

BIDDING DOCUMENT

Procurement of Plant

TANAHU HYDROPOWER PROJECT

PACKAGE 3:

**DESIGN, SUPPLY, INSTALLATION AND COMMISSIONING OF
220 kV TRANSMISSION LINE PROJECT OF TANAHU
HYDROPOWER PROJECT**

Volume III

Price Bid

Issued: July 2018
ICB No.: THL/03 – P3/2074/075
Employer: Tanahu Hydropower Limited
Country: Nepal

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Letter of Price Bid

-- Note --

The bidder must complete the Letter of Price Bid on its letterhead clearly showing the bidder's complete name and address.

Date:

ICB No.:

Invitation for Bid No.:

To: [. . . insert complete name of the employer . . .]

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Document, including Addenda issued in accordance with Instructions to Bidders (ITB) 8.
- (b) We offer to design, manufacture, test, deliver, install, pre-commission, and commission in conformity with the Bidding Document the following Plant and Services: [. . . 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 as follows: [. . . insert discounts and methodology for their application if any . . .]
- (e) Our Bid shall be valid for a period of [. . . insert bid validity period as specified in ITB 20.1 of the BDS . . .] days from the date fixed for the 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 have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract: ¹

Name of Recipient	Address	Reason	Amount
.....
.....

- (h) 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.
- (i) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.
- (j) We agree to permit ADB 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 ADB.

Name

In the capacity of

Signed

Duly authorized to sign the Bid for and on behalf of

Date

.....

¹ If none has been paid or is to be paid, indicate "None."

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 and Other Services
Schedule No. 5: Grand Summary
Schedule No. 6: Recommended Spare Parts
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. The units and rates in figures entered into the Price Schedules should be typewritten or if written by hand, must be in print form. Price Schedules not presented accordingly may be considered nonresponsive. 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.

Tanahu Hydropower Limited
Trade Tower, Thapathali, Kathmandu
220 kV TRANSMISSION LINE PROJECT OF TANAHU HYDROPOWER PROJECT
Price Schedule

Schedule No.1: Plant and equipment including mandatory spares to be supplied from abroad

Item No.	Item Description	Country of Origin	Estimated		Unit Price-CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding VAT and Custom Duties applicable in Nepal)			Total Price-CIP Project Site (Excluding VAT and Custom Duties applicable in Nepal)	
			Unit	Quantity	Foreign Currency		Local Currency (LC)	Foreign Currency	Local Currency
					Currency #	FC	NRS.	FC	NRS.
1	2	3	4	5	6	7	8	9=(5) x (7)	10=(5) x (8)
1	Design, fabrication & supply of following types of towers & tower extension parts complete with stubs, step bolts, hangers, D-shackles, bolts & nuts etc but excluding tower accessories such as danger plates, number plates, phase plates, anti-climbing devices.								
1.1	Suspension Tower - Type DA (3 QTY)								
a1)	Basic Tower		Nos.	3					
a2)	Stub		Nos.	12					
b)	-4.5 m Leg Extension		Nos.	2					
c)	-3 m Leg Extension		Nos.	2					
d)	-1.5 m Leg Extension		Nos.	2					
e)	+/- 0 m Leg Extension		Nos.	4					
f)	+1.5 m Leg Extension		Nos.	2					
g)	+3 m Leg Extension		Nos.	2					
h)	+4.5 m Leg Extension		Nos.	2					
i)	+6 m Leg Extension		Nos.	2					
j)	+7.5 m Leg Extension		Nos.	2					
k)	+9 m Leg Extension		Nos.	2					
l)	+18 m Leg Extension		Nos.	2					
m)	+25 m Leg Extension		Nos.	2					
1.2	Light Angle Tower - Type DB (79 QTY)								
a1)	Basic Tower		Nos.	79					
a2)	Stub		Nos.	316					
b)	-4.5 m Leg Extension		Nos.	10					
c)	-3 m Leg Extension		Nos.	16					
d)	-1.5 m Leg Extension		Nos.	32					
e)	+/- 0 m Leg Extension		Nos.	220					

Tanahu Hydropower Limited
Trade Tower, Thapathali, Kathmandu
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			Unit	Quantity	Foreign Currency		Local	Foreign	Local
					Currency #	FC	NRS.	FC	NRS.
1	2	3	4	5	6	7	8	9=(5) x (7)	10=(5) x (8)
f)	+1.5 m Leg Extension		Nos.	16					
g)	+3 m Leg Extension		Nos.	22					
h)	+4.5 m Leg Extension		Nos.	4					
i)	+6 m Leg Extension		Nos.	22					
j)	+7.5 m Leg Extension		Nos.	4					
k)	+9 m Leg Extension		Nos.	22					
1.3	Medium Angle Tower - Type DC (15 QTY)								
a1)	Basic Tower		Nos.	15					
a2)	Stub		Nos.	60					
b)	-4.5 m Leg Extension		Nos.	2					
c)	-3 m Leg Extension		Nos.	4					
d)	-1.5 m Leg Extension		Nos.	6					
e)	+/- 0 m Leg Extension		Nos.	40					
f)	+1.5 m Leg Extension		Nos.	4					
g)	+3 m Leg Extension		Nos.	4					
h)	+4.5 m Leg Extension		Nos.	4					
i)	+6 m Leg Extension		Nos.	6					
j)	+7.5 m Leg Extension		Nos.	4					
k)	+9 m Leg Extension		Nos.	4					
1.4	Heavy Angle Tower - Type DD (8 QTY)								
a1)	Basic Tower		Nos.	8					
a2)	Stub		Nos.	32					
b)	-4.5 m Leg Extension		Nos.	2					
c)	-3 m Leg Extension		Nos.	2					
d)	-1.5 m Leg Extension		Nos.	2					
e)	+/- 0 m Leg Extension		Nos.	22					
f)	+1.5 m Leg Extension		Nos.	2					

Tanahu Hydropower Limited
Trade Tower, Thapathali, Kathmandu
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Item No.	Item Description	Country of Origin	Estimated		Unit Price-CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding VAT and Custom Duties applicable in Nepal)			Total Price-CIP Project Site (Excluding VAT and Custom Duties applicable in Nepal)	
			Unit	Quantity	Foreign Currency		Local Currency (LC)	Foreign Currency	Local Currency
					Currency #	FC		FC	NRS.
1	2	3	4	5	6	7	8	9=(5) x (7)	10 = (5) x (8)
g)	+3 m Leg Extension		Nos.	2					
h)	+4.5 m Leg Extension		Nos.	2					
i)	+6 m Leg Extension		Nos.	4					
j)	+7.5 m Leg Extension		Nos.	2					
k)	+9 m Leg Extension		Nos.	2					
l)	+18 m Leg Extension		Nos.	4					
m)	+25 m Leg Extension		Nos.	4					
1.5	Heavy Angle / Dead End Tower - Type DE (3 QTY)								
a1)	Basic Tower		Nos.	3					
a2)	Stub		Nos.	12					
b)	-4.5 m Leg Extension		Nos.	2					
c)	-3 m Leg Extension		Nos.	2					
d)	-1.5 m Leg Extension		Nos.	2					
e)	+/- 0 m Leg Extension		Nos.	2					
f)	+1.5 m Leg Extension		Nos.	2					
g)	+3 m Leg Extension		Nos.	2					
h)	+4.5 m Leg Extension		Nos.	2					
i)	+6 m Leg Extension		Nos.	2					
j)	+7.5 m Leg Extension		Nos.	2					
k)	+9 m Leg Extension		Nos.	2					
l)	+18 m Leg Extension		Nos.	6					
m)	+25 m Leg Extension		Nos.	6					
2	Supply of Grounding of Towers								
i.	Pipe Type		Set	56					
ii.	Counterpoise Type		Set	52					
3	Supply of Tower Accessories								

Tanahu Hydropower Limited
Trade Tower, Thapathali, Kathmandu
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Item No.	Item Description	Country of Origin	Estimated		Unit Price-CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding VAT and Custom Duties applicable in Nepal)			Total Price-CIP Project Site (Excluding VAT and Custom Duties applicable in Nepal)	
			Unit	Quantity	Foreign Currency		Local Currency (LC)	Foreign Currency	Local Currency
					Currency #	FC	NRS.	FC	NRS.
1	2	3	4	5	6	7	8	9=(5) x (7)	10=(5) x (8)
i.	Danger Plate		Nos.	108					
ii.	Number Plate		Nos.	108					
iii.	Phase Plate (Set of three)		Set	216					
iv.	Circuit Plate(Set of two)		Set	108					
v.	Anti climbing device		Nos.	108					
vi.	Bird guard (set of three)		Set	216					
4	Supply of Line Materials								
4.1	Conductor								
	ACSR BISON Conductor BISON		km	421					
4.2	GS Earthwire								
	7/3.66mm Earthwire		km	35					
4.3	Disc Insulators								
(i)	120 kN Disc Insulator		Nos.	11,016					
(ii)	160 kN Disc Insulator		Nos.	42,840					
4.4	Hardware Fittings								
i)	Single 'I' Suspension String (Suitable for 1 x 17, 120KN Type Disc Insulators)		Set	18					
ii)	Single 'I' Suspension Pilot String (Suitable for 1 x 17, 120KN Type Disc Insulators)		Set	630					
iii)	Double Tension Insulator String (Suitable for 2 x 17, 160KN Type Disc Insulators)		Set	1,260					
4.5	Conductor and Earthwire Accessories								
i)	Mid span compression joint for ACSR Bison		Nos.	269					

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Item No.	Item Description	Country of Origin	Estimated		Unit Price-CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding VAT and Custom Duties applicable in Nepal)			Total Price-CIP Project Site (Excluding VAT and Custom Duties applicable in Nepal)	
			Unit	Quantity	Foreign Currency		Local Currency (LC)	Foreign Currency	Local Currency
					Currency #	FC	NRS.	FC	NRS.
1	2	3	4	5	6	7	8	9=(5) x (7)	10=(5) x (8)
ii)	Mid span compression joint for 7/3.66mm GS earthwire		Nos.	40					
iii)	Repair Sleeve for ACSR Bison		Nos.	80					
iv)	Flexible Copper Bond for 7/3.66mm GS Earthwire		Nos.	370					
v)	Vibration Damper for for 7/3.66mm GS Earthwire		Nos.	230					
vi)	Vibration Damper for ACSR Bison		Nos.	1,300					
vii)	Rigid Spacer for ACSR Bison		Nos.	3,200					
viii)	Bundle Spacer for ACSR Bison		Nos.	3,200					
ix)	Earthwire Tension Clamp		Nos.	230					
x)	Earthwire Suspension Clamp		Nos.	20					
4.6	Fibre Cable & Accessories								
4.6.1	OPGW Cable & Accessories								
i)	24 Fibre (DWSM) OPGW fibre optic cable		km	35					
ii)	Installation Hardware set for above 24 Fibre OPGW Fibre Optic cabling including all cable fittings & accessories.		Set	34					
iii)	Joint Box		Nos.	14					
4.6.2	FODP								
i)	FODP 48F : Indoor Type, rack mounted with FCPC coupling and pig tails (5 mtrs each).		Nos.	1					
4.6.3	Fibre Optic Approach Cable								
i)	24 Fibre (DWSM)		km	1					
ii)	Installation hardware set for above 24 Fibre, Fibre Optic Approach Cable		Set	1					
4.7	Mandatory Spares of OPGW Cabling								
4.7.1	OPGW cable & Accessories								

Tanahu Hydropower Limited
Trade Tower, Thapathali, Kathmandu
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Item No.	Item Description	Country of Origin	Estimated		Unit Price-CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding VAT and Custom Duties applicable in Nepal)			Total Price-CIP Project Site (Excluding VAT and Custom Duties applicable in Nepal)	
			Unit	Quantity	Foreign Currency		Local	Foreign	Local
					Currency #	FC	NRS.	FC	NRS.
1	2	3	4	5	6	7	8	9=(5) x (7)	10=(5) x (8)
i)	24 Fibre (DWSM) OPGW fibre optic cable		km	2					
ii)	Installation Hardware set for above 24 Fibre OPGW Fibre Optic cabling including all cable fittings & accessories.		Set	2					
iii)	Joint Box (24 fibre)		No.	2					
4.7.2	Fibre Optic Approach Cable								
i)	24 Fibre (DWSM)		km	1					
ii)	Installation hardware set for above 24 Fibre, Approach Fibre Optic Cable		Set	1					
4.8	Supply of additional galvanized steel tower parts		ton	50					
4.9	Spaere Tower Type A,B,C and D (+9 m leg extensions)								
	Tower DA+9 m leg extension		Nos	1					
	Tower DB+9 m leg extension		Nos	1					
	Tower DC+9 m leg extension		Nos	1					
	Tower DD+9 m leg extension		Nos	1					
5	Supply of following laptops and softwares								
i)	PLS-CADD with SAPS		Set	1					
ii)	PLS-TOWER		Set	1					
iii)	Laptops with latest specifications and above PLS software installed		No.	4					
TOTAL (Total of column 9 and 10 to be carried forward to Schedule No. 5: Grand Summary)									

- Notes : 1) Bidder is required to quote prices in this Schedule for all the individual items/sub-items.
- 2) The prices of equipment and materials are inclusive of providing type test certificates to the Employer except for towers. The prices for testing prototype towers abroad are to be entered in Schedule 4 (c).

Tanahu Hydropower Limited
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Schedule No.1: Plant and equipment including mandatory spares to be supplied from abroad

Item No.	Item Description	Country of Origin	Estimated		Unit Price-CIP Project Site including Insurance, clearing, forwarding and transportation to site (Excluding VAT and Custom Duties applicable in Nepal)				Total Price-CIP Project Site (Excluding VAT and Custom Duties applicable in Nepal)	
			Unit	Quantity	Foreign Currency		Local Currency (LC)	Foreign Currency	Local Currency	
					Currency #	FC	NRs.	FC	NRs.	
1			4	5	6	7	8		$9=(5) \times (7)$	$10=(5) \times (8)$
	2									
		3								

- 3) BOQ given above is indicative only based on the scope of work as given in Employer's Requirements.
The quantities mentioned above may undergo change during detailed engineering to meet the functional requirement and scope of work defined in Employer's Requirements.
- 4) Bidder is required to quote the Local currency portion for Insurance, Clearing, Forwarding and Transportation to Site.
- # Specify foreign currency in accordance with BDS ITB Clause 19.1, Volume I of the Bidding Documents.

Date:

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

Schedule No. 2: Plant and equipment including mandatory spares to be supplied from within Nepal including type test charges

LC: Local Currency									
Item No.	Item Description	Estimated		Ex Factory Price (excluding VAT)		Inland Transportation up to Site		Total Amount (excluding Taxes)	
		Unit	Quantity	Unit Rate	LC Amount	Unit Rate	LC Amount	LC	
1		3	4	5	6 = (4 x 5)	7	8 = (4 x 7)	9 = (6 + 8)	
1	Design, fabrication & supply of following types of towers & tower extension parts complete with stubs, step bolts, hangers, D-shackles, bolts & nuts etc but excluding tower accessories such as danger plates, number plates, phase plates, anti-climbing devices.								
1.1	Suspension Tower - Type DA (3 QTY)								
a1)	Basic Tower	Nos.	3						
a2)	Stub	Nos.	12						
b)	-4.5 m Leg Extension	Nos.	2						
c)	-3 m Leg Extension	Nos.	2						
d)	-1.5 m Leg Extension	Nos.	2						
e)	+/- 0 m Leg Extension	Nos.	4						
f)	+1.5 m Leg Extension	Nos.	2						
g)	+3 m Leg Extension	Nos.	2						
h)	+4.5 m Leg Extension	Nos.	2						
i)	+6 m Leg Extension	Nos.	2						
j)	+7.5 m Leg Extension	Nos.	2						
k)	+9 m Leg Extension	Nos.	2						
l)	+18 m Leg Extension	Nos.	2						
m)	+25 m Leg Extension	Nos.	2						
1.2	Light Angle Tower - Type DB (79 QTY)								
a1)	Basic Tower	Nos.	79						
a2)	Stub	Nos.	316						
b)	-4.5 m Leg Extension	Nos.	10						
c)	-3 m Leg Extension	Nos.	16						
d)	-1.5 m Leg Extension	Nos.	32						
e)	+/- 0 m Leg Extension	Nos.	220						
f)	+1.5 m Leg Extension	Nos.	16						
g)	+3 m Leg Extension	Nos.	22						
h)	+4.5 m Leg Extension	Nos.	4						
i)	+6 m Leg Extension	Nos.	22						
j)	+7.5 m Leg Extension	Nos.	4						
k)	+9 m Leg Extension	Nos.	22						

Schedule No. 2: Plant and equipment including mandatory spares to be supplied from within Nepal including type test charges

LC: Local Currency

Item No.	Item Description	Estimated		Ex Factory Price (excluding VAT)		Inland Transportation up to Site		Total Amount (excluding Taxes)
		Unit	Quantity	LC		LC		LC
				Unit Rate	Amount	Unit Rate	Amount	
1	2	3	4	5	6 = (4 x 5)	7	8 = (4 x 7)	9 = (6 + 8)
1.3	Medium Angle Tower - Type DC (15 QTY)							
a1)	Basic Tower	Nos.	15					
a2)	Stub	Nos.	60					
b)	-4.5 m Leg Extension	Nos.	2					
c)	-3 m Leg Extension	Nos.	4					
d)	-1.5 m Leg Extension	Nos.	6					
e)	+/- 0 m Leg Extension	Nos.	40					
f)	+1.5 m Leg Extension	Nos.	4					
g)	+3 m Leg Extension	Nos.	4					
h)	+4.5 m Leg Extension	Nos.	4					
i)	+6 m Leg Extension	Nos.	6					
j)	+7.5 m Leg Extension	Nos.	4					
k)	+9 m Leg Extension	Nos.	4					
1.4	Heavy Angle Tower - Type DD (8 QTY)							
a1)	Basic Tower	Nos.	8					
a2)	Stub	Nos.	32					
b)	-4.5 m Leg Extension	Nos.	2					
c)	-3 m Leg Extension	Nos.	2					
d)	-1.5 m Leg Extension	Nos.	2					
e)	+/- 0 m Leg Extension	Nos.	22					
f)	+1.5 m Leg Extension	Nos.	2					
g)	+3 m Leg Extension	Nos.	2					
h)	+4.5 m Leg Extension	Nos.	2					
i)	+6 m Leg Extension	Nos.	4					
j)	+7.5 m Leg Extension	Nos.	2					
k)	+9 m Leg Extension	Nos.	2					
l)	+18 m Leg Extension	Nos.	4					
m)	+25 m Leg Extension	Nos.	4					
1.5	Heavy Angle / Dead End Tower - Type DE (3 QTY)							
a1)	Basic Tower	Nos.	3					
a2)	Stub	Nos.	12					
b)	-4.5 m Leg Extension	Nos.	2					
c)	-3 m Leg Extension	Nos.	2					

Schedule No. 2: Plant and equipment including mandatory spares to be supplied from within Nepal including type test charges

		LC: Local Currency						
Item No.	Item Description	Estimated		Ex Factory Price (excluding VAT)		Inland Transportation up to Site		Total Amount (excluding Taxes)
		Unit	Quantity	Unit Rate	LC Amount	Unit Rate	LC Amount	LC
1	2	3	4	5	6 = (4 x 5)	7	8 = (4 x 7)	9 = (6 + 8)
d)	-1.5 m Leg Extension	Nos.	2					
e)	+/- 0 m Leg Extension	Nos.	2					
f)	+1.5 m Leg Extension	Nos.	2					
g)	+3 m Leg Extension	Nos.	2					
h)	+4.5 m Leg Extension	Nos.	2					
i)	+6 m Leg Extension	Nos.	2					
j)	+7.5 m Leg Extension	Nos.	2					
k)	+9 m Leg Extension	Nos.	2					
l)	+18 m Leg Extension	Nos.	6					
m)	+25 m Leg Extension	Nos.	6					
2	Supply of Grounding of Towers							
i.	Pipe Type	Set	56					
ii.	Counterpoise Type	Set	52					
3	Supply of Tower Accessories							
i.	Danger Plate	Nos.	108					
ii.	Number Plate	Nos.	108					
iii.	Phase Plate (Set of three)	Set	216					
iv.	Circuit Plate(Set of two)	Set	108					
v.	Anti climbing device	Nos.	108					
vi.	Bird guard (set of three)	Set	216					
4	Supply of Line Materials							
4.1	Conductor							
	ACSR BISON Conductor BISON	km	421					
4.2	GS Earthwire							
	7/3.66mm Earthwire	km	35					
4.3	Disc Insulators							
(i)	120 kN Disc Insulator	Nos.	11,016					
(ii)	160 kN Disc Insulator	Nos.	42,840					

Schedule No. 2: Plant and equipment including mandatory spares to be supplied from within Nepal including type test charges

Item No.		Item Description	Estimated		Ex Factory Price (excluding VAT)		Inland Transportation up to Site		Total Amount (excluding Taxes)
			Unit	Quantity	Unit Rate	LC		Unit Rate	LC
						Amount	Amount		
						6 = (4 x 5)			9 = (6 + 8)
1		2	3	4	5			7	
4.4	Hardware Fittings								
i)	Single "I" Suspension String (Suitable for 1 x 17, 120KN Type Disc Insulators)		Set	18					
ii)	Single "I" Suspension Pilot String (Suitable for 1 x 17, 120KN Type Disc Insulators)		Set	630					
iii)	Double Tension Insulator String (Suitable for 2 x 17, 160KN Type Disc Insulators)		Set	1,260					
4.5	Conductor and Earthwire Accessories								
i)	Mid span compression joint for ACSR Bison		Nos.	269					
ii)	Mid span compression joint for 7/3.66mm GS earthwire		Nos.	40					
iii)	Repair Sleeve for ACSR Bison		Nos.	80					
iv)	Flexible Copper Bond for 7/3.66mm GS Earthwire		Nos.	370					
v)	Vibration Damper for 7/3.66mm GS Earthwire		Nos.	230					
vi)	Vibration Damper for ACSR Bison		Nos.	1,300					
vii)	Rigid Spacer for ACSR Bison		Nos.	3,200					
viii)	Bundle Spacer for ACSR Bison		Nos.	3,200					
ix)	Earthwire Tension Clamp		Nos.	230					
x)	Earthwire Suspension Clamp		Nos.	20					
4.6	Fibre Cable & Accessories								
4.6.1	OPGW Cable & Accessories								
i)	24 Fibre (DWSM) OPGW fibre optic cable		km	35					
ii)	Installation Hardware set for above 24 Fibre OPGW Fibre Optic cabling including all cable fittings & accessories.		Set	34					
iii)	Joint Box		Nos.	14					
4.6.2	FODP								
i)	FODP 48F : Indoor Type, rack mounted with FCPC coupling and pig tails (5 mtrs each).		Nos.	1					
4.6.3	Fibre Optic Approach Cable								
i)	24 Fibre (DWSM)		km	1					
ii)	Installation hardware set for above 24 Fibre, Fibre Optic Approach Cable		Set	1					

LC: Local Currency

Schedule No. 2: Plant and equipment including mandatory spares to be supplied from within Nepal including type test charges

LC: Local Currency									
Item No.	Item Description	Estimated		Ex Factory Price (excluding VAT)		Inland Transportation up to Site		Total Amount (excluding Taxes)	
		Unit	Quantity	Unit Rate	LC Amount 6 = (4 x 5)	Unit Rate	LC Amount 8 = (4 x 7)	LC 9 = (6 + 8)	
1	2	3	4	5		7			
4.7	Mandatory Spares of OPGW Cabling								
4.7.1	OPGW cable & Accessories								
i)	24 Fibre (DW/SM) OPGW fibre optic cable	km	2						
ii)	Installation Hardware set for above 24 Fibre OPGW Fibre Optic cabling including all cable fittings & accessories.	Set	2						
iii)	Joint Box (24 fibre)	No.	2						
4.7.2	Fibre Optic Approach Cable								
i)	24 Fibre (DW/SM)	km	1						
ii)	Installation hardware set for above 24 Fibre, Approach Fibre Optic Cable	Set	1						
4.8	Supply of additional galvanized steel tower parts	ton	50						
4.9	Spare Tower Type A,B,C and D (+9 m leg extensions)								
	Tower DA+9 m leg extension	Nos	1						
	Tower DB+9 m leg extension	Nos	1						
	Tower DC+9 m leg extension	Nos	1						
	Tower DD+9 m leg extension	Nos	1						
5	Supply of following laptops and softwares								
i)	PLS-CADD with SAPS	Set	1						
ii)	PLS-TOWER	Set	1						
iii)	Laptops with latest specifications and above PLS software installed	No.	4						
TOTAL (Total of column 9 to be carried forward to Schedule No. 5: Grand Summary)									

Note : 1) Bidder is required to quote prices in this Schedule for all the individual items/sub-items.

2) The prices of equipment and materials are inclusive of providing type test certificates to the Employer except for towers. The prices for testing prototype towers abroad are to be entered in Schedule 4 (c).

3) BOQ given above is indicative only based on the scope of work as given in Employer's Requirements. The quantities mentioned above may undergo change during detailed engineering to meet the functional requirements and scope of work defined in Employer's Requirements.

Schedule No. 2: Plant and equipment including mandatory spares to be supplied from within Nepal including type test charges

LC: Local Currency								
Item No.	Item Description	Estimated		Ex Factory Price (excluding VAT)		Inland Transportation up to Site		Total Amount (excluding Taxes)
				LC				
		Unit	Quantity	Unit Rate	Amount	Unit Rate	Amount	LC
		3	4	5	6 = (4 x 5)	7	8 = (4 x 7)	9 = (6 + 8)
1	2	3	4	5	6 = (4 x 5)	7	8 = (4 x 7)	9 = (6 + 8)

4) For bought out items, all applicable taxes, duties and levies except Octroi/ Entry tax are to be included in the Ex-Factory price

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

Date:

Tanahu Hydropower Limited
Trade Tower, Thapathali, Kathmandu
220 KV TRANSMISSION LINE PROJECT OF TANAHU HYDROPOWER PROJECT
Price Schedule

Schedule 3: Design services

Item No.	Item Description	Estimated		Unit Prices			Total Prices	
				LC Portion	FC Portion	FC	LC Portion	FC Portion
		Quantity	Unit	LC	Currency #	FC	NRS.	FC
1	2	3	4	5	6	7	8=(3) x (5)	9=(3) x (7)
1	Tower Type DA, DB, DC, DD, DE	1	Lot					
Total (Total of columns 8 and 9 to be carried forward to Schedule No. 5: Grand Summary)								

Specify foreign currency in accordance with BDS ITB Clause 19.1, Volume I of the Bidding Documents.

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

Date:

Tanahu Hydropower Limited
Trade Tower, Thapathali, Kathmandu
220 kV TRANSMISSION LINE PROJECT OF TANAHU HYDROPOWER PROJECT
Price Schedule

Schedule No. 4: Installation and other services								
(a): Installation and construction charges								
LC: Local Currency								
FC: Foreign Currency #								
Installation Charges								
Item No.	Item Description	Unit	Quantity	FC			LC	
				Currency #	Unit Rate	Total Charges	Unit Rate (NRS.)	Total Charges (NRS.)
(1)	(2)	(4)	(5)	(6)	(7)	(8)=(5) X (7)	(9)	(10)=(5) X (9)
1	Survey							
i)	Detailed survey including route alignment, profiling, tower spotting	km	33.40					
ii)	Check Survey including tower spotting	km	33.40					
2	Detailed Soil Investigation							
i)	All type of soil except FR & HR	Loc.	20					
ii)	Fissured rock	Loc.	14					
iii)	Hard rock	Loc.	6					
3	Benching							
i)	All type of soil except FR & HR	Cum.	10,000.00					
ii)	Fissured Rock	Cum.	4,300.00					
iii)	Hard Rock	Cum.	2,000.00					
4	Work associated with Tower Foundations.							
4.1	Foundation including excavation backfilling, dewatering, shoring gravel packing, form works, concrete, rebar etc. as per specification							
i	Foundation for Tower type "DA" (3 nos.)							
a	Foundation type I	nos.	1					
b	Foundation type IV	nos.	1					
c	Foundation type V	nos.	1					
ii	Foundation for Tower type "DB" (79 nos.)							
a	Foundation type I	nos.	15					
b	Foundation type II	nos.	16					
c	Foundation type III	nos.	18					
d	Foundation type IV	nos.	27					

Item No.	Item Description	Unit	Quantity	FC			LC	
				Currency #	Unit Rate	Total Charges	Unit Rate (NRs.)	Total Charges (NRs.)
(1)	(2)	(4)	(5)	(6)	(7)	(8)=(5) X (7)	(9)	(10)=(5) X (9)
e	Foundation type V	nos.	3					
iii	Foundation for Tower type "DC" (15 nos.)							
a	Foundation type I	nos.	2					
b	Foundation type II	nos.	2					
c	Foundation type III	nos.	3					
d	Foundation type IV	nos.	6					
e	Foundation type V	nos.	2					
iv	Foundation for Tower type "DD" (8 nos.)							
a	Foundation type I	nos.	2					
b	Foundation type II	nos.	2					
c	Foundation type III	nos.	2					
d	Foundation type IV	nos.	1					
e	Foundation type V	nos.	1					
iv	Foundation for Tower type "DE" (3 nos.)							
a	Foundation type I	nos.	1					
b	Foundation type IV	nos.	1					
c	Foundation type V	nos.	1					
5	Erection of following types of towers & tower extension parts complete with stubs, step bolts, hangers, D-shackles, bolts & nuts etc, tack welding and supply and application of enamel & zinc rich paint but excluding tower accessories such as danger plates, number plates, phase plates, anti-climbing devices							
5.1	Suspension Tower DA	Nos.	3					
5.2	Light Angle Tower DB	Nos.	79					
5.3	Medium Tower DC	Nos.	15					
5.4	Heavy Angle Tower DD	Nos.	8					
5.5	Heavy Angle / Dead End Tower DE including body extensions	Nos.	3					
6	Installation of Earthing of towers							
i.	Pipe Type	Sets	56					
ii.	Counterpoise Type	Sets	52					
7	Installation of following tower accessories							
i.	Danger Plate	Nos.	108					
ii.	Number Plate	Nos.	108					
iii.	Phase Plate (Set of three)	Sets	216					
iv.	Circuit Plate(Set of two)	Sets	108					

Item No.	Item Description	Unit	Quantity	FC			LC	
				Currency #	Unit Rate	Total Charges	Unit Rate (NRs.)	Total Charges (NRs.)
(1)	(2)	(4)	(5)	(6)	(7)	(8)=(5) X (7)	(9)	(10)=(5) X (9)
v.	Anti climbing device	Nos.	108					
vi.	Bird Guard(set of three)	Sets	216					
8	Protection of Tower Foundation							
i)	Stone Masonry: Random rubble stone masonry (1:3 cement concrete)	m ³	3,000.00					
ii)	Gabion Wall: Stone bound in galvanising wire netting	m ³	4,200.00					
iii)	Excavation works for all types of soil	m ³	2,000.00					
iv)	Excavation works for all types of rock	m ³	2,000.00					
v)	Back filling and levelling of volumes enclosed by revetment	m ³	2,000.00					
vi)	M10 Concrete, Nominal Mix 1:3:5	m ³	500.00					
vii)	M15 Concrete, nominal Mix 1:2:4	m ³	350.00					
ix)	M20 Concrete, nominal Mix 1:1.5:3	m ³	300.00					
x)	Reinforcement bar	kg	40,000.00					
9	Installation of insulator strings complete with arcing horns/corona rings & necessary hardware, installing of bundle conductor (ACSR Bison) including fixing of conductor accessories, installing & stringing of earthwire including fixing of earthwire accessories (Twin bundle Conductor) in Double Ckt Line.							
(i)	Normal Stretch (Double Ckt. Portion)	km	34					
10	Optical Fibre Cabling							
A.	OPGW cable & Accessories							
(a)	24 Fibre (DWDM) OPGW fibre optic cable	km	35					
(b)	Installation Hardware set for above 24 Fibre OPGW Fibre Optic cabling including all cable fittings &	Sets	34					
(c)	Joint box (24 Fibres)	No.	14					
B.	FODP							
(a)	FODP 48F : Indoor Type, rack mounted with FCPC coupling and pig tails	No.	1					
C.	Fibre Optic approach cable							
(a)	24 Fibre (DWDM)	km	1					
(b)	Installation hardware set for above 24 Fibre, Fibre Optic Approach Cable	Sets	1					
	TOTAL INSTALLATION SERVICES (Total of column 8 and 10 to be carried forward to Schedule No. 5: Grand Summary)							

Notes

1) BOQ given above is indicative only based on the scope of work as given in Employer's Requirements. The quantities mentioned above may undergo change during detailed engineering to meet the functional requirement and scope of work defined in Employer's Requirements.

Item No.	Item Description	Unit	Quantity	FC			LC	
				Currency #	Unit Rate	Total Charges	Unit Rate (NRs.)	Total Charges (NRs.)
(1)	(2)	(4)	(5)	(6)	(7)	(8)=(5) X (7)	(9)	(10)=(5) X (9)

Specify foreign currency in accordance with BDS ITB Clause 19.1, Volume I of the Bidding

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

Tanahu Hydropower Limited
Trade Tower, Thapathali, Kathmandu
220 kV TRANSMISSION LINE PROJECT OF TANAHU HYDROPOWER PROJECT
Price Schedule

Schedule No. 4: Installation and other services

(b): Training charges for training to be imparted abroad

Item No.	Description	Item for which training is to be imparted.	Country where training is to be imparted	No. of Trainees	Training duration (days)	Total Training Charges (in Foreign Currency)		
						Currency #	Unit Price	Total Price
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)
1.1	Training to Employer's personnel on use & application of the software	i) EHV Transmission Line Design using PLS CADD: ii) EHV Transmission Tower Design using PLS-Tower:		5	10 days			
Total for Training Charges (Total of column 7 to be carried forward to Schedule No. 5: Grand Summary)								

Specify foreign currency in accordance with BDS ITB Clause 19.1, Volume I of the Bidding Documents.

Date:

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

Tanahu Hydropower Limited
Trade Tower, Thapathali, Kathmandu

220 kV TRANSMISSION LINE PROJECT OF TANAHU HYDROPOWER PROJECT
Price Schedule

Schedule No. 4: Installation and other services

(c): Tower Prototype testing to be conducted abroad

[illegible]

Specify foreign currency in accordance with BDS ITB Clause 19.1, Volume I of the Bidding Documents.

Name of Bidder:

Date:

Signature of Bidder:

(Printed Name)

(Designation)

(Common Seal)

Tanahu Hydropower Limited
Trade Tower, Thapathali, Kathmandu
220 kV TRANSMISSION LINE PROJECT OF TANAHU HYDROPOWER PROJECT
Price Schedule

Schedule No. 5: Grand Summary			LC: Local Currency	FC: Foreign Currency
			Total Price Foreign (FC)	Total Price Local (LC)
1	TOTAL SCHEDULE NO. 1			
	Plant and equipment including mandatory spares to be supplied from abroad.			
2	TOTAL SCHEDULE NO. 2			
	Plant and equipment including mandatory spares parts to be supplied from within Nepal			
3	TOTAL SCHEDULE NO. 3			
	Design services			
4	TOTAL SCHEDULE NO. 4			
	(a) Installation and construction charges			
	(b) Training charges for training to be imparted abroad			
	(c) Tower Prototype testing to be conducted abroad			
	GRAND TOTAL (SCHEDULES 1 TO 4)			

Name of Bidder:

Date

Signature of Bidder:

(Printed Name)

(Designation)

(Common Seal)

Tanahu Hydropower Limited
Trade Tower, Thapathali, Kathmandu
220 kV TRANSMISSION LINE PROJECT OF TANAHU HYDROPOWER PROJECT
Price Schedule

Schedule No. 6: Recommended Spares Parts and Recommended Test Equipment (Optional)

[illegible]

Specify foreign currency in accordance with BDS ITB Clause 19.1, Volume I of the Bidding Documents.

Name of Bidder:

Date:

Signature of Bidder:

(Printed Name)

(Designation)

(Common Seal)

Tanahu Hydropower Limited
Trade Tower, Thapathali, Kathmandu
220 kV TRANSMISSION LINE PROJECT OF TANAHU HYDROPOWER PROJECT
Price Schedule

Breakdown of Foundation Volumes/Weight / Rate

Currency -

S. N.	Item Description	Volume / Weight					Unit Rate					Total Rate Quoted
		Excavation (cu.m)	Concrete M10 (cu.m.)	Concrete M15 (cu.m.)	Concrete M20 (cu.m.)	Rein.Steel (MT)	Excavation (per cu.m)	Concrete M10 (per cu.m.)	Concrete M15 (per cu.m.)	Concrete M20 (per cu.m.)	Rein.Steel (per MT)	
4.1	Foundation including excavation backfilling, dewatering, shoring, gravel packing, form works, concrete, rebar etc. as per specification (enter quantity and rate for one number for each type of foundation)											
i	Foundation for Tower type "DA"											
a	Foundation type I											
b	Foundation type IV											
c	Foundation type V											
ii	Foundation for Tower type "DB"											
a	Foundation type I											
b	Foundation type II											
c	Foundation type III											
d	Foundation type IV											
e	Foundation type V											
iii	Foundation for Tower type "DC"											
a	Foundation type I											
b	Foundation type II											
c	Foundation type III											
d	Foundation type IV											
e	Foundation type V											
iv	Foundation for Tower type "DD"											
a	Foundation type I											
b	Foundation type II											
c	Foundation type III											
d	Foundation type IV											
e	Foundation type V											
iv	Foundation for Tower type "DE"											
a	Foundation type I											
b	Foundation type IV											
c	Foundation type V											

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

Date:

Tables of Adjustment Data

Table A - Local Currency

To be entered by the bidder

Index Code	Index Description	Source of Index	Base Value and Date	Bidder's Local Currency Amount	Bidder's Proposed Weighting
a.	Nonadjustable	---	---	---	a: <u>0.15</u>
b.	Labour				b: _____
c.	Material				c: _____
Total					1.00

Table B - Foreign Currency

Name of Currency: _____

Insert name of currency. If the Bidder wishes to quote in more than one foreign currency, but in no case more than three, this table should be repeated for each foreign currency.

To be entered by the bidder

Index Code	Index Description	Source of Index	Base Value and Date	Bidder's Currency in Type/Amount	Equivalent in FC1	Bidder's Proposed Weighting
a.	Nonadjustable	---	---	---		a: <u>0.15</u>
b.	Labour					b: _____
c.	Material					c: _____
Total						1.00

- Note -

The base date shall be the date 28 days prior to the deadline for submission of the bid.

Tables of Adjustment Data shall only be included if prices are to be quoted as adjustable prices in accordance with ITB 18.6.