

NEPAL ELECTRICITY AUTHORITY

(An Undertaking of Government of Nepal)

PROJECT MANAGEMENT DIRECTORATE



Electricity Transmission Expansion and Supply Improvement Project

TAMAKOSHI – KATHMANDU 220/400 KV TRANSMISSION LINE PROJECT

BIDDING DOCUMENT FOR

Procurement of Plant for New Khimti- Barhabise 220/400 kV Transmission Line
(Design, Supply and Install)

Single-Stage, Two-Envelope
Bidding Procedure

Issued on:
Invitation for Bids No.: ICB-PMD-TKTLP-075/76 – 01-R
ICB No.: ICB-PMD-TKTLP-075/76 – 01-R
Employer: Nepal Electricity Authority
Country: Nepal

VOLUME –III OF III

December 2018

Tamakoshi-Kathmandu 220/400 kV Transmission Line Project
Transmission Directorate, NEA Training Center Complex
Kharipati, Bhaktapur, Nepal

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Item No.	Item description	Country of origin	Estimated		CIP (site) including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal)			Total Amount (Excluding Taxes and Duties)	Custom, VAT and other taxes
			Quantity	Unit	FC			FC	LC
					Currency	Unit Rate	Amount		
1	2	3	4	5	6	7	8 = (7) x (4)	9=8	10
5	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								
5.1	Tension Tower DBH								
5.1.1	Basic tower		5	Nos.					
5.1.2	+/- 0 m Leg Extension		18	Nos.					
5.1.3	+1.5 m Leg Extension		1	Nos.					
5.1.4	+3 m Leg Extension		1	Nos.					
5.1.5	+4.5 m Leg Extension		1	Nos.					
5.1.6	+6 m Leg Extension		4	Nos.					
5.1.7	+7.5 m Leg Extension		4	Nos.					
5.1.8	+9 m Leg Extension		9	Nos.					
5.2	Tension Tower DDH								
5.2.1	Basic tower		11	Nos.					
5.2.2	-3 m Leg Extension		1	Nos.					
5.2.3	+/- 0 m Leg Extension		41	Nos.					
5.2.4	+1.5 m Leg Extension		1	Nos.					
5.2.5	+3 m Leg Extension		1	Nos.					
5.2.6	+4.5 m Leg Extension		3	Nos.					
5.2.7	+6 m Leg Extension		2	Nos.					
5.2.8	+7.5 m Leg Extension		2	Nos.					
5.2.9	+9 m Leg Extension		9	Nos.					
5.2.10	+16.5 m Leg Extension		1	Nos.					
5.2.10	+18 m Leg Extension		10	Nos.					
5.2.10	+19.5 m Leg Extension		1	Nos.					
5.2.10	+23.5 m Leg Extension		1	Nos.					

Item No.	Item description	Country of origin	Estimated		CIP (site) including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal)			Total Amount (Excluding Taxes and Duties)	Custom, VAT and other taxes
			Quantity	Unit	FC			FC	LC
					Currency	Unit Rate	Amount		
1	2	3	4	5	6	7	8 = (7) x (4)	9=8	10
5.2.11	+25 m Leg Extension		11	Nos.					
3	Supply of Earthing of towers								
3.1	Pipe Type		50	Nos.					
3.2	Counterpoise Type		64	Nos.					
4	Supply of following tower accessories								
4.1	Danger Plate		114	Nos.					
4.2	Number Plate		114	Nos.					
4.3	Phase Plate (Set of three)		228	Sets					
4.4	Circuit Plate(Set of two)		114	Sets					
4.5	Anti climbing device		114	Nos.					
4.6	Bird Guard (set of three)		22	Sets					
5	Supply of following Line Materials								
5.1	Conductor								
5.1.1	ACSR MOOSE Conductor		1072	KM					
5.2	GS Earthwire								
5.2.1	7/3.66mm Earthwire		45	KM					
5.3	Insulators								
5.3.1	120kN Composite Long Rod Insulator		401	Nos					
5.3.2	160kN Composite Long Rod Insulator		4996	Nos					
5.4	Hardware Fittings								
5.4.1	Double Suspension T Insulator String (Suitable for 2x1, 120 KN Type Composite Long Rod Insulator)		67	Sets					

Item No.	Item description	Country of origin	Estimated		CIP (site) including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal)			Total Amount (Excluding Taxes and Duties)	Custom, VAT and other taxes
			Quantity	Unit	FC			FC	LC
					Currency	Unit Rate	Amount		
1	2	3	4	5	6	7	8 = (7) x (4)	9=8	10
5.4.2	Single Suspension Pilot Insulator String (suitable for 1x1, 120 KN Type Composite Long Rod Insulator)		267	Sets					
5.4.3	Quadruple Tension Insulator String (suitable for 4x1, 160 KN Type Composite Long Rod Insulator)		1249	Sets					
5.5	Conductor and Earthwire Accessories								
5.5.1	Mid span compression joint		662	Nos					
5.5.2	Mid span compression joint for 7/3.66mm GS earthwire		25	Nos					
5.5.3	Repair Sleeve for ACSR Moose Conductor		199	Nos					
5.5.4	Flexible Copper Bond for 7/3.66mm GS Earthwire		424	Nos					
5.5.5	Vibration Damper for for 7/3.66mm GS Earthwire		848	Nos					
5.5.6	Quadruple Bundle spacer damper for ACSR Moose Conductor		4709	Nos					
5.5.7	Quadruple Rigid Spacer for ACSR Moose Conductor		1782	Nos					
5.5.8	Earthwire suspension Clamp		24	Nos					
5.5.9	Earthwire Tension Clamp		400	Nos					
5.5.10	Aviation Day Markers/Warning Spheres		40	Nos					
5.6	Optical Fibre Cable & Accessories								
5.6.1	OPGW cable & Accessories								
5.6.1.1	24 Fibre (DWSM) OPGW fibre optic cable		45	km					
5.6.1.2	Installation Hardware set for above 24 Fibre OPGW Fibre Optic cabling including all cable fittings & accessories as per below :		45	Sets					
5.6.1.3	Joint Box		15	No.					
5.6.2	FODP								
5.6.2.1	FODP 48F : Indoor Type, rack mounted with FCPC coupling and pig tails (5 mtrs each).		2	No.					

NEPAL ELECTRICITY AUTHORITY
Project Management Directorate
Tamakoshi-Kathmandu 220/400 kV Transmission Line Project
Bid Price Schedule

IFB No.:- ICB-PMD-TKTLP-075/76-01-R: Design, Supply, Install and Commission of New Khimti-Barhabise 400 kV Transmission Line

Schedule No.2: Plant and Equipment including Mandatory Spares to be supplied from within Nepal including Type Test Charges

Currency in Nepalese Rupee (NPR)

Item No.	Item description	Quantity	Unit	Ex Factory Price (Excluding VAT)		Inland Transportation up to Site		Total Amount (Excluding Taxes)	VAT and other taxes	Total Amount
				Unit Rate	Amount	Unit Rate	Amount			
1	2	3	4	5	6	7	8	9	10	11
	400 kV Quad New Khimti - Barhabise Transmission Line									
1	Fabrication, galvanising & supply of various types of towers & tower parts, tower/leg extensions (complete) excluding stubs and bolts & nuts but including hangers, D-Shackles, pack plates, pack washers etc.									
1.1	High Tensile Steel	4287.74	MT							
1.2	Mild Steel	1060.65	MT							
2	Supply of Bolt & Nuts for towers including step bolts and spring washers.									
2.1	Hexagonal bolts & nuts including step bolts	229.03	MT							
3	Fabrication, galvanising & supply of stub for various types of towers with pack washers excluding supply of bolts & nuts									
3.1	High Tensile Steel	273.96	MT							
4	Supply of Bolt & Nuts for stub	6.16	MT							

Item No.	Item description	Quantity	Unit	Ex Factory Price (Excluding VAT)		Inland Transportation up to Site		Total Amount (Excluding Taxes)	VAT and other taxes	Total Amount
				Unit Rate	Amount	Unit Rate	Amount			
5	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									
5.1	Tension Tower DBH									
5.1.1	Basic tower	5	Nos.							
5.1.2	+/- 0 m Leg Extension	18	Nos.							
5.1.3	+1.5 m Leg Extension	1	Nos.							
5.1.4	+3 m Leg Extension	1	Nos.							
5.1.5	+4.5 m Leg Extension	1	Nos.							
5.1.6	+6 m Leg Extension	4	Nos.							
5.1.7	+7.5 m Leg Extension	4	Nos.							
5.1.8	+9 m Leg Extension	9	Nos.							
5.2	Tension Tower DDH									
5.2.1	Basic tower	11	Nos.							
5.2.2	-3 m Leg Extension	1	Nos.							
5.2.3	+/- 0 m Leg Extension	41	Nos.							
5.2.4	+1.5 m Leg Extension	1	Nos.							
5.2.5	+3 m Leg Extension	1	Nos.							
5.2.6	+4.5 m Leg Extension	3	Nos.							
5.2.7	+6 m Leg Extension	2	Nos.							
5.2.8	+7.5 m Leg Extension	2	Nos.							
5.2.9	+9 m Leg Extension	9	Nos.							
5.2.10	+16.5 m Leg Extension	1	Nos.							
5.2.10	+18 m Leg Extension	10	Nos.							
5.2.10	+19.5 m Leg Extension	1	Nos.							
5.2.10	+23.5 m Leg Extension	1	Nos.							
5.2.11	+25 m Leg Extension	11	Nos.							

Item No.	Item description	Quantity	Unit	Ex Factory Price (Excluding VAT)		Inland Transportation up to Site		Total Amount (Excluding Taxes)	VAT and other taxes	Total Amount
				Unit Rate	Amount	Unit Rate	Amount			
3	Supply of Earthing of towers									
3.1	Pipe Type	50	Nos.							
3.2	Counterpoise Type	64	Nos.							
4	Supply of following tower accessories									
4.1	Danger Plate	114	Nos.							
4.2	Number Plate	114	Nos.							
4.3	Phase Plate (Set of three)	228	Sets							
4.4	Circuit Plate(Set of two)	114	Sets							
4.5	Anti climbing device	114	Nos.							
4.6	Bird Guard (set of three)	22	Sets							
5	Supply of following Line Materials									
5.1	Conductor									
5.1.1	ACSR MOOSE Conductor	1072	KM							
5.2	GS Earthwire									
5.2.1	7/3.66mm Earthwire	45	KM							
5.3	Insulators									
5.3.1	120kN Composite Long Rod Insulator	401	Nos							
5.3.2	160kN Composite Long Rod Insulator	4996	Nos							
5.4	Hardware Fittings									
5.4.1	Double Suspension T Insulator String (Suitable for 2x1, 120 KN Type Composite Long Rod Insulator)	67	Sets							
5.4.2	Single Suspension Pilot Insulator String (suitable for 1x1, 120 KN Type Composite Long Rod Insulator)	267	Sets							
5.4.3	Quadruple Tension Insulator String (suitable for 4x1, 160 KN Type Composite Long Rod Insulator)	1249	Sets							

Item No.	Item description	Quantity	Unit	Ex Factory Price (Excluding VAT)		Inland Transportation up to Site		Total Amount (Excluding Taxes)	VAT and other taxes	Total Amount
				Unit Rate	Amount	Unit Rate	Amount			
5.5	Conductor and Earthwire Accessories									
5.5.1	Mid span compression joint	662	Nos							
5.5.2	Mid span compression joint for 7/3.66mm GS earthwire	25	Nos							
5.5.3	Repair Sleeve for ACSR Moose Conductor	199	Nos							
5.5.4	Flexible Copper Bond for 7/3.66mm GS Earthwire	424	Nos							
5.5.5	Vibration Damper for for 7/3.66mm GS Earthwire	848	Nos							
5.5.6	Quadruple Bundle spacer damper for ACSR Moose Conductor	4709	Nos							
5.5.7	Quadruple Rigid Spacer for ACSR Moose Conductor	1782	Nos							
5.5.8	Earthwire suspension Clamp	24	Nos							
5.5.9	Earthwire Tension Clamp	400	Nos							
5.5.10	Aviation Day Markers/Warning Spheres	40	Nos							
5.6	Optical Fibre Cable & Accessories									
5.6.1	OPGW cable & Accessories									
5.6.1.1	24 Fibre (DWSM) OPGW fibre optic cable	45	km							
5.6.1.2	Installation Hardware set for above 24 Fibre OPGW Fibre Optic cabling including all cable fittings & accessories as per below :	45	Sets							
5.6.1.3	Joint Box	15	No.							
5.6.2	FODP									
5.6.2.1	FODP 48F : Indoor Type, rack mounted with FCPC coupling and pig tails (5 mtrs each).	2	No.							
5.6.3	Fibre Optic approach cable									
5.6.3.1	24 Fibre (DWSM)	1	Km.							
5.6.3.2	Installation hardware set for above 24 Fibre, Fibre Optic Approach Cable	1	Set							

NEPAL ELECTRICITY AUTHORITY
 Project Management Directorate
Tamakoshi-Kathmandu 220/400 kV Transmission Line Project
Bid Price Schedule

IFB No.:- ICB-PMD-TKTLP-075/76-01-R: Design, Supply, Install and Commission of New Khimti-Barhabise 400 kV Transmission Line

Schedule No.3: Design Services

Item No.	Item Description	Estimated		Unit Prices		Total Prices	
				Local Currency portion	Foreign Currency Portion		
		Quantity	Unit	Currency...	Currency...	LC	FC
1	2	3	4	5	6	7=3x5	8=3x6
1	Design of unequal leg extensions for 400 kV D/C Tower Type DB+18 having +16.5 / +18 / +19.5M Extensions and Tower Type DB+25 having +23.5 / +25M Extensions for Quad Moose Conductor	1	LS				
2	Design of unequal leg extensions for 400 kV D/C Tower Type DD+18 having +16.5 / +18 / +19.5M Extensions and Tower Type DD+25 having +23.5 / +25M Extensions for Quad Moose Conductor	1	LS				
3	Design of Foundations of Tower Type DB+18/25 with unequal extensions for all soil types as required at site	1	LS				
4	Design of Foundations of Tower Type DD+18/25 with unequal extensions for all soil types as required at site	1	LS				
Total							

NEPAL ELECTRICITY AUTHORITY
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Schedule No. 4: Installation Services
(a): Installation and Construction Charges

Sl. No.	Item Description	Unit	Qty.	Installation Charges					Remarks
				Portion in Foreign Currency			Portion in Nepalese Currency (NPR)		
				Currency	Unit Rate	Total Charges	Unit Rate	Total Charges	
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)X(6)	(8)	(9)=(4)X(8)	
I	400 kV / 220 kV Quad New Khimti - Barhabise Transmission Line								
1	Survey								
1.1	Detailed survey including route alignment, profiling, tower spotting	KM	5						
1.2	Check Survey including tower spotting	KM	44						
1.3	Identification of ROW and land parcel	KM	10						
2	Detailed soil Investigation								
2.1	All kind of soil except FR & HR	Loc.	3						
2.2	Fissured/soft rock	Loc.	5						
2.3	Hard rock	Loc.	3						
3	Benching								
3.1	All kind of soil except FR & HR	Cum.	12000						
3.2	Fissured Rock	Cum.	10000						
3.3	Hard Rock	Cum.	3000						
4	Work associated with tower foundations								
4.1	Excavation in various types of soil								
4.1.1	Dry Soil	Cum.	10799.20						
4.1.2	Wet Soil	Cum.	66401.92						
4.1.3	Fissured Rock	Cum.	12898.85						
4.2	Concreting (including all associated works related to foundation not covered under 4.1, 4.3 & 4.4)								
4.2.1	M20 Concrete Nominal Mix 1:1.5:3	Cum.	13755.03						
4.2.2	M10 Concrete Nominal Mix 1:3:6	Cum.	1455.83						
4.3	Supply and placement of Reinforcement Steel	MT	1217.23						

Sl. No.	Item Description	Unit	Qty.	Installation Charges					Remarks
				Portion in Foreign Currency			Portion in Nepalese Currency (NPR)		
				Currency	Unit Rate	Total Charges	Unit Rate	Total Charges	
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)X(6)	(8)	(9)=(4)X(8)	
4.4	Transportation & Installation of Stubs including bolts & nus	MT	280.11						
5	Work associated with tower foundations including design								
5.1	Tension Tower DBH								
5.1.1	Common Foundation for +1.5m, +3m, +4.5m +6m, +7.5m, +9m Extension								
5.1.1.1	Dry Foundation	Nos.	3						
5.1.1.2	Dry Fissured Rock	Nos.	1						
5.1.1.3	Hard Rock	Nos.	1						
5.2	Tension Tower DDH								
5.2.1	Common Foundation for +1.5m, +3m, +4.5m +6m, +7.5m, +9m Extension								
5.2.1.1	Dry Foundation	Nos.	2						
5.2.1.2	Dry Fissured Rock	Nos.	2						
5.2.1.3	Hard Rock	Nos.	1						
5.2.2	Foundation for +18/25m Extension								
5.2.2.1	Dry Foundation	Nos.	2						
5.2.2.2	Dry Fissured Rock	Nos.	2						
5.2.2.3	Hard Rock	Nos.	2						
6	Erection of towers & tower extension parts complete with 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 (for DA, DB, DC & DD towers)	MT	5857.54						
7	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 (for DBH & DDH towers)								
7.1	Tension Tower DBH								
7.1.1	Basic tower	Nos.	5						
7.1.2	+/- 0 m Leg Extension	Nos.	18						

Sl. No.	Item Description	Unit	Qty.	Installation Charges					Remarks
				Portion in Foreign Currency			Portion in Nepalese Currency (NPR)		
				Currency	Unit Rate	Total Charges	Unit Rate	Total Charges	
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)X(6)	(8)	(9)=(4)X(8)	
7.1.3	+1.5 m Leg Extension	Nos.	1						
7.1.4	+3 m Leg Extension	Nos.	1						
7.1.5	+4.5 m Leg Extension	Nos.	1						
7.1.6	+6 m Leg Extension	Nos.	4						
7.1.7	+7.5 m Leg Extension	Nos.	4						
7.1.8	+9 m Leg Extension	Nos.	9						
7.2	Tension Tower DDH								
7.2.1	Basic tower	Nos.	11						
7.2.2	-3 m Leg Extension	Nos.	1						
7.2.3	+/- 0 m Leg Extension	Nos.	41						
7.2.4	+1.5 m Leg Extension	Nos.	1						
7.2.5	+3 m Leg Extension	Nos.	1						
7.2.6	+4.5 m Leg Extension	Nos.	3						
7.2.7	+6 m Leg Extension	Nos.	2						
7.2.8	+7.5 m Leg Extension	Nos.	2						
7.2.9	+9 m Leg Extension	Nos.	9						
7.2.10	+18 m Leg Extension	Nos.	12						
7.2.11	+25 m Leg Extension	Nos.	12						
8	Installation of Earthing of towers								
8.1	Pipe Type	Nos.	50						
8.2	Counterpoise Type	Nos.	64						
9	Installation of following tower accessories								
9.1	Danger Plate	Nos.	114						
9.2	Number Plate	Nos.	114						
9.3	Phase Plate (Set of three)	Sets	228						
9.4	Circuit Plate(Set of two)	Sets	114						
9.5	Anti climbing device	Nos.	114						
9.6	Bird Guard (set of three)	Sets	22						
10	Protection of tower footing								
10.1	Random rubble stone masonry including excavation (1:5 cement concrete)	Cu.m.	10000						
10.2	Stone bound in galvanising wire netting including excavation	Cu.m.	6000						
10.3	Back filling and levelling of volumes enclosed by revetment	Cu.m.	7000						

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Schedule No. 4: Installation Services

(b): Training Charges for Training to be imparted abroad : Not Applicable for this Contract

Sl. No.	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	Total Training Charges
1	2		3	4	5	6	7 = 4x5 x 6
NOT APPLICABLE							

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Schedule No. 4: Installation Services

(c): Training Charges for training to be imparted to Employer's Personnel by Bidder's Instructor in Nepal : Not Applicable for this Contract

Sl. No.	Description of the Test	Item for which training is to be imparted.	Training duration in days	Training Charges for Contractors	
				Currency	Total Training Charges
1	2	3	4	5	6 = 4x 5
NOT APPLICABLE					

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Schedule No. 4: Installation Services

(d): Maintenance Charges : Not Applicable for this Contract

SI No	Description	Unit	Qty.	Total Maintenance Charges	
				Currency	Total Maintenance Charges
NOT APPLICABLE					

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Schedule No. 4: Installation Services

(e): Type Test charges for Type Tests to be conducted abroad

Sl. No.	Description of Tests	Country of Testing	Unit	Qty.	Currency	Rate	Amount (USD)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)=(5) x (7)
1	Proto Type Testing of towers						
1.1	Tower Type DBH with extension		No.	1			
1.2	Tower Type DDH with extension		No.	1			
2	ACSR MOOSE Conductor						
2.1	UTS Test		No.	1			
2.2	DC Resistance Test		No.	1			
2.3	Corona & RIV Test		No.	1			
3	7/3.35 mm GS Earthwire						
3.1	UTS Test		No.	1			
3.2	D.C. Resistance Test		No.	1			
	TOTAL (Total of column 7 to be carried forward to Schedule No. 5: Grand Summary)						

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Schedule No. 5: Grand Summary

Sl. No.	Description	Discount	Total Price Foreign	Total Price Local (NPR)
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) Training charges for training to be imparted in Nepal			
	(d) Maintenance charges			
	(e) Type Tests charges for type Tests to be conducted abroad			
5	Grand Total {1+2+3+4}			

NEPAL ELECTRICITY AUTHORITY

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Schedule No. 6: Recommended Availability/Optional Spares parts and Recommended Test Equipment (in line with Technical Specifications)

Item No.	Name & Description of Parts	Name of Original Manufacturer	Part No.	Number of Units in each set	Total No. of Sets to be provided	Unit Price	Total Price	Remarks