## NEPAL ELECTRICITY AUTHORITY (An Undertaking of Government of Nepal) DISTRIBUTION AND CONSUMER SERVICES DIRECTORATE DISTRIBUTION SYSTEM UPGRADE AND EXPANSION PROJECT



TENDER DOCUMENT for Procurement of material, equipment, associated accessories and necessary installation services including design, erection, testing, and commissioning of 33/11 kV Substations and 33 kV, 11 kV, 400 V Lines and Distribution System Network

Package No. W6 Sub Project: Khatyad and Mangri of Mugu District, Tumcha and Simikot of Humla District

> Single-Stage: Two-Envelope Tender Procedure

Issued on: Invitation for Tenders No.: *ICB-DCSD-2078/79-DSUEP-AIIB-W6* Contract Ref. No.: *ICB-DCSD-2078/79-DSUEP-AIIB-W6* Employer: *Nepal Electricity Authority* Country: *Nepal* 

Volume IIIA of III (Price Schedule of 33/11 kV Substations and 33 kV Lines)

Distribution System Upgrade and Expansion Project Distribution and Consumer Services Directorate Nepal Electricity Authority Durbarmarg, Kathmandu Tel: +977-1- 4153145 Email: dsuep\_aiib@nea.org.np

## **Table of Contents - Summary Description**

## PART I TENDER PROCEDURES

**Section 1 - Instructions to Tenderers (ITT)** ------- **1-1** This section specifies the procedures to be followed by Tenderers in the preparation and submission of their Bids. Information is also provided on the submission, opening, and evaluation of bids and on the award of contract.

**Section 2 - Tender Data Sheet (TDS)** ------ **2-1** This section consists of provisions that are specific to each procurement and supplement the information or requirements included in Section 1 (Instructions to Tenderers).

**Section 3 - Evaluation and Qualification Criteria (EQC)** ------- **3-1** This section contains the tender evaluation criteria to determine the lowest evaluated Tender and lists the necessary qualifications of Tenderers.

**Section 4 - Tender Forms (TDF)** ------ 4-1 This section contains the forms which are to be completed by the Tenderer and submitted as part of its Tender.

Section 5 - Eligible Countries (ELC)	 5-1
This section contains the list of eligible countries.	

## PART II REQUIREMENTS

**Section 6 - Employer's Requirements (ERQ)** ------ **6-1** This section contains the Scope of Supply of Plant and Services, Specifications, the Drawings, and Supplementary Information that describe the Facilities to be procured, Personnel Requirements, Equipment Requirements, Certificates, and Change Orders.

## PART III CONDITIONS OF CONTRACT AND CONTRACT FORMS

**Section 7 - General Conditions of Contract (GCC)** ------ **7-1** This section contains the general clauses to be applied in all contracts. These Conditions are subject to the variations and additions set out in Section 8 (Special Conditions of Contract).

**Section 8 - Special Conditions of Contract (SCC)** ------- **8-1** This section contains provisions that are specific to each contract and that modify or supplement the GCC. Whenever there is a conflict, the provisions herein shall prevail over those in the GCC. The clause number of the SCC is the corresponding clause number of the GCC.

# Volume III

# **Section 4: Tender Forms**

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A Price Schedule

Name of Tenderer \_\_\_\_\_

Signature of Tendererer\_

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Name of Tenderer \_\_\_\_

S-5-1	Project Component wise Summary of Schedule 1 to 4
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Name of Tenderer \_\_\_\_

## Distribution and Consumer Services Directorate

## Distribution System Upgrade and Expansion Project

#### Schedule of Rates and Prices

## Schedule No. 5: Grand Summary (Excluding Custom Duty and VAT applicable in Employer's Country)

Schedule No.	Title	Total	Price				
Schedule No.	l	Foreign Currency	Local Currency				
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 Price Tender						
*Schedule 1 - Transpo	prtation upto specified storage locations or up to road head, depending upon the quantity of	transportation in Scheo	lule 4.				
*Schedule 4(A.1) - Tra manual/other form of t	ansportation from specified storage location via airlift. Schedule 4(C.1) - Transportation from transportation.	road head to installation	on location via				
*In case of 33 kV lines See Schedule 4(C.1)	s, only limited items are available for manual transportation and hence, provided are the ma	iximum transportation c	listance for each unit -				
*Transportation rates	for Schedule 1 & 2 shall be entered upto specified storage location and Schedule 4 (.1) upto	o local installation locat	ons.				
SN	Sub Project	Specified Storage Location	on				
1	Kolti Khatyad	Gamgadi Substation, Gamo	jadhi, Mugu				
2	2 Gamgadi Mangri Gamga						
3	3 Gamgadi Simikot Tumcha Substation, Adanchuli, Humla						

Name of Tenderer \_\_\_\_\_

Tumcha Substation, Adanchuli, Humla

Signature of Tenderer\_\_\_\_\_

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Tumcha Tumcha

#### Distribution and Consumer Services Directorate

#### Distribution System Upgrade and Expansion Project

#### Project Component Wise Summary of Costs (Excluding Custom Duty and VAT applicable in Employer's Country)

ltem	Description	Total Price					
nem	Description	Foreign Currency	Local Currency				
1	2	3	4				
1	SUBSTATION						
1.1	Plant and Mandatory Spare Parts Supplied from Abroad						
1.2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country						
1.3	Design Services						
1.4	Installation and Other Services						
1.4.1	Air based transportation						
1.4.2	Civil Works of Switchyard Components - Concrete Foundation as per technical specifications and approved design						
1.4.3	Installation Testing and Commissioning Works of Electrical Components of Substation						
1.4.4	Landscaping Works						
1.4.5	Building Works						
1.4.5	Roads and Drainage						
T-1	Sub Total of SUBSTATION						
2	33 kV FEEDER / TAP OFF STRUCTURE						
2.1	Plant and Mandatory Spare Parts Supplied from Abroad						
2.2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country						
2.3	Design Services						
2.4	Installation and Other Services						
2.4.1	Civil Works of Interconnection Components - Concrete Foundation as per technical specifications and approved design/drawings						
2.4.2	Installation Testing and Commissioning Works of Electrical Components of 33 kV feeder/Tap Off Structure						
T-2	Sub Total of 33 kV FEEDER / TAP OFF STRUCTURE						
3	33 kV Line						
3.1	Plant and Mandatory Spare Parts Supplied from Abroad						

Name of Tenderer \_\_\_\_\_

#### Distribution and Consumer Services Directorate

#### Distribution System Upgrade and Expansion Project

#### Project Component Wise Summary of Costs (Excluding Custom Duty and VAT applicable in Employer's Country)

ltem	Description	Total F	Price
item	Description	Foreign Currency	Local Currency
1	2	3	4
3.2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
3.3	Design Services		
3.4	Installation and Other Services		
3.4.1	Manual/Air based transportation		
3.4.2	Installation, Testing and Commissioning Works and Civil Works		
T-3	Sub Total of 33 kV Line		
4	UNDERGROUND CABLE		
4.1	Plant and Mandatory Spare Parts Supplied from Abroad		
4.2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
4.3	Design Services		
4.4	Installation and Other Services		
4.4.1	Installation, Testing and Commissioning Works and Civil Works		
T-4	Sub Total of UNDERGROUND CABLE		
5	Environmental and Social Mitigation Works		
5.1	Environmental and Social Mitigation Works		
T-5	Sub Total of Environmental and Social Mitigation Works		
Grand To	tal (Sum of T-1 T-5)		

Name of Tenderer \_\_\_\_\_

## Distribution and Consumer Services Directorate

## Distribution System Upgrade and Expansion Project

## Schedule of Rates and Prices

# Summary of Schedule No. 1: Plant and Mandatory Spare Parts Supplied from Abroad (Excluding Custom Duty and VAT applicable in Employer's Country)

Schedule No.	Title	Total Price				
Schedule NO.	The	Foreign Currency	Local Currency			
Α.	SUBSTATION					
В.	33 kV FEEDER / TAP OFF STRUCTURE					
С.	33 kV LINE					
D.	UNDERGROUND CABLE					
	Grand Total to be carried forward to Schedule 5					

Name of Tenderer

## Nepal Electricity Authority Distribution and Consumer Services Directorate

Distribution System Upgrade and Expansion Project

Schedule of Rates and Prices

## Schedule No. 1: Plant and Mandatory Spare Parts Supplied from Abroad (Excluding Custom Duty and VAT applicable in Employer's Country)

ltem	Description	Country of	Unit	Unit Rate, CIP (Nepal Border)		Qua	antity		Total Quantity	Unit Rate, Domestic Transportation and Insuranc		
		Origin		Foreign Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simi
1	2	3	4	5			6		7 = Σ6			8
	2	3	4	5	A	В	С	D	7 - 20	A	В	C
Α.	SUBSTATION								-			
A.1	Power Transformers								-			
1	33/11 kV 12/16 MVA copper wound power transformer, CRGO core (with OLTC and RTCC Panel) complete with all accessories		set		-	-	-	-	-			
2	33/11 kV 6/8 MVA copper wound power transformer, CRGO core (with OLTC and RTCC Panel) complete with all accessories		set		-	-	-	-	-			
3	33/11 kV 3 MVA copper wound power transformer, CRGO core		set		-	-	-	-	-			
4	33/11 kV 1 MVA copper wound power transformer, CRGO core		set		-	-	-	-	-			
5	33/11 kV 500 kVA copper wound power transformer, CRGO core		set		2.00	2.00	2.00	2.00	8.00			
									-			
A.2	36 kV System								-			
1	36 kV, 630 A, 25 kA Outdoor Type, Vacuum Circuit Breaker with Accessories all Complete		set		1.00	1.00	1.00	2.00	5.00			
2	36 kV, 630 A, 25 kA, isolator with earth switch including accessories all complete		set		2.00	2.00	2.00	4.00	10.00			
3	36 kV, 40 A, Load Break Switch with accessories all complete		set		2.00	2.00	2.00	2.00	8.00			
4	36 kV, 4 A, Load Break Switch with accessories all complete		set		1.00	1.00	1.00	1.00	4.00			
5	Two Core Potential Transformer for 33 kV including fuse with accessories all complete as specified		set		2.00	2.00	2.00	3.00	9.00			
6	Three Core Current Transformer for 33 kV with accessories all complete as specified		set		1.00	1.00	1.00	2.00	5.00			
7	Two Core Bushing CT for 33/11 kV Power Transformer with accessories all complete as specified.		set		-	-	-	-	-			
8	Two Core CT for neutral side of 33/11 kV Power Transformer with accessories all complete as specified.		set		2.00	2.00	2.00	2.00	8.00			

surance, L	ocal Currency	Total, CIP (Nepal Border)	Total, Domestic Transportation and Insurance
Simikot	Tumcha Tumcha	Foreign Currency	Local Currency
;	D	9 = 5 x 7	10 = Σ(π(8 x 6))

Name of Tenderer \_\_\_\_\_

### Nepal Electricity Authority Distribution and Consumer Services Directorate Distribution System Upgrade and Expansion Project Schedule of Rates and Prices

## Schedule No. 1: Plant and Mandatory Spare Parts Supplied from Abroad (Excluding Custom Duty and VAT applicable in Employer's Country)

ltem	Description	Country of Origin	Unit	Unit Rate, CIP (Nepal Border)		Qua	ntity		Total Quantity	Unit Rate, Domestic Transportation and Insurance, Local Currency		Total, CIP (Nepal Border)	Total, Domestic Transportation and Insurance		
		Origin		Foreign Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Foreign Currency	Local Currency
1	2	3	4	5			5		7 = Σ6			8		9 = 5 x 7	10 = Σ(π(8 x 6))
		5	-	5	Α	В	С	D	7 - 20	A	В	С	D	9-577	10 - 2(11(0 x 0))
9	30 kV, 10 kA, lighting arrestor with accessories all complete		set		4.00	4.00	4.00	5.00	17.00						
10	33kV Outdoor Busbar (IPS tube, 800A) with required insulators and accessories as well as any cables necessary in 33 kV side all complete		set		1.00	1.00	1.00	1.00	4.00						
	33/11 kV Transformer Control and Protection Panel complete with all accessories as per specification		set		2.00	2.00	2.00	2.00	8.00						
12	33 kV Protection Control and Relay Panel complete with all accessories as per specification for Line Bays		set		1.00	1.00	1.00	2.00	5.00						
13	Marshalling Kiosk Box with Accessories all Complete (1 set refers to complete set in a substation)		set		1.00	1.00	1.00	1.00	4.00						
									-						
A.3	12 kV System								-						
1	12 kV Indoor VCB, with Control and Relay Panel and CT / PT with accessories all complete as specified		set		5.00	5.00	5.00	5.00	20.00						
2	12 kV, 25 kA, Indoor Earth Switch with accessories all complete as specified		set		2.00	2.00	2.00	2.00	8.00						
3	9 kV, 10 kA, lighting arrestor with accessories all complete		set		4.00	4.00	4.00	4.00	16.00						

Name of Tenderer \_\_\_\_\_

## Nepal Electricity Authority Distribution and Consumer Services Directorate

Distribution System Upgrade and Expansion Project

Schedule of Rates and Prices

## Schedule No. 1: Plant and Mandatory Spare Parts Supplied from Abroad (Excluding Custom Duty and VAT applicable in Employer's Country)

ltem	Description	Country of	f Unit	Unit Rate, CIP (Nepal Border)		Quantity				Unit Rate, Domestic Transportation and Insuranc		
		Origin		Foreign Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simi
		2		5			6		7 - 50		1	8
1	2	3	4	5	A	В	С	D	7 = Σ6	A	В	C
									-			
A.4	Station Supply System								-			
1	33/0.4 kV 100 kVA station transformer		set		1.00	1.00	1.00	1.00	4.00			
2	AC Distribution System Including Accessories all Complete as per specifications(1 set includes complete lot for substation including all buildings and constructions with necessary earthing works inside the substation)		set		1.00	1.00	1.00	1.00	4.00			
3	Portable Diesel Generator, 10 kVA, 400 V including grid interconnection setup, relay, control units and associated panels, as per specifications		set		1.00	1.00	1.00	1.00	4.00			
									-			
A.5	DC System								-			
1	250 Ah, 110 V maintenance free batteries including complete accessories		set		1.00	1.00	1.00	1.00	4.00			
2	Battery Charging unit (110 V) with accessories all complete		set		1.00	1.00	1.00	1.00	4.00			
3	DC Distribution System including accessories all complete as per specifications(1 set includes complete lot for substation)		set		1.00	1.00	1.00	1.00	4.00			
									-			
<b>A.6</b>	Cables 11 kV XLPE Cable 3 Core 300 sq mm (Armoured)		m		-	-	-	-	-			
1	11 kV XLPE Cable 3 Core 185 sq mm (Armoured)		m		25.00	25.00	25.00	25.00	100.00			
3	11 kV XLPE Cable 3 Core 120 sq mm (Armoured)		m		50.00	50.00	50.00	50.00	200.00			
4	11 kV 3-core heat shrinkable Indoor Cable termination kit 185/300/120 sq mm		set		4.00	4.00	4.00	4.00	16.00			
5	11 kV 3-core heat shrinkable outdoor Cable termination kit 185/120 sq mm		set		4.00	4.00	4.00	4.00	16.00			

surance, L	ocal Currency	Total, CIP (Nepal Border)	Total, Domestic Transportation and Insurance
Simikot	Tumcha Tumcha	Foreign Currency	Local Currency
;	D	9 = 5 x 7	10 = Σ(π(8 x 6))

Name of Tenderer \_\_\_\_\_

### Nepal Electricity Authority Distribution and Consumer Services Directorate Distribution System Upgrade and Expansion Project Schedule of Rates and Prices

## Schedule No. 1: Plant and Mandatory Spare Parts Supplied from Abroad (Excluding Custom Duty and VAT applicable in Employer's Country)

ltem	Description	Country of Origin	Unit	Unit Rate, CIP (Nepal Border)		Qua	antity		Total Quantity	Unit Rate, Do	mestic Transportat	ion and Insurance, I	Local Currency	Total, CIP (Nepal Border)	Total, Domestic Transportation and Insurance
		Chight		Foreign Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Foreign Currency	Local Currency
						1	6					8	<u> </u>		
1	2	3	4	5	A	В	С	D	7 = Σ6	A	В	С	D	9 = 5 x 7	10 = Σ(π(8 x 6))
6	Control cables including accessories complete (1 set includes source bay and destination bay together)(1 set includes complete lot for substation)		set		1.00	1.00	1.00	1.00	4.00						
7	1.1 kV power and lighting cable, including DC circuitry for all works in the switchyard, outdoor lighting, beauty lighting all complete (1 set includes complete lot for substation)		set		1.00	1.00	1.00	1.00	4.00						
	Automation and Control System - SCADA								-						
1	SCADA/ Automation Integration, Numerical relay cum Bay controller with other indicative/measuring instruments. SCADA system shall communicate with C & R panels, Bay Control Units of 33 kV Feeder, 11kV switchgear panel, battery charger, ACDB etc along with necessary hardware & Software & fibre optic cable etc. all complete with necessary accessories adhering to the Technical Specifications and requirement for the substation.(1 set includes complete lot for substation)		set		1.00	1.00	1.00	1.00	4.00						
2	Desktop, i9, 10th generation or equivalent with 512 GB SSD and 1 GB HDD, 24 " two screen,		set		1.00	1.00	1.00	1.00	4.00						
	Laptop, with same configuration as desktop and 15 " screen		set		1.00	1.00	1.00	1.00	4.00						
	One we dive the second second								-						
1	Grounding System Switchyard Lightning Protection System, Earthing arrangement, Including protection for Control building and other structures inside the substation area as essential in the substation all complete(1 set includes complete lot for substation)		set		1.00	1.00		1.00	-						
	Lightning Mast		ton		0.14	0.14	0.14	0.14	0.56						
A.9	Illumination System								-						

Name of Tenderer \_\_\_\_\_

#### Nepal Electricity Authority Distribution and Consumer Services Directorate Distribution System Upgrade and Expansion Project

Schedule of Rates and Prices

## Schedule No. 1: Plant and Mandatory Spare Parts Supplied from Abroad (Excluding Custom Duty and VAT applicable in Employer's Country)

Item	Description	Country of Origin	Unit	Unit Rate, CIP (Nepal Border)		Qua	antity		Total Quantity	Unit Rate, Do	omestic Transportat	ion and Insuran
		Origin		Foreign Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simi
1	2	3	4	5			6		7 = Σ6			8
			· ·		A	В	С	D		A	В	С
1	Switchyard and Substation yard lighting with 36 W, IP 65 LED with at least 20 lux elsewhere and 200 lux at switchyard, as per site conditions all complete(1 set includes complete lot for substation)		set		1.00	1.00	1.00	1.00	4.00			
A.10	Outdoor Gantry and Support Structures								-			
1	Gantry Column, Support Structures, Girder structures for 33/11 kV substation, all complete as per specifications for each sub-project		ton		4.12	4.12	4.12	6.65	19.01			
2	Chequered Plate for Cable Trench in Control Building of thickness as mentioned in Technical Specification with accessories all complete as for specifications		ton		0.67	0.67	0.67	0.67	2.66			
	11 kV Overhead Line Feeder								-			
A.11	Components								-			
1	9 kV, 10 kA, Pole Mounted lighting arrestor with accessories all complete		set		2.00	2.00	2.00	2.00	8.00			
2	Pole Mounted Isolator, for 11 kV with accessories all complete		set		2.00	2.00	2.00	2.00	8.00			
									-			
A.12	SPARE PARTS								-			
A.12.1	For Transformers								-			
1	33 kV and 11 kV Bushing(one of each type)		set		1.00	1.00	1.00	1.00	4.00			
2	Dial type Thermometers		set		1.00	1.00	1.00	1.00	4.00			
3	Oil Level Gauges		set		1.00	1.00	1.00	1.00	4.00			
	Insulating Oil (10% of total supply)		set		1.00	1.00	1.00	1.00	4.00			
	Indicating Lamps (25% of used)		set		1.00	1.00	1.00		4.00			
	All types of Fuses (25% of used)		set		1.00	1.00	1.00		4.00			
7	Complete set of Gaskets of each type		set		1.00	1.00		1.00	4.00			
8	Complete set of Pressure Relief Devices		set		1.00	1.00	1.00	1.00	4.00			
g	All type of Auxiliary, Relays, Contactors and Timers for control, protection and cooling circuit(one of each type)		set		1.00	1.00	1.00	1.00	4.00			

rance, L	ocal Currency	Total, CIP (Nepal Border)	Total, Domestic Transportation and Insurance
Simikot	Tumcha Tumcha	Foreign Currency	Local Currency
	D	9 = 5 x 7	10 = Σ(π(8 x 6))

Name of Tenderer \_\_\_\_

## Nepal Electricity Authority Distribution and Consumer Services Directorate Distribution System Upgrade and Expansion Project Schedule of Rates and Prices

## Schedule No. 1: Plant and Mandatory Spare Parts Supplied from Abroad (Excluding Custom Duty and VAT applicable in Employer's Country)

ltem	Description	Country of Origin	Unit	Unit Rate, CIP (Nepal Border)		Qua	ntity		Total Quantity	Unit Rate, Do	mestic Transportati	on and Insurance, I	Local Currency	Total, CIP (Nepal Border)	Total, Domestic Transportation and Insurance
		Origin		Foreign Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Foreign Currency	Local Currency
1	2	2	4	5	6			7 = Σ6	8				9 = 5 x 7	10 = Σ(π(8 x 6))	
'	2	3	4	5	A	В	С	D	7 - 20	A	В	C	D	9=5 x 7	10 - 2(11(8 × 6))
10	OLTC Motor Contactor		set		1.00	1.00	1.00	1.00	4.00						
11	Complete set of Buchholz relay		set		1.00	1.00	1.00	1.00	4.00						
12	OLTC motor		set		1.00	1.00	1.00	1.00	4.00						

Name of Tenderer \_\_\_\_\_

#### Nepal Electricity Authority Distribution and Consumer Services Directorate Distribution System Upgrade and Expansion Project

Schedule of Rates and Prices

## Schedule No. 1: Plant and Mandatory Spare Parts Supplied from Abroad (Excluding Custom Duty and VAT applicable in Employer's Country)

ltem	Description	Country of Origin	Unit	Unit Rate, CIP (Nepal Border)		Qu	antity		Total Quantity	Unit Rate, D	omestic Transportat	ion and Insuran
		Origin		Foreign Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Sim
1	2	3	4	5			6		7 = Σ6			8
10	Matara for machanism of each turns		aat		A 1.00	B 1.00	C 1.00	D 1.00	4.00	A	В	C
13	Motors for mechanism of each type		set		1.00	1.00	1.00	1.00	4.00			
A.12.2	For 33 kV Circuit Breaker								-			
	Tripping Coils		set		1.00	1.00	1.00	2.00	5.00			
	Closing Coils		set		1.00	1.00	1.00	2.00	5.00	1		
	Relays and Contactors (One of each											
3	Relays and Contactors (One of each type)		set		1.00	1.00	1.00	1.00	4.00			
4	Motors for Mechanism		set		1.00	1.00	1.00	2.00	5.00			
5	Interrupter for VCB		set		1.00	1.00	1.00	2.00	5.00			
									-			
A.12.3	For 33 kV Disconnecting Switch								-			
	Porcelain insulator		set		2.00	2.00	2.00	4.00	10.00			
2	Main contact assemblies including		set		2.00	2.00	2.00	4.00	10.00			
	grounding blades											
	Auxilliary contacts		set		2.00	2.00	2.00	4.00	10.00			
4	Interlocking Coil		set		2.00	2.00	2.00	4.00	10.00			
									-			
Δ17 <i>Δ</i>	For 33 kV Instrument Transformers								-			
1	Two Core Potential Transformer for 33 kV including fuse with accessories all complete as specified (1 Set = 3 Phase)		set		1.00	1.00	1.00	1.00	4.00			
	Three Core Current Transformer for 33 kV with accessories all complete as specified (1 Set = 3 Phase)		set		1.00	1.00	1.00	1.00	4.00			
									-			
	Lightning Arrestor								-			
1	30 kV Lightning Arrestor (1 Set = 3 Phase)		set		1.00	1.00	1.00	1.00	4.00			
	9 kV Lightning Arrestor (1 Set = 3 Phase)		set		1.00	1.00	1.00	1.00	4.00			
									-			
A.12.6	For 33 kV Control & Relay panel								-			
	Indicating Lamps (50% of used)		set		1.00	1.00	1.00	1.00	4.00			
2	Fuses of each type(50% of used)		set		1.00	1.00	1.00	1.00	4.00			
3	Color Caps of each color for indicating lamps (30% of used)		set		1.00	1.00	1.00	1.00	4.00			
4	One of each type of Switch, Timer and other special devices		set		1.00	1.00	1.00	1.00	4.00			
F	3 Phase Over Current Relays with Earthfault Inbuilt		set		1.00	1.00	1.00	1.00	4.00			
	3 Phase Transformer Differential Relays		set		1.00	1.00	1.00	1.00	4.00		1	

rance, L	ocal Currency	Total, CIP (Nepal Border)	Total, Domestic Transportation and Insurance
Simikot	Tumcha Tumcha	Foreign Currency	Local Currency
	D	9 = 5 x 7	10 = Σ(π(8 x 6))

Name of Tenderer \_\_\_\_

### Nepal Electricity Authority Distribution and Consumer Services Directorate Distribution System Upgrade and Expansion Project Schedule of Rates and Prices

## Schedule No. 1: Plant and Mandatory Spare Parts Supplied from Abroad (Excluding Custom Duty and VAT applicable in Employer's Country)

Item	Description	Country of Origin	Unit	Unit Rate, CIP (Nepal Border)		Qua	antity		Total Quantity	Unit Rate, De	omestic Transportat	ion and Insurance,	Local Currency	Total, CIP (Nepal Border)	Total, Domestic Transportation and Insurance
		Origin		Foreign Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Foreign Currency	Local Currency
1	2	3	4	5			6		7 = Σ6			8	•	9 = 5 x 7	10 = Σ(π(8 x 6))
· ·	L	J	-	J	A	В	С	D	7 - 20	A	В	С	D	5-527	10 - 2(11(0 × 0))
7	Each type of Auxiliary Relay		set		1.00	1.00	1.00	1.00	4.00						
8	Ammeter		set		1.00	1.00	1.00	1.00	4.00						
9	Voltmeter		set		1.00	1.00	1.00	1.00	4.00						
									-						
A.12.7	Communication/SCADA								-						
1	Input Output Cards/Attribute Cards, (50% of used)		set		1.00	1.00	1.00	1.00	4.00						
A.12.8	110 V Battery Charger								-						
	Fuses of each type(50% of used)		set		1.00	1.00	1.00	1.00	4.00						
	Indicating Lamp (50% of used)		set		1.00	1.00	1.00	1.00	4.00						
3	One of each type of Switch, Timer and other special devices		set		1.00	1.00	1.00	1.00	4.00						
	Ammeter		set	ĺ	1.00	1.00	1.00	1.00	4.00				ĺ		1
5	Voltmeter		set		1.00	1.00	1.00	1.00	4.00						
									-						
A.12.9	For 11 kV Circuit Breakers								-						
1	Complete set of replacable vacuum chambers		set		1.00	1.00	1.00	1.00	4.00						
	Set of Tripping, closing and auxilliary coils		set		1.00	1.00	1.00	1.00	4.00						
3	Over current/Earth fault relay		set		1.00	1.00	1.00	1.00	4.00						
4	12 kV Current Transformer		set		1.00	1.00	1.00	1.00	4.00						
6	12 kV Potential Transformer		set		1.00	1.00	1.00	1.00	4.00						
	Spring Charge Motor		set		1.00	1.00	1.00	1.00	4.00						
8	VCB Breaker Trollery		set		1.00	1.00	1.00	1.00	4.00						

Name of Tenderer \_\_\_\_\_

Signature of Tenderer\_\_\_\_

Single-Stage: Two-Envelope

#### Nepal Electricity Authority Distribution and Consumer Services Directorate

Distribution System Upgrade and Expansion Project

Schedule of Rates and Prices

## Schedule No. 1: Plant and Mandatory Spare Parts Supplied from Abroad (Excluding Custom Duty and VAT applicable in Employer's Country)

ltem	Description	Country	Unit	Unit Rate, CIP (Nepal Border)	r) Quantity				Total Quantity	Unit Rate, Do	mestic Transportati	ion and Insurance, Local Cur	rency	Total, CIP (Nepal Border)	Total, Domestic Transportation and Insurance
		of Origin		Foreign Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha	Foreign Currency	Local Currency
1	2	3	4	5		6	3		7 = Σ6			8		9 = 5 x 7	10 = Σ(π(8 x 6))
			-	ů – Č	A	В		С	7 - 20	A	В	(	c	5-671	
	33 kV FEEDER / TAP OFF STRUCTURE								-						
<b>B.1</b>	Interconnection System								-						
	36 kV, 630 A, 25 kA Outdoor Type, Vacuum Circuit Breaker with Accessories all Complete		set		-	1.00	1.00		2.00						
2	36 kV, 630 A, 25 kA, isolator with earth switch including accessories all complete		set		-	2.00	2.00	-	4.00						
3	36 kV, 400 A/300 A Load Break Switch with accessories all complete		set		-	-	-	-	-						
4	30 kV, 10 kA, lighting arrestor with accessories all complete		set		-	1.00	1.00	-	2.00						
5	Three Core Current Transformer for 33 kV with accessories all complete as specified		set		-	1.00	1.00	-	2.00						
6	Two Core Potential Transformer for 33 kV including fuse with accessories all complete as specified		set		-	1.00	1.00	-	2.00						
7	Miscellaneous fitting accessories, ACSR Conductors and all accessories required for the tapping and bay extension work		set		1.00	1.00	1.00	1.00	4.00						
8	Marshalling Kiosk Box with Accessories all Complete for placement at tapping point		set		-	1.00	1.00	-	2.00						
<b>B Z</b>	Structures, insulators and busbars - For Bay								-						
1	33 kV pin insulators with supporting structures all complete		set		-	-	-	-	-						
2	Gantry Column, Girder structures for 33/11 kV substation, all complete as per specifications for each sub-project		ton		-	0.65	0.65	-	1.31						
3	33 kV outdoor bus bars (IPS tube, 800A) with all required insulators and complete accessories for bay extention, all complete		set		-	1.00	1.00	-	2.00						
4	36W, IP 65 Outdoor light for installation at Tap off Point/Switchyard/LILO point		set		-	1.00	1.00	-	2.00						
	Spare Parts								-						
	Load Break Switch								-						
	Complete Set of Load Break Switch used with Storage Compartment		set		-	-	-	-	-						

Name of Tenderer \_\_\_\_\_

### Nepal Electricity Authority Distribution and Consumer Services Directorate Distribution System Upgrade and Expansion Project Schedule of Rates and Prices

## Schedule No. 1: Plant and Mandatory Spare Parts Supplied from Abroad (Excluding Custom Duty and VAT applicable in Employer's Country)

$ \begin{array}{ c c c c c c c } \hline \begin begin begin$	ltem	Description	Country of	Unit	Unit Rate, CIP (Nepal Border)		Qua	antity		Total Quantity	Unit Rate, D	omestic Transportat	ion and Insura
1         2         3         4         5         A         B         C         7=18         A         B           C.3         24 Une         2         0 <td< th=""><th></th><th></th><th>Origin</th><th></th><th>Foreign Currency</th><th>Kolti Khatyad</th><th>Gamgadi Mangri</th><th>Gamgadi Simikot</th><th>Tumcha Tumcha</th><th></th><th>Kolti Khatyad</th><th>Gamgadi Mangri</th><th>Gamgadi Sir</th></td<>			Origin		Foreign Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Sir
A         B         CC         A         B           C.1         Conductors         -         <	1	2	3	4	5		- 	6		7 = Σ6			8
C.1         Conductors         Image: Conductor, Example, Sage and CSR WOLF Conductor, Kms.         Image: Conductor, Kms.         Image: Conductor, Sige and CSR WOLF Conductor, Conductor, Sige and Sige an						A	В		С	7 - 20	A	В	
Overhead ACSR WOLF Conductor, 100 g mu with 5% sag, approach cable and support structure (Clamp, able and support structure (Clamp, able and support structure (Clamp, able and support structure and ACSS Cable with 5% sag, approach cable and support structure (Clamp, able and support structure (Clamp, able and support structure and ACSS Cable with 5% sag, approach cable and support structure and ACSS Cable with 5% sag, approach cable and support structure and ACSS Cable with 5% sag, approach cable and support structure and ACSS CADA of Tapping Point to Substation and facility for data         Mms.         91.12         49.61         314.60         0.10         455.44         455.44           200 With 5% sag, approach cable and support structure (Clamp, ut bolts, shackle insulfation in future unander to other substation in future substation in future         mms.         30.37         16.54         100.23         0.02         147.16         Mms.           200 With 5% sag, approach caster and substation in future         mos.         61.00         34.00         202.00         1.00         298.00         298.00           201 Mith 5% sag, approach substation in future         mos.         61.00         34.00         202.00         1.00         298.00         202.00         1.00         298.00         202.00         1.00         298.00         202.00         1.00         298.00         2.00         1.00         298.00         1.00         298.00         2.00         1.00         2.00         1.00         2.00 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td>										-			
1 50 sg mm, with Sy Sag         (MBS)         (MBS	C.1									-			
190 sq mm. with 5% Sag         kms.         91.12         49.61         314.60         0.10         455.44           2         Overhead ACSR DOG Conductor, 100 sq mm. with 5% Sag         kms.         91.12         49.61         314.60         0.10         455.44         image: conductor, cobic and support structure (Clamp, nut bolts, shack lensations all) all scoreplete as prepetitications for SCADA of Tapping Point to Substition and facility for data transfer to other substation in future         kms.         30.37         16.54         100.23         0.02         147.16           4         Mds Span Joining Sleeve (Covered conductor, rated min 500A)         nos.         61.00         34.00         202.00         1.00         298.00           C2         Poles and accessories conductor, rated min 500A)         nos.         712.00         390.00         2.206.00         -         3.308.00         -           11 1M Steel Tobular Pole         nos.         712.00         390.00         2.206.00         -         8.308.00         -           2 Botk Strap         nos.         712.00         390.00         2.206.00         -         8.308.00         -         -           3 Botk With suitable nuts and washers nos.         1.962.00         677.00         3.648.00         -         6.282.00         -         -           <	1			kms		-	-		_	-			
100 sq mm. with 5% Sag       Mos       0.01 <t< td=""><td></td><td>150 sq mm. with 5% Sag</td><td></td><td>KINO.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		150 sq mm. with 5% Sag		KINO.									
100 sg mm. with 5% Sag         0.00         0.0	2	Overhead ACSR DOG Conductor,		kms		91 12	49.61	314.60	0.10	455 44			
cable and support structure (Camp, intuitions: shack in subards:		100 sq mm. with 5% Sag		KIII5.		51.12	40.01	014.00	0.10	+00.++			
nut bots, shackle insulators all) all ScoDA of Tapping Point to Substation and facility for data transfer to other substation in future       kms.       30.37       16.54       100.23       0.02       147.16       kms         4       Mid-Span Joining Sleave (Covered Conductor. rated min 500A)       nos.       61.00       34.00       202.00       1.00       298.00            C.2       Poles and accessories <td< td=""><td></td><td>ADSS Cable with 5% sag,approach</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		ADSS Cable with 5% sag,approach											
a) complete as preperifications for SCADA of Tapping Point to Substation and facility for data transfer to other substation in future       kms.       30.37       16.54       100.23       0.02       147.16       kms.       kms.         4       Mid-Span Joining Sleeve (Covered Conductor. rated min 500A)       nos.       61.00       34.00       202.00       1.00       298.00		cable and support structure (Clamp,											
SCADA of Tapping Point to Substation and facility for data transfer to other substation in future       nos.       61.00       34.00       202.00       1.00       298.00           Mid-Span Joining Sileeve (Covered Conductor. rated min 500A)       nos.       61.00       34.00       202.00       1.00       298.00 <td></td> <td>nut bolts, shackle insulators all) all</td> <td></td>		nut bolts, shackle insulators all) all											
Substation and facility for data transfer to other substation in future         nos.         61.00         34.00         202.00         1.00         298.00         .           4         Mid-Span Joining Sleeve (Covered Conductor, rated min 500A)         nos.         61.00         34.00         202.00         1.00         298.00         . <td>3</td> <td>complete as per specifications for</td> <td></td> <td>kms.</td> <td></td> <td>30.37</td> <td>16.54</td> <td>100.23</td> <td>0.02</td> <td>147.16</td> <td></td> <td></td> <td></td>	3	complete as per specifications for		kms.		30.37	16.54	100.23	0.02	147.16			
transfer to other substation in future         nos.         61.00         34.00         202.00         1.00         298.00            4         Mid-Span Joining Sleeve (Covered Conductor. rated min 500A)         nos.         61.00         34.00         202.00         1.00         298.00             C.2         Poles and accessories <td></td> <td>SCADA of Tapping Point to</td> <td></td>		SCADA of Tapping Point to											
Mid-Span_Joining Sleave (Covered Conductor. rated min 500A)         nos.         61.00         34.00         202.00         1.00         298.00         Image: Conductor for a conductor		Substation and facility for data											
Conductor. rated min 500A)         Intes.         0 1.00         34.00         202.00         1.00         258.00         0		transfer to other substation in future											
Conductor. rated min 500A)         Intes.         0 1.00         34.00         202.00         1.00         258.00         0		Mid-Span Joining Sleeve (Covered				64.00	04.00	000.00	1.00	200.00			
C.2         Poles and accessories         .	4			nos.		61.00	34.00	202.00	1.00	298.00			
Single Circuit Structure and Accessories         Single Circuit Structure and Accessories         Image: March and										-	1		
Accessories         Image: Control of the second secon	C.2	Poles and accessories								-			
Accessories         Image: Constraint of the state	C 2 1	Single Circuit Structure and											
2       Back Strap       nos.       1,962.00       672.00       3,648.00       -       6,282.00           3       Molfs x100 mm)       nos.       nos.       4,072.00       2,172.00       12,148.00       -       18,392.00             4       Boits with suitable nuts and washers (M16 x 25 mm)       nos.       470.00       176.00       900.00       -       1,546.00 <t< td=""><td>0.2.1</td><td>Accessories</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td></t<>	0.2.1	Accessories								-			
3Boits with suitable nuts and washers (M16 x 100 mm)nos.4,072.002,172.0012,148.00-18,392.004Boits with suitable nuts and washers (M16 x 235 mm)nos.470.00176.00900.00-1,546.005Boits with suitable nuts and washers (M16 x 235 mm)nos.1,426.00776.004,136.00-6,338.006Disc Type Insulator, set of three for 33 kVnos.1,962.006672.003,648.00-6,282.007666 mm)nos.nos.1,785.0010.03.005,736.00-4,792.008Insulator Pin for Pin Insulator of 33 kVnos.1,785.001,035.005,736.00-8,556.009PG Clamp for ACSR DOG/WOLFnos.1,785.001,035.005,736.00-8,556.0010Pin Type Insulator for 33 kVnos.1,785.001,035.005,736.00-8,556.0011Pole Clamp with Nut, bolt and wappers (Tc1) with channel and support structures all complete as per design and drawingsnos.1,080.00486.002,838.00-4,404.0012Vel Clamp with Nut, bolt and wappers (Tc2) with channel and support structures all complete as per design and drawingsnos1,080.00600.002,236.00-4,404.00	1	11 M Steel Tubular Pole		nos.		712.00	390.00	2,206.00	-	3,308.00			
(M16 x 100 mm)       India	2	Back Strap		nos.		1,962.00	672.00	3,648.00	-	6,282.00			
(M16 x 100 mm)       India	-	Bolts with suitable nuts and washers		nos		4 072 00	2 172 00	12 149 00		18 202 00			
4       (M16 x 235 mm)       Inds.       470.00       178.00       900.00       -       1,940.00       -       1,940.00       -       1,940.00       -       1,940.00       -       1,940.00       -       1,940.00       -       1,940.00       -       1,940.00       -       1,940.00       -       6,338.00       -       6,338.00       -       6,338.00       -       6,338.00       -       6,338.00       -       6,388.00       -       6,388.00       -       6,388.00       -       6,388.00       -       6,388.00       -       6,282.00       -       -       6,282.00       -       -       6,282.00       -       -       6,282.00       -       -       6,282.00       -		(M16 x 100 mm)		105.		4,072.00	2,172.00	12,140.00	-	10,392.00			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Bolts with suitable nuts and washers				470.00	176.00	000.00		1 546 00			
(M16 x 50 mm)       Image: Constraint of the for bisc Type Insulator, set of three for 33 kV       nos.       1,962.00       672.00       3,648.00       -       6,282.00         6       3 kV       nos.       nos.       956.00       600.00       3,236.00       -       4,792.00       -       4,792.00         8       Insulator Pin for Pin Insulator of 33 kV       nos.       1,785.00       1,035.00       5,736.00       -       8,556.00       -       -       -       4,792.00       -       <	4	(M16 x 235 mm)		nos.		470.00	176.00	900.00	-	1,546.00			
(M16 x 50 mm)       nos.       1,962.00       672.00       3,648.00       -       6,282.00         6       3 kV       nos.       1,962.00       670.00       3,236.00       -       4,792.00         7       Flat Crossarm Brace 33 kV (50 x 6 x 666 mm)       nos.       956.00       600.00       3,236.00       -       4,792.00         8       Insulator Pin for Pin Insulator of 33 kV       nos.       1,785.00       1,035.00       5,736.00       -       8,556.00         9       PG Clamp for ACSR DOG/WOLF       nos.       981.00       336.00       1,824.00       -       3,141.00       -         10       Pin Type Insulator for 33 kV       nos.       1,785.00       1,035.00       5,736.00       -       8,556.00       -         11       washers (TC1) with channel and support structures all complete as per design and drawings       nos.       1,080.00       486.00       2,838.00       -       4,404.00       -         12       Washers (TC2) with channel and washers (TC2) with channel and washers (TC2) with channel and       nos.       956.00       600.00       3 236.00       -       4,702.00		Bolts with suitable nuts and washers				4 400 00	770.00	4 4 2 0 0 0		6 229 00			
7       Flat Crossarm Brace 33 kV (50 x 6 x 66 mm)       nos.       956.00       600.00       3,236.00       -       4,792.00           8       Insulator Pin for Pin Insulator of 33 kV       nos.       1,785.00       1,035.00       5,736.00       -       8,556.00 </td <td></td> <td>I(M16 x 50 mm)</td> <td></td> <td>nos.</td> <td></td> <td>1,426.00</td> <td>//6.00</td> <td>4,136.00</td> <td>-</td> <td>0,330.00</td> <td></td> <td></td> <td></td>		I(M16 x 50 mm)		nos.		1,426.00	//6.00	4,136.00	-	0,330.00			
7Flat Crossarm Brace 33 kV (50 x 6 x 66 mm)nos.nos.956.00600.003,236.00-4,792.008Insulator Pin for Pin Insulator of 33 kVnos.nos.1,785.001,035.005,736.00-8,556.00		Disc Type Insulator, set of three for				4 000 00	070.00	0.040.00		0.000.00	1		
7Flat Crossarm Brace 33 kV (50 x 6 x 66 mm)nos.nos.956.00600.003,236.00-4,792.008Insulator Pin for Pin Insulator of 33 kVnos.nos.1,785.001,035.005,736.00-8,556.00	Ċ	33 kV		nos.		1,962.00	672.00	3,648.00	-	6,282.00			
bbb mm       Insulator pin for Pin Insulator of 33 kV       nos.       1,785.00       1,035.00       5,736.00       -       8,556.00       Image: Composition of 33 kV       Image: Composition of 32 kV <t< td=""><td>_</td><td>Flat Crossarm Brace 33 kV (50 x 6 x</td><td></td><td></td><td></td><td>050.00</td><td>c00.00</td><td>2 220 00</td><td></td><td>4 700 00</td><td></td><td></td><td></td></t<>	_	Flat Crossarm Brace 33 kV (50 x 6 x				050.00	c00.00	2 220 00		4 700 00			
KV       Image: Normal State       Im	1	666 mm)		nos.		956.00	600.00	3,236.00	-	4,792.00			
KV       Image: Construction of the constructi		Insulator Pin for Pin Insulator of 33				4 705 00	4 025 00	F 700 00		9 556 00			
10Pin Type Insulator for 33 kVnos.1,785.005,736.00-8,556.0011Pole Clamp with Nut, bolt and washers (TC1) with channel and support structures all complete as per design and drawingsnos.1,080.00486.002,838.00-4,404.00Image: Clamp with Nut, bolt and support structures all complete as per design and drawingsnos.1,080.00486.002,838.00-4,404.00Image: Clamp with Nut, bolt and washers (TC2) with channel andnos.N	č	<sup>3</sup> kV		nos.		1,785.00	1,035.00	5,736.00	-	0,000.00			
Pole Clamp with Nut, bolt and washers (TC1) with channel and support structures all complete as per design and drawings       nos.       1,080.00       486.00       2,838.00       -       4,404.00       Image: Complete as an and a complete as a per design and drawings         12       Pole Clamp with Nut, bolt and washers (TC2) with channel and       nos.       956.00       600.00       3,236.00       -       4,792.00	ç	PG Clamp for ACSR DOG/WOLF		nos.		981.00	336.00	1,824.00	-	3,141.00			
Pole Clamp with Nut, bolt and washers (TC1) with channel and support structures all complete as per design and drawings       nos.       1,080.00       486.00       2,838.00       -       4,404.00       Image: Complete as an and a complete as a per design and drawings         Pole Clamp with Nut, bolt and washers (TC2) with channel and washers (TC2) with channel and       nos.       1,080.00       486.00       2,838.00       -       4,404.00       Image: Complete as a per design and drawings						1,785.00	1,035.00	5,736.00	-				
11       washers (TC1) with channel and support structures all complete as per design and drawings       nos.       1,080.00       486.00       2,838.00       -       4,404.00       Image: Complete as per design and drawings         Pole Clamp with Nut, bolt and washers (TC2) with channel and       nos.       956.00       600.00       3,236.00       -       4,792.00													
11       support structures all complete as per design and drawings       nos.       1,080.00       486.00       2,838.00       -       4,404.00		washers (TC1) with channel and				4 000 00	400.00	0.000.00		4 40 4 00			
per design and drawings       Image: Clamp with Nut, bolt and       Im	11			nos.		1,080.00	486.00	2,838.00	-	4,404.00			
Pole Clamp with Nut, bolt and washers (TC2) with channel and pos 956.00 600.00 3.236.00 4.792.00													
12 washers (TC2) with channel and nos		Pole Clamp with Nut, bolt and				1							
12 support structures all complete as     nos.   956.00   600.00   3,236.00   -   4,792.00		washers (TC2) with channel and											
	12	support structures all complete as		nos.		956.00	600.00	3,236.00	-	4,792.00			
per design and drawings													

rance, L	ocal Currency	Total, CIP (Nepal Border)	Total, Domestic Transportation and Insurance
Simikot	Tumcha Tumcha	Foreign Currency	Local Currency
		9 = 5 x 7	10 = Σ(π(8 x 6))
	С		

Name of Tenderer \_\_\_\_\_

#### Nepal Electricity Authority Distribution and Consumer Services Directorate Distribution System Upgrade and Expansion Project

Schedule of Rates and Prices

## Schedule No. 1: Plant and Mandatory Spare Parts Supplied from Abroad (Excluding Custom Duty and VAT applicable in Employer's Country)

ltem	Description	Country of	Unit	Unit Rate, CIP (Nepal Border)		Qua	ntity		Total Quantity	Unit Rate, Do	omestic Transportat	ion and Insurance, I	Local Currency	Total, CIP (Nepal Border)	Total, Domestic Transportation and Insurance
		Origin		Foreign Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Foreign Currency	Local Currency
<u> </u>												8			
1	2	3	4	5	Α	В		С	7 = Σ6	Α	В		С	9 = 5 x 7	10 = Σ(π(8 x 6))
13	Pole Clamp with Nut, bolt and washers, Bottom Bracing (TC5) with channel and support structures all complete as per design and drawings		nos.		184.00	48.00	316.00	-	548.00						
14	Pole Clamp with Nut, bolt and washers, Top Bracing (TC4) with channel and support structures all complete as per design and drawings		set		184.00	48.00	316.00	-	548.00						
15	Preformed Pin Ties, Top Ties		set		1,785.00	1,035.00	5,736.00	-	8,556.00						
10	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 1800 mm)		nos.		235.00	88.00	450.00	-	773.00						
	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 1900 mm)		set		243.00	212.00	1,168.00	-	1,623.00						
18	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 2416 mm)		nos.		92.00	24.00	158.00	-	274.00						
19	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 2919 mm)		nos.		184.00	48.00	316.00	-	548.00						
	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 3300 mm)		nos.		117.00	45.00	294.00	-	456.00						
21	(100 x 5 x 350 mm)		nos.		276.00	72.00	474.00	-	822.00						
22	Eye		nos.		1,962.00	672.00	3,648.00	-	6,282.00						
	Double Circuit Structure and Accessories								-						
	13 m Steel Tubular Pole		nos.		-	-	111.00	4.00	115.00						
	Back Strap		nos.		-	-	516.00	24.00	540.00						
3	Bolts with suitable nuts and washers (M16 x 100 mm)		nos.		-	-	1,224.00	40.00	1,264.00						
4	Bolts with suitable nuts and washers (M16 x 235 mm)		nos.		-	-	168.00	-	168.00						
5	Bolts with suitable nuts and washers (M16 x 50 mm)		nos.		-	-	387.00	-	387.00						
6	Disc Type Insulator, set of three for 33 kV		nos.		-	-	516.00	24.00	540.00						
7	Flat Crossarm Brace 33 kV (50 x 6 x 666 mm)		nos.		-	-	438.00	-	438.00						
8	Insulator Pin for Pin Insulator of 33 kV		set		-	-	552.00	12.00	564.00						
	PG Clamp for ACSR DOG/WOLF		set		-	-	258.00	12.00	270.00						
10	Pin Type Insulator for 33 kV		nos.		-	-	552.00	12.00	564.00						

Name of Tenderer \_\_\_\_\_

#### Nepal Electricity Authority Distribution and Consumer Services Directorate Distribution System Upgrade and Expansion Project Schedule of Rates and Prices

## Schedule No. 1: Plant and Mandatory Spare Parts Supplied from Abroad (Excluding Custom Duty and VAT applicable in Employer's Country)

ltem	Description	Country of	Unit	Unit Rate, CIP (Nepal Border)		Qua	antity		Total Quantity	Unit Rate, Do	omestic Transportat	ion and Insura
		Origin		Foreign Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Sir
4	2	2	4	E			6		7 - 56			8
1	2	3	4	5	A	В		C	7 = Σ6	A	В	
11	Pole Clamp with Nut, bolt and washers (TC1) with channel and support structures all complete as per design and drawings		set		-	-	333.00	12.00	345.00			
12	Pole Clamp with Nut, bolt and washers (TC2) with channel and support structures all complete as per design and drawings		nos.		-	-	219.00	-	219.00			
13	Pole Clamp with Nut, bolt and washers, Bottom Bracing (TC5) with channel and support structures all complete as per design and drawings		nos.		-	-	30.00	4.00	34.00			
14	Pole Clamp with Nut, bolt and washers, Top Bracing (TC4) with channel and support structures all complete as per design and drawings		nos.		-	-	30.00	4.00	34.00			
15	Preformed Pin Ties, Top Ties		nos.		-	-	552.00	12.00	564.00			
16	7.5 x 4.7 x 1600 mm)		nos.		-	-	15.00	2.00	17.00			
17	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 1640 mm)		nos.		-	-	15.00	2.00	17.00			
18	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 1700 mm)		nos.		-	-	393.00	12.00	405.00			
19	17.5 x 4.7 x 2500 mm)		nos.		-	-	12.00	-	12.00			
20	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 2610 mm)		nos.		-	-	30.00	4.00	34.00			
21	Strap for Insulator String for 33 kV (100 x 5 x 350 mm)		nos.		-	-	90.00	12.00	102.00			
22	Tension Set with Ball and Socket Eye		nos.		-	-	516.00	24.00	540.00			
C.2	Stay Set								-			
1	Pole Clamp with Nut, bolt and washers (TC3) use for 11 m Steel Tubular Pole with channel and support structures all complete as per design and drawings		nos.		364.00	103.00	682.00	2.00	1,151.00			
2	Pole Clamp with Nut, bolt and washers (TC3) use for 13 m or 14.5 m Steel Tubular Pole with channel and support structures all complete as per design and drawings		nos.		-	-	-	-	-			

rance, L	ocal Currency	Total, CIP (Nepal Border)	Total, Domestic Transportation and Insurance
Simikot	Tumcha Tumcha	Foreign Currency	Local Currency
	C	9 = 5 x 7	10 = Σ(π(8 x 6))

Name of Tenderer

#### Nepal Electricity Authority Distribution and Consumer Services Directorate Distribution System Upgrade and Expansion Project

#### Schedule of Rates and Prices

## Schedule No. 1: Plant and Mandatory Spare Parts Supplied from Abroad (Excluding Custom Duty and VAT applicable in Employer's Country)

Description	Country of Origin	Unit	Unit Rate, CIP (Nepal Border)		Qua	antity		Total Quantity	Unit Rate, Do	mestic Transportati	ion and Insurance, I	Local Currency	Total, CIP (Nepal Border)	Total, Domestic Transportation and Insurance
	ongin		Foreign Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Foreign Currency	Local Currency
2	3	4	5		_	6		7 = Σ6		{ 	8	-	9 = 5 x 7	10 = Σ(π(8 x 6))
				A	В		С		A	В		С		
Its with suitable nuts and washers 16 x 50 mm)		nos.		728.00	206.00	1,364.00	4.00	2,302.00						
Its with suitable nuts and washers 16 x 100 mm)		nos.		728.00	206.00	1,364.00	4.00	2,302.00						
ay Wire, (7/10 SWG minimum)		kg		3,640.00	1,030.00	6,820.00	20.00	11,510.00						
ay/Guy Insulator		nos.		364.00	103.00	682.00	2.00	1,151.00						
ay Turn Buckle including Thimble, 3 SWG minimum)		nos.		364.00	103.00	682.00	2.00	1,151.00						
ay I bolt, (12 inch minimum)		0		364.00	103.00	682.00	2.00	1,151.00						
ay I Rod/Anchor Rod, (minimum 00 mm)		nos.		364.00	103.00	682.00	2.00	1,151.00						
w set with Thimble		nos.		364.00	103.00	682.00	2.00	1,151.00						
ay Grip		nos.		364.00	103.00	682.00	2.00	1,151.00						
Ivanized Steel Stay Plate for tallation Underground, (600 x 600 mm minimum)		nos.		364.00	103.00	682.00	2.00	1,151.00						
ecial Components								-						
5 m Steel Tubular Pole		nos.		1.00	1.00	4.00	-	6.00						
ecial 33 kV gantry type tower for er/road/valley crossings(approx an 350 m), all complete including dy extensions of 9m, tower rthing material, tower accessories - ti Climbing Device, Bird Guards, ates (Danger, Number, Phase, cuit)		ton		-	-	10.80	-	10.80						
d Guard in Poles as per project juirement (1 set consists of mplete set required for a pole)		set		10.00	10.00	30.00	-	50.00						
ti Clir ates ( cuit) d Gu quirer	nbing Device, Bird Guards, Danger, Number, Phase, ard in Poles as per project nent (1 set consists of	nbing Device, Bird Guards, Danger, Number, Phase, ard in Poles as per project nent (1 set consists of	nbing Device, Bird Guards, Danger, Number, Phase, ard in Poles as per project nent (1 set consists of set	mbing Device, Bird Guards,         Danger, Number, Phase,         ard in Poles as per project         nent (1 set consists of	mbing Device, Bird Guards, Danger, Number, Phase,       Image: Comparison of the set of	mbing Device, Bird Guards, Danger, Number, Phase,     Image: Comparison of the set       ard in Poles as per project nent (1 set consists of     set     10.00	mbing Device, Bird Guards, Danger, Number, Phase,     Image: Comparison       ard in Poles as per project nent (1 set consists of     set       10.00     10.00	mbing Device, Bird Guards, Danger, Number, Phase,     and in Poles as per project       ard in Poles as per project     set       nent (1 set consists of     set	mbing Device, Bird Guards, Danger, Number, Phase,Image: Danger Phase,Image: Danger Phase,Image: Danger Phase,ard in Poles as per project nent (1 set consists ofset10.0010.0030.00-50.00	mbing Device, Bird Guards, Danger, Number, Phase,       Image: Number, Phase,<	mbing Device, Bird Guards, Danger, Number, Phase,       Image: Number, Phase, Number, Phase,       Image: Number, Phase, Num, Number, Phase, Num, Num, Num, Num, Num, N	mbing Device, Bird Guards, Danger, Number, Phase,       Image: Number, Phase, Number, Phase,       Image: Number, Phase, Num, Number, Phase, Num, Num, Num, Num, Num, N	mbing Device, Bird Guards, Danger, Number, Phase, ard in Poles as per project nent (1 set consists of e set required for a pole) set set 10.00 10.00 10.00 30.00 - 50.00 10.00	mbing Device, Bird Guards, Danger, Number, Phase, ard in Poles as per project nent (1 set consists of e set required for a pole) set 10.00 10.00 10.00 30.00 - 50.00 10.00 10.00 30.00 - 50.00 1

Name of Tenderer \_\_\_\_\_

### Nepal Electricity Authority Distribution and Consumer Services Directorate Distribution System Upgrade and Expansion Project Schedule of Rates and Prices

## Schedule No. 1: Plant and Mandatory Spare Parts Supplied from Abroad (Excluding Custom Duty and VAT applicable in Employer's Country)

ltem	Description	Country of Origin	Unit	Unit Rate, CIP (Nepal Border)		Qu	antity		Total Quantity	Unit Rate, Do	omestic Transportat	ion and Insurance,	Local Currency	Total, CIP (Nepal Border)	Total, Domestic Transportation and Insurance
		Crigin		Foreign Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Foreign Currency	Local Currency
1	2	3	4	5			6	-	7 = Σ6			8		9 = 5 x 7	10 = Σ(π(8 x 6))
		5	-	5	A	В		C	7 - 20	A	В		С	9=3×1	10 - 2(11(0 × 0))
	Under Ground Cable								-						
1	33kV Underground Power Cable (Al conductor, XLPE insulated, 400		kms		-	-	-	-	-	-	-	-	-		
	sq.mm., Single core, armoured)														<u> </u>
2	48 Core ADSS Cable for Underground Installation along the length of UGC		kms		-	-	-	-	-	-	-	-	-		
3	36kV Straight Through Joints (single - core 3 nos. per set) including all accessories complete		set		-	-	-	-	-	-	-	-	-		
4	33kV Cable Termination Kit Outdoor Type (single - core 3 nos. per set) including all accessories complete		set		-	-	-	-	-	-	-	-	-		
5	Flexible Pipe (225mm dia) for laying Single Core UG Cable, ADSS Cable including all accessories complete		kms		-	-		-	-	-	-	-	-		
	HDPE Pipe (225mm dia, 6kg) for laying Single Core UG Cable, ADSS Cable at road crossings including all accessories complete		kms		-	-	-	-	-	-	-	-	-		
7	Sheath Voltage Limitor including all accessories complete (3 Nos. per set)		set		-	-	-	-	-	-	-	-	-		
8	33kV Power Fuse (Drop Out Type) including all accessories complete		set		-	-	-	-	-	-	-	-	-		
9	30 kV, 10 kA Pole Mounted Lightning Arrester including all accessories complete		set		-	-	-	-	-	-	-	-	-		

Name of Tenderer \_\_\_\_\_

## Distribution and Consumer Services Directorate

## Distribution System Upgrade and Expansion Project

## Schedule of Rates and Prices

Summary of Schedule No. 2: Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Excluding VAT applicable in Employer's Country)

Schedule No.	Title	Total	Price
Schedule NO.	inte inte	Foreign Currency	Local Currency
Α.	SUBSTATION		
В.	33 kV FEEDER / TAP OFF STRUCTURE		
С.	33 kV LINE		
D.	UNDERGROUND CABLE		
	Grand Total to be carried forward to Schedule 5		

Name of Tenderer \_\_\_\_\_

## Distribution and Consumer Services Directorate

## Distribution System Upgrade and Expansion Project

### Schedule of Rates and Prices

#### Schedule No. 2: Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Excluding VAT applicable in Employer's Country)

ltem	Description	Unit	Unit Rate, EXWorks		Qua	intity		Total Quantity	Unit Rate, Do	omestic Transportati	on and Insurance, Local Currency	Total EXW Price	Total, Domestic Transportation and	LC: NPR Total Price
nem	Description		Local Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot Tumcha Tumcha	Local Currency	Insurance Local Currency	Local Currency
1	2	3	4	A	В	5	С	6 = Σ5	A	В	7 C	8 = 4 x 6	9 = Σ(π(5 x 7))	10 = 8 + 9
Α.	SUBSTATION													
A.1	Power Transformers													
1	With all accessories	set		-	-	-	-							
	33/11 kV 6/8 MVA copper wound power transformer, CRGO core (with OLTC and RTCC Panel) complete with all accessories	set		-	-	-	-							
	33/11 kV 3 MVA copper wound power transformer, CRGO core	set		-	-	-	-							
2	33/11 kV 1 MVA copper wound power transformer, CRGO core	set		-	-	-	-							
Ę	33/11 kV 500 kVA copper wound power transformer, CRGO core	set		2.00	2.00	2.00	2.00							
<b>A.2</b>	36 kV System         36 kV, 630 A, 25 kA Outdoor Type,         1 Vacuum Circuit Breaker with         Accessories all Complete	set		1.00	1.00	1.00	2.00							
	36 kV, 630 A, 25 kA, isolator with earth switch including accessories all complete			2.00	2.00	2.00	4.00							
3	36 kV, 40 A, Load Break Switch with accessories all complete	set		2.00	2.00	2.00	2.00							
2	<sup>1</sup> 36 kV, 4 A, Load Break Switch with accessories all complete	set		1.00	1.00	1.00	1.00							
Ę	Two Core Potential Transformer for 5 33 kV including fuse with accessories all complete as specified	set		2.00	2.00	2.00	3.00							
6	Three Core Current Transformer for 5 33 kV with accessories all complete as specified	set		1.00	1.00	1.00	2.00							
7	Two Core Bushing CT for 33/11 kV 7 Power Transformer with accessories all complete as specified.	set		-	-	-	-							
	Two Core CT for neutral side of 33/11 kV Power Transformer with accessories all complete as specified.	set		2.00	2.00	2.00	2.00							
ę	30 kV, 10 kA, lighting arrestor with accessories all complete	set		4.00	4.00	4.00	5.00							

Name of Tenderer \_\_\_\_\_

#### Distribution and Consumer Services Directorate Distribution System Upgrade and Expansion Project

## Schedule of Rates and Prices

#### Schedule No. 2: Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Excluding VAT applicable in Employer's Country)

														LC: NPR
Item	Description	Unit	Unit Rate, EXWorks		Qu	antity		Total Quantity	Unit Rate, Do	pmestic Transportation and Insuranc	e, Local Currency	Total EXW Price	Total, Domestic Transportation and Insurance	Total Price
			Local Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri Gamgadi Simikot	Tumcha Tumcha	Local Currency	Local Currency	Local Currency
1	2	3	4			5		6 = Σ5		7		8 = 4 x 6	9 = Σ(π(5 x 7))	10 = 8 + 9
· ·	-			A	В		С	0 - 20	A	В	С	0-470	0 - 2(ii(0 x / ))	10 - 0 + 0
	33kV Outdoor Busbar (IPS tube,													
10	800A) with required insulators and	set		1.00	1.00	1.00	1.00							
	accessories as well as any cables	301		1.00	1.00	1.00	1.00							
	necessary in 33 kV side all complete													
	33/11 kV Transformer Control and													
	1 1	set		2.00	2.00	2.00	2.00							
	accessories as per specification													
	33 kV Protection Control and Relay													
		set	et 🛛	1.00	1.00	1.00	2.00							
	as per specification for Line Bays													
	Marshalling Kiosk Box with													
	Accessories all Complete (1 set	set		1.00	1.00	1.00	1.00							
	refers to complete set in a													
	substation)													
A.3	12 kV System													
A.9														
	12 kV Indoor VCB, with Control and													
		set		5.00	5.00	5.00	5.00							
	accessories all complete as specified													
	12 kV, 25 kA, Indoor Earth Switch			1	1				1					
2		set		2.00	2.00	2.00	2.00							
	specified													
2	9 kV, 10 kA, lighting arrestor with	aat		4.00	4.00	4.00	4.00							
3	accessories all complete	set		4.00	4.00	4.00	4.00							

Name of Tenderer \_\_\_\_\_

## Distribution and Consumer Services Directorate

Distribution System Upgrade and Expansion Project

#### Schedule of Rates and Prices

Schedule No. 2: Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Excluding VAT applicable in Employer's Country)

Item	Description	Unit	Unit Rate, EXWorks	5	Quan	tity		Total Quantity	Unit Rate, Do	omestic Transportat	ion and Insuranc	e, Local Currency	Total EXW Price	Total, Domestic Transportation and Insurance	LC: NPR Total Price
			Local Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi imikot	Tumcha Tumcha	,	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Local Currency	Local Currency	Local Currency
1	2	3	4		5		Į	6 = Σ5			7		8 = 4 x 6	9 = Σ(π(5 x 7))	10 = 8 + 9
	L			A	В		С	0 - 23	A	В		с	0-420	3 - 2(ii(3 × 7))	10 - 0 + 3
A 4	Station Sumply Sustan														
A.4	Station Supply System 33/0.4 kV 100 kVA station														
1	transformer	set		1.00	1.00	1.00	1.00								l
2	AC Distribution System Including Accessories all Complete as per specifications(1 set includes complete lot for substation including all buildings and constructions with necessary earthing works inside the substation) Portable Diesel Generator, 10 kVA,	set		1.00	1.00	1.00	1.00								
3	400 V including grid interconnection setup, relay, control units and associated panels, as per specifications	set		1.00	1.00	1.00	1.00								L
A.5	DC System														
1	250 Ah, 110 V maintenance free batteries including complete accessories	set		1.00	1.00	1.00	1.00								
2	Battery Charging unit (110 V) with accessories all complete	set		1.00	1.00	1.00	1.00								
3	DC Distribution System including accessories all complete as per specifications(1 set includes complete lot for substation)	set		1.00	1.00	1.00	1.00								
A.6	Cables														
<b>A.0</b>	11 kV XLPE Cable 3 Core 300 sq mm (Armoured)	m		-	-	-	-								
2	11 kV XLPE Cable 3 Core 185 sq mm (Armoured)	m		25.00	25.00	25.00	25.00								
3	11 kV XLPE Cable 3 Core 120 sq mm (Armoured)	m		50.00	50.00	50.00	50.00								
4	11 kV 3-core heat shrinkable Indoor Cable termination kit 185/300/120 sq mm	set		4.00	4.00	4.00	4.00								<u> </u>
5	11 kV 3-core heat shrinkable outdoor Cable termination kit 185/120 sq mm	set		4.00	4.00	4.00	4.00								
6	Control cables including accessories complete (1 set includes source bay and destination bay together)(1 set includes complete lot for substation)	set		1.00	1.00	1.00	1.00								

Name of Tenderer \_\_\_\_\_

## Distribution and Consumer Services Directorate

#### Distribution System Upgrade and Expansion Project Schedule of Rates and Prices

#### Schedule No. 2: Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Excluding VAT applicable in Employer's Country)

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Item	Description	Unit	Unit Rate, EXWorks	•	Quant	-		Total Quantity	Unit Rate, Do	mestic Transportat		, Local Currency	Total EXW Price	Total, Domestic Transportation and Insurance	LC: NPR Total Price
1       2       A $\overline{\mu}$				Local Currency	Kolti Khatyad	Gamgadi Mangri Si	amgadi mikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Local Currency	Local Currency	Local Currency
I.1 W power and lighting cable, including DC dictury for all works in Bease withing cancered lighting cable, including DC dictury for all works in Bease withing cancered lighting cable, including DC dictury for all works in Bease withing cancered lighting cable, including DC dictury for all works in Bease withing cancered lighting cable, including DC dictury for all works in Bease withing cancered lighting cable, including DC dictury for all works in Bease withing cancered lighting cable, including CD dictury and By constraints including CD dictury and Andreant in the substraints including CD dictury and Andreant in the substraints including CD dictury and Andreant in the substraint in the subs	1	2	3	4		· · · · · · · · · · · · · · · · · · ·			6 <del>-</del> Σ5		-			8 - 4 x 6	$\Theta = \Sigma (\pi (5 \times 7))$	10 - 8 + 9
Including DC circuity for all works in the second system       ethods       1.00       1					A	В		С	0 - 23	A	В		С	0-4.0	3 - 2(ii(3 x / ))	10 = 0 + 3
$^{4'}$ SCADASCADAII </td <td>including DC of the switchyard beauty lighting</td> <td>circuitry for all works in d, outdoor lighting, g all complete (1 set</td> <td>set</td> <td></td> <td>1.00</td> <td>1.00</td> <td>1.00</td> <td>1.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	including DC of the switchyard beauty lighting	circuitry for all works in d, outdoor lighting, g all complete (1 set	set		1.00	1.00	1.00	1.00								
Numerical relay controller with other indicative instruments. SCADA system shall communicate with A penels. Bay Control Units of 33 kV Feeder, 11kV ACDB at along with necessary hardware & Software & Ifore optic cable etc. all complete with one necessary accessories adhering to the substation of 15 orderen.1.001		and Control System -														
2       equivalent with 512 GB SSD and 1       set       1.00	Numerical rela with other indi instruments. S communicate Control Units of switchgear pa ACDB etc alor hardware & S cable etc. all of necessary aco the Technical requirement for	ay cum Bay controller icative/measuring SCADA system shall with C & R panels, Bay of 33 kV Feeder, 11kV anel, battery charger, ong with necessary oftware & fibre optic complete with cessories adhering to Specifications and or the substation.(1 set			1.00	1.00	1.00	1.00								
desktop and 15 " screen       or	2 equivalent witl GB HDD, 24 "	h 512 GB SSD and 1 " two screen,	set		1.00	1.00	1.00	1.00								
Switchyard Lightning Protection       System, Earthing arrangement,       Including protection for Control       Including protection for Control       Including and other structures inside       set       1.00	3 Laptop, with s desktop and 1	same configuration as 15 " screen	set		1.00	1.00	1.00	1.00								
Switchyard Lightning Protection       System, Earthing arrangement,       Including protection for Control       Including protection for Control       Including and other structures inside       set       1.00	A 8 Grounding S	System														
	Switchyard Lig System, Earth Including prote 1 building and o the substation the substation	ghtning Protection ning arrangement, ection for Control other structures inside n area as essential in n all complete(1 set	set		1.00	1.00	1.00	1.00								
			ton		0.14	0.14	0.14	0.14								

Name of Tenderer \_\_\_\_\_

#### Distribution and Consumer Services Directorate

## Distribution System Upgrade and Expansion Project

#### Schedule of Rates and Prices

#### Schedule No. 2: Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Excluding VAT applicable in Employer's Country)

Item	Description	Unit	Unit Rate, EXWorks		Qua	antity		Total Quantity	Unit Rate, Do	omestic Transportat	ion and Insura	nce, Local Currenc
			Local Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tum
1	2	3	4		1	5		6 = Σ5			7	
				A	В		C		A	В		С
	Switchyard and Substation yard lighting with 36 W, IP 65 LED with at least 20 lux elsewhere and 200 lux at switchyard, as per site conditions all complete(1 set includes complete lot for substation)	set		1.00	1.00	1.00	1.00					
A.10	Outdoor Gantry and Support Structures											
	Gantry Column, Support Structures, Girder structures for 33/11 kV substation, all complete as per specifications for each sub-project	ton		4.12	4.12	4.12	6.65					
2	Chequered Plate for Cable Trench in Control Building of thickness as mentioned in Technical Specification with accessories all complete as for specifications	ton		0.67	0.67	0.67	0.67					
A.11	11 kV Overhead Line Feeder Components											
	9 kV, 10 kA, Pole Mounted lighting arrestor with accessories all complete	set		2.00	2.00	2.00	2.00					
2	Pole Mounted Isolator, for 11 kV with accessories all complete			2.00	2.00	2.00	2.00					
A.12	SPARE PARTS											
A.12	For Transformers											
	33 kV and 11 kV Bushing(one of each type)	set		1.00	1.00	1.00	1.00					
2	2 Dial type Thermometers	set		1.00	1.00	1.00	1.00					
	Oil Level Gauges	set		1.00	1.00	1.00	1.00					
	Insulating Oil (10% of total supply)	set		1.00	1.00	1.00	1.00					
	Indicating Lamps (25% of used)	set		1.00	1.00	1.00	1.00					
6	All types of Fuses (25% of used)	set		1.00	1.00	1.00	1.00					
7	Complete set of Gaskets of each type	set		1.00	1.00	1.00	1.00					
8	Complete set of Pressure Relief	set		1.00	1.00	1.00	1.00					
	All type of Auxiliary, Relays, Contactors and Timers for control, protection and cooling circuit(one of each type)	set		1.00	1.00	1.00	1.00					
1(	OLTC Motor Contactor	set	1	1.00	1.00	1.00	1.00				1	

			LC: NPR
rency	Total EXW Price	Total, Domestic Transportation and Insurance	Total Price
Tumcha	Local Currency	Local Currency	Local Currency
;	8 = 4 x 6	9 = Σ(π(5 x 7))	10 = 8 + 9
		1	

Name of Tenderer \_\_\_\_\_

#### Distribution and Consumer Services Directorate Distribution System Upgrade and Expansion Project

## Schedule of Rates and Prices

#### Schedule No. 2: Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Excluding VAT applicable in Employer's Country)

														I	LC: NPR
Item	Description	Unit	Unit Rate, EXWorks		Qua	ntity		Total Quantity	Unit Rate, Do	mestic Transportat	ion and Insurance,	, Local Currency	Total EXW Price	Total, Domestic Transportation and Insurance	Total Price
			Local Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Local Currency	Local Currency	Local Currency
4	1 2		4		5	5		6 = Σ5			7		8 = 4 x 6	9 = Σ(π(5 x 7))	10 = 8 + 9
1	Z	3	4	Α	В		С	6 - 25	Α	В		C	0 = 4 X 0	9 - 2(11(5 X 7))	10 = 8 + 9
11	Complete set of Buchholz relay	set		1.00	1.00	1.00	1.00								1
12	OLTC motor	set		1.00	1.00	1.00	1.00								

Name of Tenderer \_\_\_\_\_

Distribution and Consumer Services Directorate

#### Distribution System Upgrade and Expansion Project Schedule of Rates and Prices

Schedule No. 2: Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Excluding VAT applicable in Employer's Country)

	Description		Unit Rate, EXWorks		Qu	antity		Total Quentita	Unit Rate, Do	omestic Transportation and Insurar	nce, Local Currency	Total EXW Price	Total, Domestic Transportation and	LC: NPR Total Price
ltem	Description	Unit	Local Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Total Quantity	Kolti Khatyad	Gamgadi Mangri Gamgadi Simikot	Tumcha Tumcha	Local Currency	Insurance Local Currency	Local Currency
1	2	3	4		P	5	0	6 = Σ5		7		8 = 4 x 6	9 = Σ(π(5 x 7))	10 = 8 + 9
40	Matana fan maakaniam af aaak tuma			A 1.00	<b>B</b> 1.00	1.00	<b>c</b> 1.00		A	В	С			
	3 Motors for mechanism of each type	sei		1.00	1.00	1.00	1.00							
Δ 12 2	For 33 kV Circuit Breaker													
	Tripping Coils	set		1.00	1.00	1.00	2.00							
	2 Closing Coils	set		1.00	1.00	1.00	2.00							
	Relays and Contactors (One of each type)	set		1.00	1.00	1.00	1.00							
4	1 Motors for Mechanism	set		1.00	1.00	1.00	2.00							
	5 Interrupter for VCB	set		1.00	1.00	1.00	2.00							
A.12.3	For 33 kV Disconnecting Switch													
1	Porcelain insulator	set		2.00	2.00	2.00	4.00							
2	Main contact assemblies including grounding blades	set		2.00	2.00	2.00	4.00							
3	Auxilliary contacts	set		2.00	2.00	2.00	4.00							
	Interlocking Coil	set		2.00	2.00	2.00	4.00							
A.12.4	For 33 kV Instrument Transformers													
1	Two Core Potential Transformer for 33 kV including fuse with accessories all complete as specified (1 Set = 3 Phase)	set		1.00	1.00	1.00	1.00							
2	Three Core Current Transformer for 2 33 kV with accessories all complete as specified (1 Set = 3 Phase)	set		1.00	1.00	1.00	1.00							
A 40 E														
1	Lightning Arrestor 30 kV Lightning Arrestor (1 Set = 3 Phase)	set		1.00	1.00	1.00	1.00							
2	2 9 kV Lightning Arrestor (1 Set = 3 Phase)	set		1.00	1.00	1.00	1.00							
	For 33 kV Control & Relay panel													
	I Indicating Lamps (50% of used)	set		1.00	1.00	1.00	1.00							
2	2 Fuses of each type(50% of used)	set		1.00	1.00	1.00	1.00							
	Color Caps of each color for indicating lamps (30% of used)	set		1.00	1.00	1.00	1.00							
4	One of each type of Switch, Timer and other special devices	set		1.00	1.00	1.00	1.00							
5	3 Phase Over Current Relays with Earthfault Inbuilt	set		1.00	1.00	1.00	1.00							
6	3 Phase Transformer Differential Relays	set		1.00	1.00	1.00	1.00							
7	7 Each type of Auxiliary Relay	set		1.00			1.00							
8	3 Ammeter	set		1.00	1.00	1.00	1.00							

Name of Tenderer \_\_\_\_\_

## Distribution and Consumer Services Directorate

#### Distribution System Upgrade and Expansion Project Schedule of Rates and Prices

#### Schedule No. 2: Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Excluding VAT applicable in Employer's Country)

															LC: NPR
Item	Description	Unit	Unit Rate, EXWorks		Qu	antity		Total Quantity	Unit Rate, Do	omestic Transportat		ce, Local Currency	Total EXW Price	Total, Domestic Transportation and Insurance	Total Price
			Local Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Local Currency	Local Currency	
1	2	3	4			5		6 = Σ5			7		8 = 4 x 6	9 = Σ(π(5 x 7))	10 = 8 + 9
	2	3	4	A	В		С	6 = 25	Α	В		С	0 = 4 X 0	9 - 2(11(5 X 7))	10 = 6 + 9
9	9 Voltmeter	set		1.00	1.00	1.00	1.00								
A.12.7	Communication/SCADA														
	Input Output Cards/Attribute Cards, (50% of used)	set		1.00	1.00	1.00	1.00								
A.12.8	110 V Battery Charger														
· ·		set		1.00	1.00	1.00	1.00								
		set		1.00	1.00	1.00	1.00								
:	One of each type of Switch, Timer and other special devices	set		1.00	1.00	1.00	1.00								
4	4 Ammeter	set		1.00	1.00	1.00	1.00								
	5 Voltmeter	set		1.00	1.00	1.00	1.00								
A.12.9	For 11 kV Circuit Breakers														
	chambers	set		1.00	1.00	1.00	1.00								
	COIIS	set		1.00	1.00	1.00	1.00								
:	3 Over current/Earth fault relay	set		1.00	1.00	1.00	1.00								
		set		1.00	1.00	1.00	1.00								
(	6 12 kV Potential Transformer	set		1.00	1.00	1.00	1.00								
		set		1.00	1.00	1.00	1.00								
8	8 VCB Breaker Trollery	set		1.00	1.00	1.00	1.00								

Name of Tenderer \_\_\_\_\_

#### Nepal Electricity Authority Distribution and Consumer Services Directorate

Distribution System Upgrade and Expansion Project

Schedule of Rates and Prices

#### Schedule No. 2: Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Excluding VAT applicable in Employer's Country)

				Schedule No. 2:	Plant and Mandato	ry Spare Parts Sup	olied from Within the	Employer's Country (	Excluding VAT app	blicable in Employer	s Country)				LC: NPR
Item	Description	Unit	Unit Rate, EXWorks		Qua	antity		Total Quantity	Unit Rate, Do	mestic Transporta	tion and Insuran	ce, Local Currency	Total EXW Price	Total, Domestic Transportation and Insurance	Total Price
			Local Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangr	i Gamgadi Simikot	Tumcha Tumcha	Local Currency	Local Currency	Local Currency
1	2	3	4	· · ·	P	5		6 = Σ5		В	7		8 = 4 x 6	9 = Σ(π(5 x 7))	10 = 8 + 9
				A	B		C		A	В		C			
В.	33 kV FEEDER / TAP OFF STRUCTURE														
<b>B.1</b>	Interconnection System														
	36 kV, 630 A, 25 kA Outdoor Type, Vacuum Circuit Breaker with Accessories all Complete	set		-	1.00	1.00	-								
<b>4</b>	Switch including accessories all complete	set		-	2.00	2.00	-								
	36 kV, 400 A/300 A Load Break Switch with accessories all complete	set		-	-	-	-								
	30 kV, 10 kA, lighting arrestor with accessories all complete	set		-	1.00	1.00	-								
{	with accessories all complete as specified	set		-	1.00	1.00	-								
(	Two Core Potential Transformer for 33 kV including fuse with accessories all complete as specified	set		-	1.00	1.00	-								
7	Miscellaneous fitting accessories, ACSR Conductors and all accessories required for the tapping and bay extension work	set		1.00	1.00	1.00	1.00								
8	Marshalling Kiosk Box with Accessories all Complete for placement at tapping point	set		-	1.00	1.00	-								
<b>B.2</b>	Structures, insulators and busbars - For Bay														
	33 kV pin insulators with supporting structures all complete	set		-	-	-	-								
2	Gantry Column, Girder structures for 33/11 2 kV substation, all complete as per specifications for each sub-project	ton		-	0.65	0.65	-								
	33 kV outdoor bus bars (IPS tube, 800A) 3 with all required insulators and complete accessories for bay extention, all complete	set		-	1.00	1.00	-								
4	Tap off Point/Switchyard/LILO point	set		-	1.00	1.00	-								
<b>B.3</b>	Spare Parts														
	Load Break Switch Complete Set of Load Break Switch used	set													
	with Storage Compartment	561		-	-	-	-								

Name of Tenderer \_\_\_\_\_

## Distribution and Consumer Services Directorate

## Distribution System Upgrade and Expansion Project

## Schedule of Rates and Prices

#### Schedule No. 2: Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Excluding VAT applicable in Employer's Country)

ltem	Description	Unit	Unit Rate, EXWorks		Qua	ntity		Total Quantity	Unit Rate, Domestic Transportation and Insurance, Local Currenc				
			Local Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tum	
							!				7	!	
1	2	3	4	Α	В		С	6 = Σ5	Α	В		С	
C.	33 kV Line												
C.1	Conductors												
1	Overhead ACSR WOLF Conductor, 150 sq mm. with 5% Sag	kms.		-	-	-	-						
2	Overhead ACSR DOG Conductor, 100 sq mm. with 5% Sag	kms.		91.12	49.61	314.60	0.10						
3	ADSS Cable with 5% sag,approach cable and support structure (Clamp, nut bolts, shackle insulators all) all complete as per specifications for SCADA of Tapping Point to Substation and facility for data transfer to other substation in future	kms.		30.37	16.54	100.23	0.02						
4	Mid-Span Joining Sleeve (Covered Conductor. rated min 500A)	nos.		61.00	34.00	202.00	1.00						
<b>C.2</b>	Poles and accessories												
C.2.1	Single Circuit Structure and Accessories												
1	11 M Steel Tubular Pole	nos.		712.00	390.00	2,206.00	-						
	2 Back Strap	nos.		1,962.00	672.00	3,648.00	-						
3	Bolts with suitable nuts and washers (M16 x 100 mm)	nos.		4,072.00	2,172.00	12,148.00	-						
4	Bolts with suitable nuts and washers (M16 x 235 mm)	nos.		470.00	176.00	900.00	-						
5	Bolts with suitable nuts and washers (M16 x 50 mm)	nos.		1,426.00	776.00	4,136.00	-						
6	Disc Type Insulator, set of three for 33 kV	nos.		1,962.00	672.00	3,648.00	-						
7	Flat Crossarm Brace 33 kV (50 x 6 x 666 mm)	nos.		956.00	600.00	3,236.00	-						
8	Insulator Pin for Pin Insulator of 33 kV	nos.		1,785.00	1,035.00	5,736.00	-						
	PG Clamp for ACSR DOG/WOLF	nos.		981.00	336.00	1,824.00	-						
10	Pin Type Insulator for 33 kV	nos.		1,785.00	1,035.00	5,736.00	-						
11	Pole Clamp with Nut, bolt and washers (TC1) with channel and support structures all complete as per design and drawings	nos.		1,080.00	486.00	2,838.00	-						
12	Pole Clamp with Nut, bolt and washers (TC2) with channel and support structures all complete as per design and drawings	nos.		956.00	600.00	3,236.00	-						

			LC: NPR
ency	Total EXW Price	Total, Domestic Transportation and Insurance	Total Price
umcha	Local Currency	Local Currency	Local Currency
	8 = 4 x 6	9 = Σ(π(5 x 7))	10 = 8 + 9

Name of Tenderer \_\_\_\_\_

## Distribution and Consumer Services Directorate

Distribution System Upgrade and Expansion Project

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nem	Description	Unit	Local Currency	Gamgadi	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Local Currency	Insurance Local Currency	Local Currency				
		3			5			6 = Σ5			7		8 = 4 x 6	$0 = \Sigma (-(E \times 7))$	10 = 8 + 9
1	2	3	4	Α	В		С	6 - 25	Α	В		C	0 = 4 X 0	9 = Σ(π(5 x 7))	10 = 6 + 9
13	Pole Clamp with Nut, bolt and washers, Bottom Bracing (TC5) with channel and support structures all complete as per design and drawings	nos.		184.00	48.00	316.00	-								
14	Pole Clamp with Nut, bolt and washers, Top Bracing (TC4) with channel and support structures all complete as per design and drawings	set		184.00	48.00	316.00	-								
15	Preformed Pin Ties, Top Ties	set		1,785.00	1,035.00	5,736.00	-								
	Steel Crossarm Channel (100 x 50 x	nos.		235.00	88.00	450.00	-								
17	Steel Crossarm Channel (100 x 50 x	set		243.00	212.00	1,168.00	-								
18	Steel Crossarm Channel (100 x 50 x	nos.		92.00	24.00	158.00	-								
19	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 2919 mm)	nos.		184.00	48.00	316.00	-								
20	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 3300 mm)	nos.		117.00	45.00	294.00	-								
21	Strap for Insulator String for 33 kV (100 x 5 x 350 mm)	nos.		276.00	72.00	474.00	-								
22	P Tension Set with Ball and Socket Eye	nos.		1,962.00	672.00	3,648.00	-								
C.2	Double Circuit Structure and Accessories														
		nos.		-	-	111.00	4.00								
2	Back Strap	nos.		-	-	516.00	24.00								
3	(M16 x 100 mm)	nos.		-	-	1,224.00	40.00								
4	(M16 X 235 mm)	nos.		-	-	168.00	-								
5	(M16 x 50 mm)	nos.		-	-	387.00	-								
6	33 KV	nos.		-	-	516.00	24.00								
7	000 (1)(1)	nos.		-	-	438.00	-								
	KV	set		-	-	552.00	12.00								
	· · · ·	set		-	-	258.00	12.00								
10	Pin Type Insulator for 33 kV	nos.		-	-	552.00	12.00								

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Distribution System Upgrade and Expansion Project

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		onic	Local Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tum
1	2	3	4			5		6 = Σ5			7	
•			-	A	В		С		A	В		С
11	Pole Clamp with Nut, bolt and washers (TC1) with channel and support structures all complete as per design and drawings	set		-	-	333.00	12.00					
12	Pole Clamp with Nut, bolt and washers (TC2) with channel and support structures all complete as per design and drawings	nos.		-	-	219.00	-					
13	Pole Clamp with Nut, bolt and washers, Bottom Bracing (TC5) with channel and support structures all complete as per design and drawings	nos.		-	-	30.00	4.00					
14	Pole Clamp with Nut, bolt and washers, Top Bracing (TC4) with channel and support structures all complete as per design and drawings	nos.		-	-	30.00	4.00					
15	Preformed Pin Ties, Top Ties	nos.		-	-	552.00	12.00					
16	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 1600 mm)	nos.		-	-	15.00	2.00					
17	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 1640 mm)	nos.		-	-	15.00	2.00					
18	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 1700 mm)	nos.		-	-	393.00	12.00					
	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 2500 mm)	nos.		-	-	12.00	-					
	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 2610 mm)	nos.		-	-	30.00	4.00					
21	Strap for Insulator String for 33 kV (100 x 5 x 350 mm)	nos.		-	-	90.00	12.00					
22	Tension Set with Ball and Socket Eye	nos.		-	-	516.00	24.00					
.2	Stay Set											
1	Pole Clamp with Nut, bolt and washers (TC3) use for 11 m Steel Tubular Pole with channel and support structures all complete as per design and drawings	nos.		364.00	103.00	682.00	2.00					
2	Pole Clamp with Nut, bolt and washers (TC3) use for 13 m or 14.5	nos.		-	-	-	-					

			LC: NPR
rrency	Total EXW Price	Total, Domestic Transportation and Insurance	Total Price
Tumcha	Local Currency	Local Currency	Local Currency
C	8 = 4 x 6	9 = Σ(π(5 x 7))	10 = 8 + 9

Name of Tenderer \_\_\_\_\_

## Nepal Electricity Authority Distribution and Consumer Services Directorate

Distribution System Upgrade and Expansion Project

Schedule of Rates and Prices

#### Schedule No. 2: Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Excluding VAT applicable in Employer's Country)

															LC: NPR
Item	Description	Unit	Unit Rate, EXWorks		Qu	antity		Total Quantity	Unit Rate, Do	omestic Transportat	ion and Insuranc	e, Local Currency	Total EXW Price	Total, Domestic Transportation and Insurance	Total Price
			Local Currency	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Local Currency	Local Currency	Local Currency
1	2	3	4			5		6 = Σ5			7		8 = 4 x 6	9 = Σ(π(5 x 7))	10 = 8 + 9
		_	-	A	В		С	0 - 25	A	В		С	0 - 4 × 0	5 - 2(11(5 × 7))	10 = 0 + 3
3	Bolts with suitable nuts and washers (M16 x 50 mm)	nos.		728.00	206.00	1,364.00	4.00								
4	Bolts with suitable nuts and washers (M16 x 100 mm)	nos.		728.00	206.00	1,364.00	4.00								
5	Stay Wire, (7/10 SWG minimum)	kg		3,640.00	1,030.00	6,820.00	20.00								
	Stay/Guy Insulator	nos.		364.00	103.00	682.00	2.00								
7	, Stay Turn Buckle including Thimble, (18 SWG minimum)	nos.		364.00	103.00	682.00	2.00								
8	Stay I bolt, (12 inch minimum)	(	)	364.00	103.00	682.00	2.00								
9	Stay I Rod/Anchor Rod, (minimum 1600 mm)	nos.		364.00	103.00	682.00	2.00								
10	Bow set with Thimble	nos.		364.00	103.00	682.00	2.00								
11	Stay Grip	nos.		364.00	103.00	682.00	2.00								
12	Galvanized Steel Stay Plate for Installation Underground, (600 x 600 x 6 mm minimum)	nos.		364.00	103.00	682.00	2.00								
C.3	Special Components														
	14.5 m Steel Tubular Pole	nos.		1.00	1.00	4.00	-								
	Special 33 kV gantry type tower for river/road/valley crossings(approx span 350 m), all complete including body extensions of 9m, tower earthing material, tower accessories - Anti Climbing Device, Bird Guards, Plates (Danger, Number, Phase, Circuit)	ton		-	-	10.80	-								
3	Bird Guard in Poles as per project requirement (1 set consists of complete set required for a pole)	set		10.00	10.00	30.00	-								

Name of Tenderer \_\_\_\_\_

## Distribution and Consumer Services Directorate

# Distribution System Upgrade and Expansion Project

# Schedule of Rates and Prices

#### Schedule No. 2: Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Excluding VAT applicable in Employer's Country)

														LC: NPR
Item	Description	Unit	Unit Rate, EXWorks	\$	Quantity		Total Quantity	Unit Rate, Do	omestic Transportat	ion and Insurand	e, Local Currency	Total EXW Price	Total, Domestic Transportation and Insurance	Total Price
			Local Currency	Kolti Khatyad	Gamgadi Mangri Gamgadi Simikot	i Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Local Currency	Local Currency	Local Currency
1	2	3	4		5		6 = Σ5			7		8 = 4 x 6	9 = Σ(π(5 x 7))	10 = 8 + 9
	Ζ	3	4	Α	A	В	6 = 25	Α	A		В	0 = 4 X 0	$9 = 2(11(5 \times 7))$	10 = 6 + 9
D.	Under Ground Cable													
	33kV Underground Power Cable (Al													
1	conductor, XLPE insulated, 400	kms		-	-									
	sq.mm., Single core, armoured)													
	48 Core ADSS Cable for													
2	Underground Installation along the	kms		-	-									
	length of UGC													
	36kV Straight Through Joints (single	-												
2	core 3 nos. per set) including all	set		_	_									
3	accessories	501		-	-									
	complete													
	33kV Cable Termination Kit Outdoor													
1	Type (single - core 3 nos. per set)	set		_	_									
	including all	301		-		-								
	accessories complete													
	Flexible Pipe (225mm dia) for laying													
5	Single Core UG Cable, ADSS Cable	kms		-	-									
	including all accessories complete													
	HDPE Pipe (225mm dia, 6kg) for													
6	laying Single Core UG Cable, ADSS	kms		_	_									
	Cable at road crossings including all	KIIIS		-		-								
	accessories complete													
	Sheath Voltage Limitor including all													
7	accessories complete (3 Nos.	set		-	-									
	per set)													
	33kV Power Fuse (Drop Out Type)													
8	including all accessories	set		-	-									
	complete													
	30 kV, 10 kA Pole Mounted Lightning													
9	Arrester including all	set		-	-									
	accessories complete													

Name of Tenderer \_\_\_\_\_

# Distribution and Consumer Services Directorate

# Distribution System Upgrade and Expansion Project

# Schedule of Rates and Prices

# Summary of Schedule No. 3: Design Services (Excluding VAT applicable in Employer's Country)

Schedule No.	Title	Total	Price
Schedule No.	inte	Foreign Currency	Local Currency
Α.	SUBSTATION		
B.	33 kV FEEDER / TAP OFF STRUCTURE		
С.	33 kV LINE		
D.	UNDERGROUND CABLE		
	Grand Total to be carried forward to Schedule 5		

Name of Tenderer \_\_\_\_\_

Distribution and Consumer Services Directorate

Distribution System Upgrade and Expansion Project

#### Schedule of Rates and Prices

## Schedule No. 3: Design Services (Excluding VAT applicable in Employer's Country)

				Unit	Price	Total Price		
Item	Description	Unit	Quantity	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6	
Α.	SUBSTATION							
1	Preconstruction Survey, Investigation Works, Hydrological Study to identify flood levels and cut/fill volume of substation, Design and Drawings of 33/11 kV substation as per the scope of the project.	LS	4.00					
2	As Built Drawings, Testing and Commissioning of 33/11 kV Substation as per the scope of the project	LS	4.00					
3	Preconstruction Survey, Design and Drawings of roads to be constructed within or up to the substation as per the scope of the project.	kms	6.00					
4	As Built Drawings, Testing and Commissioning of roads to be constructed within or up to the substation as per the scope of the project.	kms	6.00					
5	Preconstruction Survey, Investigation Works, Design and Drawings of necessary helipads to be constructed as per the scope of the project and national guidelines including Civil Aviation Guidelines/Standards adequate for transportation of power transformers. (In all 4 substations and Gamgadi Substation)	nos.	5.00					
6	As Built Drawings, Testing and Commissioning or necessary helipads to be constructed as per the scope of the project and national guidelines including Civil Aviation Guidelines/Standards adequate for transportation of power transformers. (In all 4 substations and Gamgadi Substation)	nos.	5.00					

Name of Tenderer \_\_\_\_\_

Distribution and Consumer Services Directorate

Distribution System Upgrade and Expansion Project

#### Schedule of Rates and Prices

## Schedule No. 3: Design Services (Excluding VAT applicable in Employer's Country)

				Unit	Price	Total	Price
Item	Description	Unit	Quantity	Foreign Currency	Local Currency	Foreign Currency	Local Currency
		-		Portion	Portion	Portion	Portion
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
В.	33 kV FEEDER/TAP OFF STRUCTURE						
1	Preconstruction Survey, Design and Drawings of 33 kV bay in source substation as per the scope of the project.	LS	3.00				
	As Built Drawings, Testing and Commissioning of 33 kV bay in source substation as per the scope of the project.	LS	3.00				
3	Preconstruction Survey, Design and Drawings of 33 kV tap off/LILO point as per the scope of the project.	LS	1.00				
4	As Built Drawings, Testing and Commissioning of 33 kV tap off/LILO point in substation as per the scope of the project.	LS	1.00				
C.	33 kV Line						
1	Preconstruction Survey, Design and Drawings of 33 kV Line as per the scope of the project	kms	140.10				
2	As Built Drawings, Testing and Commissioning of 33 kV Line as per the scope of the project	kms	140.10				
D.	Under Ground Cable						
1	Preconstruction Survey, Design and Drawings of 33 kV U/G Cable as per the scope of the project	kms	-				
2	As Built Drawings, Testing and Commissioning of 33 kV U/G Cable as per the scope of the project	kms	-				
3	Preconstruction Survey, Design and Drawings of roads to be constructed after installation of Underground Cable	kms	-				

Name of Tenderer \_\_\_\_\_

Distribution and Consumer Services Directorate

Distribution System Upgrade and Expansion Project

Schedule of Rates and Prices

Schedule No. 3: Design Services (Excluding VAT applicable in Employer's Country)

		Unit			Unit	Price	Total Price		
ltem	Item Description		t	Quantity	Foreign Currency	Local Currency	Foreign Currency	Local Currency	
					Portion	Portion	Portion	Portion	
1	2		3	4	5	6	7 = 4 x 5	8 = 4 x 6	
4	As Built Drawings, Commissioning of roads to be constructed after installation of Underground Cable as per the scope of the project.	kms		-					

Name of Tenderer \_\_\_\_\_

## Nepal Electricity Authority Distribution and Consumer Services Directorate Distribution System Upgrade and Expansion Project Schedule of Rates and Prices Summary of Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

Schedule No.	Title	Total	Price
Schedule No.	Inte	Foreign Currency	Local Currency
Α.	SUBSTATION		
A.1	Air based transportation		
A.2	Civil Works of Switchyard Components - Concrete Foundation as per technical specifications and approved design		
A.3	Installation Testing and Commissioning Works of Electrical Components of Substation		
A.4	Landscaping Works		
A.5	Building Works		
A.6	Roads and Drainage		
	Sub Total A. Substation		
В.	33 kV FEEDER / TAP OFF STRUCTURE		
B.1	Civil Works of Interconnection Components - Concrete Foundation as per technical specifications and approved design/drawings		
B.2	Installation Testing and Commissioning Works of Electrical Components of 33 kV feeder/Tap Off Structure		
	Sub Total B. 33 kV Feeder / Tap Off Structure		
C.	33 kV LINE		
C.1	Manual/Air based transportation		
C.2	Installation, Testing and Commissioning Works and Civil Works		
D.	UNDERGROUND CABLE		
D.1	Installation, Testing and Commissioning Works and Civil Works		
E.	Environmental and Social Mitigation Works		
E.1	Mitigation Works		
	Grand Total to be carried forward to Schedule 5		

Name of Tenderer \_\_\_\_\_

Distribution and Consumer Services Directorate Distribution System Upgrade and Expansion Project

Schedule of Rates and Prices

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

				Quantity				Jnit Price, Local Curre	ncv	Total Price
ltem	Description	Unit	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Total Quantity	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Local Currency
				4	ounigual on inter			6	Culligual Chilliot	
1	2	3	Α	B	С	5 = Σ4	Α	B	С	7 = Σ(π(4 x 6))
Α.	SUBSTATION - Transportation of components by Air									
	Power Transformers									
	33/11 kV 12/16 MVA copper wound power transformer, CRGO	4								
1	core (with OLTC and RTCC Panel) complete with all accessories	set	-	-	-	-				
	33/11 kV 6/8 MVA copper wound power transformer, CRGO core	set			_					
Z	(with OLTC and RTCC Panel) complete with all accessories	301	-	-	-	-				
3	33/11 kV 3 MVA copper wound power transformer, CRGO core	set	-	-	-	-				
	33/11 kV 1 MVA copper wound power transformer, CRGO core	set	-	-	-	-				
5	33/11 kV 500 kVA copper wound power transformer, CRGO core	set	2.00	2.00	2.00	6.00				
						-				
	36 kV System					-				
1	36 kV, 630 A, 25 kA Outdoor Type, Vacuum Circuit Breaker with	set	1.00	1.00	1.00	3.00				
	Accessories all Complete		1.00		1.00	0.00				
	36 kV, 630 A, 25 kA, isolator with earth switch including	set	2.00	2.00	2.00	6.00				
	accessories all complete									
	36 kV, 40 A, Load Break Switch with accessories all complete	set	2.00	2.00	2.00	6.00				
	36 kV, 4 A, Load Break Switch with accessories all complete	set	1.00	1.00	1.00	3.00				
	Two Core Potential Transformer for 33 kV including fuse with accessories all complete as specified	set	2.00	2.00	2.00	6.00				
6	Three Core Current Transformer for 33 kV with accessories all complete as specified	set	1.00	1.00	1.00	3.00				
7	Two Core Bushing CT for 33/11 kV Power Transformer with accessories all complete as specified.	set	-	-	-	-				
	Two Core CT for neutral side of 33/11 kV Power Transformer with									
	accessories all complete as specified.	set	2.00	2.00	2.00	6.00				
	30 kV, 10 kA, lighting arrestor with accessories all complete	set	4.00	4.00	4.00	12.00				
	33kV Outdoor Busbar (IPS tube, 800A) with required insulators									
10	and accessories as well as any cables necessary in 33 kV side all	set	1.00	1.00	1.00	3.00				
	complete									
	33/11 kV Transformer Control and Protection Panel complete with		0.00	0.00	0.00	0.00				
11	all accessories as per specification	set	2.00	2.00	2.00	6.00				
10	33 kV Protection Control and Relay Panel complete with all	4	1.00	1.00	1.00	2.00				
12	accessories as per specification for Line Bays	set	1.00	1.00	1.00	3.00				
12	Marshalling Kiosk Box with Accessories all Complete (1 set refers	set	1.00	1.00	1.00	3.00				
13	to complete set in a substation)	301	1.00	1.00	1.00	3.00				
						-				
A.1.3	12 kV System					-				
1	12 kV Indoor VCB, with Control and Relay Panel and CT / PT with accessories all complete as specified	set	5.00	5.00	5.00	15.00				
2	12 kV, 25 kA, Indoor Earth Switch with accessories all complete as specified	set	2.00	2.00	2.00	6.00				

Name of Tenderer

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

Itam	Description	Linit		Quantity		Total Quantity	ι	Jnit Price, Local Curre	ency	Total Price
Item	Description	Unit	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	I otal Quantity	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Local Currency
1	2	3		4		5 = Σ4		6		7 = Σ(π(4 x 6))
	2	3	Α	В	C	5 = 24	Α	В	С	7 = 2(11(4 X 0))
3	9 kV, 10 kA, lighting arrestor with accessories all complete	set	4.00	4.00	4.00	12.00				
						-				
	Station Supply System					-				
1	33/0.4 kV 100 kVA station transformer	set	1.00	1.00	1.00	3.00				
2	AC Distribution System Including Accessories all Complete as per specifications(1 set includes complete lot for substation including all buildings and constructions with necessary earthing works inside the substation)	set	1.00	1.00	1.00	3.00				
3	Portable Diesel Generator, 10 kVA, 400 V including grid interconnection setup, relay, control units and associated panels, as per specifications	set	1.00	1.00	1.00	3.00				
						-				
A.1.5	DC System					-				
1	250 Ah, 110 V maintenance free batteries including complete accessories	set	1.00	1.00	1.00	3.00				
2	Battery Charging unit (110 V) with accessories all complete	set	1.00	1.00	1.00	3.00				
3	DC Distribution System including accessories all complete as per specifications(1 set includes complete lot for substation)	set	1.00	1.00	1.00	3.00				
						-				
	Cables					-				
	11 kV XLPE Cable 3 Core 300 sq mm (Armoured)	m	-	-	-	-				
	11 kV XLPE Cable 3 Core 185 sq mm (Armoured)	m	25.00	25.00	25.00	75.00				
3	11 kV XLPE Cable 3 Core 120 sq mm (Armoured)	m	50.00	50.00	50.00	150.00				
4	11 kV 3-core heat shrinkable Indoor Cable termination kit 185/300/120 sq mm	set	4.00	4.00	4.00	12.00				
5	11 kV 3-core heat shrinkable outdoor Cable termination kit 185/120 sq mm	set	4.00	4.00	4.00	12.00				
6	Control cables including accessories complete (1 set includes source bay and destination bay together)(1 set includes complete lot for substation)		1.00	1.00	1.00	3.00				
7	1.1 kV power and lighting cable, including DC circuitry for all works in the switchyard, outdoor lighting, beauty lighting all complete (1 set includes complete lot for substation)		1.00	1.00	1.00	3.00				
A.1.7	Automation and Control System - SCADA					-				

Name of Tenderer \_\_\_\_\_

Signature of Tenderer\_\_\_\_\_

Single-Stage: Two-Envelope

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

				Quantity				Init Price, Local Curre	ncv	Total Price
ltem	Description	Unit	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Total Quantity	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Local Currency
				4				6	guar ee-	
1	2	3	Α	В	С	5 = Σ4	Α	B	С	7 = Σ(π(4 x 6))
1	SCADA/ Automation Integration, Numerical relay cum Bay controller with other indicative/measuring instruments. SCADA system shall communicate with C & R panels, Bay Control Units of 33 kV Feeder, 11kV switchgear panel, battery charger, ACDB etc along with necessary hardware & Software & fibre optic cable etc. all complete with necessary accessories adhering to the Technical Specifications and requirement for the substation.(1 set includes complete lot for substation)	set	1.00	1.00	1.00	3.00				
2	Desktop, i9, 10th generation or equivalent with 512 GB SSD and 1 GB HDD, 24 " two screen,	set	1.00	1.00	1.00	3.00				
3	3 Laptop, with same configuration as desktop and 15 " screen	set	1.00	1.00	1.00	3.00				
						-				
A.1.8	Grounding System					-				
1	Switchyard Lightning Protection System, Earthing arrangement, Including protection for Control building and other structures inside the substation area as essential in the substation all complete(1 set includes complete lot for substation)	set	1.00	1.00	1.00	3.00				
2	2 Lightning Mast	ton	0.14	0.14	0.14	0.42				
						-				
A.1.9	Illumination System					-				
1	Switchyard and Substation yard lighting with 36 W, IP 65 LED with at least 20 lux elsewhere and 200 lux at switchyard, as per site conditions all complete(1 set includes complete lot for substation)	set	1.00	1.00	1.00	3.00				
A 4 40	Out do an Oontre, and Our nort Othersteines					-				
	Outdoor Gantry and Support StructuresGantry Column, Support Structures, Girder structures for 33/11 kVsubstation, all complete as per specifications for each sub-project	ton	4.12	4.12	4.12	12.36				
2	Chequered Plate for Cable Trench in Control Building of thickness as mentioned in Technical Specification with accessories all complete as for specifications	ton	0.67	0.67	0.67	2.00				
						-				
	11 kV Overhead Line Feeder Components					-				
	9 kV, 10 kA, Pole Mounted lighting arrestor with accessories all complete	set	2.00	2.00	2.00	6.00				
2	2 Pole Mounted Isolator, for 11 kV with accessories all complete	set	2.00	2.00	2.00	6.00				
A 4 4 0						-				
	SPARE PARTS For Transformers					-				
	33 kV and 11 kV Bushing(one of each type)	set	1.00	1.00	1.00	3.00				
	1 33 KV and TT KV bushing(one of each type)	301	1.00	1.00	1.00	3.00				

Name of Tenderer

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

				Quantity				Unit Price, Local Curre	ency	Total Price
ltem	Description	Unit	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Total Quantity	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Local Currency
				4	<b>j</b>		<b>,</b>	6		
1	2	3	Α	В	С	5 = Σ4	A	B	С	$7 = \Sigma(\pi(4 \ge 6))$
2	Dial type Thermometers	set	1.00	1.00	1.00	3.00				
	Oil Level Gauges	set	1.00	1.00	1.00	3.00				
	Insulating Oil (10% of total supply)	set	1.00	1.00	1.00	3.00				
	Indicating Lamps (25% of used)	set	1.00	1.00	1.00	3.00				
	All types of Fuses (25% of used)	set	1.00	1.00	1.00	3.00				
	Complete set of Gaskets of each type	set	1.00	1.00	1.00	3.00				
8	Complete set of Pressure Relief Devices	set	1.00	1.00	1.00	3.00				
	All type of Auxiliary, Relays, Contactors and Timers for control,		4.00	4.00	4.00	0.00				
9	protection and cooling circuit(one of each type)	set	1.00	1.00	1.00	3.00				
	OLTC Motor Contactor	set	1.00	1.00	1.00	3.00				
11	Complete set of Buchholz relay	set	1.00	1.00	1.00	3.00				
12	OLTC motor	set	1.00	1.00	1.00	3.00				
13	Motors for mechanism of each type	set	1.00	1.00	1.00	3.00				
						-				
A.1.12.2	For 33 kV Circuit Breaker					-				
1	Tripping Coils	set	1.00	1.00	1.00	3.00				
	Closing Coils	set	1.00	1.00	1.00	3.00				
	Relays and Contactors (One of each type)	set	1.00	1.00	1.00	3.00				
	Motors for Mechanism	set	1.00	1.00	1.00	3.00				
5	Interrupter for VCB	set	1.00	1.00	1.00	3.00				
						-				
A.1.12.3	For 33 kV Disconnecting Switch					-				
1	Porcelain insulator	set	2.00	2.00	2.00	6.00				
2	Main contact assemblies including grounding blades	set	2.00	2.00	2.00	6.00				
3	Auxilliary contacts	set	2.00	2.00	2.00	6.00				
4	Interlocking Coil	set	2.00	2.00	2.00	6.00				
						-				
A.1.12.4	For 33 kV Instrument Transformers					-				
1	Two Core Potential Transformer for 33 kV including fuse with accessories all complete as specified (1 Set = 3 Phase)	set	1.00	1.00	1.00	3.00				
2	Three Core Current Transformer for 33 kV with accessories all complete as specified (1 Set = 3 Phase)	set	1.00	1.00	1.00	3.00				
		<u> </u>				-				
A.1.12.5	Lightning Arrestor					-				
	30 kV Lightning Arrestor (1 Set = 3 Phase)	set	1.00	1.00	1.00	3.00				
	9 kV Lightning Arrestor (1 Set = 3 Phase)	set	1.00	1.00	1.00	3.00				
						-				
A.1.12.6	For 33 kV Control & Relay panel					-				
	Indicating Lamps (50% of used)	set	1.00	1.00	1.00	3.00				
	Fuses of each type(50% of used)	set	1.00	1.00	1.00	3.00				
	Color Caps of each color for indicating lamps (30% of used)	set	1.00			3.00				

Name of Tenderer

## Nepal Electricity Authority Distribution and Consumer Services Directorate

Distribution System Upgrade and Expansion Project

Schedule of Rates and Prices

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

Item	Description	Unit		Quantity		Total Quantity		Unit Price, Local Curre	ency	Total Price
item	Description	Unit	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Local Currency
1	2	3		4		5 = Σ4		6		7 = Σ(π(4 x 6))
	2		A	В	С	5 = 24	A	В	С	$7 = 2(11(4 \times 6))$
4	One of each type of Switch, Timer and other special devices	set	1.00	1.00	1.00	3.00				
5	3 Phase Over Current Relays with Earthfault Inbuilt	set	1.00	1.00	1.00	3.00				
6	3 Phase Transformer Differential Relays	set	1.00	1.00	1.00	3.00				
7	Each type of Auxiliary Relay	set	1.00	1.00	1.00	3.00				
8	Ammeter	set	1.00	1.00	1.00	3.00				
9	Voltmeter	set	1.00	1.00	1.00	3.00				
						-				
A.1.12.7	Communication/SCADA					-				
1	Input Output Cards/Attribute Cards, (50% of used)	set	1.00	1.00	1.00	3.00				
						-				
A.1.12.8	110 V Battery Charger					-				
1	Fuses of each type(50% of used)	set	1.00	1.00	1.00	3.00				
2	Indicating Lamp (50% of used)	set	1.00	1.00	1.00	3.00				
3	One of each type of Switch, Timer and other special devices	set	1.00	1.00	1.00	3.00				
4	Ammeter	set	1.00	1.00	1.00	3.00				
5	Voltmeter	set	1.00	1.00	1.00	3.00				
						-				
A.1.12.9	For 11 kV Circuit Breakers					-				
1	Complete set of replacable vacuum chambers	set	1.00	1.00	1.00	3.00				
2	Set of Tripping, closing and auxilliary coils	set	1.00	1.00	1.00	3.00				
3	Over current/Earth fault relay	set	1.00	1.00	1.00	3.00				
4	12 kV Current Transformer	set	1.00	1.00	1.00	3.00				
6	12 kV Potential Transformer	set	1.00	1.00	1.00	3.00				
7	Spring Charge Motor	set	1.00	1.00	1.00	3.00				
8	VCB Breaker Trollery	set	1.00	1.00	1.00	3.00				

Name of Tenderer

Signature of Tenderer\_\_\_\_\_

Tender No.:ICB-DCSD-2078/79-DSUEP-AIIB-W6

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

Item	Description	Unit		1	antity		Total Quantity		Unit Price	, Loc
nom	Decemption		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Total Quantity	Kolti Khatyad	Gamgadi Mangri	e
1	2	3			4		5 = Σ4			6
1	2	3	Α	В		С	5 - 24	A	В	
۹.	SUBSTATION									
	Civil Works of Switchyard and Substation Components -									
4.2	Concrete Foundation as per technical specifications and						-			
	approved design/drawings									
	Equipment Support Pedestals for Switchyard Components,									
	including Gantries, Current Transformer (CT), Potential									
	Transformer (PT), Lightning Arrestor (LA), Power									
A.2.1	Transformer, Station Transformer, Disconnecting Switches						-			
	with Earth Switch, Post Insulator (PI), BUS PI, Lightning Mast									
	(LM), etc. all complete									
	Earthwork Excavation by means of mechnical in all types of soil									
	(soil/gravel/ BMS) as per drawing and technical specifications									
1	including removal of stumps and other deleterious matter, all lifts	cu.m	205.37	205.37	205.37	256.35	872.45			
	and lead as per drawing and instruction of the engineer.									
	Providing and laying of plain cement concrete (PCC Work) M10									-
2	(manual mixed) in foundation complete as per drawing and	cu.m	7.68	7.68	7.68	9.55	32.58			
-	technical specifications.	ou.m	1.00	7.00	1.00	0.00	02.00			
	Providing and laying of reinforcd cement concrete (RCC Work)									
3	M15 (manual mixed) in foundation complete as per drawing and	cu.m	54.37	54.37	54.37	68.70	231.81			
0	technical specifications.	ou.m	01.07	01.07	01.07	00.70	201.01			
	Providing and laying MS Reinforcement including cutting,									_
1	bending, binding, fixing in position etc. all complete as per	ton	4.32	4.32	4.32	5.39	18.34			
4	specification and drawing.		4.52	4.52	4.52	5.59	10.54			
	Providing, preparing and installation of form work including									_
Б	necessary supports and removing after completion for structure	ca m	203.77	203.77	203.77	272.66	883.96			
5	according to drawings and hauling up to 30 m distance.	sq.m	203.77	203.11	203.11	272.00	003.90			
6	Back filling in layers in foundationpits, trenches , etc, includingcompaction all complete with watering	cu.m	143.32	143.32	143.32	178.09	608.05			
										$\rightarrow$
4.2.2	Cable Trench						-			
	Earthwork Excavation by means of mechnical in all types of soil									-
	(soil/gravel/ BMS) as per drawing and technical specifications									
1	including removal of stumps and other deleterious matter, all lifts	cu.m	48.90	48.90	48.90	48.90	195.60			
	and lead as per drawing and instruction of the engineer.									
	Providing and laying of plain cement concrete (PCC Work) M10									+
2	(manual mixed) in foundation complete as per drawing and	cu.m	4.00	4.00	4.00	4.00	16.00			
2		cu.m	4.00	4.00	4.00	4.00	10.00			
	technical specifications. Providing and laying of reinforcd cement concrete (RCC Work)									-+
0	M15 (manual mixed) in foundation complete as per drawing and		15.95	15.95	15.95	15.95	63.80			
3		cu.m	15.95	15.95	15.95	10.95	03.80			
	technical specifications.									-+
	Providing and laying of reinforcd cement concrete (RCC Precast		0.04	0.04	0.04	0.04				
4	Slab Work) M15 (manual mixed) in foundation complete as per	cu.m	2.31	2.31	2.31	2.31	9.24			
	drawing and technical specifications.									-+
	Providing and laying MS Reinforcement including cutting,	.								
5	bending, binding, fixing in position etc. all complete as per	ton	1.43	1.43	1.43	1.43	5.70			
	specification and drawing.									-+
6	Supply and fixing of cable holding Galvanized M.S. angle bracket	m	41.00	41.00	41.00	41.00	164.00			
	as per drawing									

L	ocal Currency	Total Price	
	Gamgadi Simikot	Tumcha Tumcha	Local Currency
(	6		7 = Σ(π(4 x 6))
		С	<i>i – 2(ii(4 × 0))</i>

Name of Tenderer \_\_\_\_\_

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

Item	Description	Unit		Qua	intity		Total Quantity		Unit Price,	Local Currency		Total Price
Item	Description	Unit	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Local Currency
1	2	2			4		5 = Σ4	6				7 = Σ(π(4 x 6))
'	<u> </u>	3	A	В		С	5 - 24	Α	В		C	7 – 2(II(4 X 0))
							-					
A.2.3	Grounding System						-					
	Providing and laying of plain/reinforcd cement concrete M15											
1	(manual mixed) in for Switchyard Lightning Protection System,	cu.m	40.50	40.50	40.50	54.00	175.50					
	Earthing arrangement as essential in the substation all complete											
							-					
A.2.4	Illumination System						-					
	Concrete required for Switchyard and Substation yard lighting with											
1	36 W, IP 65 LED with at least 20 lux elsewhere and 200 lux at	cu.m	5.11	5.11	5.11	5.11	20.44					
	switchyard, as per site conditions all complete											
							-					
A.2.5	Miscellaneous						-					
1	Surface dressing with Crushed Stone including antiweed treatment as per TS & approved design all complete	cu.m	4.00	4.00	4.00	4.00	16.00					

Name of Tenderer \_\_\_\_\_

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

				Qua	ntity		<b>T</b> ( ) ( )		Unit Price,	, L
Item	Description	Unit	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Total Quantity	Kolti Khatyad	Gamgadi Mangri	
					4	1			0 0	-
1	2	3	Α	В		С	5 = Σ4	Α	В	
Α.	SUBSTATION									
	Installation Testing and Commissioning Works of Electrical									
A.3	Components of Substation						-			
A.3.1	Power Transformers						-			
	33/11 kV 12/16 MVA copper wound power transformer, CRGO									7
1	core (with OLTC and RTCC Panel) complete with all accessories	set	-	-	-	-	-			
	33/11 kV 6/8 MVA copper wound power transformer, CRGO core									
2	(with OLTC and RTCC Panel) complete with all accessories	set	-	-	-	-	-			
	3 33/11 kV 3 MVA copper wound power transformer, CRGO core	set	-	-	-	-	-			$\neg$
	33/11 kV 1 MVA copper wound power transformer, CRGO core	set	-	-	-	-	-			$\neg$
		001					-			-
A.3.2	36 kV System						_			
1.0.2	36 kV, 630 A, 25 kA Outdoor Type, Vacuum Circuit Breaker with						-			4
1	Accessories all Complete	set	1.00	1.00	1.00	2.00	5.00			
	36 kV, 630 A, 25 kA, isolator with earth switch including									$\neg$
2	accessories all complete	set	2.00	2.00	2.00	4.00	10.00			
-	3 36 kV, 40 A, Load Break Switch with accessories all complete	set	2.00	2.00	2.00	2.00	8.00			$\neg$
	36 kV, 4 A, Load Break Switch with accessories all complete	set	1.00	1.00	1.00	1.00	4.00			-
	Two Core Potential Transformer for 33 kV including fuse with	501	1.00	1.00	1.00	1.00	4.00			+
5	accessories all complete as specified	set	2.00	2.00	2.00	3.00	9.00			
	Three Core Current Transformer for 33 kV with accessories all									+
6		set	1.00	1.00	1.00	2.00	5.00			
	complete as specified									+
7	Two Core Bushing CT for 33/11 kV Power Transformer with	set	-	-	-	-	-			
	accessories all complete as specified.									$\rightarrow$
6	Two Core CT for neutral side of 33/11 kV Power Transformer with	set	2.00	2.00	2.00	2.00	8.00			
	accessories all complete as specified.									$\rightarrow$
<u> </u>	30 kV, 10 kA, lighting arrestor with accessories all complete	set	4.00	4.00	4.00	5.00	17.00			+
	33kV Outdoor Busbar (IPS tube, 800A) with required insulators		1.00	4.00	4.00	4.00	4.00			
10	and accessories as well as any cables necessary in 33 kV side all	set	1.00	1.00	1.00	1.00	4.00			
	complete									$\rightarrow$
11	33/11 kV Transformer Control and Protection Panel complete with	set	2.00	2.00	2.00	2.00	8.00			
	all accessories as per specification									$\rightarrow$
12	33 kV Protection Control and Relay Panel complete with all	set	1.00	1.00	1.00	2.00	5.00			
	accessories as per specification for Line Bays									$\rightarrow$
13	Marshalling Kiosk Box with Accessories all Complete (1 set refers	set	1.00	1.00	1.00	1.00	4.00			
	to complete set in a substation)									$\downarrow$
							-			$ \rightarrow$
A.3.3	12 kV System						-			4
1	12 kV Indoor VCB, with Control and Relay Panel and CT / PT with	set	5.00	5.00	5.00	5.00	20.00			
ļ	accessories all complete as specified		0.00							$\downarrow$
	12 kV, 25 kA, Indoor Earth Switch with accessories all complete	set	2.00	2.00	2.00	2.00	8.00			
	as specified									$ \downarrow$
3	9 kV, 10 kA, lighting arrestor with accessories all complete	set	4.00	4.00	4.00	4.00	16.00			$ \downarrow$
							-			
A.3.4	Station Supply System						-			
1	33/0.4 kV 100 kVA station transformer	set	1.00	1.00	1.00	1.00	4.00			

L	ocal Currency		Total Price
	Gamgadi Simikot	Tumcha Tumcha	Local Currency
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Name of Tenderer \_\_\_\_\_

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

				Qua	antity			Unit Price, Lo			
Item	Description	Unit	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Total Quantity	Kolti Khatyad	Gamgadi Mangri	Т	
				•••····g	4						
1	2	3	Α	В		С	5 = Σ4	Α	В	T	
	AC Distribution System Including Accessories all Complete as per									+	
	specifications(1 set includes complete lot for substation including										
2	all buildings and constructions with necessary earthing works	set	1.00	1.00	1.00	1.00	4.00				
	inside the substation)										
	Portable Diesel Generator, 10 kVA, 400 V including grid									1	
3	interconnection setup, relay, control units and associated panels,	set	1.00	1.00	1.00	1.00	4.00				
	as per specifications										
							-				
A.3.5	DC System						-				
1	250 Ah, 110 V maintenance free batteries including complete	set	1.00	1.00	1.00	1.00	4.00				
	accessories									$\rightarrow$	
2	Plattery Charging unit (110 V) with accessories all complete	set	1.00	1.00	1.00	1.00	4.00			$\rightarrow$	
3	DC Distribution System including accessories all complete as per	set	1.00	1.00	1.00	1.00	4.00				
	specifications(1 set includes complete lot for substation)									$\rightarrow$	
A.3.6	Cables						-			+	
	11 kV XLPE Cable 3 Core 300 sq mm (Armoured)	m	-	-	-	-				+	
	2 11 kV XLPE Cable 3 Core 185 sq mm (Armoured)	m	25.00	25.00	25.00	25.00	100.00			+	
	11 kV XLPE Cable 3 Core 120 sq mm (Armoured)	m	50.00	50.00	50.00	50.00	200.00			+	
	11 kV 3-core heat shrinkable Indoor Cable termination kit									+	
4	185/300/120 sq mm	set	4.00	4.00	4.00	4.00	16.00				
_	11 kV 3-core heat shrinkable outdoor Cable termination kit		1.00	4.00	4.00	4.00	10.00			$\uparrow$	
5	2 185/120 sq mm	set	4.00	4.00	4.00	4.00	16.00				
	Control cables including accessories complete (1 set includes										
6	source bay and destination bay together)(1 set includes complete	set	1.00	1.00	1.00	1.00	4.00				
	lot for substation)										
	1.1 kV power and lighting cable, including DC circuitry for all works										
7		set	1.00	1.00	1.00	1.00	4.00				
	set includes complete lot for substation)									$\rightarrow$	
			-				-			_	
A.3.7	Automation and Control System - SCADA		-				-			-	
	SCADA/ Automation Integration, Numerical relay cum Bay controller with other indicative/measuring instruments. SCADA										
	system shall communicate with C & R panels, Bay Control Units of										
	33 kV Feeder, 11kV switchgear panel, battery charger, ACDB etc										
1	along with necessary hardware & Software & fibre optic cable etc.	set	1.00	1.00	1.00	1.00	4.00				
	all complete with necessary accessories adhering to the Technical										
	Specifications and requirement for the substation.(1 set includes										
	complete lot for substation)										
	Desktop, i9, 10th generation or equivalent with 512 GB SSD and									+	
2	1 GB HDD, 24 " two screen,	set	1.00	1.00	1.00	1.00	4.00				
	Laptop, with same configuration as desktop and 15 " screen	set	1.00	1.00	1.00	1.00	4.00				
			-				-				
A.3.8	Grounding System		-				-				
	Switchyard Lightning Protection System, Earthing arrangement,										
1	Including protection for Control building and other structures	set	1.00	1.00	1.00	1.00	4.00				
1	inside the substation area as essential in the substation all	501	1.00	1.00	1.00	1.00	÷.00				
	complete(1 set includes complete lot for substation)										

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_(	ocal Currency	Total Price	
	Gamgadi Simikot	Tumcha Tumcha	Local Currency
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Name of Tenderer

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

Item	Description	Unit		Qua	intity		Total Quantity		Unit Price,	Local Currency		Total Price
nem	Description	Unit	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Local Currency
1	2	3			$\begin{array}{c c c c c c c c c c c c c c c c c c c $		7 = Σ(π(4 x 6))					
1	2	5	Α	В		С	5 - 24	A	В		C	7 = 2(11(4 × 0))
2	Lightning Mast	ton	0.14	0.14	0.14	0.14	0.56					
			-				-					
A.3.9	Illumination System		-				-					
1	Switchyard and Substation yard lighting with 36 W, IP 65 LED with at least 20 lux elsewhere and 200 lux at switchyard, as per site conditions all complete(1 set includes complete lot for substation)	set	1.00	1.00	1.00	1.00	4.00					
			-				-					
A.3.10	Outdoor Gantry and Support Structures		-				-					
1	Gantry Column, Support Structures, Girder structures for 33/11 kV substation, all complete as per specifications for each sub-project	ton	4.12	4.12	4.12	6.65	19.01					
2	Chequered Plate for Cable Trench in Control Building of thickness as mentioned in Technical Specification with accessories all complete as for specifications	ton	0.67	0.67	0.67	0.67	2.66					
							-					
A.3.11	11 kV Overhead Line Feeder Components		-				-					
1	9 kV, 10 kA, Pole Mounted lighting arrestor with accessories all complete	set	2.00	2.00	2.00	2.00	8.00					
2	Pole Mounted Isolator, for 11 kV with accessories all complete	set	2.00	2.00	2.00	2.00	8.00					

Name of Tenderer \_\_\_\_\_

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

					antity			Unit Price, Lo		
Item	Description	Unit	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Total Quantity	Kolti Khatyad	Gamgadi Mangri	_
				Ganigaui Mangri		Tumena Tumena			Gaingaul Mangh	
1	2	3	A	В		С	5 = Σ4	A		ì
٨	SUBSTATION		A	D		U		A	_	
A.										-
A.4 A.4.1	Landscaping Works Site Levelling						-			-
A.4.1	Earth work in cutting including site clearing and contour survey						-			4
1	work	cu.m	2,500.00	4,500.00	500.00	1,000.00	8,500.00			
2	Earth work in Filling and in filling with borrowed earth including site clearing and contour survey work	cu.m	1,000.00	1,000.00	1,000.00	2,500.00	5,500.00			
A.4.2	Boundary Wall						-			
1	Earth work in cutting & Filling and in filling with borrowed earth including site clearing and levelling	cu.m	458.49	433.49	361.24	416.81	1,670.03			
2	Earthwork in backfilling	cu.m	91.70	86.70	72.25	83.36	334.01			+
	Ī									+
3	Stone soling and finishing upto approved level, line and dimension	cu.m	7.05	6.67	5.56	6.41	25.69		_	
4	Supplying mixing, placing, compacting M15 plain cement concrete for foundation bases, brick wall top (copping) and stone masonary top (copping).	cu.m	52.10	49.26	41.05	47.36	189.77			
5	Providing and laying Random rubble masonry in 1:4 cement mortar including scaffolding, curing, preparation of mortar etc.complete, masoned height 0-5m, lead 30m (manual mixing)	cu.m	825.00	780.00	650.00	750.00	3,005.00			
6	Providing & laying First class chimney made brick masonry work in wall with 1:4 cement sand mortar (1 cement : 4 sand) including lead upto 30 m with curing, cleaning & racking out mortar joint and making ducts, recesses where required as per drawing	cu.m	113.85	107.64	89.70	103.50	414.69			
7	Providing, laying & curing cement sand (1:4) Plastering on external walls to perfect plumb, lines & level icluding raking the mortar joints and wetting the masonry surface all complete as per design drawings, specifications and instruction of the site engineer all complete:		990.00	936.00	780.00	900.00	3,606.00			_
	Chain link fencing as per technical specification and approved	rm	330.00	312.00	260.00	300.00	1,202.00			
9	drawing but excluding concrete which shall be paid seperately	rm	330.00	512.00	200.00	300.00	1,202.00			
A.4.4	Main Entrance Gate						-			
1	Earthwork in Excavation of all types of soil by mechanical means as per drawing and technical specifications including removal of trees,grasses,stumps and other deleterious matter, all lifts and lead as per drawing and instruction of the engineer.	cu.m	10.13	10.13	10.13	10.13	40.50			
2	Dry flat brick soling works	cu.m	1.01	1.01	1.01	1.01	4.05			+
	Providing and laying of plain/reinforcd cement concrete M15									+
3	(manual mixed) in foundation complete as per drawing and technical specifications.	cu.m	0.51	0.51	0.51	0.51	2.03			
4	Providing and laying of plain/reinforced cement concrete M25 (machine mixed) in foundation complete as per drawing and technical specifications.	cu.m	4.79	4.79	4.79	4.79	19.16			
5	Providing and laying Reinforcement including cutting, bending, binding, fixing in position etc. all complete as per specification and drawing.	ton	0.38	0.38	0.38	0.38	1.50			

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G	amgadi Simikot	Tumcha Tumcha	Local Currency
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Name of Tenderer \_\_\_\_\_

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

Item Description	Unit		Qua	antity		Total Quantity		Unit Price,	Local Currency		Total Price
Description	Unit	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Local Currency
1 2	2			4		5 = Σ4	6			7 = Σ(π(4 x 6))	
	J	Α	В		C	5 - 24	Α		В	С	$7 = 2(11(4 \times 6))$
Providing, preparing and installation of form work including											
6 necessary supports and removing after completion for structure	sq.m	30.06	30.06	30.06	30.06	120.24					
according to drawings and hauling up to 30 m distance.											
Providing, and installation all complete of metal gate as per TS	nos.	1.00	1.00	1.00	1.00	4.00					
and drawings	1105.	1.00	1.00	1.00	1.00	4.00					
						-					
A.4.3 Switchyard Fencing						-					
Chain link fencing as per technical specification and approved	rm	94.50	94.50	94.50	126.00	409.50					
drawing but excluding concrete which shall be paid seperately	1111	94.50	94.50	94.50	120.00	409.30					
2 Switch yard Gate with complete finish as per specifications	Nos.	1.00	1.00	1.00	1.00	4.00					
A.4.4 Miscellaneous Works in Switchyard						-					
Stone spreading including antiweed treatment in switchyard but	sa.m	29.90	29.90	29.90	39.00	128.70					
excluding PCC.		29.90	29.90	29.90	39.00	120.70					
Providing and laying 75mm thick Plain Cement Concrete 1:5:10 (1	cu m	20.18	20.18	20.18	26.33	86.87					
cement : 5 sand : 10 Stone aggregate)	cu.m	20.10	20.10	20.10	20.55	00.07					

Name of Tenderer \_\_\_\_\_

## Distribution and Consumer Services Directorate

#### Distribution System Upgrade and Expansion Project

Schedule of Rates and Prices

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

				Qua	antity				Unit Price,	Ē
Item	Description	Unit	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Total Quantity	Kolti Khatyad	Gamgadi Mangri	_
				Ganigaui Mangri		Tunicila Tunicila			Ganiyadi Mangri	_
1	2	3	•	B	•	С	5 = Σ4	•		
A	Duilding Works		A	D		U		A		_
A.5 A.5.1	Building Works Site Clearance works									+
A.J.1							-			+
	Clearing and grubbing including uprooting rank vegetation, grass,									
	bushes, shrubs, saplings and trees girth upto 300mm, removal of		000.00	000.00	coo oo	000.00	0 400 00			
1	stumps of trees cut earlier and disposal of unserviceable materials		623.23	623.23	623.23	623.23	2,492.92			
1	amd stacking of serviceable material to be used or auctioned upto									
A E O	a lead of 30m									_
A.5.2	Earthworks						-			4
1	Earthwork in Excavation of all types of soil by mechanical means									
1	as per drawing and technical specifications including removal of	cum	578.92	578.92	578.92	578.92	2,315.67			
	trees,grasses,stumps and other deleterious matter, all lifts and						,			
	lead as per drawing and instruction of the engineer.									_
	Back filling in layers in foundation pits, trenches, etc, with									
2	approved soil obtained from the excavation at site and stacked at	cum	400.08	400.08	400.08	400.08	1,600.33			
1	site or brought from outside in layer including compaction all						,			
	complete with watering									_
A.5.3	Concrete Works						-			4
	Providing and laying of plain/reinforced cement concrete M15		0.50 (0)							
1	(machine mixed) in foundation complete as per drawing and	cum	253.46	253.46	253.46	253.46	1,013.82			
	technical specifications.									$\downarrow$
	Providing and laying of plain/reinforced cement concrete M25									
2	(machine mixed) in foundation complete as per drawing and	cum	320.48	320.48	320.48	320.48	1,281.92			
	technical specifications.									$\downarrow$
	Providing and laying Reinforcement including cutting, bending,									
3	binding, fixing in position etc. all complete as per specification and	ton	50.32	50.32	50.32	50.32	201.26			
	drawing.									$\downarrow$
	Providing, preparing and installation of form work including									
4	necessary supports and removing after completion for structure	sqm	1,557.58	1,557.58	1,557.58	1,557.58	6,230.33			
	according to drawings and hauling up to 30 m distance.									4
A.5.4	Brick Works						-			4
1	Dry flat brick soling works	sqm	762.17	762.17	762.17	762.17	3,048.66			$\downarrow$
	Providing & laying First class chimney made brick masonry work									
2	in Foundation with 1:6 cement sand mortar including lead upto	cum	122.69	122.69	122.69	122.69	490.76			
_	30 m with curing, cleaning & racking out mortar joint and making									
	ducts, recesses where required as per drawing									$ \rightarrow$
1	Providing & laying First class chimney made brick masonry work									
3	in Superstructure with 1:6 cement sand mortar including lead	cum	211.46	211.46	211.46	211.46	845.84			
l	upto 30 m with curing, cleaning & racking out mortar joint and						0 1010 1			
	making ducts, recesses where required as per drawing									
A.5.5	Finishing Works						-			4
1	2mm thick white putty on wall and ceiling	sqm	2,067.51	2,067.51	2,067.51	2,067.51	8,270.03			$\downarrow$
2	Two coat plastic emulsion paint over one coat primer (Astar) on	sqm	1,503.47	1,503.47	1,503.47	1,503.47	6,013.87			
	new surface	~~~~	1,000.47	1,000.17	1,000.47	1,000.11	0,010.07			$\downarrow$
3	Two coat of weather coating over one coat primer (Astar) on new	sqm	564.04	564.04	564.04	564.04	2,256.16			
J	surface	54.11								$\downarrow$
	Two coat readymade enamel paint over one coat primer (Astar)	sqm	242.06	242.06	242.06	242.06	968.24			$\downarrow$
5	Sal wood work for choukosh[0.1x0.075m section]	cum	2.76	2.76	2.76	2.76	11.02		<u> </u>	

	ocal Currency		Total Price
	Gamgadi Simikot	Tumcha Tumcha	Local Currency
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	В	C	7 - 2(11(4 x 0))
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Name of Tenderer \_\_\_\_\_

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

Item	Description	Unit		Qu	antity		Total Quantity		Unit Price, Lo
nem	Description	Unit	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri
	2	2			4		E - 54		(
1	2	3	A	В		С	5 = Σ4	A	
6	Flush shutter 38mm thick sal wood frame with 3mm thick teak plywood on both side of shutter	sqm	87.79	87.79	87.79	87.79	351.14		
	Providing, fabricating & fixing Windows and ventilation of Upvc								
	frame using Upvc section with 5mm clear float glass, U-shaped								
7	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)	sqm	74.63	74.63	74.63	74.63	298.50		
8	3 x 20mm Metal Grill including manufacturing, fitting, painting with Aluminium paint, sand papering all complete	kg	1,058.11	1,058.11	1,058.11	1,058.11	4,232.44		
5	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.	sqm	316.75	316.75	316.75	316.75	1,267.02		
10	Provide and laying 3 mm cement punning including cleaning, watering, curing the laid surface all complete as per instruction & specification.	sqm	303.92	303.92	303.92	303.92	1,215.68		
11	1:4 cement sand mortar.	sqm	63.87	63.87	63.87	63.87	255.46		
12	Laying of 16mm thick marble over 20mm thick 1:2 cement mortar with rubbing & polish as per specifications all complete.	sqm	15.80	15.80	15.80	15.80	63.18		
	Providing and fixing non glazed ceramic tiles fixed on floors with 1 : 4 Cement Sand Mortar in exact line & level all complete as per drawing specification & instruction.	sqm	58.97	58.97	58.97	58.97	235.90		
14	Providing and laying non slippery tile of size 2'x2' in terraces and similar loactions all complete as per drawing, specification and instruction. (vitrified)	sqm	167.07	167.07	167.07	167.07	668.28		
15	Providing, laying & curing 12.5 mm thick cement sand (1:4) plastering in ceiling, beams and column surfaces including chipping & wetting the concrete surfaces finished in perfect plumb, lines and level as per drawings, specifications and instructions of the site engineer.	sqm	270.55	270.55	270.55	270.55	1,082.18		
16	Providing, laying & curing cement sand (1:4) Plastering on internal walls to perfect plumb, lines & level icluding raking the mortar joints and wetting the masonry surface all complete as per design drawings, specifications and instruction of the site engineer	sqm	1,232.92	1,232.92	1,232.92	1,232.92	4,931.69		
	all complete:								
17	Providing, laying & curing cement sand (1:4) Plastering on external walls to perfect plumb, lines & level icluding raking the mortar joints and wetting the masonry surface all complete as per design drawings, specifications and instruction of the site engineer all complete:	· ·	564.04	564.04	564.04	564.04	2,256.16		
18	Providing and application of two coats of water-proofing coating	sqm	869.64	869.64	869.64	869.64	3,478.56		
	Miscelleneous Works						-		

	al Currency		Total Price
G	amgadi Simikot	Tumcha Tumcha	Local Currency
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Name of Tenderer \_\_\_\_\_

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

ltem	Description	Unit		Qu	antity		Total Quantity		Unit Price,	Local Currency		Total Price
nem	Description	Unit	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Local Currency
4	2	2			4		5 = Σ4		·	6		7 = Σ(π(4 x 6))
•	2	3	Α	В		C	5 - 24	A		В	C	<i>i</i> = 2(ii(4 x 0))
1	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	6.65	6.65	6.65	6.65	26.60					
2	Providing and fixing of rolling shutters as per specifications all complete.	sqm	9.30	9.30	9.30	9.30	37.20					
3	Fire Extinguisher (6Kg NS or IS standard) with range of jet 6 m	no	4.00	4.00	4.00	4.00	16.00					
	Euroguard 7 Liters/min (max) wall mounted with water flow rate 0.25 L/min and purification capacity upto 15L/hr	no	4.00	4.00	4.00	4.00	16.00					
5	Antitermite treatment in foundation as per specifications all complete	sqm	405.90	405.90	405.90	405.90	1,623.60					
6	Plumbing, sanitation and related works including water faucets, valves, pipe, fittings, RCC underground tank, PVC 1000 Litre Overhead Tank, Pumps, and all applicable fittings all complete	LS	1.00	1.00	1.00	1.00	4.00					

Name of Tenderer \_\_\_\_\_

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

				Qua	antity				Unit Pric	ce. I
Item	Description	Unit	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Total Quantity	Kolti Khatyad	Gamgadi Mangri	
			Rom ranatyau	ouniguu mangn	4	rumona rumona		nonii ninatyau		
1	2	3	Α	В		С	5 = Σ4	Α	В	
Α.	SUBSTATION									
A.6	Roads and Drainage						-			
A.6.1	Internal Roads						-			
	Earth work in cutting & Filling and in filling with borrowed earth		4 005 00	4 005 00	4 005 00	4 005 00	4 000 00			_
	including site clearing and levelling	sq.m	1,225.00	1,225.00	1,225.00	1,225.00	4,900.00			
2	Rolling and compaction of earth as per specification all complete.	sq.m	1,225.00	1,225.00	1,225.00	1,225.00	4,900.00			
	Providing and laying of hand pack stone soling with 250mm thick									
3	stones and packing with smaller stones on prepared surface as	sq.m	306.25	306.25	306.25	306.25	1,225.00			
	per drawing and technical specifications									
	Supplying mixing, placing, compacting plain cement concrete of									
	M25 including admixture excluding the cost of reinforcement bars	cu.m	245.00	245.00	245.00	245.00	980.00			
	& formwork as per drawing, specification and instruction all									
	complete.									
	Centering and Shuttering of Plywood / Steel form work in slabs,									
5	walls, columns, lintel and beams including bracing and removal of	sq.m	140.00	140.00	140.00	140.00	560.00			
	formwork all complete as per drawing, specification & instruction.									
	Providing and fixing in position Fe 500 steel reinforcement of									
	various diameter confirming 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		1.00	1.00	1.00	4.00	7.00			
ť	and cut pieces, provision for adequate numbers of spacers,	ton	1.92	1.92	1.92	1.92	7.69			
	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 the engineer.									
	(Authorised lap length and for the bar length exceeeding 10 meter in length shall be measured for the payment).									
A.6.2	Drainage									_
A.0.2	Earth work in cutting & Filling and in filling with borrowed earth						-			_
	including site clearing and levelling	sq.m	500.00	500.00	500.00	500.00	2,000.00			
	150mm thick stone soling and finishing to approved level, line and									
2	dimensions as per instruction & specification complete work	cu.m	67.50	67.50	67.50	67.50	270.00			
	Supplying mixing, placing, compacting of 100mm thick M15 plain									
	cement concrete for foundation bases & floors lead upto 30m									
	excluding the cost of formwork & reinforcement bars, as per	cu.m	45.00	45.00	45.00	45.00	180.00			
	drawing, specification & instruction all complete.									
	Providing & laying First class chimney made brick masonry work									
	in wall with 1:4 cement sand mortar (1 cement : 4 sand) including			(00.00						
4	lead upto 30 m with curing, cleaning & racking out mortar joint and	cu.m	138.00	138.00	138.00	138.00	552.00			
	making ducts, recesses where required as per drawing									
	Providing and laying of 600mm dia hume pipe for drainage at road	rm	40.00	40.00	40.00	40.00	400.00			
:	crossings as per specification and requirement at site. NP4	ILL	40.00	40.00	40.00	40.00	160.00			
	Providing and laying of 600mm dia hume pipe for drainage at road	rm	20.00	20.00	20.00	20.00	<u>00 00</u>			
	crossings as per specification and requirement at site, NP3		20.00	20.00	20.00	20.00	80.00			
<del>.</del>	, Supplying and Erecting Dewatering Pumps - 0.5 HP or of required	nos.	1.00	1.00	1.00	1.00	4.00			
'	capacity	103.	1.00	1.00	1.00	1.00	4.00			
A.6.3	Helipad Construction for landing, if necessary						-			

L	ocal Currency		Total Price
	Gamgadi Simikot	Tumcha Tumcha	Local Currency
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Name of Tenderer \_\_\_\_\_

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

ltem	Description	Unit		Qua	antity		Total Quantity		Unit Price,	Local Currency		Total Price
item	Description	Onit	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Local Currency
1	2	3		1	4	1	5 = Σ4			6		7 = Σ(π(4 x 6))
			A	В		С		A	В		С	
1	Preparation of base layer with stone soiling of 200 mm as per Standard Pavement Design of Federal Aviation Authority (FAA) and Civil Aviation Authority Nepal - IN FATO (Final Approach and Take Off Area)	cu.m	135.20	159.40	24.20	135.20	454.00					
2	Preparation of PCC pavement with thickness of 150 mm as per Standard Pavement Design of Federal Aviation Authority (FAA) and Civil Aviation Authority Nepal - IN FATO (Final Approach and Take Off Area)	cu.m	101.40	119.55	18.15	101.40	340.50					
3	Preparation of Stone soling of 200 mm thickness in Safety Area with slope as per Nepal Civil Aviation Authority, Methodology for preparation of ground based helipad and operation - 2075 and requirements of Standard design by Federal Aviation Authority (FAA)	cu.m	385.00	496.00	111.00	385.00	1,377.00					
4	Preparation of Marking of "H" in the center of Touch Down and Lift Off area of helipad with dimension of as required but at least 3 m * 1.8 m and letter thickness of 0.4 m as per the guidelines of Nepal Civil Aviation Authority	lot	1.00	2.00	1.00	1.00	5.00					
5	Providing and Installation of Wind Direction Indicator (Wind Sock), red and white, with 2.4 meter lengths and diameter tapered from 0.6 m to 0.3 m as per the guidelines of Nepal Civil Aviation Authority	set	2.00	4.00	2.00	2.00	10.00					
6	Miscellaneous work essential for helipad construction and operation	lot	1.00	2.00	1.00	1.00	5.00					
	*Helipad shall be suitable for MI-17 landing in Tumcha, Mangri and Khatyad. AS-350 suitable helipad shall be constructed for Gamgadi and Simikot, where MI-17 shall land in Talcha and Simikot airport respectively.						-					

Name of Tenderer \_\_\_\_\_

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

				Qu	antity				Unit Price,	Lo
Item	Description	Unit	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Total Quantity	Kolti Khatyad	Gamgadi Mangri	
1	2	3		1	4	1	5 = Σ4			6
_			A	В		С		Α	В	_
В.	33 kV FEEDER / TAP OFF STRUCTURE									_
B.1	Civil Works of Interconnection Components - Concrete Foundation as per technical specifications and approved design/drawings						-			
B.1.1	Equipment Support Pedestals for Switchyard Components, including Gantries, Current Transformer (CT), Potential Transformer (PT), Lightning Arrestor (LA), Disconnecting Switches with Earth Switch, Post Insulator (PI), BUS PI, Lightning Mast (LM), etc. all complete						-			
1	Earthwork Excavation by means of mechnical in all types of soil (soil/gravel/ BMS) as per drawing and technical specifications including removal of stumps and other deleterious matter, all lifts and lead as per drawing and instruction of the engineer.	cu.m	-	44.14	44.14	-	88.27			
2	Providing and laying of plain cement concrete (PCC Work) M10 (manual mixed) in foundation complete as per drawing and technical specifications.	cu.m	-	1.58	1.58	-	3.16			
3	Providing and laying of reinforcd cement concrete (RCC Work) M15 (manual mixed) in foundation complete as per drawing and technical specifications.	cu.m	-	11.60	11.60	-	23.20			
4	Providing and laying MS Reinforcement including cutting, bending, binding, fixing in position etc. all complete as per specification and drawing.	ton	-	0.94	0.94	-	1.88			
5	Providing, preparing and installation of form work including necessary supports and removing after completion for structure according to drawings and hauling up to 30 m distance.	sq.m	-	54.31	54.31	-	108.63			
6	Back filling in layers in foundationpits, trenches, etc, includingcompaction all complete with watering	cu.m	-	30.96	30.96	-	61.91			
<b>D</b> 4 0	Crownding System						-			_
<mark>B.1.2</mark> 1	Grounding System Providing and laying of plain/reinforcd cement concrete M15 (manual mixed) in for Switchyard Lightning Protection System, Earthing arrangement as essential in the substation all complete, wherever required.	cu.m	-	13.50	13.50	-	27.00			
B.1.3	Illumination System						-			+
	Concrete required for Switchyard and Substation yard lighting with 36 W, IP 65 LED with at least 20 lux elsewhere and 200 lux at switchyard, as per site conditions all complete	cu.m	-	1.46	1.46	-	2.92			
<b>D14</b>	Miscellaneous						-			+
<b>B.1.4</b>	Surface dressing with Crushed Stone including antiweed treatment as per TS & approved design all complete	cu.m	-	2.00	2.00	-	4.00			

ocal Currency		Total Price
Gamgadi Simikot	Tumcha Tumcha	Local Currency
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	С	7 - 2(11(4 X 8))

Name of Tenderer \_\_\_\_\_

#### Nepal Electricity Authority Distribution and Consumer Services Directorate Distribution System Upgrade and Expansion Project

# Schedule of Rates and Prices

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

Item	Description	Unit		Qua	antity		Total Quantity		Unit Price,	Local Currency		Total Price
Item	Description	Unit	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Local Currency
1	2	3			4		5 = Σ4			6		7 = Σ(π(4 x 6))
· ·	2	5	Α	В		C	5-24	A	В		С	7 - 2(11(4 X 0))
В.	33 kV FEEDER / TAP OFF STRUCTURE											
B.2	Installation Testing and Commissioning Works of Electrical						_					
0.2	Components of Substation											
<b>B.2.1</b>	Interconnection System						-					
	1 36 kV, 630 A, 25 kA Outdoor Type, Vacuum Circuit Breaker with	set	_	1.00	1.00	_	2.00					
	Accessories all Complete											
	<sup>2</sup> 36 kV, 630 A, 25 kA, isolator with earth switch including	set	-	2.00	2.00	-	4.00					
	accessories all complete											
	3 36 kV, 400 A/300 A Load Break Switch with accessories all complete	set	-	-	-	-	-					
	Three Core Current Transformer for 33 kV with accessories all	set	_	1.00	1.00	_	2.00					
	complete as specified	301		1.00	1.00		2.00					
	5 Two Core Potential Transformer for 33 kV including fuse with	set	_	1.00	1.00	_	2.00					
	accessories all complete as specified	001										
	6 30 kV, 10 kA, lighting arrestor with accessories all complete	set	-	1.00	1.00	-	2.00					
	7 Miscellaneous fitting accessories, ACSR Conductors and all	set	1.00	1.00	1.00	1.00	4.00					
	accessories required for the tapping and bay extension work	001				1.00						
	8 Marshalling Kiosk Box with Accessories all Complete for	set	-	1.00	1.00	-	2.00					
	placement at tapping point											
<b>B.2.2</b>	Structures, insulators and busbars - For Bay						-					
	Gantry Column, Girder structures for 33/11 kV substation, all	lot	-	0.65	0.65	_	1.31					
	complete as per specifications for each sub-project											
	2 36W, IP 65 Outdoor light for installation at Tap off Point/Switchyard/LILO point	set	-	1.00	1.00	-	2.00					
							-					

Name of Tenderer \_\_\_\_\_

Distribution and Consumer Services Directorate

Distribution System Upgrade and Expansion Project

Schedule of Rates and Prices

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

ltem	Description	Transportation Dista	nce in km per item (for km length (All 3 phases	Conductors 1 item = 1 5))	Unit Rat	te CIP per item per km, I	ocal Currency	Total Price
		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Local Currency
			4			5		
1	2	Α	В	С	A	В	С	6 = Σ(π(4 x 5))
).	33 kV Line - Manual Transportation, if necessary							
C.1	Conductors							
	1 Overhead ACSR WOLF Conductor, 150 sq mm. with 5% Sag	-	-	-				
	2 Overhead ACSR DOG Conductor, 100 sq mm. with 5% Sag	1.00	45.00	1,431.00				
	ADSS Cable with 5% sag, approach cable and support structure							
	(Clamp, nut bolts, shackle insulators all) all complete as per specifications for SCADA of Tapping Point to Substation and	1.00	45.00	1,431.00				
		1.00	+5.00	1,431.00				
	facility for data transfer to other substation in future							
	4 Mid-Span Joining Sleeve (Covered Conductor. rated min 500A)	3.00	94.92	2,874.75				
.2	Poles and accessories							
<u>.</u> 2.1	Single Circuit Structure and Accessories							
	1 11 M Steel Tubular Pole	1.75	816.79	32,994.42				
	2 Back Strap	3.15	1,200.68	59,879.74				
	3 Bolts with suitable nuts and washers (M16 x 100 mm)	10.48	4,508.68	180,692.51				
	4 Bolts with suitable nuts and washers (M16 x 100 mm)	0.35	318.55	15,746.74				
	5 Bolts with suitable nuts and washers (M16 x 200 mm)	2.45	1,592.74	64,672.23				
	6 Disc Type Insulator, set of three for 33 kV	3.15	1,200.68	59,879.74				
	7 Flat Crossarm Brace 33 kV (50 x 6 x 666 mm)	2.10	1,274.19	48,925.49				
	8 Insulator Pin for Pin Insulator of 33 kV	4.19	2,180.83	86,185.75				
	9 PG Clamp for ACSR DOG/WOLF	1.57	600.34	29,939.87				
	0 Pin Type Insulator for 33 kV	4.19	2,180.83	86,185.75				
	Pole Clamp with Nut, bolt and washers (TC1) with channel and							
1	support structures all complete as per design and drawings	3.15	980.15	41,420.77				
	Pole Clamp with Nut, bolt and washers (TC2) with channel and	0.40	4 074 40	40.005.40				
1.	<sup>2</sup> support structures all complete as per design and drawings	2.10	1,274.19	48,925.49				
	Pole Clamp with Nut, bolt and washers, Bottom Bracing (TC5) with							
1	3 channel and support structures all complete as per design and	0.70	81.68	4,213.17				
	drawings							
	Pole Clamp with Nut, bolt and washers, Top Bracing (TC4) with							
1-	4 channel and support structures all complete as per design and	0.70	81.68	4,213.17				
	drawings							
	5 Preformed Pin Ties, Top Ties	4.19	2,180.83	86,185.75				
1	6 Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 1800 mm)	0.17	159.27	7,873.37				
	7 Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 1900 mm)	0.87	477.82	16,589.37				
	8 Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 2416 mm)	0.35	40.84	2,106.59				
	9 Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 2919 mm)	0.70	81.68	4,213.17				
	0 Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 3300 mm)	0.35	89.85	4,265.84				
	1 Strap for Insulator String for 33 kV (100 x 5 x 350 mm)	1.05		6,319.76				
2	2 Tension Set with Ball and Socket Eye	3.15	1,200.68	59,879.74				

Name of Tenderer

# Distribution and Consumer Services Directorate

Distribution System Upgrade and Expansion Project

Schedule of Rates and Prices

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

Item	Description		nce in km per item (for km length (All 3 phases	Conductors 1 item = 1 s))	Unit Ra	te CIP per item per km, I	Local Cu
		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Kolti Khatyad	Gamgadi Mangri	Gam
	2		4			5	
1	2	A	В	С	Α	В	
C.2	Double Circuit Structure and Accessories						
1	13 m Steel Tubular Pole	-	-	-			
2	Back Strap	-	-	-			
3	Bolts with suitable nuts and washers (M16 x 100 mm)	-	-	-			
4	Bolts with suitable nuts and washers (M16 x 235 mm)	-	-	-			
5	Bolts with suitable nuts and washers (M16 x 50 mm)	-	-	-			
6	Disc Type Insulator, set of three for 33 kV	-	-	-			
7	Flat Crossarm Brace 33 kV (50 x 6 x 666 mm)	-	-	-			
8	Insulator Pin for Pin Insulator of 33 kV	-	-	-			
g	PG Clamp for ACSR DOG/WOLF	-	-	-			
10	Pin Type Insulator for 33 kV	-	-	-			
	Pole Clamp with Nut, bolt and washers (TC1) with channel and						
11	support structures all complete as per design and drawings	-	-	-			
40	Pole Clamp with Nut, bolt and washers (TC2) with channel and						
12	support structures all complete as per design and drawings	-	-	-			
	Pole Clamp with Nut, bolt and washers, Bottom Bracing (TC5) with		ĺ				
13	channel and support structures all complete as per design and	-	-	-			
	drawings						
	Pole Clamp with Nut, bolt and washers, Top Bracing (TC4) with						
14	channel and support structures all complete as per design and	-	-	-			
	drawings						
15	Preformed Pin Ties, Top Ties	-	-	-			
16	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 1600 mm)	-	-	-			
17	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 1640 mm)	-	-	-			
18	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 1700 mm)	-	-	-			
19	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 2500 mm)	-	-	-			
	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 2610 mm)	-	-	-			
21	Strap for Insulator String for 33 kV (100 x 5 x 350 mm)	-	-	-			
	Tension Set with Ball and Socket Eye	-	-	-			
C.2	Stay Set						
	Pole Clamp with Nut, bolt and washers (TC3) use for 11 m Steel						
1	Tubular Pole with channel and support structures all complete as	0.35	167.44	9,663.97			
	per design and drawings						
	Pole Clamp with Nut, bolt and washers (TC3) use for 13 m or 14.5						
2	m Steel Tubular Pole with channel and support structures all	-	-	-			
	complete as per design and drawings						
3	Bolts with suitable nuts and washers (M16 x 50 mm)	0.70	334.88	19,327.94			
	Bolts with suitable nuts and washers (M16 x 100 mm)	0.70	334.88	19,327.94			
	Stay Wire, (7/10 SWG minimum)	3.49	1,674.42	96,639.68			
	Stay/Guy Insulator	0.35	167.44				

Currency	Total Price
mgadi Simikot	Local Currency
C	6 = Σ(π(4 x 5))

Name of Tenderer

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

ltem	Description		nce in km per item (for km length (All 3 phases	Conductors 1 item = 1 ))	Unit Rate	_ocal Currency	Total Price	
		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Local Currency
1	2		4			5		6 = Σ(π(4 x 5))
_ '	2	Α	В	С	A	В	С	$0 = 2(11(4 \times 5))$
7	Stay Turn Buckle including Thimble, (18 SWG minimum)	0.35	167.44	9,663.97				
8	Stay I bolt, (12 inch minimum)	0.35	167.44	9,663.97				
9	Stay I Rod/Anchor Rod, (minimum 1600 mm)	0.35	167.44	9,663.97				
10	Bow set with Thimble	0.35	167.44	9,663.97				
11	Stay Grip	0.35	167.44	9,663.97				
1 12	Galvanized Steel Stay Plate for Installation Underground, (600 x 600 x 6 mm minimum)	0.35	167.44	9,663.97				
C.3	Special Components							
1	14.5 m Steel Tubular Pole	0.17	4.08	105.33				
2	Special 33 kV gantry type tower for river/road/valley crossings(approx span 350 m), all complete including body extensions of 9m, tower earthing material, tower accessories -Anti Climbing Device, Bird Guards, Plates (Danger, Number, Phase, Circuit)	-	-	284.39				
	Bird Guard in Poles as per project requirement (1 set consists of complete set required for a pole)	1.75	40.84	789.97				

Name of Tenderer \_\_\_\_\_

Signature of Tenderer\_\_\_\_\_

Single-Stage: Two-Envelope

#### Nepal Electricity Authority Distribution and Consumer Services Directorate Distribution System Upgrade and Expansion Project

# Schedule of Rates and Prices

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

Itom	Description	Unit		Qua	Total Quantity		Unit Pric	e, Lo		
Item	Description		Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha		Kolti Khatyad	Gamgadi Mangri	
4	2	2			4	1	E - 54		1	6
1	2	3	Α	В		С	5 = Σ4	Α	В	
C.1	Installation, Testing and Commissioning Works						-			
C.1.1	Stringing of Conductors						-			
1	Overhead ACSR WOLF Conductor, 150 sq mm. with 5% Sag	kms	-	-	-	-	-			
2	Overhead ACSR DOG Conductor, 100 sq mm. with 5% Sag	kms	91.12	49.61	314.60	0.10	455.44			
	ADSS Cable with 5% sag, approach cable and support structure									
	(Clamp, nut bolts, shackle insulators all) all complete as per	kms	30.37	16.54	100.23	0.02	147.16			
	specifications for SCADA of Tapping Point to Substation and	KIIIS	50.57	10.54	100.23	0.02	147.10			
	facility for data transfer to other substation in future									
C.1.2	Poles and accessories						-			
	Hardware and transportation of 11 m long Steel tubular pole									
1	including erection - excavation of footing, making pole vent,	Nos.	712.00	390.00	2,206.00	-	3,308.00			
	placing in footing, backfilling, concreting all complete									
	Hardware and transportation of 13 m long Steel tubular pole									
2	including erection - excavation of footing, making pole vent,	Nos.	-	-	111.00	4.00	115.00			
	placing in footing, backfilling, concreting all complete									
	Stay sets, with stay wire, rod, ties & insulator all complete	set	364.00	103.00	682.00	2.00	1,151.00			
	including transportation to site.	301	504.00	103.00	002.00	2.00	1,131.00			
	Providing and laying of plain cement concrete (PCC) M15									
4	(manual mixed) in foundation complete as per drawing and	cum	536.57	-	-	347.56	884.13			
	technical specifications for 11 m and 13 m STP.									
C.1.3	Special Components						-			
	Hardware and transportation of 14.5 m long Steel tubular pole									
1	including erection - excavation of footing, making pole vent,	set	1.00	1.00	4.00	-	6.00			
	placing in footing, backfilling, concreting all complete									
	Providing and laying of plain cement concrete (PCC) M15									
2	(manual mixed) in foundation complete as per drawing and	cum	1.31	1.31	5.25	-	7.87			
	technical specifications for 14.5 m STP.									
	Work related with Steel Lattice Towers required concrete									
	foundation, stub setting and erection all complete including									
3	excavation (approx. 42 cu. m, PCC M10 Concrete (approx. 1.16	nos.	-	-	4.00	-	4.00			
	cu. M, M20 Concrete (approx. 5 cu. M), Rebar (approx. 0.35 ton)									
	and Cement (approx. 175 bags)									
	Bird Guard in Poles as per project requirement (1 set consists of	set	10.00	10.00	30.00	-	50.00			
	complete set required for a pole)	50.	10.00	10.00	00.00		00.00			
C.1.4	Dismantling Works						-			
	Dismantling and Transportation to specified location (preferably									
1	NEA store nearby/substation compound) of 9 m ,10 m, 11 m pole	nos.	1.00	1.00	1.00	-	3.00			
'	including conductor (approx 50 m distance between poles) as						0.00			
	essential in the site									
	Dismantling and Transportation to specified location (preferably	.		_						
2	NEA store nearby/substation compound) of ACSR Conductors as	kms	0.15	0.15	0.15	-	0.45			
	essential in the site									
	Recondutoring of 33 kV or 11 kV lines for certain sections as	kms	0.15	0.15	0.15	-	0.45			
	double or single circuit			0.10	0.10		0.10			

_(	ocal Currency	Total Price	
Gamgadi Simikot		Tumcha Tumcha	Local Currency
(	6		7 = Σ(π(4 x 6))
		С	
_			
_			
_			
_			
_			
-			
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-			

Name of Tenderer \_\_\_\_\_

## Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

ltem	Description	Unit	Quantity			Total Quantity	Unit Price, Local Currency				Total Price								
Item			Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Total Quality	Kolti Khatyad	Gamgadi Mangri	Gamgadi Simikot	Tumcha Tumcha	Local Currency							
1	2	4			5 = Σ4		6			7 = Σ(π(4 x 6))									
	L		Α	В		С	0 - 24	A	В		С	/ = <b>Z</b> (II(4 × 0))							
D.	Under Ground Cable																		
	33kV Underground Power Cable and ADSS Cable Laying works																		
	(2 phases of Conductors and ADSS cables in sepearate Flexible																		
1	Pipe/HDPE Pipe/Conduits) including transportation to site and	kms																	
	Restoration of road to original with required drainage, pavement,	KIIIS	-	-	-	-	-	-	-	-	-								
	black-topping, subbase and base as per TS of Department of																		
	Roads and/or respective Municipality																		
0	Installation of Cable Straight through Joints with accessories all	Set	Set		_	_	_	-	_	_		_							
2	complete including transportation to site			Sei			000	000	000	000	000	-	-	-	-	-			
2	Installation of 33 kV outdoor XLPE Cable Termination kit with	Set	_	_	_	_	-	_	_		_								
0	accessories all complete including transportation to site	Sei	-	-	-	-	-	-	-	-	-								
	Installation of 30 kV LA (3Nos), Power Fuse (3Nos) including	Set	_					_	_	_	_								
4	accessories all complete including transportation to site	Sei	-	-	-	-	-	-	-	-	-								
5	Supply & Installation of Danger Sheets and Route Markers	kms	_		_	_	-	_	_		_								
5	Complete including transportation to site	KIIIS	-	-	-	-	-	-	-	-	-								
	Earthing works including Supply of Earthing Materials required in																		
6	U/G Cable Terminations, Straight Through Joints, LA etc to	Lot																	
	complete the specified scope of works including transportation to		-	-	-	-	-	-	-	-	-								
	site																		
7	Construction of Cable Joining Station/Pits	Set	-	-	-	-	-	-	-	-	-								

Name of Tenderer \_\_\_\_\_

#### Schedule No. 4: Installation and Other Services (Excluding VAT applicable in Employer's Country)

ltem	Description	Unit	Total Price Foreign Currency	Total Price
1	2	3	4	5
Ε.	Environmental Mitigation Works			
E.1	Environmental and Social Mitigation Works			
	Mitigation Works as per the ESMP Reports and as assigned by Client.	lot		

Name of Tenderer \_\_\_\_\_

## Distribution and Consumer Services Directorate

## Distribution System Upgrade and Expansion Project

#### Schedule of Rates and Prices

# Schedule No. 6: Recommended Spare Parts (Excluding VAT in Employer's Country)

	Description		Unit	Price	Total	Price
Item		Quantity	CIP	EXW		
nem		Quantity	Imported Parts	Local Parts	Foreign Currency Portion	Local Currency Portion
			Foreign Currency	Local Currency		
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5

Name of Tenderer \_\_\_\_\_