

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. W3 Sub Project: Nagma of Kalikot District and Badki of Jumla District

**Single-Stage: Two-Envelope
Tender Procedure**

Issued on:

Invitation for Tenders No.: ICB-DCSD-2078/79-DSUEP-AIIB-W3

Contract Ref. No.: ICB-DCSD-2078/79-DSUEP-AIIB-W3

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
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Volume III

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Name of Tenderer _____

Signature of Tenderer _____



Volume III

Section 4: Tender Forms

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Name of Tenderer _____

Signature of Tenderer _____



Nepal Electricity Authority
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	
		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			

Name of Tenderer _____

Signature of Tenderer _____




Procurement of Plant

Nepal Electricity Authority
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)

Item	Description	Total Price	
		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	Civil Works of Switchyard Components - Concrete Foundation as per technical specifications and approved design		
1.4.2	Installation Testing and Commissioning Works of Electrical Components of Substation		
1.4.3	Landscaping Works		
1.4.4	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		

Name of Tenderer _____

Signature of Tenderer _____



Procurement of Plant

Nepal Electricity Authority
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)

Item	Description	Total Price	
		Foreign Currency	Local Currency
1	2	3	4
3	33 kV Line		
3.1	Plant and Mandatory Spare Parts Supplied from Abroad		
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	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	Environment, Social Corporate Responsibility Works		
5.1	Mitigation Works		
T-5	Sub Total of Environment, Social Corporate Responsibility Works		
Grand Total (Sum of T-1 ... T-5)			

Name of Tenderer _____

Signature of Tenderer _____



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Procurement of Plant

Nepal Electricity Authority
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	
		Foreign Currency	Local Currency
A.	SUBSTATION		
B.	33 kV FEEDER / TAP OFF STRUCTURE		
C.	33 kV LINE		
D.	UNDERGROUND CABLE		
Grand Total to be carried forward to Schedule 5			

Name of Tenderer _____

Signature of Tenderer _____



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Procurement of Plant

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)		Quantity	Total Quantity	Unit Rate, Domestic Transportation and Insurance, Local Currency		Total, CIP (Nepal Border)	Total, Domestic Transportation and Insurance
				Foreign Currency	Badki Badki			Bhigma Bajedichaur (Nagma)	Badki Badki	Bhigma Bajedichaur (Nagma)	Foreign Currency
1	2	3	4	5	6		7 = Σ6	8		9 = 5 x 7	10 = Σ(π(8 x 6))
					A	B		A	B		
A.	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		1.00	1.00	2.00				
							-				
A.2	36 kV System						-				
1	36 kV, 630 A, 25 kA Outdoor Type, Vacuum Circuit Breaker with Accessories all Complete		set		2.00	2.00	4.00				
2	36 kV, 630 A, 25 kA, isolator with earth switch including accessories all complete		set		4.00	4.00	8.00				
3	36 kV, 40 A, Load Break Switch with accessories all complete		set		1.00	1.00	2.00				
4	36 kV, 4 A, Load Break Switch with accessories all complete		set		1.00	1.00	2.00				
5	Two Core Potential Transformer for 33 kV including fuse with accessories all complete as specified		set		3.00	3.00	6.00				
6	Three Core Current Transformer for 33 kV with accessories all complete as specified		set		2.00	2.00	4.00				
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		1.00	1.00	2.00				
9	30 kV, 10 kA, lighting arrestor with accessories all complete		set		4.00	4.00	8.00				
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	2.00				
11	33/11 kV Transformer Control and Protection Panel complete with all accessories as per specification		set		1.00	1.00	2.00				
12	33 kV Protection Control and Relay Panel complete with all accessories as per specification for Line Bays		set		2.00	2.00	4.00				
13	Marshalling Kiosk Box with Accessories all Complete (1 set refers to complete set in a substation)		set		1.00	1.00	2.00				
							-				
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		3.00	3.00	6.00				
2	12 kV, 25 kA, Indoor Earth Switch with accessories all complete as specified		set		2.00	2.00	4.00				
3	9 kV, 10 kA, lighting arrestor with accessories all complete		set		3.00	3.00	6.00				
							-				

Name of Tenderer _____

Signature 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)		Total Quantity	Unit Rate, Domestic Transportation and Insurance, Local Currency		Total, CIP (Nepal Border)	Total, Domestic Transportation and Insurance
				Foreign Currency	Badki Badki		Bhigma Bajedichaur (Nagma)	Badki Badki	Bhigma Bajedichaur (Nagma)	Foreign Currency
1	2	3	4	5	6		8		9 = 5 x 7	10 = Σ(π(8 x 6))
					A	B	A	B		
A.4 Station Supply System										
1	33/0.4 kV 100 kVA station transformer		set		1.00	1.00				
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				
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				
A.5 DC System										
1	250 Ah, 110 V maintenance free batteries including complete accessories		set		1.00	1.00				
2	Battery Charging unit (110 V) with accessories all complete		set		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				
A.6 Cables										
1	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				
3	11 kV XLPE Cable 3 Core 120 sq mm (Armoured)		m		50.00	50.00				
4	11 kV 3-core heat shrinkable Indoor Cable termination kit 185/300/120 sq mm		set		3.00	3.00				
5	11 kV 3-core heat shrinkable outdoor Cable termination kit 185/120 sq mm		set		3.00	3.00				
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				
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				
A.7 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				
2	Desktop, i9, 10th generation or equivalent with 512 GB SSD and 1 GB HDD, 24 " two screen,		set		1.00	1.00				
3	Laptop, with same configuration as desktop and 15 " screen		set		1.00	1.00				
A.8 Grounding System										

Name of Tenderer _____

Signature of Tenderer _____



Nepal Electricity Authority
 Distribution and Consumer Services Directorate
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Item	Description	Country of Origin	Unit	Unit Rate, CIP (Nepal Border)		Total Quantity	Unit Rate, Domestic Transportation and Insurance, Local Currency		Total, CIP (Nepal Border)		Total, Domestic Transportation and Insurance	
				Foreign Currency	Badki Badki		Bhigma Bajedichaur (Nagma)	Badki Badki	Bhigma Bajedichaur (Nagma)	Foreign Currency	Local Currency	
1	2	3	4	5	6		7 = Σ6	8		9 = 5 x 7	10 = Σ(π(8 x 6))	
					A	B		A	B			
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	2.00					
2	Lightning Mast		ton		0.07	0.07	0.14					
A.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	2.00					
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		6.00	6.00	12.00					
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	1.33					
A.11 11 kV Overhead Line Feeder Components												
1	9 kV, 10 kA, Pole Mounted lighting arrester with accessories all complete		set		2.00	2.00	4.00					
2	Pole Mounted Isolator, for 11 kV with accessories all complete		set		2.00	2.00	4.00					
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	2.00					
2	Dial type Thermometers		set		1.00	1.00	2.00					
3	Oil Level Gauges		set		1.00	1.00	2.00					
4	Insulating Oil (10% of total supply)		set		1.00	1.00	2.00					
5	Indicating Lamps (25% of used)		set		1.00	1.00	2.00					
6	All types of Fuses (25% of used)		set		1.00	1.00	2.00					
7	Complete set of Gaskets of each type		set		1.00	1.00	2.00					
8	Complete set of Pressure Relief Devices		set		1.00	1.00	2.00					
9	All type of Auxiliary, Relays, Contactors and Timers for control, protection and cooling circuit(one of each type)		set		1.00	1.00	2.00					
10	OLTC Motor Contactor		set		1.00	1.00	2.00					
11	Complete set of Buchholz relay		set		1.00	1.00	2.00					
12	OLTC motor		set		1.00	1.00	2.00					
13	Motors for mechanism of each type		set		1.00	1.00	2.00					

Name of Tenderer _____

Signature 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)		Total Quantity	Unit Rate, Domestic Transportation and Insurance, Local Currency		Total, CIP (Nepal Border)	Total, Domestic Transportation and Insurance	
				Foreign Currency	Badki Badki		Bhigma Bajedichaur (Nagma)	Badki Badki	Bhigma Bajedichaur (Nagma)	Foreign Currency	Local Currency
1	2	3	4	5	6		8		9 = 5 x 7	10 = Σ(π(8 x 6))	
					A	B	7 = Σ6	A	B		
A.12.2	For 33 kV Circuit Breaker						-				
1	Tripping Coils		set		2.00	2.00	4.00				
2	Closing Coils		set		2.00	2.00	4.00				
3	Relays and Contactors (One of each type)		set		1.00	1.00	2.00				
4	Motors for Mechanism		set		2.00	2.00	4.00				
5	Interrupter for VCB		set		2.00	2.00	4.00				
A.12.3	For 33 kV Disconnecting Switch						-				
1	Porcelain insulator		set		4.00	4.00	8.00				
2	Main contact assemblies including grounding blades		set		4.00	4.00	8.00				
3	Auxilliary contacts		set		4.00	4.00	8.00				
4	Interlocking Coil		set		4.00	4.00	8.00				
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	2.00				
2	Three Core Current Transformer for 33 kV with accessories all complete as specified (1 Set = 3 Phase)		set		1.00	1.00	2.00				
A.12.5	Lightning Arrestor						-				
1	30 kV Lightning Arrestor (1 Set = 3 Phase)		set		1.00	1.00	2.00				
2	9 kV Lightning Arrestor (1 Set = 3 Phase)		set		1.00	1.00	2.00				
A.12.6	For 33 kV Control & Relay panel						-				
1	Indicating Lamps (50% of used)		set		1.00	1.00	2.00				
2	Fuses of each type(50% of used)		set		1.00	1.00	2.00				
3	Color Caps of each color for indicating lamps (30% of used)		set		1.00	1.00	2.00				
4	One of each type of Switch, Timer and other special devices		set		1.00	1.00	2.00				
5	3 Phase Over Current Relays with Earthfault Inbuilt		set		1.00	1.00	2.00				
6	3 Phase Transformer Differential Relays		set		1.00	1.00	2.00				
7	Each type of Auxiliary Relay		set		1.00	1.00	2.00				
8	Ammeter		set		1.00	1.00	2.00				
9	Voltmeter		set		1.00	1.00	2.00				
A.12.7	Communication/SCADA						-				
1	Input Output Cards/Attribute Cards, (50% of used)		set		1.00	1.00	2.00				
A.12.8	110 V Battery Charger						-				
1	Fuses of each type(50% of used)		set		1.00	1.00	2.00				
2	Indicating Lamp (50% of used)		set		1.00	1.00	2.00				
3	One of each type of Switch, Timer and other special devices		set		1.00	1.00	2.00				
4	Ammeter		set		1.00	1.00	2.00				

Name of Tenderer _____

Signature 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)		Total Quantity	Unit Rate, Domestic Transportation and Insurance, Local Currency		Total, CIP (Nepal Border)		Total, Domestic Transportation and Insurance	
				Foreign Currency	Badki Badki		Bhigma Bajedichaur (Nagma)	Badki Badki	Bhigma Bajedichaur (Nagma)	Foreign Currency	Local Currency	
1	2	3	4	5	6		8		7 = Σ6	9 = 5 x 7		10 = Σ(π(8 x 6))
					A	B	A	B				
5	Voltmeter		set		1.00	1.00			2.00			
A.12.9 For 11 kV Circuit Breakers												
1	Complete set of replacable vacuum chambers		set		1.00	1.00			2.00			
2	Set of Tripping, closing and auxilliary coils		set		1.00	1.00			2.00			
3	Over current/Earth fault relay		set		1.00	1.00			2.00			
4	12 kV Current Transformer		set		1.00	1.00			2.00			
6	12 kV Potential Transformer		set		1.00	1.00			2.00			
7	Spring Charge Motor		set		1.00	1.00			2.00			
8	VCB Breaker Trolley		set		1.00	1.00			2.00			

Name of Tenderer _____

Signature of Tenderer _____



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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)		Quantity	Total Quantity	Unit Rate, Domestic Transportation and Insurance, Local Currency		Total, CIP (Nepal Border)	Total, Domestic Transportation and Insurance
				Foreign Currency	Badki Badki			Bhigma Bajedichaur (Nagma)	Badki Badki	Bhigma Bajedichaur (Nagma)	Foreign Currency
1	2	3	4	5	6		7 = Σ6	8		9 = 5 x 7	10 = Σ(π(8 x 6))
					A	B		A	B		
B.	33 kV FEEDER / TAP OFF STRUCTURE						-				
B.1	Interconnection System						-				
1	36 kV, 630 A, 25 kA Outdoor Type, Vacuum Circuit Breaker with Accessories all Complete		set		-	-	-				
2	36 kV, 630 A, 25 kA, isolator with earth switch including accessories all complete		set		-	-	-				
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	2.00				
8	Marshalling Kiosk Box with Accessories all Complete for placement at tapping point		set		-	-	-				
B.2	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		-	-	-				
3	33 kV outdoor bus bars (IPS tube, 800A) with all required insulators and complete accessories for bay extension, all complete		set		-	-	-				
4	36W, IP 65 Outdoor light for installation at Tap off Point/Switchyard/LILO point		set		1.00	1.00	2.00				
B.3	Spare Parts						-				
	Load Break Switch						-				
1	Complete Set of Load Break Switch used with Storage Compartment		set		-	-	-				

Name of Tenderer _____

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				Foreign Currency	Badki Badki		Bhigma Bajedichaur (Nagma)	Badki Badki	Bhigma Bajedichaur (Nagma)	Foreign Currency	Local Currency	
1	2	3	4	5	6		8		7 = Σ6	9 = 5 x 7		10 = Σ(π(8 x 6))
					A	B	A	B				
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.		1.09	8.44			9.53			
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.		0.18	1.41			1.59			
4	Mid-Span Joining Sleeve (Covered Conductor. rated min 500A)		nos.		1.00	3.00			4.00			
									-			
C.2	Poles and accessories											
C.2.1	Single Circuit Structure and Accessories											
1	11 M Steel Tubular Pole		nos.		-	-			-			
2	Back Strap		nos.		-	-			-			
3	Bolts with suitable nuts and washers (M16 x 100 mm)		nos.		-	-			-			
4	Bolts with suitable nuts and washers (M16 x 235 mm)		nos.		-	-			-			
5	Bolts with suitable nuts and washers (M16 x 50 mm)		nos.		-	-			-			
6	Disc Type Insulator, set of three for 33 kV		nos.		-	-			-			
7	Flat Crossarm Brace 33 kV (50 x 6 x 666 mm)		nos.		-	-			-			
8	Insulator Pin for Pin Insulator of 33 kV		nos.		-	-			-			
9	PG Clamp for ACSR DOG/WOLF		nos.		-	-			-			
10	Pin Type Insulator for 33 kV		nos.		-	-			-			
11	Pole Clamp with Nut, bolt and washers (TC1) with channel and support structures all complete as per design and drawings		nos.		-	-			-			
12	Pole Clamp with Nut, bolt and washers (TC2) with channel and support structures all complete as per design and drawings		nos.		-	-			-			
13	Pole Clamp with Nut, bolt and washers, Bottom Bracing (TC5) with channel and support structures all complete as per design and drawings		nos.		-	-			-			
14	Pole Clamp with Nut, bolt and washers, Top Bracing (TC4) with channel and support structures all complete as per design and drawings		set		-	-			-			
15	Preformed Pin Ties, Top Ties		set		-	-			-			
16	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 1800 mm)		nos.		-	-			-			
17	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 1900 mm)		set		-	-			-			
18	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 2416 mm)		nos.		-	-			-			
19	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 2919 mm)		nos.		-	-			-			
20	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 3300 mm)		nos.		-	-			-			
21	Strap for Insulator String for 33 kV (100 x 5 x 350 mm)		nos.		-	-			-			
22	Tension Set with Ball and Socket Eye		nos.		-	-			-			
C.2	Double Circuit Structure and Accessories											
1	13 m Steel Tubular Pole		nos.		9.00	37.00			46.00			
2	Back Strap		nos.		60.00	360.00			420.00			
3	Bolts with suitable nuts and washers (M16 x 100 mm)		nos.		92.00	416.00			508.00			
4	Bolts with suitable nuts and washers (M16 x 235 mm)		nos.		6.00	138.00			144.00			

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				Foreign Currency	Badki Badki		Bhigma Bajedichaur (Nagma)	Badki Badki	Bhigma Bajedichaur (Nagma)	Foreign Currency	Local Currency
1	2	3	4	5	6		8		9 = 5 x 7	10 = Σ(π(8 x 6))	
					A	B	7 = Σ6	A	B		
5	Bolts with suitable nuts and washers (M16 x 50 mm)		nos.		9.00	207.00	216.00				
6	Disc Type Insulator, set of three for 33 kV		nos.		60.00	360.00	420.00				
7	Flat Crossarm Brace 33 kV (50 x 6 x 666 mm)		nos.		6.00	138.00	144.00				
8	Insulator Pin for Pin Insulator of 33 kV		set		30.00	180.00	210.00				
9	PG Clamp for ACSR DOG/WOLF		set		30.00	180.00	210.00				
10	Pin Type Insulator for 33 kV		nos.		30.00	180.00	210.00				
11	Pole Clamp with Nut, bolt and washers (TC1) with channel and support structures all complete as per design and drawings		set		27.00	111.00	138.00				
12	Pole Clamp with Nut, bolt and washers (TC2) with channel and support structures all complete as per design and drawings		nos.		3.00	69.00	72.00				
13	Pole Clamp with Nut, bolt and washers, Bottom Bracing (TC5) with channel and support structures all complete as per design and drawings		nos.		8.00	14.00	22.00				
14	Pole Clamp with Nut, bolt and washers, Top Bracing (TC4) with channel and support structures all complete as per design and drawings		nos.		8.00	14.00	22.00				
15	Preformed Pin Ties, Top Ties		nos.		30.00	180.00	210.00				
16	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 1600 mm)		nos.		4.00	7.00	11.00				
17	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 1640 mm)		nos.		4.00	7.00	11.00				
18	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 1700 mm)		nos.		30.00	180.00	210.00				
19	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 2500 mm)		nos.		-	-	-				
20	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 2610 mm)		nos.		8.00	14.00	22.00				
21	Strap for Insulator String for 33 kV (100 x 5 x 350 mm)		nos.		24.00	42.00	66.00				
22	Tension Set with Ball and Socket Eye		nos.		60.00	360.00	420.00				
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.		-	-	-				
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.		6.00	22.00	28.00				
3	Bolts with suitable nuts and washers (M16 x 50 mm)		nos.		12.00	44.00	56.00				
4	Bolts with suitable nuts and washers (M16 x 100 mm)		nos.		12.00	44.00	56.00				
5	Stay Wire, (7/10 SWG minimum)		kg		60.00	220.00	280.00				
6	Stay/Guy Insulator		nos.		6.00	22.00	28.00				
7	Stay Turn Buckle including Thimble, (18 SWG minimum)		nos.		6.00	22.00	28.00				
8	Stay I bolt, (12 inch minimum)		0		6.00	22.00	28.00				
9	Stay I Rod/Anchor Rod, (minimum 1600 mm)		nos.		6.00	22.00	28.00				
10	Bow set with Thimble		nos.		6.00	22.00	28.00				
11	Stay Grip		nos.		6.00	22.00	28.00				
12	Galvanized Steel Stay Plate for Installation Underground, (600 x 600 x 6 mm minimum)		nos.		6.00	22.00	28.00				
							-				
C.3	Special Components						-				
1	14.5 m Steel Tubular Pole		nos.		1.00	1.00	2.00				

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				Foreign Currency	Badki Badki			Badki Badki	Bhigma Bajedichaur (Nagma)	Badki Badki	Bhigma Bajedichaur (Nagma)	Foreign Currency	Local Currency
1	2	3	4	5	6		7 = Σ6	8		9 = 5 x 7	10 = Σ(π(8 x 6))		
					A	B		A	B				
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)		ton		-	-	-						
3	Bird Guard in Poles as per project requirement (1 set consists of complete set required for a pole)		set		5.00	15.00	20.00						

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				Foreign Currency	Badki Badki		Bhigma Bajedichaur (Nagma)	Badki Badki	Bhigma Bajedichaur (Nagma)	Foreign Currency	Local Currency	
1	2	3	4	5	6		8		9 = 5 x 7		10 = Σ(π(8 x 6))	
					A	B	7 = Σ6	A	B			
D.	Under Ground Cable						-					
1	33kV Underground Power Cable (Al conductor, XLPE insulated, 400 sq.mm., Single core, armoured)		kms		-	-	-					
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		-	-	-					
6	HDPE Pipe (225mm dia, 6kg) for laying Single Core UG Cable, ADSS Cable at road crossings including all accessories complete		kms		-	-	-					
7	Sheath Voltage Limiter 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		-	-	-					

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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	
		Foreign Currency	Local Currency
A.	SUBSTATION		
B.	33 kV FEEDER / TAP OFF STRUCTURE		
C.	33 kV LINE		
D.	UNDERGROUND CABLE		
Grand Total to be carried forward to Schedule 5			

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Procurement of Plant

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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		Quantity		Total Quantity	Unit Rate, Domestic Transportation and Insurance, Local Currency		Total EXW Price	Total, Domestic Transportation and Insurance	Total Price
			Local Currency	Badki Badki	Badki Badki	Bhigma Bajedichaur (Nagma)		Badki Badki	Bhigma Bajedichaur (Nagma)			
1	2	3	4	5		6 = Σ5	7		8 = 4 x 6	9 = Σ(5 x 7))	10 = 8 + 9	
				A	B		A	B				
A.	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		1.00	1.00							
A.2	36 kV System											
1	36 kV, 630 A, 25 kA Outdoor Type, Vacuum Circuit Breaker with Accessories all Complete	set		2.00	2.00							
2	36 kV, 630 A, 25 kA, isolator with earth switch including accessories all complete	set		4.00	4.00							
3	36 kV, 40 A, Load Break Switch with accessories all complete	set		1.00	1.00							
4	36 kV, 4 A, Load Break Switch with accessories all complete	set		1.00	1.00							
5	Two Core Potential Transformer for 33 kV including fuse with accessories all complete as specified	set		3.00	3.00							
6	Three Core Current Transformer for 33 kV with accessories all complete as specified	set		2.00	2.00							
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		1.00	1.00							
9	30 kV, 10 kA, lightning arrestor with accessories all complete	set		4.00	4.00							
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							

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			Local Currency	Badki Badki	Bhigma Bajedichaur (Nagma)		Badki Badki	Bhigma Bajedichaur (Nagma)	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	B		A	B			
11	33/11 kV Transformer Control and Protection Panel complete with all accessories as per specification	set		1.00	1.00						
12	33 kV Protection Control and Relay Panel complete with all accessories as per specification for Line Bays	set		2.00	2.00						
13	Marshalling Kiosk Box with Accessories all Complete (1 set refers to complete set in a substation)	set		1.00	1.00						
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		3.00	3.00						
2	12 kV, 25 kA, Indoor Earth Switch with accessories all complete as specified	set		2.00	2.00						
3	9 kV, 10 kA, lightning arrestor with accessories all complete	set		3.00	3.00						

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			Local Currency	Badki Badki	Badki Badki	Bhigma Bajedichaur (Nagma)		Badki Badki	Bhigma Bajedichaur (Nagma)			
1	2	3	4	5		6 = Σ5	7		8 = 4 x 6	9 = Σ(5 x 7))	10 = 8 + 9	
				A	B		A	B				
A.4 Station Supply System												
1	33/0.4 kV 100 kVA station transformer	set		1.00	1.00							
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							
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							
A.5 DC System												
1	250 Ah, 110 V maintenance free batteries including complete accessories	set		1.00	1.00							
2	Battery Charging unit (110 V) with accessories all complete	set		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							
A.6 Cables												
1	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							
3	11 kV XLPE Cable 3 Core 120 sq mm (Armoured)	m		50.00	50.00							
4	11 kV 3-core heat shrinkable Indoor Cable termination kit 185/300/120 sq mm	set		3.00	3.00							
5	11 kV 3-core heat shrinkable outdoor Cable termination kit 185/120 sq mm	set		3.00	3.00							
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							
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							
A.7 Automation and Control System - SCADA												

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			Local Currency	Badki Badki	Badki Badki	Bhigma Bajedichaur (Nagma)		Badki Badki	Bhigma Bajedichaur (Nagma)			
1	2	3	4	5		6 = Σ5	7		8 = 4 x 6	9 = Σ(π(5 x 7))	10 = 8 + 9	
				A	B		A	B				
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							
2	Desktop, i9, 10th generation or equivalent with 512 GB SSD and 1 GB HDD, 24 " two screen,	set		1.00	1.00							
3	Laptop, with same configuration as desktop and 15 " screen	set		1.00	1.00							
A.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							
2	Lightning Mast	ton		0.07	0.07							
A.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							
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		6.00	6.00							
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							

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			Local Currency	Badki Badki	Badki Badki	Bhigma Bajedichaur (Nagma)		Badki Badki	Bhigma Bajedichaur (Nagma)			
1	2	3	4	5		6 = Σ5	7		8 = 4 x 6	9 = Σ(π(5 x 7))	10 = 8 + 9	
				A	B		A	B				
A.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	Pole Mounted Isolator, for 11 kV with accessories all complete	set		2.00	2.00							
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							
2	Dial type Thermometers	set		1.00	1.00							
3	Oil Level Gauges	set		1.00	1.00							
4	Insulating Oil (10% of total supply)	set		1.00	1.00							
5	Indicating Lamps (25% of used)	set		1.00	1.00							
6	All types of Fuses (25% of used)	set		1.00	1.00							
7	Complete set of Gaskets of each type	set		1.00	1.00							
8	Complete set of Pressure Relief Devices	set		1.00	1.00							
9	All type of Auxiliary, Relays, Contactors and Timers for control, protection and cooling circuit(one of each type)	set		1.00	1.00							
10	OLTC Motor Contactor	set		1.00	1.00							
11	Complete set of Buchholz relay	set		1.00	1.00							
12	OLTC motor	set		1.00	1.00							
13	Motors for mechanism of each type	set		1.00	1.00							

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			Local Currency	Badki Badki	Badki Badki	Bhigma Bajedichaur (Nagma)		Badki Badki	Bhigma Bajedichaur (Nagma)			
1	2	3	4	5		6 = Σ5	7		8 = 4 x 6	9 = Σ(π(5 x 7))	10 = 8 + 9	
				A	B		A	B				
A.12.2 For 33 kV Circuit Breaker												
1	Tripping Coils	set		2.00	2.00							
2	Closing Coils	set		2.00	2.00							
3	Relays and Contactors (One of each type)	set		1.00	1.00							
4	Motors for Mechanism	set		2.00	2.00							
5	Interrupter for VCB	set		2.00	2.00							
A.12.3 For 33 kV Disconnecting Switch												
1	Porcelain insulator	set		4.00	4.00							
2	Main contact assemblies including grounding blades	set		4.00	4.00							
3	Auxilliary contacts	set		4.00	4.00							
4	Interlocking Coil	set		4.00	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							
2	Three Core Current Transformer for 33 kV with accessories all complete as specified (1 Set = 3 Phase)	set		1.00	1.00							
A.12.5 Lightning Arrestor												
1	30 kV Lightning Arrestor (1 Set = 3 Phase)	set		1.00	1.00							
2	9 kV Lightning Arrestor (1 Set = 3 Phase)	set		1.00	1.00							
A.12.6 For 33 kV Control & Relay panel												
1	Indicating Lamps (50% of used)	set		1.00	1.00							
2	Fuses of each type(50% of used)	set		1.00	1.00							
3	Color Caps of each color for indicating lamps (30% of used)	set		1.00	1.00							
4	One of each type of Switch, Timer and other special devices	set		1.00	1.00							
5	3 Phase Over Current Relays with Earthfault Inbuilt	set		1.00	1.00							
6	3 Phase Transformer Differential Relays	set		1.00	1.00							
7	Each type of Auxiliary Relay	set		1.00	1.00							
8	Ammeter	set		1.00	1.00							
9	Voltmeter	set		1.00	1.00							

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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		Quantity		Total Quantity	Unit Rate, Domestic Transportation and Insurance, Local Currency		Total EXW Price	Total, Domestic Transportation and Insurance	Total Price
			Local Currency	Badki Badki	Badki Badki	Bhigma Bajedichaur (Nagma)		Badki Badki	Bhigma Bajedichaur (Nagma)			
1	2	3	4	5		6 = Σ5	7		8 = 4 x 6	9 = Σ(π(5 x 7))	10 = 8 + 9	
				A	B		A	B				
A.12.7 Communication/SCADA												
1	Input Output Cards/Attribute Cards, (50% of used)	set		1.00	1.00							
A.12.8 110 V Battery Charger												
1	Fuses of each type(50% of used)	set		1.00	1.00							
2	Indicating Lamp (50% of used)	set		1.00	1.00							
3	One of each type of Switch, Timer and other special devices	set		1.00	1.00							
4	Ammeter	set		1.00	1.00							
5	Voltmeter	set		1.00	1.00							
A.12.9 For 11 kV Circuit Breakers												
1	Complete set of replacable vacuum chambers	set		1.00	1.00							
2	Set of Tripping, closing and auxilliary coils	set		1.00	1.00							
3	Over current/Earth fault relay	set		1.00	1.00							
4	12 kV Current Transformer	set		1.00	1.00							
6	12 kV Potential Transformer	set		1.00	1.00							
7	Spring Charge Motor	set		1.00	1.00							
8	VCB Breaker Trolly	set		1.00	1.00							

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Item	Description	Unit	Unit Rate, EXWorks	Quantity		Total Quantity	Unit Rate, Domestic Transportation and Insurance, Local Currency		Total EXW Price	Total, Domestic Transportation and Insurance	Total Price
			Local Currency	Badki Badki	Bhigma Bajedichaur (Nagma)		Badki Badki	Bhigma Bajedichaur (Nagma)			
1	2	3	4	5		6 = Σ5	7		8 = 4 x 6	9 = Σ(π(5 x 7))	10 = 8 + 9
				A	B		A	B			
B.	33 kV FEEDER / TAP OFF STRUCTURE										
B.1	Interconnection System										
1	36 kV, 630 A, 25 kA Outdoor Type, Vacuum Circuit Breaker with Accessories all Complete	set		-	-						
2	36 kV, 630 A, 25 kA, isolator with earth switch including accessories all complete	set		-	-						
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						
5	Three Core Current Transformer for 33 kV with accessories all complete as specified	set		1.00	1.00						
6	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						
8	Marshalling Kiosk Box with Accessories all Complete for placement at tapping point	set		-	-						
B.2	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		-	-						
3	33 kV outdoor bus bars (IPS tube, 800A) with all required insulators and complete accessories for bay extension, all complete	set		-	-						
4	36W, IP 65 Outdoor light for installation at Tap off Point/Switchyard/LILO point	set		1.00	1.00						
B.3	Spare Parts										
1	Complete Set of Load Break Switch used with Storage Compartment	set		-	-						

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Item	Description	Unit	Unit Rate, EXWorks		Quantity		Total Quantity	Unit Rate, Domestic Transportation and Insurance, Local Currency		Total EXW Price	Total, Domestic Transportation and Insurance	Total Price
			Local Currency	Badki Badki	Badki Badki	Bhigma Bajedichaur (Nagma)		Badki Badki	Bhigma Bajedichaur (Nagma)			
1	2	3	4	5		6 = Σ5	7		8 = 4 x 6	9 = Σ(π(5 x 7))	10 = 8 + 9	
				A	B		A	B				
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.		1.09	8.44							
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.		0.18	1.41							
4	Mid-Span Joining Sleeve (Covered Conductor. rated min 500A)	nos.		1.00	3.00							
C.2	Poles and accessories											
C.2.1	Single Circuit Structure and Accessories											
1	11 M Steel Tubular Pole	nos.		-	-							
2	Back Strap	nos.		-	-							
3	Bolts with suitable nuts and washers (M16 x 100 mm)	nos.		-	-							
4	Bolts with suitable nuts and washers (M16 x 235 mm)	nos.		-	-							
5	Bolts with suitable nuts and washers (M16 x 50 mm)	nos.		-	-							
6	Disc Type Insulator, set of three for 33 kV	nos.		-	-							
7	Flat Crossarm Brace 33 kV (50 x 6 x 666 mm)	nos.		-	-							
8	Insulator Pin for Pin Insulator of 33 kV	nos.		-	-							
9	PG Clamp for ACSR DOG/WOLF	nos.		-	-							
10	Pin Type Insulator for 33 kV	nos.		-	-							
11	Pole Clamp with Nut, bolt and washers (TC1) with channel and support structures all complete as per design and drawings	nos.		-	-							
12	Pole Clamp with Nut, bolt and washers (TC2) with channel and support structures all complete as per design and drawings	nos.		-	-							
13	Pole Clamp with Nut, bolt and washers, Bottom Bracing (TC5) with channel and support structures all complete as per design and drawings	nos.		-	-							

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Item	Description	Unit	Unit Rate, EXWorks	Quantity		Total Quantity	Unit Rate, Domestic Transportation and Insurance, Local Currency		Total EXW Price	Total, Domestic Transportation and Insurance	Total Price
			Local Currency	Badki Badki	Bhigma Bajedichaur (Nagma)		Badki Badki	Bhigma Bajedichaur (Nagma)	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	B		A	B			
14	Pole Clamp with Nut, bolt and washers, Top Bracing (TC4) with channel and support structures all complete as per design and drawings	set		-	-						
15	Preformed Pin Ties, Top Ties	set		-	-						
16	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 1800 mm)	nos.		-	-						
17	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 1900 mm)	set		-	-						
18	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 2416 mm)	nos.		-	-						
19	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 2919 mm)	nos.		-	-						
20	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 3300 mm)	nos.		-	-						
21	Strap for Insulator String for 33 kV (100 x 5 x 350 mm)	nos.		-	-						
22	Tension Set with Ball and Socket Eye	nos.		-	-						
C.2	Double Circuit Structure and Accessories										
1	13 m Steel Tubular Pole	nos.		9.00	37.00						
2	Back Strap	nos.		60.00	360.00						
3	Bolts with suitable nuts and washers (M16 x 100 mm)	nos.		92.00	416.00						
4	Bolts with suitable nuts and washers (M16 x 235 mm)	nos.		6.00	138.00						
5	Bolts with suitable nuts and washers (M16 x 50 mm)	nos.		9.00	207.00						
6	Disc Type Insulator, set of three for 33 kV	nos.		60.00	360.00						
7	Flat Crossarm Brace 33 kV (50 x 6 x 666 mm)	nos.		6.00	138.00						
8	Insulator Pin for Pin Insulator of 33 kV	set		30.00	180.00						
9	PG Clamp for ACSR DOG/WOLF	set		30.00	180.00						
10	Pin Type Insulator for 33 kV	nos.		30.00	180.00						
11	Pole Clamp with Nut, bolt and washers (TC1) with channel and support structures all complete as per design and drawings	set		27.00	111.00						
12	Pole Clamp with Nut, bolt and washers (TC2) with channel and support structures all complete as per design and drawings	nos.		3.00	69.00						
13	Pole Clamp with Nut, bolt and washers, Bottom Bracing (TC5) with channel and support structures all complete as per design and drawings	nos.		8.00	14.00						

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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		Quantity		Total Quantity	Unit Rate, Domestic Transportation and Insurance, Local Currency		Total EXW Price	Total, Domestic Transportation and Insurance	Total Price
			Local Currency	Badki Badki	Badki Badki	Bhigma Bajedichaur (Nagma)		Badki Badki	Bhigma Bajedichaur (Nagma)			
1	2	3	4	5		6 = $\Sigma 5$	7		8 = 4 x 6	9 = $\Sigma(\pi(5 x 7))$	10 = 8 + 9	
				A	B		A	B				
14	Pole Clamp with Nut, bolt and washers, Top Bracing (TC4) with channel and support structures all complete as per design and drawings	nos.		8.00	14.00							
15	Preformed Pin Ties, Top Ties	nos.		30.00	180.00							
16	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 1600 mm)	nos.		4.00	7.00							
17	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 1640 mm)	nos.		4.00	7.00							
18	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 1700 mm)	nos.		30.00	180.00							
19	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 2500 mm)	nos.		-	-							
20	Steel Crossarm Channel (100 x 50 x 7.5 x 4.7 x 2610 mm)	nos.		8.00	14.00							
21	Strap for Insulator String for 33 kV (100 x 5 x 350 mm)	nos.		24.00	42.00							
22	Tension Set with Ball and Socket Eye	nos.		60.00	360.00							
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.		-	-							
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.		6.00	22.00							
3	Bolts with suitable nuts and washers (M16 x 50 mm)	nos.		12.00	44.00							
4	Bolts with suitable nuts and washers (M16 x 100 mm)	nos.		12.00	44.00							
5	Stay Wire, (7/10 SWG minimum)	kg		60.00	220.00							
6	Stay/Guy Insulator	nos.		6.00	22.00							
7	Stay Turn Buckle including Thimble, (18 SWG minimum)	nos.		6.00	22.00							
8	Stay I bolt, (12 inch minimum)	0		6.00	22.00							
9	Stay I Rod/Anchor Rod, (minimum 1600 mm)	nos.		6.00	22.00							
10	Bow set with Thimble	nos.		6.00	22.00							
11	Stay Grip	nos.		6.00	22.00							
12	Galvanized Steel Stay Plate for Installation Underground, (600 x 600 x 6 mm minimum)	nos.		6.00	22.00							

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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		Quantity		Total Quantity	Unit Rate, Domestic Transportation and Insurance, Local Currency		Total EXW Price	Total, Domestic Transportation and Insurance	Total Price
			Local Currency	Badki Badki	Badki Badki	Bhigma Bajedichaur (Nagma)		Badki Badki	Bhigma Bajedichaur (Nagma)			
1	2	3	4	5		6 = Σ5	7		8 = 4 x 6	9 = Σ(π(5 x 7))	10 = 8 + 9	
				A	B		A	B				
C.3	Special Components											
1	14.5 m Steel Tubular Pole	nos.		1.00	1.00							
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)	ton		-	-							
3	Bird Guard in Poles as per project requirement (1 set consists of complete set required for a pole)	set		5.00	15.00							

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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		Quantity		Total Quantity	Unit Rate, Domestic Transportation and Insurance, Local Currency		Total EXW Price	Total, Domestic Transportation and Insurance	Total Price
			Local Currency	Badki Badki	Badki Badki	Bhigma Bajedichaur (Nagma)		Badki Badki	Bhigma Bajedichaur (Nagma)			
1	2	3	4	5		6 = $\Sigma 5$	7		8 = 4 x 6	9 = $\Sigma(\pi(5 \times 7))$	10 = 8 + 9	
				A	A		A	A				
D.	Under Ground Cable											
1	33kV Underground Power Cable (Al conductor, XLPE insulated, 400 sq.mm., Single core, armoured)	kms		-	-							
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		-	-							
6	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		-	-							

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

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

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Procurement of Plant

Nepal Electricity Authority
Distribution and Consumer Services Directorate
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Schedule of Rates and Prices

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

Item	Description	Unit	Quantity	Unit Price		Total Price	
				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
A.	SUBSTATION						
1	Preconstruction Survey, 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	2.00				
2	As Built Drawings, Testing and Commissioning of 33/11 kV Substation as per the scope of the project	LS	2.00				
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	3.00				
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	3.00				
B.	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	-				
2	As Built Drawings, Testing and Commissioning of 33 kV bay in source substation as per the scope of the project.	LS	-				
3	Preconstruction Survey, Design and Drawings of 33 kV tap off/LILO point as per the scope of the project.	LS	2.00				
4	As Built Drawings, Testing and Commissioning of 33 kV tap off/LILO point in substation as per the scope of the project.	LS	2.00				

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

Item	Description	Unit	Quantity	Unit Price		Total Price	
				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
C.	33 kV Line						
1	Preconstruction Survey, Design and Drawings of 33 kV Line as per the scope of the project	kms	1.51				
2	As Built Drawings, Testing and Commissioning of 33 kV Line as per the scope of the project	kms	1.51				
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	-				
4	As Built Drawings, Commissioning of roads to be constructed after installation of Underground Cable as per the scope of the project.	kms	-				

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

Schedule No.	Title	Total Price	
		Foreign Currency	Local Currency
A.	SUBSTATION		
A.1	Civil Works of Switchyard Components - Concrete Foundation as per technical specifications and approved design		
A.2	Installation Testing and Commissioning Works of Electrical Components of Substation		
A.3	Landscaping Works		
A.4	Building Works		
A.5	Roads and Drainage		
Sub Total A. Substation			
B.	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		
D.1	Installation, Testing and Commissioning Works and Civil Works		
D.	UNDERGROUND CABLE		
D.1	Installation, Testing and Commissioning Works and Civil Works		
E.	Environment, Social Corporate Responsibility Works		
E.1	Mitigation Works		
Grand Total to be carried forward to Schedule 5			

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Signature of Tenderer _____



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Procurement of Plant

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

Item	Description	Unit	Quantity		Total Quantity	Unit Price, Local Currency		Total Price
			Badki Badki	Bhigma Bajedichaur (Nagma)		Badki Badki	Bhigma Bajedichaur (Nagma)	
1	2	3	4		5 = Σ4	6		7 = Σ(π(4 x 6))
			A	B		A	B	
A.	SUBSTATION							
A.1	Civil Works of Switchyard and Substation Components - Concrete Foundation as per technical specifications and approved design/drawings				-			
A.1.1	Equipment Support Pedestals for Switchyard Components, including Gantries, Current Transformer (CT), Potential Transformer (PT), Lightning Arrestor (LA), Power Transformer, Station Transformer, Disconnecting Switches with Earth Switch, Post Insulator (PI), BUS PI, Lightning Mast (LM), etc. all complete				-			
1	Earthwork Excavation by means of mechanical 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	183.21	183.21	366.41			
2	Providing and laying of plain cement concrete (PCC Work) M10 (manual mixed) in foundation complete as per drawing and technical specifications.	cu.m	6.81	6.81	13.62			
3	Providing and laying of reinforced cement concrete (RCC Work) M15 (manual mixed) in foundation complete as per drawing and technical specifications.	cu.m	49.86	49.86	99.71			
4	Providing and laying MS Reinforcement including cutting, bending, binding, fixing in position etc. all complete as per specification and drawing.	ton	3.91	3.91	7.83			
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	211.43	211.43	422.86			
6	Back filling in layers in foundationpits, trenches , etc, includingcompaction all complete with watering	cu.m	126.54	126.54	253.08			
					-			
A.1.2	Cable Trench				-			
1	Earthwork Excavation by means of mechanical 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	48.90	48.90	97.80			
2	Providing and laying of plain cement concrete (PCC Work) M10 (manual mixed) in foundation complete as per drawing and technical specifications.	cu.m	4.00	4.00	8.00			
3	Providing and laying of reinforced cement concrete (RCC Work) M15 (manual mixed) in foundation complete as per drawing and technical specifications.	cu.m	15.95	15.95	31.90			
4	Providing and laying of reinforced cement concrete (RCC Precast Slab Work) M15 (manual mixed) in foundation complete as per drawing and technical specifications.	cu.m	2.31	2.31	4.62			
5	Providing and laying MS Reinforcement including cutting, bending, binding, fixing in position etc. all complete as per specification and drawing.	ton	1.43	1.43	2.85			
6	Supply and fixing of cable holding Galvanized M.S. angle bracket as per drawing	m	41.00	41.00	82.00			
					-			
A.1.3	Grounding System				-			
1	Providing and laying of plain/reinforced cement concrete M15 (manual mixed) in for Switchyard Lightning Protection System, Earthing arrangement as essential in the substation all complete	cu.m	40.50	40.50	81.00			
					-			
A.1.4	Illumination System				-			
1	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	5.11	5.11	10.22			
					-			
A.1.5	Miscellaneous				-			
1	Surface dressing with Crushed Stone including antiweed treatment as per TS & approved design all complete	cu.m	4.00	4.00	8.00			

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

Item	Description	Unit	Quantity		Total Quantity	Unit Price, Local Currency		Total Price
			Badki Badki	Bhigma Bajedichaur (Nagma)		Badki Badki	Bhigma Bajedichaur (Nagma)	
1	2	3	4		5 = Σ4	6		7 = Σ(π(4 x 6))
			A	B		A	B	
A.	SUBSTATION							
A.2	Installation Testing and Commissioning Works of Electrical Components of Substation				-			
A.2.1	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	1.00	1.00	2.00			
					-			
A.2.2	36 kV System				-			
1	36 kV, 630 A, 25 kA Outdoor Type, Vacuum Circuit Breaker with Accessories all Complete	set	2.00	2.00	4.00			
2	36 kV, 630 A, 25 kA, isolator with earth switch including accessories all complete	set	4.00	4.00	8.00			
3	36 kV, 40 A, Load Break Switch with accessories all complete	set	1.00	1.00	2.00			
4	36 kV, 4 A, Load Break Switch with accessories all complete	set	1.00	1.00	2.00			
5	Two Core Potential Transformer for 33 kV including fuse with accessories all complete as specified	set	3.00	3.00	6.00			
6	Three Core Current Transformer for 33 kV with accessories all complete as specified	set	2.00	2.00	4.00			
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	1.00	1.00	2.00			
9	30 kV, 10 kA, lightning arrester with accessories all complete	set	4.00	4.00	8.00			
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	2.00			
11	33/11 kV Transformer Control and Protection Panel complete with all accessories as per specification	set	1.00	1.00	2.00			
12	33 kV Protection Control and Relay Panel complete with all accessories as per specification for Line Bays	set	2.00	2.00	4.00			
13	Marshalling Kiosk Box with Accessories all Complete (1 set refers to complete set in a substation)	set	1.00	1.00	2.00			
					-			
A.2.3	12 kV System				-			
1	12 kV Indoor VCB, with Control and Relay Panel and CT / PT with accessories all complete as specified	set	3.00	3.00	6.00			
2	12 kV, 25 kA, Indoor Earth Switch with accessories all complete as specified	set	2.00	2.00	4.00			
3	9 kV, 10 kA, lightning arrester with accessories all complete	set	3.00	3.00	6.00			
					-			
A.2.4	Station Supply System				-			
1	33/0.4 kV 100 kVA station transformer	set	1.00	1.00	2.00			
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	2.00			
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	2.00			
					-			
A.2.5	DC System				-			
1	250 Ah, 110 V maintenance free batteries including complete accessories	set	1.00	1.00	2.00			
2	Battery Charging unit (110 V) with accessories all complete	set	1.00	1.00	2.00			
3	DC Distribution System including accessories all complete as per specifications(1 set includes complete lot for substation)	set	1.00	1.00	2.00			
					-			
A.2.6	Cables				-			
1	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	50.00			
3	11 kV XLPE Cable 3 Core 120 sq mm (Armoured)	m	50.00	50.00	100.00			
4	11 kV 3-core heat shrinkable Indoor Cable termination kit 185/300/120 sq mm	set	3.00	3.00	6.00			
5	11 kV 3-core heat shrinkable outdoor Cable termination kit 185/120 sq mm	set	3.00	3.00	6.00			

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1	2	3	4		5 = Σ4	6		7 = Σ(π(4 x 6))
			A	B		A	B	
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	2.00			
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	2.00			
			-	-	-			
A.2.7 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	2.00			
2	Desktop, i9, 10th generation or equivalent with 512 GB SSD and 1 GB HDD, 24 " two screen,	set	1.00	1.00	2.00			
3	Laptop, with same configuration as desktop and 15 " screen	set	1.00	1.00	2.00			
			-	-	-			
A.2.8 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	2.00			
2	Lightning Mast	ton	0.07	0.07	0.14			
			-	-	-			
A.2.9 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	2.00			
			-	-	-			
A.2.10 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	6.00	6.00	12.00			
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	1.33			
			-	-	-			
A.2.11 11 kV Overhead Line Feeder Components								
1	9 kV, 10 kA, Pole Mounted lightning arrestor with accessories all complete	set	2.00	2.00	4.00			
2	Pole Mounted Isolator, for 11 kV with accessories all complete	set	2.00	2.00	4.00			

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1	2	3	4		5 = Σ4	6		7 = Σ(π(4 x 6))
			A	B		A	B	
A.	SUBSTATION							
A.3	Landscaping Works				-			
A.3.1	Site Levelling				-			
1	Earth work in cutting including site clearing and contour survey work	cu.m	700.00	550.00	1,250.00			
2	Earth work in Filling and in filling with borrowed earth including site clearing and contour survey work	cu.m	15,000.00	15,000.00	30,000.00			
A.3.2	Boundary Wall				-			
1	Earth work in cutting & Filling and in filling with borrowed earth including site clearing and levelling	cu.m	555.75	472.39	1,028.14			
2	Earthwork in backfilling	cu.m	111.15	94.48	205.63			
3	Stone soling and finishing upto approved level, line and dimension	cu.m	8.55	7.27	15.82			
4	Supplying mixing, placing, compacting M15 plain cement concrete for foundation bases, brick wall top (copping) and stone masonry top (copping).	cu.m	63.15	53.68	116.83			
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	1,000.00	850.00	1,850.00			
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	138.00	117.30	255.30			
7	Providing, laying & curing cement sand (1:4) Plastering on external walls to perfect plumb, lines & level including raking the mortar joints and wetting the masonry surface all complete as per design drawings, specifications and instruction of the site engineer all complete:	sq.m	1,200.00	1,020.00	2,220.00			
9	Chain link fencing as per technical specification and approved drawing but excluding concrete which shall be paid separately	rm	400.00	340.00	740.00			
A.3.4	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	20.25			
2	Dry flat brick soling works	cu.m	1.01	1.01	2.03			
3	Providing and laying of plain/reinforced cement concrete M15 (manual mixed) in foundation complete as per drawing and technical specifications.	cu.m	0.51	0.51	1.01			
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	9.58			
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	0.75			
6	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	30.06	30.06	60.12			
7	Providing, and installation all complete of metal gate as per TS and drawings	nos.	1.00	1.00	2.00			
					-			
A.3.3	Switchyard Fencing				-			
1	Chain link fencing as per technical specification and approved drawing but excluding concrete which shall be paid separately	rm	94.50	94.50	189.00			
2	Switch yard Gate with complete finish as per specifications	Nos.	1.00	1.00	2.00			
A.3.4	Miscellaneous Works in Switchyard				-			
1	Stone spreading including antiweed treatment in switchyard but excluding PCC.	sq.m	28.60	28.60	57.20			
2	Providing and laying 75mm thick Plain Cement Concrete 1:5:10 (1 cement : 5 sand : 10 Stone aggregate)	cu.m	19.31	19.31	38.61			
					-			

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1	2	3	4		5 = Σ4	6		7 = Σ(4 x 6))
			A	B		A	B	
A.4	Building Works							
A.4.1	Site Clearance works				-			
1	Clearing and grubbing including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth upto 300mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned upto a lead of 30m	sqm	429.56	633.11	1,062.67			
A.4.2	Earthworks				-			
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.	cum	291.11	385.38	676.49			
2	Back filling in layers in foundation pits, trenches, etc. with approved soil obtained from the excavation at site and stacked at site or brought from outside in layer including compaction all complete with watering	cum	227.39	283.96	511.35			
A.4.3	Concrete Works				-			
1	Providing and laying of plain/reinforced cement concrete M15 (machine mixed) in foundation complete as per drawing and technical specifications.	cum	29.69	147.91	177.60			
2	Providing and laying of plain/reinforced cement concrete M25 (machine mixed) in foundation complete as per drawing and technical specifications.	cum	195.52	271.48	466.99			
3	Providing and laying Reinforcement including cutting, bending, binding, fixing in position etc. all complete as per specification and drawing.	ton	30.70	42.62	73.32			
4	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.	sqm	983.98	1,546.00	2,529.97			
A.4.4	Brick Works				-			
1	Dry flat brick soling works	sqm	461.74	666.62	1,128.36			
2	Providing & laying First class chimney made brick masonry work in Foundation with 1:6 cement sand mortar including lead upto 30 m with curing, cleaning & racking out mortar joint and making ducts, recesses where required as per drawing	cum	72.89	109.88	182.77			
3	Providing & laying First class chimney made brick masonry work in Superstructure with 1:6 cement sand mortar including lead upto 30 m with curing, cleaning & racking out mortar joint and making ducts, recesses where required as per drawing	cum	164.78	225.11	389.88			
A.4.5	Finishing Works				-			
1	2mm thick white putty on wall and ceiling	sqm	1,373.20	2,194.84	3,568.03			
2	Two coat plastic emulsion paint over one coat primer (Astar) on new surface	sqm	960.98	1,566.69	2,527.67			
3	Two coat weather coating over one coat primer (Astar) on new surface	sqm	412.22	628.15	1,040.37			
4	Two coat readymade enamel paint over one coat primer (Astar)	sqm	130.51	195.79	326.30			
5	Sal wood work for chokosh[0.1x0.075m section]	cum	0.96	1.48	2.44			
6	Flush shutter 38mm thick sal wood frame with 3mm thick teak plywood on both side of shutter	sqm	61.98	86.28	148.26			
7	Providing, fabricating & fixing Windows and ventilation of Upvc frame using Upvc section with 5mm clear float glass, U-shaped both side plastic gasket, steel hook locks and screws all accessories as per drawing all complete. (frame 60*60mm, sash 60*78mm, white colour with 5mm glass)	sqm	45.23	85.13	130.35			
8	3 x 20mm Metal Grill including manufacturing, fitting, painting with Aluminium paint, sand papering all complete	kg	741.81	1,171.07	1,912.89			
9	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	35.75	312.70	348.44			
10	Provide and laying 3 mm cement punning including cleaning, watering, curing the laid surface all complete as per instruction & specification.	sqm	214.90	491.85	706.74			
11	Providing Glazed Ceramic Tile of approved size and colour with 1:4 cement sand mortar.	sqm	44.59	73.48	118.06			
12	Laying of 16mm thick marble over 20mm thick 1:2 cement mortar with rubbing & polish as per specifications all complete.	sqm	3.80	6.43	10.23			
13	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	34.06	59.17	93.23			
14	Providing and laying non slippery tile of size 2'x2' in terraces and similar locations all complete as per drawing, specification and instruction. (vitrified)	sqm	-	49.86	49.86			

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1	2	3	4		5 = Σ4	6		7 = Σ(π(4 x 6))
			A	B		A	B	
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	54.89	288.44	343.34			
16	Providing, laying & curing cement sand (1:4) Plastering on internal walls to perfect plumb, lines & level including raking the mortar joints and wetting the masonry surface all complete as per design drawings, specifications and instruction of the site engineer all complete:	sqm	906.08	1,278.25	2,184.33			
17	Providing, laying & curing cement sand (1:4) Plastering on external walls to perfect plumb, lines & level including raking the mortar joints and wetting the masonry surface all complete as per design drawings, specifications and instruction of the site engineer all complete:	sqm	412.22	628.15	1,040.37			
18	Providing and application of two coats of water-proofing coating (TAPELASTIC) on the RCC Terrace, share wall, Slope Roof, Sun-shade Slab etc. with ordinary hand brush including cleaning of the surface all complete	sqm	342.54	679.71	1,022.25			
A.4.6	Miscellaneous Works				-			
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			
2	Providing and fixing of rolling shutters as per specifications all complete.	sqm	9.30	16.73	26.03			
3	Fire Extinguisher (6Kg NS or IS standard) with range of jet 6 m	no	3.00	4.00	7.00			
4	Euroguard 7 Liters/min (max) wall mounted with water flow rate 0.25 L/min and purification capacity upto 15L/hr	no	2.00	3.00	5.00			
5	Antitermite treatment in foundation as per specifications all complete	sqm	194.40	269.25	463.65			
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	2.00			

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			A	B		A	B	
A.	SUBSTATION							
A.5	Roads and Drainage				-			
A.5.1	Internal Roads				-			
1	Earth work in cutting & Filling and in filling with borrowed earth including site clearing and levelling	sq.m	1,225.00	1,225.00	2,450.00			
2	Rolling and compaction of earth as per specification all complete.	sq.m	1,225.00	1,225.00	2,450.00			
3	Providing and laying of hand pack stone soling with 250mm thick stones and packing with smaller stones on prepared surface as per drawing and technical specifications	sq.m	306.25	306.25	612.50			
4	Supplying mixing, placing, compacting plain cement concrete of M25 including admixture excluding the cost of reinforcement bars & formwork as per drawing, specification and instruction all complete.	cu.m	245.00	245.00	490.00			
5	Centering and Shuttering of Plywood / Steel form work in slabs, walls, columns, lintel and beams including bracing and removal of formwork all complete as per drawing, specification & instruction.	sq.m	140.00	140.00	280.00			
6	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 and cut pieces, provision for adequate numbers of spacers, chairs, providing and placing cement mortar (1:1) cover blocks to keep the bars in intended position at all levels all complete as per drawings, specifications and instruction of the the engineer. (Authorised lap length and for the bar length exceeding 10 meter in length shall be measured for the payment).	ton	1.92	1.92	3.85			
A.5.2	Drainage				-			
1	Earth work in cutting & Filling and in filling with borrowed earth including site clearing and levelling	sq.m	500.00	500.00	1,000.00			
2	150mm thick stone soling and finishing to approved level, line and dimensions as per instruction & specification complete work	cu.m	67.50	67.50	135.00			
3	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 drawing, specification & instruction all complete.	cu.m	45.00	45.00	90.00			
4	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	138.00	138.00	276.00			
5	Providing and laying of 600mm dia hume pipe for drainage at road crossings as per specification and requirement at site, NP4	rm	40.00	40.00	80.00			
6	Providing and laying of 600mm dia hume pipe for drainage at road crossings as per specification and requirement at site, NP3	rm	20.00	20.00	40.00			
7	Supplying and Erecting Dewatering Pumps - 0.5 HP or of required capacity	nos.	1.00	1.00	2.00			

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			A	B		A	B	
B.	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 mechanical 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	-	-	-			
2	Providing and laying of plain cement concrete (PCC Work) M10 (manual mixed) in foundation complete as per drawing and technical specifications.	cu.m	-	-	-			
3	Providing and laying of reinforced cement concrete (RCC Work) M15 (manual mixed) in foundation complete as per drawing and technical specifications.	cu.m	-	-	-			
4	Providing and laying MS Reinforcement including cutting, bending, binding, fixing in position etc. all complete as per specification and drawing.	ton	-	-	-			
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	-	-	-			
6	Back filling in layers in foundationpits, trenches , etc, includingcompaction all complete with watering	cu.m	-	-	-			
					-			
B.1.2	Grounding System				-			
1	Providing and laying of plain/reinforced cement concrete M15 (manual mixed) in for Switchyard Lightning Protection System, Earthing arrangement as essential in the substation all complete, wherever required.	cu.m	-	-	-			
					-			
B.1.3	Illumination System				-			
1	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	-	-	-			
					-			
B.1.4	Miscellaneous				-			
1	Surface dressing with Crushed Stone including antiweed treatment as per TS & approved design all complete	cu.m	-	-	-			
					-			

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1	2	3	4		5 = Σ4	6		7 = Σ(π(4 x 6))
			A	B		A	B	
B.	33 kV FEEDER / TAP OFF STRUCTURE							
B.2	Installation Testing and Commissioning Works of Electrical Components of Substation				-			
B.2.1	Interconnection System				-			
1	36 kV, 630 A, 25 kA Outdoor Type, Vacuum Circuit Breaker with Accessories all Complete	set	-	-	-			
2	36 kV, 630 A, 25 kA, isolator with earth switch including accessories all complete	set	-	-	-			
3	36 kV, 400 A/300 A Load Break Switch with accessories all complete	set	-	-	-			
4	Three Core Current Transformer for 33 kV with accessories all complete as specified	set	1.00	1.00	2.00			
5	Two Core Potential Transformer for 33 kV including fuse with accessories all complete as specified	set	1.00	1.00	2.00			
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 accessories required for the tapping and bay extension work	set	1.00	1.00	2.00			
8	Marshalling Kiosk Box with Accessories all Complete for placement at tapping point	set	-	-	-			
B.2.2	Structures, insulators and busbars - For Bay				-			
1	Gantry Column, Girder structures for 33/11 kV substation, all complete as per specifications for each sub-project	lot	-	-	-			
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 _____

Signature of Tenderer _____



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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 Currency		Total Price
			Badki Badki	Bhigma Bajedichaur (Nagma)		Badki Badki	Bhigma Bajedichaur (Nagma)	
1	2	3	4		5 = Σ4	6		7 = Σ(π(4 x 6))
			A	B		A	B	
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	1.09	8.44	9.53			
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	0.18	1.41	1.59			
C.1.2	Poles and accessories							
1	Hardware and transportation of 11 m long Steel tubular pole including erection - excavation of footing, making pole vent, placing in footing, backfilling, concreting all complete	Nos.	-	-	-			
2	Hardware and transportation of 13 m long Steel tubular pole including erection - excavation of footing, making pole vent, placing in footing, backfilling, concreting all complete	Nos.	9.00	37.00	46.00			
3	Stay sets, with stay wire, rod, ties & insulator all complete including transportation to site.	set	6.00	22.00	28.00			
4	Providing and laying of plain cement concrete (PCC) M15 (manual mixed) in foundation complete as per drawing and technical specifications for 11 m and 13 m STP.	cum	5.08	1.07	6.15			
C.1.3	Special Components							
1	Hardware and transportation of 14.5 m long Steel tubular pole including erection - excavation of footing, making pole vent, placing in footing, backfilling, concreting all complete	set	1.00	1.00	2.00			
2	Providing and laying of plain cement concrete (PCC) M15 (manual mixed) in foundation complete as per drawing and technical specifications for 14.5 m STP.	cum	1.31	1.31	2.62			
3	Work related with Steel Lattice Towers required concrete foundation, stub setting and erection all complete including excavation (approx. 42 cu. m, PCC M10 Concrete (approx. 1.16 cu. M, M20 Concrete (approx. 5 cu. M), Rebar (approx. 0.35 ton) and Cement (approx. 175 bags)	nos.	-	-	-			
4	Bird Guard in Poles as per project requirement (1 set consists of complete set required for a pole)	set	5.00	15.00	20.00			
C.1.4	Dismantling Works							
1	Dismantling and Transportation to specified location (preferably NEA store nearby/substation compound) of 9 m, 10 m, 11 m pole including conductor (approx 50 m distance between poles) as essential in the site	nos.	1.00	1.00	2.00			
2	Dismantling and Transportation to specified location (preferably NEA store nearby/substation compound) of ACSR Conductors as essential in the site	kms	0.15	0.15	0.30			
3	Reconductoring of 33 kV or 11 kV lines for certain sections as double or single circuit	kms	0.15	0.15	0.30			

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Item	Description	Unit	Quantity		Total Quantity	Unit Price, Local Currency		Total Price
			Badki Badki	Bhigma Bajedichaur (Nagma)		Badki Badki	Bhigma Bajedichaur (Nagma)	
			A	B		A	B	
1	2	3	4		5 = Σ4	6		7 = Σ(π(4 x 6))
D.	Under Ground Cable							
1	33kV Underground Power Cable and ADSS Cable Laying works (2 phases of Conductors and ADSS cables in sepearate Flexible Pipe/HDPE Pipe/Conduits) including transportation to site and Restoration of road to original with required drainage, pavement, black-topping, subbase and base as per TS of Department of Roads and/or respective Municipality	kms	-	-	-			
2	Installation of Cable Straight through Joints with accessories all complete including transportation to site	Set	-	-	-			
3	Installation of 33 kV outdoor XLPE Cable Termination kit with accessories all complete including transportation to site	Set	-	-	-			
4	Installation of 30 kV LA (3Nos), Power Fuse (3Nos) including accessories all complete including transportation to site	Set	-	-	-			
5	Supply & Installation of Danger Sheets and Route Markers Complete including transportation to site	kms	-	-	-			
6	Earthing works including Supply of Earthing Materials required in U/G Cable Terminations, Straight Through Joints, LA etc to complete the specified scope of works including transportation to site	Lot	-	-	-			
7	Construction of Cable Joining Station/Pits	Set	-	-	-			

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 Schedule of Rates and Prices

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

Item	Description	Unit	Total Price	
			Foreign Currency	Local Currency
1	2	3	4	5
E.	Environmental Mitigation Works			
E.1	Environmental and Social Monitoring Works			
1	Environmental and Social Monitoring Cost Estimates as per the ESMP Reports and as assigned by Client.	lot		

Name of Tenderer _____

Signature of Tenderer _____



Procurement of Plant

