

NEPAL ELECTRICITY AUTHORITY

(An Undertaking of Government of Nepal)
Distribution and Consumer Services, East
PLANNING AND TECHNICAL SERVICE DEPARTMENT



ENERGY ACCESS AND EFFICIENCY IMPROVEMENT PROJECT
ADB Loan No.-2587 NEP (SF)

KATHMANDU VALLEY & BIRGUNJ-SIMRA CORRIDOR DISTRIBUTION SYSTEM
REINFORCEMENT AND LOSS REDUCTION PROJECT

DRAFT BIDDING DOCUMENT
FOR
SUPPLY AND DELIVERY OF VARIOUS LINE MATERIALS AND
CONSTRUCTION OF LINES (Package D3)

Procurement of Plant
(Design, Supply and Install)
Single-Stage, Two-Envelope Bidding Procedure

Price Proposal
(Volume III of III)

Issued on:
Invitation for Bids No.: 068/069-03
ICB No.: DSRLRP-068/069-03
Purchaser: Nepal Electricity Authority
Country: Nepal

**This copy is for information only. Bidders shall base their bids
on the hard copy to be purchased from the Project Office.**

January 2013

**Kathmandu Valley & Birgunj-Simra Corridor Distribution System Reinforcement
and Loss Reduction Project**
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Section 1 - Bidding Forms

This Section contains the forms which are to be completed by the Bidder and submitted as part of his Bid.

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Letter of Price Bid

[Bidder's Letterhead]

Date:

ICB No.:

Invitation for Bid No.:

To:

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, precommission and commission in conformity with the Bidding Document the following Plant and Services:
- (c) The total price of our Bid, excluding any discounts offered in item (d) below is the sum of:
- (d) The discounts offered and the methodology for their application are:
- (e) Our bid shall be valid for a period of 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: *

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; and

- (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 the Bank.

Name

In the capacity of

Signed

Duly authorized to sign the Bid for and on behalf of

Date

** 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 (including Mandatory Spare Parts) Supplied from Abroad
 - Schedule No. 2: Plant (including 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. 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

Item	Description	Country of Origin	Unit	Qty.	Unit Price ¹		Total Price ¹		Taxes and Duties	
					Foreign Currency	CIF or CIP	Foreign Currency	Local Currency		
1	2	3	4	5	6	7	8 = 5 x 7	9		
1)	Steel Tubular Poles									
a)	11m Steel Tubular Poles		nos.	882						
b)	9m Steel Tubular Poles		nos	2022						
2)	PSC Poles									
a)	11m PSC Poles		nos	674						
b)	9m PSC Poles		nos	2221						
3)	Insulators and Hardware									
a)	11 kV Disc Insulator		set	1,736						
b)	11 kV Pin Insulator with Spindle		set	3,836						
c)	Tension Set and Assemblies for 11 kV Disc Insulator		set	1,736						
d)	HT Stay Insulator (11 kV)		nos	1493						
4)	Stay, Fasteners and Connectors									
a)	Stay Set									
i)	16 mm dia		set	1,230						
ii)	19 mm dia		set	263						
b)	Stay Wire									
i)	7/2.6 mm		m	14,756						
ii)	7/4 mm		m	3,159						
c)	Preformed Wire for Stay Set									
i)	Suitable For 7/2.6 mm		nos	4,919						
ii)	Suitable For 7/4 mm		nos	1,053						
d)	Clamps For Stay Set									
i)	Type (TC6) for HT Stay		set	527						
ii)	Type (TC8) for LV Stay		set	2,459						
e)	Twisted Double Eye For Stay Set		nos	1,493						
f)	Bolts With Suitable Nuts and Washers									
i)	13x51 mm		set	1,670						
ii)	16x203 mm		set	66						
iii)	16x305 mm		set	361						

g)	Double Arming Bolts With Suitable Nuts and Washers						
i)	16x305 mm	set	257				
h)	Earthing Sets (16mm Copper Clad)	set	266				
5)	Crossarms and Platforms						
a)	Crossarm Channels						
i)	100x50x6.4x5x300 mm	nos	414				
ii)	100x50x6.4x5x1200 mm	nos	414				
iii)	100x50x6.4x5x2348 mm	nos	139				
iv)	100x50x6.4x5x2390 mm	nos	39				
b)	Crossarm Brace						
	Flat Cross-arm Brace						
i)	40x 6x 660 mm	nos	827				
	H-Pole Bracing Angle						
i)	40 x 40 x 5 x 2071 mm	nos	39				
ii)	40 x 40 x 5 x 2719 mm	nos	39				
	Strap for Insulator String						
i)	50x6x396 mm	nos	57				
c)	Transformer Platform Complete						
i)	Steel Tubular Pole Structure	nos	79				
ii)	PSC Pole Structure	nos	45				
d)	Pole Clamps Complete With Nuts Bolts and Washers :-						
	Semi-Circular						
i)	Type (TC ₁) for top cross arm	set	241				
ii)	Type (TC ₂) for main cross arm	set	241				
iii)	Type (TC ₄) for top H bracing	set	33				
iv)	Type (TC ₅) for bottom H bracing	set	33				
	Rectangle						
i)	Type (PC ₁) for top cross arm	set	44				
ii)	Type (PC ₂) for main cross arm	set	44				
iii)	Type (PC ₄) for top H bracing	set	6				
iv)	Type (PC ₅) for bottom H bracing	set	6				
6)	Switches, Cutouts, Lightning Arrester and Panel board						
a)	Switches, Cutouts and Lightning Arrester						

b)	i) Air Load Break Switch (11 kV)		set	44				
	ii) DO Fuse Set (11 kV)		set	462				
	iii) Lightning Arrester (9 kV)		set	462				
	iv) Fuse links							
	5 A		nos	342				
	10 A		nos	696				
	15 A		nos	348				
	MCCBs and Panel board							
	<u>Panel Boards</u>							
	i) 1 Main150A + 2 Sub 100A		Set	114				
	ii) 1 Main 300A + 2 Sub 150A		Set	232				
	iii) 1 Main 500A + 2 Sub 250A		Set	116				
	<u>MCCBs</u>							
	i) 100A		Nos	228				
	ii) 150A		Nos	578				
iii) 250A		Nos	232					
iv) 300 A		Nos	232					
v) 500 A		Nos	116					
TOTAL Column 7 to be carried forward to Schedule No. 5. Grand Summary								

Name of Bidder _____

Signature of Bidder _____

¹ Specify currencies in accordance with ITB 32. Create additional columns for foreign currencies up to a maximum number of 3 foreign currencies if so required.

Country of Origin Declaration Form

Item	Description	Country

Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's Country

Item	Description	Unit	Qty	EXW Unit Price ¹	Total EXW Price ¹	Sales Tax	Total Price
1	2	3	4	5	6 = 4 x 5	7	8 = 6 + 7
1)	Steel Tubular Poles						
a)	11m Steel Tubular Poles	nos.	882				
b)	9m Steel Tubular Poles	nos	2022				
2)	PSC Poles						
a)	11m PSC Poles	nos	674				
b)	9m PSC Poles	nos	2221				
3)	Insulators and Hardware						
a)	11 kV Disc Insulator	set	1,736				
b)	11 kV Pin Insulator with Spindle	set	3,836				
c)	Tension Set and Assemblies for 11 kV Disc Insulator	set	1,736				
d)	HT Stay Insulator (11 kV)	nos	1493				
4)	Stay, Fasteners and Connectors						
a)	Stay Set						
i)	16 mm dia	set	1,230				
ii)	19 mm dia	set	263				
b)	Stay Wire						
i)	7/2.6 mm	m	14,756				
ii)	7/4 mm	m	3,159				
c)	Preformed Wire for Stay Set						
i)	Suitable For 7/2.6 mm	nos	4,919				
ii)	Suitable For 7/4 mm	nos	1,053				
d)	Clamps For Stay Set						
i)	Type (TC6) for HT Stay	set	527				
ii)	Type (TC8) for LV Stay	set	2,459				
e)	Twisted Double Eye For Stay Set	nos	1,493				
f)	Bolts With Suitable Nuts and Washers						
i)	13x51 mm	set	1,670				
ii)	16x203 mm	set	66				
iii)	16x305 mm	set	361				
g)	Double Arming Bolts With Suitable Nuts and Washers						

i)	16x305 mm	set	257				
h)	Earthing Sets (16mm Copper Clad)	set	266				
5)	Crossarms and Platforms						
a)	Crossarm Channels						
i)	100x50x6.4x5x300 mm	nos	414				
ii)	100x50x6.4x5x1200 mm	nos	414				
iii)	100x50x6.4x5x2348 mm	nos	139				
iv)	100x50x6.4x5x2390 mm	nos	39				
b)	Crossarm Brace						
	Flat Cross-arm Brace						
i)	40x 6x 660 mm	nos	827				
	H-Pole Bracing Angle						
i)	40 x 40 x 5 x 2071 mm	nos	39				
ii)	40 x 40 x 5 x 2719 mm	nos	39				
	Strap for Insulator String						
i)	50x6x396 mm	nos	57				
c)	Transformer Platform Complete						
i)	Steel Tubular Pole Structure	nos	79				
ii)	PSC Pole Structure	nos	45				
d)	Pole Clamps Complete With Nuts Bolts and Washers :-						
	Semi-Circular						
i)	Type (TC ₁) for top cross arm	set	241				
ii)	Type (TC ₂) for main cross arm	set	241				
iii)	Type (TC ₄) for top H bracing	set	33				
iv)	Type (TC ₅) for bottom H bracing	set	33				
	Rectangle						
i)	Type (PC ₁) for top cross arm	set	44				
ii)	Type (PC ₂) for main cross arm	set	44				
iii)	Type (PC ₄) for top H bracing	set	6				
iv)	Type (PC ₅) for bottom H bracing	set	6				
6)	Switches, Cutouts, Lightning Arrester and Panel board						
a)	Switches, Cutouts and Lightning Arrester						
i)	Air Load Break Switch (11 kV)	set	44				
ii)	DO Fuse Set (11 kV)	set	462				
iii)	Lightning Arrester (9 kV)	set	462				

iv)	Fuse links						
	5 A	nos	342				
	10 A	nos	696				
	15 A	nos	348				
b)	<u>Panel Boards</u>						
	i) 1 Main150A + 2 Sub 100A	Set	114				
	ii) 1 Main 300A + 2 Sub 150A	Set	232				
	iii) 1 Main 500A + 2 Sub 250A	Set	116				
	<u>MCCBs</u>						
	i) 100A	Nos	228				
	ii) 150A	Nos	578				
	iii) 250A	Nos	232				
	iv) 300 A	Nos	232				
	v) 500 A	Nos	116				
TOTAL Column 5 to be carried forward to Schedule No. 5. Grand Summary							

Name of Bidder

Signature of Bidder

¹ *Specify currency in accordance with ITB 32.*

Schedule No. 3 - Design Services

Item	Description	Unit	Qty.	Unit Price ¹		Total Price ¹	
				Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
1.	Pre Construction Survey for HV/LV Lines	Km	650				
2.	Testing, commissioning and preparation of as built drawing for HV/LV Lines	Km	650				
TOTAL Columns 6 and 7 to be carried forward to Schedule No. 5. Grand Summary							

Name of Bidder _____

Signature of Bidder _____

¹ *Specify currency in accordance with ITB 32.*

Schedule No. 4 - Installation and Other Services

Item	Description	Unit	Qty.	Unit Price ¹		Total Price ¹	
				Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
1	Erection of steel tubular pole For 11 kV Line (11m pole) including transportation of required materials from site store to erection site, excavation, up holding the pole, backfilling, ramming, installation of clamp, channel etc. all complete as per drawing , specification and instruction.	sets.	882				
2	Erection of Pre-stressed concrete pole For 11 kV Line, 11m pole including transportation of required materials from site store to erection site, excavation, up holding the pole, backfilling, ramming, fixing clamps, channel etc. all complete as per drawing , specification and instruction.	sets.	674				
3	Stay set installation in 11kV line (Include double stay and flying stay) Includes transportation of materials from site store to the working site, Digging, Erection of stay set, back filling of soil and ramming properly, Installation of stay wire, stay Insulator & other accessories complete as per drawing, specification and instruction.	sets.	263				
4	Stringing of 120 sq.mm. insulated covered conductor to the pole with proper tension in the 11kV transmission line including transportation to site store using all necessary materials. Erection of necessary materials in the pole and laying of conductor, stringing, fixing insulator, tying, jointing binding etc. use temporary stay all complete as per drawing, specification and office instruction for 3 wire/km.	kms.	214				
5	Laying of 11kV XLPE cable Includes transportation of materials from site store to the working site, Digging, Erection of suitable quality Polythene pipe, back filling of soil and ramming properly. Erection of necessary materials in the trench and laying of cable, stringing, fixing , tying, jointing etc. use temporary stay all complete as per drawing, specification and office instruction. The price includes supply of suitable size of HDPE conduit pipe for XLPE cable.	kms.	35				
6	XLPE Cable Head joint set / straight joint set installation in 11kV cable Includes transportation of materials from site store to the working site, Erection of Cable Head joint set/straight joint set back filling of soil and ramming properly, complete as per drawing ,specification and instruction.	sets.	287				
7	Installation of Load Break Switch pole mounted in 11kV line including fitting suitable channel nut bolt clamp operating handle earthing, testing, commissioning all complete according	sets.	44				

	to Site Engineer .						
8	Installation of 11/0.4kV distribution transformer pole mounted [100 kVA-200 kVA] including fitting D.O. fuse ,lighting arrester; MCCB panel board; L.V. cable; connection; fixing of two set earthing; testing; commissioning all complete according to Engineer per single set	sets.	347				
9	Installation of 11/0.4kV distribution transformer pole mounted [300kVA] including fitting D.O. fuse , lighting arrester ;MCCB panel board; L.V. cable; connection; fixing of two set earthing; testing; commissioning all complete according to Engineer per single set	sets.	116				
10	Dismantling of 11 kV Steel Poles (Works includes dismantling and carry back to office safely .)	sets.	793				
11	Dismantling of 11 kV PSC Poles (Works includes dismantling and carry back to office safely.)	sets.	607				
12	Dismantling of ACSR Conductor used for HT Lines (Works includes dismantling, packing and carry back to office safely.)	kms.	224				
13	Dismantling of Distribution Transformer and accessories (Works includes dismantling and carry back to office safely.)	sets.	416				
14	Erection of 9m steel tubular pole for 0.4 kV Line pole including transportation of required materials from site store to erection site, excavation, up holding the pole, backfilling, ramming, installation of clamp etc. all complete as per drawing, specification and instruction.	sets.	2,022				
15	Erection of 9m Pre-stressed concrete pole for 0.4 kV Line, pole including transportation of required materials from site store to erection site, excavation, up holding the pole, backfilling, ramming, installation of clamp, channel etc. all complete as per drawing ,specification and instruction	sets.	2,221				
16	Stay set installation in 0.4kV line (Includes transportation of materials from site store to the working site, Digging, Erection of stay set, back filling of soil and ramming properly, Installation of stay wire, stay Insulator & other accessories complete as per drawing ,specification and instruction.	sets.	1,230				
17	Stringing of (4 x 95mm ² + 1 x 16mm ²) ABC cable to the pole with proper tension in the 0.4kv Distribution line including transportation site store to using site all necessary materials. Erection of necessary materials in the pole and laying of cable, stringing, fixing , tying, jointing binding etc. use temporary stay all complete as per drawing, specification and office instruction	kms.	401				
18	Dismantling of LV Steel Poles (Works includes dismantling and carry back to office safely .)	sets.	1,820				
19	Dismantling of LV PSC Poles (Works includes dismantling and carry back to office safely.)	sets.	1,999				

20	Dismantling of ACSR Conductor in LV Lines (Works includes dismantling, packing as required and carry back to office safely.)	kms.	361					
TOTAL Columns 6 and 7 to be carried forward to Schedule No. 5. Grand Summary								

Name of Bidder

Signature of Bidder

¹ *Specify currency in accordance with ITB 32.*

Schedule No. 5 - Grand Summary

Schedule No.	Title	Total ¹	
		Foreign	Local
1	Plant and Mandatory Spare Parts Supplied from Abroad		
2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
3	Design Services		
4	Installation and Other Services		
GRAND TOTAL to be carried forward to Letter of Bid			

Name of Bidder _____

Signature of Bidder _____

¹ Specify currency in accordance with ITB 32. Create additional columns for foreign currency up to a maximum number of foreign currencies if so required.

Schedule No. 6 - Recommended Spare Parts

Item	Description	Qty	Unit Price ¹		Total Price ¹	
			EXW Local Parts Local Currency	CIF or CIP Imported Parts Foreign Currency	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
TOTAL						

Name of Bidder _____

Signature of Bidder _____

¹ *Specify currency in accordance with ITB 32.*