estimated		Portion in Nepalese Currency		
			Unit	Quantity	LC		
1	2	3	4	5	6	7	8=(5)x(7)
15.2	Providing and fixing 2 or 3 Panel Sliding window of UPVC section in naturally anodized or black anodized/powder coated color, Section size (87*56*1.2 mm) fitted with 5 mm clear glass without fly mesh shutter (Window size 6*5' or average area 30 Sq. feet per window).		Sq.m	36.70	NPR		
16	STRUCTURAL STEEL WORK						
16.1	Supply and installation of miscellaneous Structural steel used for gratings, gratings supports etc for transformer foundation, cable support stand earthing cleats ,chequered plates, embedments, LA and CSW termination structure, edge protection angles for cable trenches but excluding the reinforcement steel and steel for lattice and pipe structures, structural steel used for pre engineered building which shall be paid separately.		MT	10.34	NPR		
16.2	Installation of Miscellaneous Structural steel used for columns, rafters, connection plates, angles, gratings, chequered plates, rods, nuts and bolts, etc. for pre-engineered building(PEB)		MT	41.53	NPR		
16.3	Supplying and fitting of 50 dia. Grade 204 Stainless steel hand rail in 2.0 m. distance with 50mm dia. Railing post, 25mm dia. 3 line horizontal member in the center and height 0.90 m. all complete.		rm	19.20	NPR		
16.4	Supplying and erection of Window Grill out of IS structure sections steps with one coat of anti-corrosive paint as per specification, drawing and direction all complete.		kg	789.67	NPR		
17	MISCELLANEOUS WORKS						
17.1	Installation of 50 mm PUFF panel board, all complete as per drawings,			409.86	NPR		

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Bidding Procedure

Schedule 4: Installation and Other Services Schedule 4a: Installation and Construction Charges					FC: Foreign Currency LC: Local Currency		
Item No.	Item description	Country of origin	Estimated		Portion in Nepalese Currency		
			Unit	Quantity	LC		
1	2	3	4	5	6	7	8=(5)x(7)
	specifications and instructions.		Sq.m				
17.2	Installation of 40 mm PUFF panel board, all complete as per drawings, specifications and instructions.		Sq.m	191.02	NPR		
17.3	Providing and fixing mineral fiber false ceiling Scala board, size 600 x 600mm and 16mm thickness of approved texture, design and pattern fixed in true horizontal level suspended on interlocking T-Grid all around galvanized iron section of 0.33mm thick (galvanized @ 120gsm) comprising of prelude. the tile shall be laid on prelude 32 with 24mm wide T-section flanges having rotary stitching on all T sections i.e. the main runner, 1200mm & 600mm cross tees with web height of 32mm and a load carrying capacity of 14 Kgs/m ² with a minimum pullout strength of 100 Kgs.		Sq.m	78.28	NPR		
17.4	Providing and fabrication of colour CGI sheet roof as per drawing, specification and instruction of engineer including all.		Sq.m	10.13	NPR		
17.5	Providing and fixing of rolling shutters as per specifications all complete.		Sq.m	15.00	NPR		
17.6	Fire Extinguisher (6Kg NS or IS standard) with range of jet 6 m		Nos.	2.00	NPR		
17.7	Euroguard 7 Liters/min (max) wall mounted with water flow rate 0.25 L/min and purification capacity upto 15L/hr		Nos.	2.00	NPR		
17.8	Polymeric cover strips		Sq.m	172.50	NPR		
17.9	Warning Tape		Sq.m	172.50	NPR		

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Bidding Procedure

Schedule 4: Installation and Other Services Schedule 4a: Installation and Construction Charges					FC: Foreign Currency LC: Local Currency		
Item No.	Item description	Country of origin	Estimated		Portion in Nepalese Currency		
			Unit	Quantity	LC		
1	2	3	4	5	6	7	8=(5)x(7)
17.10	27"x27" heavy duty CI manhole cover		Nos.	2.00	NPR		
Sub-total PART B							
TOTAL PART A+ PART B							

Name of Bidder:

Date:

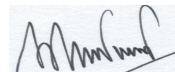
Signature of Bidder:

(Printed Name)

(Designation)

(Common Seal)

Tender No. : GOD/2080/081-05




Single Stage Two Envelope
Bidding Procedure

FC: Foreign Currency
LC: Local Currency

Schedule 4: Installation and Other Services

Schedule 4b: Training Charges for training to be imparted abroad

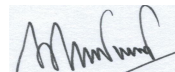
SN	Description	Item for which training is to be imparted.	Country where training is to be imparted	Nos. of Trainee	Training duration in days	Total Training Charges		
						Currency	Unit Rate	Total Training Charges
1	2	3	4	5	6	7	8	9=(5)x(6)x(8)
A	Training to Owners personnel on Design, testing and Maintenance aspect as per Section Project, Technical Specification at manufacturer's works	i) Control & Protection and Substation Automation System		8	5	USD		
		ii) GIS Equipment and System		8	5	USD		
		iii)Transformer		8	5	USD		
	Total for Training Charges							
	Total for Schedule 4 (Total of column 7 to be carried forward to Schedule 5: Grand Summary)							

REMARKS:

1. Training at Manufacturer’s works: The Contractor shall include in the training charges payment of per diem allowance to NEA trainees’ as per NEA Financial Regulation per day per trainee for the duration of training abroad towards accommodation, meals, and other incidental expenses and to and fro economy class flight ticket, local transportation, training materials and payment of USD 150 per Diem allowances per trainee per day for the duration of training.

Name of Bidder:
Signature of Bidder:
(Printed Name)
(Designation)
(Common Seal)

Date:




FC: Foreign Currency
LC: Local Currency

Schedule 4: Installation and Other Services

Schedule No. 4c: Training Charges for training to be imparted within Employer's country

S. No.	Description of the Test	Item for which training is to be imparted.	Nos. of Trainee	Training duration in days	Currency	Training Charges for Contractors Trainers	
						Unit Rate	Total Training Charges
1	2	3	4	5	6	7	8 =(7)x(5)x(4)
a)	On Job training on operation, maintenance and testing & commissioning aspect at one Location in Nepal as per section Project, Technical Specification	i) Control & Protection	10	10	NPR		
		ii) Substation Automation System including integration aspect of existing SCADA (of Siemens supplied SINAUT Spectrum Software) at Load Dispatch Center	10	10	NPR		
		iii. GIS and Outer Equipment	10	10	NPR		
		iv) Transformer Operation and Maintenance	10	10	NPR		
Total for Training Charges							
Total for Schedule 4 (Total of column 8 to be carried forward to Schedule 5: Grand Summary)							

REMARKS:

1. On Job Training in Nepal: The traveling and living expenses of Employer's personnel for the training program conducted in Nepal shall be borne by the contractor. In addition, the contractor shall bear the per diem expense @ NRs. 2000.00 per person.

Name of Bidder:

Date:

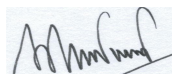
Signature of Bidder:

(Printed Name)

(Designation)

(Common Seal)

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Bidding Procedure

Schedule No. 5: Grand Summary

S. No.	Description	Total			
		Total Price Foreign (USD)	Total Price Local (NPR)	Total Price Foreign (USD)	Total Price Local (NPR)
1	TOTAL SCHEDULE NO. 1				
	Plant and Equipment including Mandatory Spares to be supplied from abroad, including Type Test Charges for Type Tests to be conducted abroad.				
2	TOTAL SCHEDULE NO. 2				
	Plant and Equipment including Mandatory Spares Parts to be supplied from within Nepal including Type Test Charges				
3	TOTAL SCHEDULE NO. 3				
	Design Services				
4	TOTAL SCHEDULE NO. 4				
	a. Installation Charges				
	b. Training Charges for Training to be imparted abroad				
	c. Training Charges for Training to be imparted in Nepal				
	GRAND TOTAL [1+2+3+4(a)+4(b)+4 (c)]				

Date:

Name of Bidder:

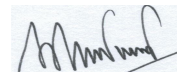
Signature of Bidder:

(Printed Name)

(Designation)

(Common Seal)

Tender No. : GOD/2080/081-05




Single Stage Two Envelope Bidding Procedure