

**NEPAL ELECTRICITY AUTHORITY**  
(An Undertaking of Government of Nepal)  
**PROJECT MANAGEMENT DIRECTORATE**



**Distribution System Augmentation and Expansion Project**

**BIDDING DOCUMENT  
FOR**

**Rural Electrification and Distribution Network Improvement of  
Tanahu District  
(Design, Supply and Install)**

**Single-Stage, Two-Envelope  
Bidding Procedure**

**Issued on:** .....  
**Invitation for Bids No.:** ICB-PMD-DSAEP-074/75-01-Tanahu  
**ICB No.:** ICB-PMD-DSAEP-074/75-01-Tanahu  
**Employer:** Nepal Electricity Authority  
**Country:** Nepal

**VOLUME III OF III**

**JULY 2018**

**Distribution System Augmentation and Expansion Project**  
Project Management Directorate  
Nepal Electricity Authority  
Chandragiri Municipality Ward No. – 7  
Matatirha, Kathmandu  
Phone No: +977 1 5164122

**NEPAL ELECTRICITY AUTHORITY**  
**Project Management Directorate**  
**Distribution System Augmentation and Expansion Project**

Rural Electrification and Distribution Network Improvement of Tanahu District  
 Bid No: ICB-PMD-DSAEP-074/75-01-Tanahu

**Schedule of Rates and Prices**

FC-Foreign Currency

LC-Local Currency

**Schedule 5 : Grand Summary**

S.N.	Schedule No.	Description	Total Price	
			FC	LC
1	Schedule No. 1	Plant and Mandatory Spare Parts Supplied from Abroad	-	-
2	Schedule No. 2	Plant and Mandatory Spare Parts Supplied from Employer's Country	-	-
3	Schedule No. 3	Design Services	-	-
4	Schedule No. 4	Installation and Other Services	-	-
		<b>Grand Total</b>	-	-

Name of Bidder:



Signature and Seal of Bidder:

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S.N.	Description of Material	Estimated		Country of Origin	CIP Project Site (Excluding Taxes and Duties applicable in Nepal)			Taxes and Duties
		Unit	Quantity		FC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
<b>A</b>	<b>SUB-STATION</b>							
<b>A1</b>	<b>SUB-STATION (Plant and Equipment for Substation)</b>							
1	33/11kV, 3ph, 6/8 MVA Power Transformer with all accessories complete.	Set	2				-	
2	33/0.4kV, 3ph, 100kVA, Station Transformer with all accessories complete	Set	2				-	
3	33kV, 800A Vacuum Circuit Breaker with Accessories Complete	Set	6				-	
4	33kV, 800A Disconnecting Switch with Earth with Accessories Complete	Set	4				-	
5	33kV, 800A Disconnecting Switch without Earth with Accessories Complete	Set	6				-	
6	30kV,10kA Lightning Arrestor with Accessories Complete (Set of 3 Nos.)	Set	6				-	
7	33kV Current Tranformer with Accessories Complete (Set of 3 Nos.)	Set	6				-	
8	33kV Potential Transformer with Accessories Complete (Set of 3 Nos.)	Set	2				-	
9	33kV Control and Relay Panel with Accessories Complete (for Line and Transformer)	Set	6				-	
10	33kV AVR and OLTC Panel with Accessories Complete	Set	2				-	
11	33kV Power Fuse (Drop Out Type) with Accessories Complete (Set of 3 Nos.)	Set	2				-	
12	33kV Post Insulator with Accessories Complete (Set of 3 Nos.)	Set	4				-	

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1	2	3	4	5	6	7	8=7*4	9
13	33kV Outdoor Busbar (ACSR Bear Conductor) with required insulators and accessories complete	Set	2				-	
14	250 Ah, 110V Maintenance Free Battery Including all accessories complete	Set	2				-	
15	110V Battery Charger with Accessories Complete	Set	2				-	
16	Marshalling Kisok Box with Accessories Complete	Set	2				-	
17	12kV Incomer VCB and CRP including CT & PT	Set	2				-	
18	12kV Outgoing VCB and CRP including CT	Set	8				-	
19	12kV Power Cable (Al conductor, XLPE insulated, 400 sq.mm., single core, armoured)	m	600				-	
20	Cable Termination Kit (Outdoor Type) (Set of 3 Nos.)	Set	2				-	
21	Cable Termination Kit (Indoor Type) (Set of 3 Nos.)	Set	2				-	
20	12kV Power Cable (Al conductor, XLPE insulated, 150 sq.mm., single core, armoured)	m	1600				-	
21	Cable Termination Kit (Outdoor Type) (Set of 3 Nos.)	Set	8				-	
22	Cable Termination Kit (Indoor Type) (Set of 3 Nos.)	Set	8				-	
23	Control Cables (600V, PVC Insulated, Cu Conductor, Armoured) with Accessories complete	Set	2				-	
24	AC 400V Distribution Board with Accessories Complete	Nos	2				-	
25	DC 110V Distribution Board with Accessories Complete	Nos	2				-	
26	Lightning Mast with EHS steel wire for lightning shield with Accessories Complete	Set	4				-	

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1	2	3	4	5	6	7	8=7*4	9
27	Gantry Structures with Accessories Complete	Ton	50				-	
28	11m Steel Tubular Pole with Channels, clamps, Nut Bolt and 12kV Power Fuse (Drop-Out Type) and 9kV, 10kA Surge Arrestor including Accessories Complete (Two nos of poles for each feeder)	Set	6				-	
29	1.5 Ton Split Air Conditioner with Accessories Complete	Set	8				-	
30	32" LED Wall mounted Color Television with accessories complete	Nos	2				-	
31	Switchyard and Internal Road Lighting on 9m Steel Tubular Pole with LED Street Light & PV sensor with Accessories Complete with separate AC DB.	Set	12				-	
<b>Sub-Total of A1</b>							-	
<b>A2</b>	<b>SUB-STATION (Spare Parts &amp; Maintenance Equipments/Instruments)</b>							
<b>1</b>	<b>For Transformers</b>							
1.1	33 kV Bushing with Current Transformers	Nos	2				-	
1.2	Dial type Thermometer	Nos	2				-	
<b>2</b>	<b>For 33 kV Circuit Breaker</b>						-	
2.1	Complete set of replacable vacuum chambers	Nos	2				-	
2.2	Bushing	Nos	2				-	
2.3	Tripping, closing and auxilliary coils	Set	2				-	
<b>3</b>	<b>For 33 kV Disconnecting Switch</b>						-	

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1	2	3	4	5	6	7	8=7*4	9
3.1	Porcelain insulator	Nos	2				-	
3.2	Main contact assemblies including grounding blades	Set	2				-	
3.3	Auxilliary contacts	Set	2				-	
<b>4</b>	<b>For 33 kV Control &amp; Relay panel</b>							
4.1	Indicating Lamps	Nos	24				-	
4.2	Fuse	Nos	24				-	
4.3	Colour cap for each colour for indicating lamp	Nos	48				-	
4.4	Over current/Earth fault relay	Nos	2				-	
4.5	Circuit Open Close Selector Switch	Set	4				-	
<b>5</b>	<b>For 12 kV Circuit Breakers</b>							
5.1	Complete set of replacable vacuum chambers	Nos	4				-	
5.2	Tripping, closing and auxilliary coils	Set	4				-	
5.3	Indicating Lamps	Nos	48				-	
5.4	Fuse for each type	Nos	48				-	
5.5	Colour cap for each colour for indicating lamp	Nos	96				-	
5.6	Over current/Earth fault relay	Nos	2				-	
5.7	Current Transformer (For incoming Panel)	Nos	2				-	
5.8	Current Transformer (For outgoing Panel)	Nos	4				-	
5.9	11 kV Potential Transformer	Set	2				-	
<b>6</b>	<b>Maintenance Equipments/Instruments</b>							
6.1	Digital Multimeter (AC and DC)	Nos	2				-	

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1	2	3	4	5	6	7	8=7*4	9
6.2	2500 V Battery operated Digital Type Meggar	Nos	2				-	
6.3	CO2 Type Fire Extinguisher (Capacity 4.5kg)	Nos	4				-	
6.4	CO2 Type Fire Extinguisher Trolley Mounted (Capacity 22.5kg)	Nos	4				-	
	<b>Subtotal of A2</b>						-	
	<b>Subtotal of A (Substation)</b>						-	
<b>B</b>	<b>33kV Sub-Tranmission Line</b>							
<b>B1</b>	<b>33kV Line (Underground Cables)</b>							
1	33kV Power Cable (Al conductor, XLPE insulated, 300 sq.mm., single core, armoured)	km	1.5				-	
2	36kV Straight Through Joints (single core-3Nos per set) including all accessories complete	Set	1				-	
3	33kV Cable Termination Kit Outdoor Type (single core-3Nos per set) including all accessories complete	Set	2				-	
4	Flexible Pipe (105mm OD) for laying Single Core XLPE Cable including all accessories complete	km	1.5				-	
5	Sheath Voltage Limitor including all accessories complete (3 Nos. per set)	Set	1				-	
6	33kV Power Fuse (Drop Out Type) including all accessories complete	Set	1				-	
7	30 kV, 10 kA Pole Mounted Lightning Arrester including all accessories complete (3 Nos. per set)	Set	1				-	

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		Unit	Quantity		FC			LC
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1	2	3	4	5	6	7	8=7*4	9
	<b>Subtotal of B1</b>						-	
<b>B2</b>	<b>33kV Line (Steel Telescopic/Octagonal Pole)</b>							
1	11m Steel Telescopic/Octagonal Pole (fully galvanized)	Nos	922				-	
2	ACSR Dog Conductor	km	123.6				-	
3	33kV Pin Insulator with Spindle & Nuts Bolts, washer including all accessories complete.	Set	2615				-	
4	11kV Disc Insulator	Nos	1432				-	
5	Tension Set with Ball and Socket Eye	Nos	250				-	
6	Backstrap for Insulator String including (50*6*404mm) Nut-Bolt	Nos	500				-	
7	Mid-Span Joining Sleeve (For ACSR Dog Conductor & Steel and rated min. 400A)	Nos	125				-	
8	PG Clamps (for DOG to DOG conductor & rated min. 400A)	Nos	426				-	
9	Steel Top Cross Arm Channel (ISMC100x300mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	770				-	
10	Steel Cross Arm (ISMC100x1900mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	770				-	
11	Steel Cross Bracing Plate (Flat 40x6x760mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	770				-	
12	Steel Cross Arm (ISMC100x3300mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	81				-	

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					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
13	Steel Cross Bracing Angle (ISA50x50x6x2872mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	81				-	
14	Steel Cross Bracing Angle (ISA50x50x6x2416 & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	81				-	
15	Steel Lattice Towers (Type of Tower as per site Condition)	Ton	30				-	
16	Stay Set Complete (Stay Rod-19mm, Stay Plate-600x600x6mm, Eye Bolt-16mm, Turn Buckle-19mm)	Set	461				-	
17	Stay Insulator	Nos	461				-	
18	Stay Wire (7/8 SWG)	Kg	3983				-	
19	33 kV Air Break Switch (Pole mounted) including all accessories complete	Set	5				-	
	<b>Subtotal of B2</b>						-	
	<b>Subtotal of B (33kV Line)</b>						-	
<b>C</b>	<b>11kV Distribution Line</b>							
<b>C1</b>	<b>11kV Line (Underground Cables)</b>							
1	11kV Power Cable (Al conductor, XLPE insulated, 300 sq.mm., single core, armoured)	km	6				-	
2	12kV, 630A Straight Through Joints outdoor type (single core-3Nos per set) including all accessories complete	Set	3				-	

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					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
3	11 kV Cable termination kit outdoor type (single core-3Nos per set) including all accessories complete	Set	4				-	
4	Flexible Pipe/Conduit (105 mm OD) for single core XLPE cable including all complete accessories	km	6				-	
5	9 kV Lightning Arrestor including all accessories complete (3 Nos. per set)	Set	2				-	
6	11 kV Power Fuse (Drop Out Type) including all accessories complete	Set	2				-	
	<b>Subtotal of C1</b>						-	
<b>C2</b>	<b>11kV Line (Tubular Poles, Covered Conductor &amp; Accessories)</b>							
1	11m Steel Tubular Pole (fully galvanized)	Nos	280				-	
2	Covered Conductor (XLPE insulated, 120 sq.mm. AAC)	km	15.45				-	
3	Covered Conductor (XLPE insulated, 80 sq.mm. AAC)	km	15.45				-	
4	Pin Insulator for Covered Conductor with pulling sleeve/ties and all accessories complete	Set	690				-	
4	Tension Insulator for Covered Conductor with tension clamp and all accessories complete	Set	180				-	
5	Power Arc Devices (3 Nos. per set)	Set	10				-	
6	Termination Kits (3 Nos. per set)	Set	10				-	
7	Tension Joining Kits (3 Nos. per set)	Set	25				-	
8	Insulating Piercing Connectors	Nos	25				-	

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					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
9	Horizontal Cross-Arm (ISMC100 & Fully galvanized) for Covered Conductor with all accessories complete	Set	220				-	
10	Terminal Cross-Arm (ISMC100 & Fully galvanized) for Covered Conductor with all accessories complete	Set	60				-	
11	Steel Cross Bracing Angle (ISA 50x50x50x6 mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	60				-	
12	Steel Cross Bracing Angle (ISA 50x50x6 mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	60				-	
13	Stay Set Complete (Stay Rod-16mm, Stay Plate-300x300x6mm, Eye Bolt-16mm, Turn Buckle-16mm)	Set	140				-	
14	Stay Insulator	Nos	140				-	
15	Stay Wire 7/12 SWG	kg	504				-	
	<b>Subtotal of C2</b>						-	
<b>C3</b>	<b>11kV Line (Tubular Poles, ACSR Conductor &amp; Accessories)</b>							
1	11m Steel Tubular Pole (fully galvanized)	Nos	3147				-	
2	ACSR Dog Conductor	km	186.00				-	
3	ACSR Rabbit Conductor	km	309.00				-	
4	11 kV Pin Insulator with Spindle & Nuts Bolts, washer all complete.	Set	9069				-	
5	11kV Disc Insulator	Nos	1574				-	
6	Tension Set with Ball and Socket Eye	Nos	1574				-	

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1	2	3	4	5	6	7	8=7*4	9
7	Backstrap for Insulator String including(50*6*404mm) Nut-Bolt	Nos	1574				-	
8	Mid-Span Joining Sleeve (For ACSR Dog Conductor & Steel and rated min. 400A)	Nos	186				-	
9	Mid-Span Joining Sleeve (For ACSR Rabbit Conductor & Steel and rated min. 200A)	Nos	309				-	
10	PG Clamps (for DOG to DOG conductor & rated min. 400A)	Nos	372				-	
11	PG Clamps (for RABBIT to RABBIT conductor & rated min. 200A)	Nos	912				-	
12	Steel Top Cross Arm Channel (ISMC100x300mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	2619				-	
13	Steel Cross Arm (ISMC100x1200mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	2619				-	
14	Steel Cross Bracing Plate (Flat 40x6x660mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	2619				-	
15	Steel Cross Arm (ISMC100x2390mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	528				-	
16	Steel Cross Bracing Angle (ISA 50x50x50x6x2723mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	528				-	
17	Steel Cross Bracing Angle (ISA50x50x6x2071mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	528				-	
18	Offset Steel Cross arm (ISMC100x1700mm & fully galvanized) and bracing Flat (40x6x877mm & fully galvanized) with fully galvanized suitable Pole Clamps and nut bolt	Set	45				-	

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1	2	3	4	5	6	7	8=7*4	9
19	Stay Set Complete (Stay Rod-16mm, Stay Plate-300x300x6mm, Eye Bolt-16mm, Turn Buckle-16mm)	Set	1500				-	
20	Stay Insulator	Nos	1500				-	
21	Stay Wire (7/12 SWG)	Kg	5400				-	
22	11 kV Air Break Switch (Pole mounted) including all accessories complete	Set	5				-	
	<b>Subtotal of C3</b>						-	
<b>C4</b>	<b>11kV Line (Tubular Poles, ACSR Conductor &amp; Accessories - Composite Line)</b>							
1	11m Steel Tubular Pole (fully galvanized)	Nos	1262				-	
2	ACSR Dog Conductor	km	93.00				-	
3	ACSR Rabbit Conductor	km	63.00				-	
4	11 kV Pin Insulator with Spindle & Nuts Bolts, washer all complete.	Set	3474				-	
5	11kV Disc Insulator	Nos	342				-	
6	Tension Set with Ball and Socket Eye	Nos	342				-	
7	Backstrap for Insulator String including(50*6*404mm) Nut-Bolt	Nos	664				-	
8	Mid-Span Joining Sleeve (For ACSR Dog Conductor & Steel and rated min. 400A)	Nos	93				-	
9	Mid-Span Joining Sleeve (For ACSR Rabbit Conductor & Steel and rated min. 200A)	Nos	93				-	
10	PG Clamps (for DOG to DOG conductor & rated min. 400A)	Nos	192				-	

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1	2	3	4	5	6	7	8=7*4	9
11	PG Clamps (for RABBIT to RABBIT conductor & rated min. 200A)	Nos	120				-	
12	Steel Top Cross Arm Channel (ISMC100x300mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	1054				-	
13	Steel Cross Arm (ISMC100x1200mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	1054				-	
14	Steel Cross Bracing Plate (Flat 40x6x660mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	1054				-	
15	Steel Cross Arm (ISMC100x2390mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	104				-	
16	Steel Cross Bracing Angle (ISA50x50x50x6x2723mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	104				-	
17	Steel Cross Bracing Angle (ISA50x50x6x2071mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	104				-	
18	Offset Steel Cross arm (ISMC100x1700mm & fully galvanized), bracing Flat (Flat 40x6x877mm & fully galvanized) with fully galvanized suitable Pole Clamp and nut bolt	Set	50				-	
19	Stay Set Complete (Stay Rod-16mm, Stay Plate-300x300x6mm, Eye Bolt-16mm, Turn Buckle-16mm)	Set	631				-	
20	Stay Insulator	Nos	631				-	
21	Stay Wire (7/12 SWG)	Kg	2272				-	
22	11 kV Air Break Switch (Pole mounted) including all accessories complete	Set	5				-	
<b>Subtotal of C4</b>							-	

Name of Bidder:



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**Schedule of Rates and Prices**

FC-Foreign Currency

LC-Local Currency

**Schedule 1: Plant and Equipment including Mandatory Spare Parts Supplied from Abroad**

S.N.	Description of Material	Estimated		Country of Origin	CIP Project Site (Excluding Taxes and Duties applicable in Nepal)			Taxes and Duties
		Unit	Quantity		FC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
	<b>Subtotal of C (11kV Line)</b>						-	
<b>D</b>	<b>400V Distribution Line</b>							
<b>D1</b>	<b>400V Line (Four Wire - Tubular Poles, ACSR Conductor &amp; Accessories)</b>							
1	9m Steel Tubular Pole (fully galvanized)	Nos	325				-	
2	ACSR Dog Conductor	km	20.6				-	
3	ACSR Rabbit Conductor	km	247.2				-	
4	Sackle Insulator & D-Iron all set complete	Set	1300				-	
5	Mid-Span Joining Sleeve (For ACSR Dog Conductor & Steel and rated min. 400A)	Nos	40				-	
6	Mid-Span Joining Sleeve (For ACSR Rabbit Conductor & Steel and rated min. 200A)	Nos	200				-	
7	PG Clamps (for DOG to DOG conductor & rated min. 400A)	Nos	120				-	
8	PG Clamps (for RABBIT to RABBIT conductor & rated min. 200A)	Nos	744				-	
9	Stay Set Complete (Stay Rod-16mm, Stay Plate-300x300x6mm, Eye Bolt-16mm, Turn Buckle-16mm)	Set	162				-	
10	Stay Insulator	Nos	162				-	
11	Stay Wire (7/12 SWG)	Kg	443				-	
	<b>Subtotal of D1</b>						-	

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		Unit	Quantity		FC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
<b>D2</b>	<b>400V Line (Composite AB Cable 3x95+70 sq.mm &amp; Accessories)</b>							
1	AB Cable 3x95+70 sq.mm.	km	20				-	
2	Suspension Set	Nos	425				-	
3	Tension Set	Nos	175				-	
4	Cable Connector	Nos	2000				-	
	<b>Subtotal of D2</b>						-	
<b>D3</b>	<b>400V Line (Composite AB Cable 4x70 sq.mm &amp; Accessories)</b>							
1	AB Cable 4x70 sq.mm.	km	30				-	
2	Suspension Set	Nos	425				-	
3	Tension Set	Nos	175				-	
4	Cable Connector	Nos	2000				-	
	<b>Subtotal of D3</b>						-	
<b>D4</b>	<b>400V Line (Tubular Poles, AB Cable 4x70 sq.mm. &amp; Accessories)</b>							
1	9m Steel Tubular Pole (fully galvanized)	Nos	600				-	
2	AB Cable 4x70 sq.mm.	km	30				-	
3	Suspension Set	Nos	425				-	
4	Tension Set	Nos	175				-	
5	Cable Connector	Nos	2000				-	

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		Unit	Quantity		FC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
6	Stay Set Complete (Stay Rod-16mm, Stay Plate-300x300x6mm, Eye Bolt-16mm, Turn Buckle-16mm)	Set	175				-	
7	Stay Insulator	Nos	175				-	
8	Stay Wire (7/12 SWG)	Kg	473				-	
	<b>Subtotal of D4</b>						-	
<b>D5</b>	<b>400V Line (Tubular Poles, AB Cable 4x50 sq.mm. &amp; Accessories)</b>							
1	9m Steel Tubular Pole (fully galvanized)	Nos	2400				-	
2	AB Cable 4x50 sq.mm.	km	120				-	
3	Suspension Set	Nos	2000				-	
4	Tension Set	Nos	400				-	
5	Cable Connector	Nos	8000				-	
6	Stay Set Complete (Stay Rod-16mm, Stay Plate-300x300x6mm, Eye Bolt-16mm, Turn Buckle-16mm)	Set	800				-	
7	Stay Insulator	Nos	800				-	
8	Stay Wire (7/12 SWG)	Kg	2160				-	
	<b>Subtotal of D5</b>						-	
<b>D6</b>	<b>400V Line (Tubular Poles, AB Cable 4x25 sq.mm. &amp; Accessories)</b>							
1	9m Steel Tubular Pole (fully galvanized)	Nos	1600				-	
2	AB Cable 4x25 sq.mm.	km	80				-	

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		Unit	Quantity		FC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
3	Suspension Set	Nos	1250				-	
4	Tension Set	Nos	350				-	
5	Cable Connector	Nos	5400				-	
6	Stay Set Complete (Stay Rod-16mm, Stay Plate-300x300x6mm, Eye Bolt-16mm, Turn Buckle-16mm)	Set	625				-	
7	Stay Insulator	Nos	625				-	
8	Stay Wire (7/12 SWG)	Kg	1688				-	
	<b>Subtotal of D6</b>						-	
<b>D7</b>	<b>400V Line (Two Wire - Tubular Poles, ACSR Conductor &amp; Accessories)</b>							
1	9m Steel Tubular Pole (fully galvanized)	Nos	500				-	
2	ACSR Rabbit Conductor	km	41.2				-	
3	Sackle Insulator & D-Iron all set complete	Set	1000				-	
4	Mid-Span Joining Sleeve (For ACSR Rabbit Conductor & Steel and rated min. 200A)	Nos	80				-	
5	PG Clamps (for RABBIT to RABBIT conductor & rated min. 200A)	Nos	160				-	
6	Stay Set Complete (Stay Rod-16mm, Stay Plate-300x300x6mm, Eye Bolt-16mm, Turn Buckle-16mm)	Set	125				-	
7	Stay Insulator	Nos	125				-	
8	Stay Wire (7/12 SWG)	Kg	338				-	

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		Unit	Quantity		FC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
	<b>Subtotal of D7</b>						-	
	<b>Subtotal of D (400V Line)</b>						-	
<b>E</b>	<b>11/0.4kV Distribution Transformer</b>							
<b>E1</b>	<b>11/0.4kV Distribution Transformer 200kVA</b>							
1	11/0.4kV 200kVA 3 Ph. Distribution Transformer	Nos	5				-	
2	Transformer Platform for 200kVA Transformer including DO & LA Fitting Channels, Clamps, Nutbolts all complete	Set	5				-	
3	Surge Arrestor 9kV (3 Nos. per set)	Set	5				-	
4	Drop Out Fuse (3 Nos. per set)	Set	5				-	
5	Earthing Set	Set	5				-	
6	AB Cable 3x95+70 sq.mm.	m	80				-	
7	Outdoor Pole Mounted Distribution Panel Board (with 300A TP MCCB-1Nos, 150A TP MCCB-2Nos with Copper Busbars and Hardware) Complete Set	Set	5				-	
	<b>Subtotal of E1</b>						-	
<b>E2</b>	<b>11/0.4kV Distribution Transformer 100kVA</b>							
1	11/0.4kV 100kVA 3 Ph. Distribution Transformer	Nos	10				-	

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		Unit	Quantity		FC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
2	Transformer Platform for 100kVA Transformer including DO & LA Fitting Channels, Clamps,Nutbolts all complete	Set	10				-	
3	Surge Arrestor 9kV (3 Nos. per set)	Set	10				-	
4	Drop Out Fuse (3 Nos. per set)	Set	10				-	
5	Earthing Set	Set	10				-	
6	AB Cable 3x95+70 sq.mm.	m	80				-	
7	Outdoor Pole Mounted Distribution Panel Board (with 150A TP MCCB-1Nos, 75A TP MCCB-2Nos with Copper Busbars and Hardware) Complete Set	Set	10				-	
<b>Subtotal of E2</b>							-	
<b>E3</b>	<b>11/0.4kV Distribution Transformer 50kVA</b>							
1	11/0.4kV 50kVA 3 Ph. Distribution Transformer	Nos	35				-	
2	Transformer Platform for 50kVA Transformer including DO & LA Fitting Channels, Clamps,Nutbolts all complete	Set	35				-	
3	Surge Arrestor 9kV (3 Nos. per set)	Set	35				-	
4	Drop Out Fuse (3 Nos. per set)	Set	35				-	
5	Earthing Set	Set	35				-	
6	AB Cable 4x70 sq.mm.	m	280				-	
7	Outdoor Pole Mounted Distribution Panel Board (with 75A TP MCCB-1Nos, 35A TP MCCB-2Nos with Copper Busbars and Hardware) Complete Set	Set	35				-	

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		Unit	Quantity		FC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
	<b>Subtotal of E3</b>						-	
<b>E4</b>	<b>11/0.4kV Distribution Transformer 25kVA</b>							
1	11/0.4kV 25kVA 3 Ph. Distribution Transformer	Nos	20				-	
2	Transformer Platform for 25kVA Transformer including DO & LA Fitting Channels, Clamps, Nutbolts all complete	Set	20				-	
3	Surge Arrestor 9kV (3 Nos. per set)	Set	20				-	
4	Drop Out Fuse (3 Nos. per set)	Set	20				-	
5	Earthing Set	Set	20				-	
6	AB Cable 4x50 sq.mm.	m	160				-	
7	Outdoor Pole Mounted Distribution Panel Board (with 35A TP MCCB-1Nos, 16A TP MCCB-2Nos with Copper Busbars and Hardware) Complete Set	Set	20				-	
	<b>Subtotal of E4</b>						-	
	<b>Subtotal of E (Distribution Transformer)</b>						-	
	<b>Total of Schedule 1 to be carried forward to Schedule No. 5 Grand Summary</b>						-	

Note: The Specifications of items shall be as mentioned in VOL II of Bid Documents. The GTP and GA of the supplied items shall be priorly accepted and approved by the Employer before putting order to the manufacturer/seller.

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**Schedule of Rates and Prices**

**Schedule 2: Plant and Equipment including Mandatory Spare Parts Supplied from Abroad**

LC-Local Currency

S.N.	Description of Material	Estimated		Country of Origin	EXW (Excluding Taxes and Duties applicable in Nepal)			Taxes and Duties
		Unit	Quantity		LC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
<b>A</b>	<b>SUB-STATION</b>							
<b>A1</b>	<b>SUB-STATION (Plant and Equipment for Substation)</b>							
1	33/11kV, 3ph, 6/8 MVA Power Transformer with all accessories complete.	Set	2				-	
2	33/0.4kV, 3ph, 100kVA, Station Transformer with all accessories complete	Set	2				-	
3	33kV, 800A Vacuum Circuit Breaker with Accessories Complete	Set	6				-	
4	33kV, 800A Disconnecting Switch with Earth with Accessories Complete	Set	4				-	
5	33kV, 800A Disconnecting Switch without Earth with Accessories Complete	Set	6				-	
6	30kV,10kA Lightning Arrestor with Accessories Complete (Set of 3 Nos.)	Set	6				-	
7	33kV Current Tranformer with Accessories Complete (Set of 3 Nos.)	Set	6				-	
8	33kV Potential Transformer with Accessories Complete (Set of 3 Nos.)	Set	2				-	
9	33kV Control and Relay Panel with Accessories Complete (for Line and Transformer)	Set	6				-	
10	33kV AVR and OLTC Panel with Accessories Complete	Set	2				-	
11	33kV Power Fuse (Drop Out Type) with Accessories Complete (Set of 3 Nos.)	Set	2				-	
12	33kV Post Insulator with Accessories Complete (Set of 3 Nos.)	Set	4				-	

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**Schedule 2: Plant and Equipment including Mandatory Spare Parts Supplied from Abroad**

LC-Local Currency

S.N.	Description of Material	Estimated		Country of Origin	EXW (Excluding Taxes and Duties applicable in Nepal)			Taxes and Duties
		Unit	Quantity		LC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
13	33kV Outdoor Busbar (ACSR Bear Conductor) with required insulators and accessories complete	Set	2				-	
14	250 Ah, 110V Maintenance Free Battery Including all accessories complete	Set	2				-	
15	110V Battery Charger with Accessories Complete	Set	2				-	
16	Marshalling Kisok Box with Accessories Complete	Set	2				-	
17	12kV Incomer VCB and CRP including CT & PT	Set	2				-	
18	12kV Outgoing VCB and CRP including CT	Set	8				-	
19	12kV Power Cable (Al conductor, XLPE insulated, 400 sq.mm., single core, armoured)	m	600				-	
20	Cable Termination Kit (Outdoor Type) (Set of 3 Nos.)	Set	2				-	
21	Cable Termination Kit (Indoor Type) (Set of 3 Nos.)	Set	2				-	
20	12kV Power Cable (Al conductor, XLPE insulated, 150 sq.mm., single core, armoured)	m	1600				-	
21	Cable Termination Kit (Outdoor Type) (Set of 3 Nos.)	Set	8				-	
22	Cable Termination Kit (Indoor Type) (Set of 3 Nos.)	Set	8				-	
23	Control Cables (600V, PVC Insulated, Cu Conductor, Armoured) with Accessories complete	Set	2				-	
24	AC 400V Distribution Board with Accessories Complete	Nos	2				-	
25	DC 110V Distribution Board with Accessories Complete	Nos	2				-	
26	Lightning Mast with EHS steel wire for lightning shield with Accessories Complete	Set	4				-	

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		Unit	Quantity		LC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
27	Gantry Structures with Accessories Complete	Ton	50				-	
28	11m Steel Tubular Pole with Channels, clamps, Nut Bolt and 12kV Power Fuse (Drop-Out Type) and 9kV, 10kA Surge Arrestor including Accessories Complete (Two nos of poles for each feeder)	Set	6				-	
29	1.5 Ton Split Air Conditioner with Accessories Complete	Set	8				-	
30	32" LED Wall mounted Color Television with accessories complete	Nos	2				-	
31	Switchyard and Internal Road Lighting on 9m Steel Tubular Pole with LED Street Light & PV sensor with Accessories Complete with separate AC DB.	Set	12				-	
<b>Sub-Total of A1</b>							-	
<b>A2</b>	<b>SUB-STATION (Spare Parts &amp; Maintenance Equipments/Instruments)</b>							
<b>1</b>	<b>For Transformers</b>							
1.1	33 kV Bushing with Current Transformers	Nos	2				-	
1.2	Dial type Thermometer	Nos	2				-	
<b>2</b>	<b>For 33 kV Circuit Breaker</b>						-	
2.1	Complete set of replacable vacuum chambers	Nos	2				-	
2.2	Bushing	Nos	2				-	
2.3	Tripping, closing and auxilliary coils	Set	2				-	
<b>3</b>	<b>For 33 kV Disconnecting Switch</b>						-	

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**Schedule 2: Plant and Equipment including Mandatory Spare Parts Supplied from Abroad**

LC-Local Currency

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		Unit	Quantity		LC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
3.1	Porcelain insulator	Nos	2				-	
3.2	Main contact assemblies including grounding blades	Set	2				-	
3.3	Auxilliary contacts	Set	2				-	
<b>4</b>	<b>For 33 kV Control &amp; Relay panel</b>							
4.1	Indicating Lamps	Nos	24				-	
4.2	Fuse	Nos	24				-	
4.3	Colour cap for each colour for indicating lamp	Nos	48				-	
4.4	Over current/Earth fault relay	Nos	2				-	
4.5	Circuit Open Close Selector Switch	Set	4				-	
<b>5</b>	<b>For 12 kV Circuit Breakers</b>							
5.1	Complete set of replacable vacuum chambers	Nos	4				-	
5.2	Tripping, closing and auxilliary coils	Set	4				-	
5.3	Indicating Lamps	Nos	48				-	
5.4	Fuse for each type	Nos	48				-	
5.5	Colour cap for each colour for indicating lamp	Nos	96				-	
5.6	Over current/Earth fault relay	Nos	2				-	
5.7	Current Transformer (For incoming Panel)	Nos	2				-	
5.8	Current Transformer (For outgoing Panel)	Nos	4				-	
5.9	11 kV Potential Transformer	Set	2				-	
<b>6</b>	<b>Maintenance Equipments/Instruments</b>							
6.1	Digital Multimeter (AC and DC)	Nos	2				-	

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		Unit	Quantity		LC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
6.2	2500 V Battery operated Digital Type Meggar	Nos	2				-	
6.3	CO2 Type Fire Extinguisher (Capacity 4.5kg)	Nos	4				-	
6.4	CO2 Type Fire Extinguisher Trolley Mounted (Capacity 22.5kg)	Nos	4				-	
	<b>Subtotal of A2</b>						-	
	<b>Subtotal of A (Substation)</b>						-	
<b>B</b>	<b>33kV Sub-Tranmission Line</b>							
<b>B1</b>	<b>33kV Line (Underground Cables)</b>							
1	33kV Power Cable (Al conductor, XLPE insulated, 300 sq.mm., single core, armoured)	km	1.5				-	
2	36kV Straight Through Joints (single core-3Nos per set) including all accessories complete	Set	1				-	
3	33kV Cable Termination Kit Outdoor Type (single core-3Nos per set) including all accessories complete	Set	2				-	
4	Flexible Pipe (105mm OD) for laying Single Core XLPE Cable including all accessories complete	km	1.5				-	
5	Sheath Voltage Limitor including all accessories complete (3 Nos. per set)	Set	1				-	
6	33kV Power Fuse (Drop Out Type) including all accessories complete	Set	1				-	
7	30 kV, 10 kA Pole Mounted Lightning Arrester including all accessories complete (3 Nos. per set)	Set	1				-	

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**Distribution System Augmentation and Expansion Project**

Rural Electrification and Distribution Network Improvement of Tanahu District  
 Bid No: ICB-PMD-DSAEP-074/75-01-Tanahu

**Schedule of Rates and Prices**

**Schedule 2: Plant and Equipment including Mandatory Spare Parts Supplied from Abroad**

LC-Local Currency

S.N.	Description of Material	Estimated		Country of Origin	EXW (Excluding Taxes and Duties applicable in Nepal)			Taxes and Duties
		Unit	Quantity		LC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
	<b>Subtotal of B1</b>						-	
<b>B2</b>	<b>33kV Line (Steel Telescopic/Octagonal Pole)</b>							
1	11m Steel Telescopic/Octagonal Pole (fully galvanized)	Nos	922				-	
2	ACSR Dog Conductor	km	123.6				-	
3	33kV Pin Insulator with Spindle & Nuts Bolts, washer including all accessories complete.	Set	2615				-	
4	11kV Disc Insulator	Nos	1432				-	
5	Tension Set with Ball and Socket Eye	Nos	250				-	
6	Backstrap for Insulator String including (50*6*404mm) Nut-Bolt	Nos	500				-	
7	Mid-Span Joining Sleeve (For ACSR Dog Conductor & Steel and rated min. 400A)	Nos	125				-	
8	PG Clamps (for DOG to DOG conductor & rated min. 400A)	Nos	426				-	
9	Steel Top Cross Arm Channel (ISMC100x300mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	770				-	
10	Steel Cross Arm (ISMC100x1900mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	770				-	
11	Steel Cross Bracing Plate (Flat 40x6x760mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	770				-	
12	Steel Cross Arm (ISMC100x3300mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	81				-	

Name of Bidder:



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					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
13	Steel Cross Bracing Angle (ISA50x50x6x2872mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	81				-	
14	Steel Cross Bracing Angle (ISA50x50x6x2416 & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	81				-	
15	Steel Lattice Towers (Type of Tower as per site Condition)	Ton	30				-	
16	Stay Set Complete (Stay Rod-19mm, Stay Plate-600x600x6mm, Eye Bolt-16mm, Turn Buckle-19mm)	Set	461				-	
17	Stay Insulator	Nos	461				-	
18	Stay Wire (7/8 SWG)	Kg	3983				-	
19	33 kV Air Break Switch (Pole mounted) including all accessories complete	Set	5				-	
	<b>Subtotal of B2</b>						-	
	<b>Subtotal of B (33kV Line)</b>						-	
<b>C</b>	<b>11kV Distribution Line</b>							
<b>C1</b>	<b>11kV Line (Underground Cables)</b>							
1	11kV Power Cable (Al conductor, XLPE insulated, 300 sq.mm., single core, armoured)	km	6				-	
2	12kV, 630A Straight Through Joints outdoor type (single core-3Nos per set) including all accessories complete	Set	3				-	

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		Unit	Quantity		LC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
3	11 kV Cable termination kit outdoor type (single core-3Nos per set) including all accessories complete	Set	4				-	
4	Flexible Pipe/Conduit (105 mm OD) for single core XLPE cable including all complete accessories	km	6				-	
5	9 kV Lightning Arrestor including all accessories complete (3 Nos. per set)	Set	2				-	
6	11 kV Power Fuse (Drop Out Type) including all accessories complete	Set	2				-	
	<b>Subtotal of C1</b>						-	
<b>C2</b>	<b>11kV Line (Tubular Poles, Covered Conductor &amp; Accessories)</b>							
1	11m Steel Tubular Pole (fully galvanized)	Nos	280				-	
2	Covered Conductor (XLPE insulated, 120 sq.mm. AAC)	km	15.45				-	
3	Covered Conductor (XLPE insulated, 80 sq.mm. AAC)	km	15.45				-	
4	Pin Insulator for Covered Conductor with pulling sleeve/ties and all accessories complete	Set	690				-	
4	Tension Insulator for Covered Conductor with tension clamp and all accessories complete	Set	180				-	
5	Power Arc Devices (3 Nos. per set)	Set	10				-	
6	Termination Kits (3 Nos. per set)	Set	10				-	
7	Tension Joining Kits (3 Nos. per set)	Set	25				-	
8	Insulating Piercing Connectors	Nos	25				-	

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		Unit	Quantity		LC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
9	Horizontal Cross-Arm (ISMC100 & Fully galvanized) for Covered Conductor with all accessories complete	Set	220				-	
10	Terminal Cross-Arm (ISMC100 & Fully galvanized) for Covered Conductor with all accessories complete	Set	60				-	
11	Steel Cross Bracing Angle (ISA 50x50x50x6 mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	60				-	
12	Steel Cross Bracing Angle (ISA 50x50x6 mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	60				-	
13	Stay Set Complete (Stay Rod-16mm, Stay Plate-300x300x6mm, Eye Bolt-16mm, Turn Buckle-16mm)	Set	140				-	
14	Stay Insulator	Nos	140				-	
15	Stay Wire 7/12 SWG	kg	504				-	
	<b>Subtotal of C2</b>						-	
<b>C3</b>	<b>11kV Line (Tubular Poles, ACSR Conductor &amp; Accessories)</b>							
1	11m Steel Tubular Pole (fully galvanized)	Nos	3147				-	
2	ACSR Dog Conductor	km	186.00				-	
3	ACSR Rabbit Conductor	km	309.00				-	
4	11 kV Pin Insulator with Spindle & Nuts Bolts, washer all complete.	Set	9069				-	
5	11kV Disc Insulator	Nos	1574				-	
6	Tension Set with Ball and Socket Eye	Nos	1574				-	

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		Unit	Quantity		LC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
7	Backstrap for Insulator String including(50*6*404mm) Nut-Bolt	Nos	1574				-	
8	Mid-Span Joining Sleeve (For ACSR Dog Conductor & Steel and rated min. 400A)	Nos	186				-	
9	Mid-Span Joining Sleeve (For ACSR Rabbit Conductor & Steel and rated min. 200A)	Nos	309				-	
10	PG Clamps (for DOG to DOG conductor & rated min. 400A)	Nos	372				-	
11	PG Clamps (for RABBIT to RABBIT conductor & rated min. 200A)	Nos	912				-	
12	Steel Top Cross Arm Channel (ISMC100x300mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	2619				-	
13	Steel Cross Arm (ISMC100x1200mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	2619				-	
14	Steel Cross Bracing Plate (Flat 40x6x660mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	2619				-	
15	Steel Cross Arm (ISMC100x2390mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	528				-	
16	Steel Cross Bracing Angle (ISA 50x50x50x6x2723mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	528				-	
17	Steel Cross Bracing Angle (ISA50x50x6x2071mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	528				-	
18	Offset Steel Cross arm (ISMC100x1700mm & fully galvanized) and bracing Flat (40x6x877mm & fully galvanized) with fully galvanized suitable Pole Clamps and nut bolt	Set	45				-	

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		Unit	Quantity		LC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
19	Stay Set Complete (Stay Rod-16mm, Stay Plate-300x300x6mm, Eye Bolt-16mm, Turn Buckle-16mm)	Set	1500				-	
20	Stay Insulator	Nos	1500				-	
21	Stay Wire (7/12 SWG)	Kg	5400				-	
22	11 kV Air Break Switch (Pole mounted) including all accessories complete	Set	5				-	
	<b>Subtotal of C3</b>						-	
<b>C4</b>	<b>11kV Line (Tubular Poles, ACSR Conductor &amp; Accessories - Composite Line)</b>							
1	11m Steel Tubular Pole (fully galvanized)	Nos	1262				-	
2	ACSR Dog Conductor	km	93.00				-	
3	ACSR Rabbit Conductor	km	63.00				-	
4	11 kV Pin Insulator with Spindle & Nuts Bolts, washer all complete.	Set	3474				-	
5	11kV Disc Insulator	Nos	342				-	
6	Tension Set with Ball and Socket Eye	Nos	342				-	
7	Backstrap for Insulator String including(50*6*404mm) Nut-Bolt	Nos	664				-	
8	Mid-Span Joining Sleeve (For ACSR Dog Conductor & Steel and rated min. 400A)	Nos	93				-	
9	Mid-Span Joining Sleeve (For ACSR Rabbit Conductor & Steel and rated min. 200A)	Nos	93				-	
10	PG Clamps (for DOG to DOG conductor & rated min. 400A)	Nos	192				-	

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		Unit	Quantity		LC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
11	PG Clamps (for RABBIT to RABBIT conductor & rated min. 200A)	Nos	120				-	
12	Steel Top Cross Arm Channel (ISMC100x300mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	1054				-	
13	Steel Cross Arm (ISMC100x1200mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	1054				-	
14	Steel Cross Bracing Plate (Flat 40x6x660mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	1054				-	
15	Steel Cross Arm (ISMC100x2390mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	104				-	
16	Steel Cross Bracing Angle (ISA50x50x50x6x2723mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	104				-	
17	Steel Cross Bracing Angle (ISA50x50x6x2071mm & fully galvanized) with fully galvanized suitable Pole Clamps and Nut Bolt	Set	104				-	
18	Offset Steel Cross arm (ISMC100x1700mm & fully galvanized), bracing Flat (Flat 40x6x877mm & fully galvanized) with fully galvanized suitable Pole Clamp and nut bolt	Set	50				-	
19	Stay Set Complete (Stay Rod-16mm, Stay Plate-300x300x6mm, Eye Bolt-16mm, Turn Buckle-16mm)	Set	631				-	
20	Stay Insulator	Nos	631				-	
21	Stay Wire (7/12 SWG)	Kg	2272				-	
22	11 kV Air Break Switch (Pole mounted) including all accessories complete	Set	5				-	
<b>Subtotal of C4</b>							-	

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		Unit	Quantity		LC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
	<b>Subtotal of C (11kV Line)</b>						-	
<b>D</b>	<b>400V Distribution Line</b>							
<b>D1</b>	<b>400V Line (Four Wire - Tubular Poles, ACSR Conductor &amp; Accessories)</b>							
1	9m Steel Tubular Pole (fully galvanized)	Nos	325				-	
2	ACSR Dog Conductor	km	20.6				-	
3	ACSR Rabbit Conductor	km	247.2				-	
4	Sackle Insulator & D-Iron all set complete	Set	1300				-	
5	Mid-Span Joining Sleeve (For ACSR Dog Conductor & Steel and rated min. 400A)	Nos	40				-	
6	Mid-Span Joining Sleeve (For ACSR Rabbit Conductor & Steel and rated min. 200A)	Nos	200				-	
7	PG Clamps (for DOG to DOG conductor & rated min. 400A)	Nos	120				-	
8	PG Clamps (for RABBIT to RABBIT conductor & rated min. 200A)	Nos	744				-	
9	Stay Set Complete (Stay Rod-16mm, Stay Plate-300x300x6mm, Eye Bolt-16mm, Turn Buckle-16mm)	Set	162				-	
10	Stay Insulator	Nos	162				-	
11	Stay Wire (7/12 SWG)	Kg	443				-	
	<b>Subtotal of D1</b>						-	

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		Unit	Quantity		LC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
<b>D2</b>	<b>400V Line (Composite AB Cable 3x95+70 sq.mm &amp; Accessories)</b>							
1	AB Cable 3x95+70 sq.mm.	km	20				-	
2	Suspension Set	Nos	425				-	
3	Tension Set	Nos	175				-	
4	Cable Connector	Nos	2000				-	
	<b>Subtotal of D2</b>						-	
<b>D3</b>	<b>400V Line (Composite AB Cable 4x70 sq.mm &amp; Accessories)</b>							
1	AB Cable 4x70 sq.mm.	km	30				-	
2	Suspension Set	Nos	425				-	
3	Tension Set	Nos	175				-	
4	Cable Connector	Nos	2000				-	
	<b>Subtotal of D3</b>						-	
<b>D4</b>	<b>400V Line (Tubular Poles, AB Cable 4x70 sq.mm. &amp; Accessories)</b>							
1	9m Steel Tubular Pole (fully galvanized)	Nos	600				-	
2	AB Cable 4x70 sq.mm.	km	30				-	
3	Suspension Set	Nos	425				-	
4	Tension Set	Nos	175				-	
5	Cable Connector	Nos	2000				-	

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		Unit	Quantity		LC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
6	Stay Set Complete (Stay Rod-16mm, Stay Plate-300x300x6mm, Eye Bolt-16mm, Turn Buckle-16mm)	Set	175				-	
7	Stay Insulator	Nos	175				-	
8	Stay Wire (7/12 SWG)	Kg	473				-	
	<b>Subtotal of D4</b>						-	
<b>D5</b>	<b>400V Line (Tubular Poles, AB Cable 4x50 sq.mm. &amp; Accessories)</b>							
1	9m Steel Tubular Pole (fully galvanized)	Nos	2400				-	
2	AB Cable 4x50 sq.mm.	km	120				-	
3	Suspension Set	Nos	2000				-	
4	Tension Set	Nos	400				-	
5	Cable Connector	Nos	8000				-	
6	Stay Set Complete (Stay Rod-16mm, Stay Plate-300x300x6mm, Eye Bolt-16mm, Turn Buckle-16mm)	Set	800				-	
7	Stay Insulator	Nos	800				-	
8	Stay Wire (7/12 SWG)	Kg	2160				-	
	<b>Subtotal of D5</b>						-	
<b>D6</b>	<b>400V Line (Tubular Poles, AB Cable 4x25 sq.mm. &amp; Accessories)</b>							
1	9m Steel Tubular Pole (fully galvanized)	Nos	1600				-	
2	AB Cable 4x25 sq.mm.	km	80				-	

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					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
3	Suspension Set	Nos	1250				-	
4	Tension Set	Nos	350				-	
5	Cable Connector	Nos	5400				-	
6	Stay Set Complete (Stay Rod-16mm, Stay Plate-300x300x6mm, Eye Bolt-16mm, Turn Buckle-16mm)	Set	625				-	
7	Stay Insulator	Nos	625				-	
8	Stay Wire (7/12 SWG)	Kg	1688				-	
	<b>Subtotal of D6</b>						-	
<b>D7</b>	<b>400V Line (Two Wire - Tubular Poles, ACSR Conductor &amp; Accessories)</b>							
1	9m Steel Tubular Pole (fully galvanized)	Nos	500				-	
2	ACSR Rabbit Conductor	km	41.2				-	
3	Sackle Insulator & D-Iron all set complete	Set	1000				-	
4	Mid-Span Joining Sleeve (For ACSR Rabbit Conductor & Steel and rated min. 200A)	Nos	80				-	
5	PG Clamps (for RABBIT to RABBIT conductor & rated min. 200A)	Nos	160				-	
6	Stay Set Complete (Stay Rod-16mm, Stay Plate-300x300x6mm, Eye Bolt-16mm, Turn Buckle-16mm)	Set	125				-	
7	Stay Insulator	Nos	125				-	
8	Stay Wire (7/12 SWG)	Kg	338				-	

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		Unit	Quantity		LC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
	<b>Subtotal of D7</b>						-	
	<b>Subtotal of D (400V Line)</b>						-	
<b>E</b>	<b>11/0.4kV Distribution Transformer</b>							
<b>E1</b>	<b>11/0.4kV Distribution Transformer 200kVA</b>							
1	11/0.4kV 200kVA 3 Ph. Distribution Transformer	Nos	5				-	
2	Transformer Platform for 200kVA Transformer including DO & LA Fitting Channels, Clamps, Nutbolts all complete	Set	5				-	
3	Surge Arrestor 9kV (3 Nos. per set)	Set	5				-	
4	Drop Out Fuse (3 Nos. per set)	Set	5				-	
5	Earthing Set	Set	5				-	
6	AB Cable 3x95+70 sq.mm.	m	80				-	
7	Outdoor Pole Mounted Distribution Panel Board (with 300A TP MCCB-1Nos, 150A TP MCCB-2Nos with Copper Busbars and Hardware) Complete Set	Set	5				-	
	<b>Subtotal of E1</b>						-	
<b>E2</b>	<b>11/0.4kV Distribution Transformer 100kVA</b>							
1	11/0.4kV 100kVA 3 Ph. Distribution Transformer	Nos	10				-	

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		Unit	Quantity		LC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
2	Transformer Platform for 100kVA Transformer including DO & LA Fitting Channels, Clamps,Nutbolts all complete	Set	10				-	
3	Surge Arrestor 9kV (3 Nos. per set)	Set	10				-	
4	Drop Out Fuse (3 Nos. per set)	Set	10				-	
5	Earthing Set	Set	10				-	
6	AB Cable 3x95+70 sq.mm.	m	80				-	
7	Outdoor Pole Mounted Distribution Panel Board (with 150A TP MCCB-1Nos, 75A TP MCCB-2Nos with Copper Busbars and Hardware) Complete Set	Set	10				-	
<b>Subtotal of E2</b>							-	
<b>E3</b>	<b>11/0.4kV Distribution Transformer 50kVA</b>							
1	11/0.4kV 50kVA 3 Ph. Distribution Transformer	Nos	35				-	
2	Transformer Platform for 50kVA Transformer including DO & LA Fitting Channels, Clamps,Nutbolts all complete	Set	35				-	
3	Surge Arrestor 9kV (3 Nos. per set)	Set	35				-	
4	Drop Out Fuse (3 Nos. per set)	Set	35				-	
5	Earthing Set	Set	35				-	
6	AB Cable 4x70 sq.mm.	m	280				-	
7	Outdoor Pole Mounted Distribution Panel Board (with 75A TP MCCB-1Nos, 35A TP MCCB-2Nos with Copper Busbars and Hardware) Complete Set	Set	35				-	

Name of Bidder:



Signature and Seal of Bidder:

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**Distribution System Augmentation and Expansion Project**

Rural Electrification and Distribution Network Improvement of Tanahu District  
 Bid No: ICB-PMD-DSAEP-074/75-01-Tanahu

**Schedule of Rates and Prices**

**Schedule 2: Plant and Equipment including Mandatory Spare Parts Supplied from Abroad**

LC-Local Currency

S.N.	Description of Material	Estimated		Country of Origin	EXW (Excluding Taxes and Duties applicable in Nepal)			Taxes and Duties
		Unit	Quantity		LC			LC
					Currency	Unit Rate	Amount	Amount
1	2	3	4	5	6	7	8=7*4	9
	<b>Subtotal of E3</b>						-	
<b>E4</b>	<b>11/0.4kV Distribution Transformer 25kVA</b>							
1	11/0.4kV 25kVA 3 Ph. Distribution Transformer	Nos	20				-	
2	Transformer Platform for 25kVA Transformer including DO & LA Fitting Channels, Clamps, Nutbolts all complete	Set	20				-	
3	Surge Arrestor 9kV (3 Nos. per set)	Set	20				-	
4	Drop Out Fuse (3 Nos. per set)	Set	20				-	
5	Earthing Set	Set	20				-	
6	AB Cable 4x50 sq.mm.	m	160				-	
7	Outdoor Pole Mounted Distribution Panel Board (with 35A TP MCCB-1Nos, 16A TP MCCB-2Nos with Copper Busbars and Hardware) Complete Set	Set	20				-	
	<b>Subtotal of E4</b>						-	
	<b>Subtotal of E (Distribution Transformer)</b>						-	
	<b>Total of Schedule 1 to be carried forward to Schedule No. 5 Grand Summary</b>						-	

Note: The Specifications of items shall be as mentioned in VOL II of Bid Documents. The GTP and GA of the supplied items shall be priorly accepted and approved by the Employer before putting order to the manufacturer/seller.

Name of Bidder:



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**Schedule of Rates and Prices**

FC-Foreign Currency  
 LC-Local Currency

**Schedule 3: Design Services**

S.N.	Description of Material	Estimated		Unit Price		Total Price	
		Unit	Quantity	FC	LC	FC	LC
1	2	3	4	5	6	7=4*5	8=4*6
1	Preconstruction Survey, Design and Drawings of 33/11kV Substation as per the scope of the project	L/S	1			-	-
2	As Built Drawings, Testing and Commissioning of 33/11kV Substation as per the scope of the project	L/S	1			-	-
3	Preconstruction Survey, Design and Drawings of 33kV Line as per the scope of the project	L/S	1			-	-
4	As Built Drawings, Testing and Commissioning of 33kV Line as per the scope of the project	L/S	1			-	-
5	Preconstruction Survey, Design and Drawings of 11kV Line as per the scope of the project	L/S	1			-	-
6	As Built Drawings, Testing and Commissioning of 11kV Line as per the scope of the project	L/S	1			-	-
7	Preconstruction Survey, Design and Drawings of 400V Line as per the scope of the project	L/S	1			-	-
8	As Built Drawings, Testing and Commissioning of 400V Line as per the scope of the project	L/S	1			-	-
<b>Total of Schedule 3 to be carried forward to Schedule No. 5 Grand Summary</b>						-	-

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**Schedule of Rates and Prices**

FC-Foreign Currency  
 LC-Local Currency

**Schedule 4: Installation and Other Services**

S.N.	Description of Material	Estimated		Unit Price		Total Price	
		Unit	Quantity	FC	LC	FC	LC
1	2	3	4	5	6	7=4*5	8=4*6
<b>A</b>	<b>SUB-STATION</b>						
<b>A1</b>	<b>SUB-STATION (Installation, Testing and Comissioning of Electrical Goods)</b>						
1	Installation, Testing and Comissioning of 33/11 kV, 6/8 MVA Power Transformer including accessories all complete	Set	2			-	-
2	Installation, Testing and Comissioning of 33/0.4 kV, 100 kVA Station Transformer including accessories all complete	Set	2			-	-
3	Installation, Testing and Comissioning of Incoming, Outgoing, Busbar Gantry including accessories all complete	Set	2			-	-
4	Installation, Testing and Comissioning of 33 kV Vacuum Circuit Breaker including installation of support Gantry all complete	Set	6			-	-
5	Installation, Testing and Comissioning of 33 kV Disconnecting Switch with and without earth switch including installation of support Gantry all complete	Set	10			-	-
6	Installation, Testing and Comissioning of 33 kV Lightning Arrestor including installation of support Gantry all complete (Set of 3 Nos.)	Set	6			-	-
7	Installation, Testing and Comissioning of 33 kV Current Transformer including installation of support Gantry all complete (Set of 3 Nos.)	Set	6			-	-

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**Schedule of Rates and Prices**

FC-Foreign Currency  
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**Schedule 4: Installation and Other Services**

S.N.	Description of Material	Estimated		Unit Price		Total Price	
		Unit	Quantity	FC	LC	FC	LC
1	2	3	4	5	6	7=4*5	8=4*6
8	Installation, Testing and Comissioning of 33 kV Post Insulator including installation of support Gantry all complete (Set of 3 Nos.)	Set	4			-	-
9	Installation, Testing and Comissioning of 33 kV Potential Transformer including installation of support Gantry all complete (Set of 3 Nos.)	Set	2			-	-
10	Installation, Testing and Comissioning of 33 kV Line & Transformer Control, Relay Panel all complete	Set	6			-	-
11	Installation, Testing and Comissioning of 33 kV AVR and OLTC Pannel all complete	Set	2			-	-
12	Installation, Testing and Comissioning of 33 kV Power Fuse including installation of support Gantry all complete	Set	2			-	-
13	Installation, Testing and Comissioning of 33 kV Overhead Busbar using 'BEAR' Conductor, Busbar including accessories all complete	Set	2			-	-
14	Installation, Testing and Comissioning of 12 kV Circuit breaker with Control Panel including accessories all complete	Set	10			-	-
15	Installation, Testing and Comissioning of 110 V Battery and Battery Charger including accessories all complete	Set	2			-	-
16	12 kV Cable (400 & 150 sq.mm) laying works all complete	rm	2200			-	-
17	12 kV Cable Jointing works including accessories all complete	Set	20			-	-

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**Schedule of Rates and Prices**

FC-Foreign Currency  
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**Schedule 4: Installation and Other Services**

S.N.	Description of Material	Estimated		Unit Price		Total Price	
		Unit	Quantity	FC	LC	FC	LC
1	2	3	4	5	6	7=4*5	8=4*6
18	Installation of 1.5 Ton Air conditioners	Nos	8			-	-
19	Installation of Street Light Pole with concreting including accessories all complete	Nos	12			-	-
20	Installation, Testing and Comissioning of 11 M Steel Tubular Pole with concreting fitting of DO,LA, Channels etc. including accessories all complete (2 Nos of Pole for Each Feeder)	Set	6			-	-
21	Installation, Testing and Comissioning of Marshalling Kisok Box including accessories all complete	Set	2			-	-
22	Installation, Testing and Comissioning of AC and DC Distribution Boards	Set	4			-	-
23	Installation, Testing and Comissioning of Lightning Mast including accessories all complete	Set	4			-	-
24	Earthing Works including Soil Resistivity Test and Supply of Materials for Switchyard, Control Building etc. & accessories all complete	Set	2			-	-
<b>Subtotal of A1</b>						-	-
<b>A2</b>	<b>SUB-STATION (Erection of Supplied Materials and Civil Works)</b>						
1	Concrete foundation works for Gantry column all complete (1 set= 2 vertical+1 horizontal)	Set	8			-	-

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**Schedule of Rates and Prices**

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**Schedule 4: Installation and Other Services**

S.N.	Description of Material	Estimated		Unit Price		Total Price	
		Unit	Quantity	FC	LC	FC	LC
1	2	3	4	5	6	7=4*5	8=4*6
2	Concrete foundation works for 33 kV Vacuum Circuit Breaker all complete	Set	6			-	-
3	Concrete foundation works for 33 kV Disconnecting Switch all complete	Set	10			-	-
4	Concrete foundation works for 33 kV Lightning Arrestors all complete (Set of 3 Nos.)	Set	6			-	-
5	Concrete foundation works for 33 kV Current Transformers all complete (Set of 3 Nos.)	Set	6			-	-
6	Concrete foundation works for 33 kV Potential Transformers all complete (Set of 3 Nos.)	Set	2			-	-
7	Concrete foundation works for 33 kV Post Insulators all complete (Set of 3 Nos.)	Set	4			-	-
8	Cable Trench: All type all complete	Rm	140			-	-
9	Water pump pit along with Supply and Installation of Single Phase Motor, 1 HP, Self priming, multistage Motor all complete	Set	2			-	-
10	Surface dressing with Crushed Stone including antiweed treatment all complete	Lot	2			-	-
11	Site Preparation, Soil Test all complete	Lot	2			-	-
12	Concrete foundation works for 6/8 MVA, 33/11 kV Power Transformers	Lot	2			-	-
13	Concrete foundation works for 100 KVA, 33/0.4 kV Station Transformers	Lot	2			-	-

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**Schedule of Rates and Prices**

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**Schedule 4: Installation and Other Services**

S.N.	Description of Material	Estimated		Unit Price		Total Price	
		Unit	Quantity	FC	LC	FC	LC
1	2	3	4	5	6	7=4*5	8=4*6
14	Concrete foundation works for Lightning Mast	Lot	4			-	-
	<b>Sub Total of A2</b>					-	-
<b>A3</b>	<b>SUB-STATION (Civil Works as per Technical Specification)</b>						
1	Site levelling					-	-
1.1	Earth work in cutting & Filling in all types of soils including soft/disintegrated rock	cu.m.	6500			-	-
1.2	Earth work in Filling with borrowed earth	cu.m.	100			-	-
2	Excavation in all types of soil and rock including backfilling disposal etc. for all leads and lifts	cu.m.	2700			-	-
3	Sand filling work	cu.m.	10			-	-
4	One layer flat brick soling work including proper compaction	sq. m.	1880			-	-
5	Stone soling works for approach road & wherever specified in approved drawing including 95% compaction at OMC of subgrade soil	cu.m.	180			-	-
6	Providing and laying of Plain Cement Concrete (1:1.5:3; C:S:A)	cu.m.	450			-	-
7	Providing and laying of Plain Cement Concrete (1:2:4; C:S:A)	cu.m.	220			-	-
8	Providing and laying of Plain Cement Concrete (1:3:6; C:S:A)	cu.m.	180			-	-
9	Brick aggregate filling work with compaction	cu.m.	10			-	-

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**Schedule of Rates and Prices**

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**Schedule 4: Installation and Other Services**

S.N.	Description of Material	Estimated		Unit Price		Total Price	
		Unit	Quantity	FC	LC	FC	LC
1	2	3	4	5	6	7=4*5	8=4*6
10	First class brick masonry work in 1:4 C/S mortar	cu.m.	855			-	-
11	Stone filling work	cu.m.	100			-	-
13	Construction of retaining wall with random Rubble masonry in cement sand mortar (1:5) including levelling up with stone soling and 100mm thick PCC (1:3:6) ,providing weep holes of PVC pipes (150 mm dia) with necessary filter material at the mouth of weep holes,50 mm thick cement concrete (1:2:4) copping on the top of wall ,excavation of foundation for all lifts up to 3m above lower level . Item of excavation, PCC (1:2:4 & 1:3:6) shall be measured and paid seperately under respective items of BPS	cu.m.	2000			-	-
14	20mm thick 1:4 C/S mortar plaster work	sq. m.	920			-	-
15	12.5mm thick 1:4 C/S mortar plaster work	sq. m.	3440			-	-
16	Double coat snowcem paint work as per Technical Specifications	sq. m.	3200			-	-
17	Double coat distemper paint work as per Technical Specifications	sq. m.	3200			-	-
18	2 or more coat enamel paint work as per Technical Specifications	sq. m.	200			-	-
18	Form work as per Technical Specifications	sq. m.	3070			-	-
19	20mm thick Terrazzo/mosaic/high density ceramiic tiles of approved color on 25mm average selting bed of 1:4 c/s mortar	sq. m.	600			-	-

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**Schedule 4: Installation and Other Services**

S.N.	Description of Material	Estimated		Unit Price		Total Price	
		Unit	Quantity	FC	LC	FC	LC
1	2	3	4	5	6	7=4*5	8=4*6
20	Sal wood work						
20.1	Chaukhat (75x100mm)	cu.m.	12			-	-
20.2	Pannel in Doors (40mm thickness)	sq. m.	150			-	-
20	Pannel with glass (thickness of glass 6mm & frame 38x75mm)	sq. m.	370			-	-
21	Supplying and fixing of iron grill including double coat primer and painting works	kg	1500			-	-
22	Aluminium works for Control building with approved colour	sq. m.					
22.1	Main door in two side hung shutter with double pannel of 6mm thick glass (100x45x2mm) swing	sq. m.	10			-	-
22.2	Other Doors in single hung shutter with double pannel (100x45x2mm) swing door	sq. m.	20			-	-
22.3	Aluminium sliding window (two track) with mesh WA (88x38x1.5mm)	sq. m.	50			-	-
22.4	Aluminium fixed window for battrey room	sq. m.	1.20			-	-
23	Rolling shutter door (3mx2.5m)	sq. m.	15			-	-
24	Steel Reinforcement (Fe 500)	kg	60500			-	-
25	Ventilation (9" exhaust fan)	Nos	8			-	-
26	Chain link fencing as per technical specification and approved drawing but excluding concrete which shall be paid seperately under respective items of BPS	rm	174.8			-	-
27	Switch yard Gate excluding concrete which shall be paid seperately under respective items of BPS	Nos.	2			-	-

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**Schedule of Rates and Prices**

FC-Foreign Currency  
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**Schedule 4: Installation and Other Services**

S.N.	Description of Material	Estimated		Unit Price		Total Price	
		Unit	Quantity	FC	LC	FC	LC
1	2	3	4	5	6	7=4*5	8=4*6
28	Steel Gate (Main Entry) for boundary wall as per technical specification	Nos	2			-	-
29	Supplying and erecting 1 HP stage water pump of crompton and Greaves or equivalent as per site requirement.	Nos	4			-	-
30	1000 lts. Stainless steel water tank ((ISO certified and NS or Equivalent standard)	Nos	4			-	-
31	Making arrangement for permanent source of drinking water supply for substation staff in control building as per site requirement.	Nos	2			-	-
32	Supplying & laying hume pipe with collars of grade (NP-3) but excluding concrete of bed/support/encasing of hume pipes which shall be paid seperately under respective items of BPS						
32.1	250mm dia	rm	10			-	-
32.2	300mm dia	rm	10			-	-
33	Electrification of Guard House, Control building and Staff quarter as per approved drawing.	Lot	2			-	-
34	Furnishing of office equipment ( office table with drawer-1, revolving chair-1, ordinary chair-4, steel almari 3'*5'-1, File cabinet 3'*4'-1)	Lot	2			-	-

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**Schedule of Rates and Prices**

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**Schedule 4: Installation and Other Services**

S.N.	Description of Material	Estimated		Unit Price		Total Price	
		Unit	Quantity	FC	LC	FC	LC
1	2	3	4	5	6	7=4*5	8=4*6
35	Plumbing works for Control building and Staff quarters including CPVC pipes, fitting and all related items (ISO certified and NS or Equivalent Standard) for bathrooms and kitchens as per approved drawing/ technical specification	Lot	2			-	-
36	All civil works for construction of drains as per technical specification and approved drawing including PCC & steel reinforcement						
36.1	Type AA (300mm wide x Depth up to 600mm)	rm	290			-	-
36.2	Type BB (450 wide x Depth From 600 to 900mm)	rm	250			-	-
36.3	Type CC (600 wide x Depth From 900 to 1200mm)	rm	80			-	-
37	Gabion work as per technical specification.	cu. m.	75			-	-
38	Pointing Works (1:3 Cement Mortar)	sq. m.	600			-	-
38	Miscellaneous civil works as per site condition	L/S	2			-	-
	<b>Total of A3</b>					-	-
	<b>Total of A (Substation)</b>					-	-
<b>B</b>	<b>33kV Sub-Transmission Line</b>						
<b>B1</b>	<b>33kV Line (Labour Cost of Underground Cables)</b>						
1	33 kV U/G, Single core, Aluminium, 300 sq.mm XLPE Cable laying (3Nos) including laying of conduits (3 Nos) including transportation to site	km	0.5			-	-

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**Schedule of Rates and Prices**

FC-Foreign Currency  
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**Schedule 4: Installation and Other Services**

S.N.	Description of Material	Estimated		Unit Price		Total Price	
		Unit	Quantity	FC	LC	FC	LC
1	2	3	4	5	6	7=4*5	8=4*6
2	Installation of Cable Straight through Joints including accessories all complete including transportation to site	Set	1			-	-
3	Installation of 33 kV outdoor XLPE Cable Termination kit with accessories all complete including transportation to site	Set	2			-	-
4	Installation of 30 kV LA (3Nos), Power Fuse (3Nos) including accessories all complete including transportation to site	Set	1			-	-
5	Supply and Installation of Danger Tape/Sheets and Cable Route markers including accessories all complete including transportation to site	rkm	0.5			-	-
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	1			-	-
7	Design & Construction of Cable Joining Station/Pits	Set	1			-	-
<b>Subtotal of B1</b>						-	-
<b>B2</b>	<b>33kV Line (Labour Cost of Telescopic/Octagonal Pole)</b>						
1	Erection works of 11m long Steel Telescopic/ Octagonal Pole and Hardware fittings all complete including transportation to site	Set	922			-	-

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**Schedule of Rates and Prices**

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**Schedule 4: Installation and Other Services**

S.N.	Description of Material	Estimated		Unit Price		Total Price	
		Unit	Quantity	FC	LC	FC	LC
1	2	3	4	5	6	7=4*5	8=4*6
2	Stringing works of ACSR DOG Conductor, 3 wire all complete including transportation to site	km	40			-	-
3	Stay set installation works including stay wire & insulator all complete including transportation to site	Set	461			-	-
4	Installation of Steel Lattice Towers with foundation all complete including transportation to site	Set	6			-	-
5	Installation of Pole Mounted 33 kV Air Break Switch all complete including transportation to site	Set	5			-	-
	<b>Subtotal of B2</b>					-	-
	<b>Subtotal of B (33kV Line)</b>					-	-
<b>C</b>	<b>11kV Distribution Line Erection</b>						
<b>C1</b>	<b>11kV Line (Labour Cost of Underground Cables)</b>						
1	11kV Underground Power Cable Laying works (3Nos of Single Core Cable in 3 Nos of Flexible Pipe/Conduits) including transportation to site	km	2			-	-
2	Installation of XLPE Cable Straight Through Joints including Accessories Complete including transportation to site	Set	3			-	-
3	Installation of XLPE Cable Termination Kit including Accessories Complete including transportation to site	Set	4			-	-

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**Schedule of Rates and Prices**

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**Schedule 4: Installation and Other Services**

S.N.	Description of Material	Estimated		Unit Price		Total Price	
		Unit	Quantity	FC	LC	FC	LC
1	2	3	4	5	6	7=4*5	8=4*6
4	Supply and Installation of Danger Tape/Sheets and Cable Route markers including accessories all complete including transportation to site	rkm	2			-	-
5	Earthing Works including supply of Earthing Materials required in Underground Cable Terminations, Straight Through Joints, etc. to complete specified scope of works including transportation to site	Set	2			-	-
6	Design & Construction of Cable Joining Station/Pits	Set	1			-	-
	<b>Subtotal of C1</b>					-	-
<b>C2</b>	<b>11kV Line (Labour Cost of Tubular Poles, Covered Conductor &amp; Accessories)</b>						
1	Erection works of 11m long Steel Tubular Pole and Hardware fittings including all complete including transportation to site	Nos	280			-	-
2	Stringing of 11kV Covered Conductor (120mm <sup>2</sup> ), 3 wire including accessories all complete including transportation to site	km	5			-	-
3	Stringing of 11kV Covered Conductor (80mm <sup>2</sup> ), 3 wire including accessories all complete including transportation to site	km	5			-	-
4	Stay set installation works including stay wire & insulator all complete including transportation to site	Set	140			-	-

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 LC-Local Currency

**Schedule 4: Installation and Other Services**

S.N.	Description of Material	Estimated		Unit Price		Total Price	
		Unit	Quantity	FC	LC	FC	LC
1	2	3	4	5	6	7=4*5	8=4*6
	<b>Subtotal of C2</b>					-	-
<b>C3</b>	<b>11kV Line (Labour Cost of Tubular Poles, ACSR Conductor &amp; Accessories)</b>						
1	Erection works of 11m long Steel Tubular Pole and Hardware fittings including all complete complete including transportation to site	Set	3147			-	-
2	Stringing of ACSR DOG Conductor, 3 wire all complete including transportation to site	km	60			-	-
3	Stringing of ACSR RABBIT Conductor, 3 wire all complete including transportation to site	km	100			-	-
4	Installation works of Stay Set all complete including transportation to site	Set	1500			-	-
5	Installation of Pole Mounted 11kV Air Break Switch all complete including transportation to site	Set	5			-	-
6	Dismantling of existing HT Poles (Dismantle 11m, 9m or 8m Wooden, Steel Tubular or PSC Type poles and carry back to office store safely) all complete	Set	200			-	-
7	Dismantling of existing HT Conductor (Dismantle and carry back to office store safely) all complete	km	10			-	-
	<b>Subtotal of C3</b>					-	-

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**Schedule 4: Installation and Other Services**

S.N.	Description of Material	Estimated		Unit Price		Total Price	
		Unit	Quantity	FC	LC	FC	LC
1	2	3	4	5	6	7=4*5	8=4*6
<b>C4</b>	<b>11kV Line (Labour Cost of Tubular Poles, ACSR Conductor &amp; Accessories - Composite Line)</b>						
1	Erection works of 11m long Steel Tubular Pole and Hardware fittings including all complete complete including transportation to site	Nos	1262			-	-
2	Stringing of ACSR DOG Conductor, 3 wire all complete including transportation to site	km	30			-	-
3	Stringing of ACSR RABBIT Conductor, 3 wire all complete including transportation to site	km	20			-	-
4	Stay set installation works including stay wire & insulator all complete including transportation to site	Set	631			-	-
5	Installation of Pole Mounted 11kV Air Break Switch all complete including transportation to site	Set	5			-	-
	<b>Subtotal of C4</b>					-	-
	<b>Subtotal of C (11kV Line)</b>					-	-
<b>D</b>	<b>400V Distribution Line Erection</b>						
<b>D1</b>	<b>400V Line (Four Wire - Labour Cost of Tubular Poles, ACSR Conductor &amp; Accessories)</b>						
1	Erection works of 9 m long Steel Tubular Poles & Hardware fittings including accessories all complete including transportation to site	Set	325			-	-

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**Schedule 4: Installation and Other Services**

S.N.	Description of Material	Estimated		Unit Price		Total Price	
		Unit	Quantity	FC	LC	FC	LC
1	2	3	4	5	6	7=4*5	8=4*6
2	Stringing of ACSR Dog Conductor, 4 wire all complete including transportation to site	km	5			-	-
3	Stringing of ACSR Rabbit Conductor, 4 wire all complete including transportation to site	km	60			-	-
4	Installation works of Stay Set all complete including transportation to site	Set	162			-	-
5	Dismantling of existing LT Poles (Dismantle 11m, 9m or 8m Wooden, Steel Tubular or PSC Type poles and carry back to office store safely) all complete	Set	250			-	-
6	Dismantling of existing LT Conductor (Dismantle and carry back to office store safely) all complete	km	10			-	-
	<b>Subtotal of D1</b>					-	-
D2	<b>400V Line (Labour Cost of Composite AB Cable 3x95+70 sq.mm &amp; Accessories)</b>						
1	Stringing of AB Cable including hardware fittings all complete including transportation to site	km	20			-	-
	<b>Subtotal of D2</b>					-	-
D3	<b>400V Line (Labour Cost of Composite AB Cable 4x70 sq.mm &amp; Accessories)</b>						

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**Schedule 4: Installation and Other Services**

S.N.	Description of Material	Estimated		Unit Price		Total Price	
		Unit	Quantity	FC	LC	FC	LC
1	2	3	4	5	6	7=4*5	8=4*6
1	Stringing of AB Cable including hardware fittings all complete including transportation to site	km	30			-	-
	<b>Subtotal of D3</b>					-	-
<b>D4</b>	<b>400V Line (Labour Cost of Tubular Poles, AB Cable 4x70 sq.mm. &amp; Accessories)</b>						
1	Erection works of 9 m long Steel Tubular Pole including transportation to site	Nos	600			-	-
2	Stringing works of AB Cable including hardware & fittings all complete including transportation to site	km	30			-	-
3	Stay set installation works all complete including transportation to site	Set	175			-	-
	<b>Subtotal of D4</b>					-	-
<b>D5</b>	<b>400V Line (Labour Cost of Tubular Poles, AB Cable 4x50 sq.mm. &amp; Accessories)</b>						
1	Erection works of 9 m long Steel Tubular Pole including transportation to site	Nos	2400			-	-
2	Stringing works of AB Cable including hardware & fittings all complete including transportation to site	km	120			-	-
3	Stay set installation works all complete including transportation to site	Set	800			-	-
	<b>Subtotal of D5</b>					-	-

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**Schedule 4: Installation and Other Services**

S.N.	Description of Material	Estimated		Unit Price		Total Price	
		Unit	Quantity	FC	LC	FC	LC
1	2	3	4	5	6	7=4*5	8=4*6
<b>D6</b>	<b>400V Line (Labour Cost of Tubular/Octagonal Poles, AB Cable 4x25 sq.mm. &amp; Accessories)</b>						
1	Erection works of 9 m long Steel Tubular Pole including transportation to site	Nos	1600			-	-
2	Stringing works of AB Cable including hardware & fittings all complete including transportation to site	km	80			-	-
3	Stay set installation works all complete including transportation to site	Set	625			-	-
	<b>Subtotal of D6</b>					-	-
<b>D7</b>	<b>400V Line (Two Wire - Labour Cost of Tubular/Octagonal Poles, ACSR Conductor &amp; Accessories)</b>						
1	Erection works of 9 m long Steel Tubular Poles & Hardware fittings including accessories all complete including transportation to site	Set	500			-	-
2	Stringing of ACSR Rabbit Conductor, 2 wire all complete including transportation to site	km	20			-	-
3	Installation works of Stay Set all complete including transportation to site	Set	125			-	-
	<b>Subtotal of D7</b>					-	-

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S.N.	Description of Material	Estimated		Unit Price		Total Price	
		Unit	Quantity	FC	LC	FC	LC
1	2	3	4	5	6	7=4*5	8=4*6
	<b>Subtotal of D (400V Line)</b>						-
<b>E</b>	<b>11/0.4kV Distribution Transformer Installation</b>						
<b>E1</b>	<b>11/0.4kV Distribution Transformer (200kVA) Installation</b>						
1	Transformer Erection including Platform, Distribution Panel Board & Cable all complete including transportation to site	Set	5			-	-
2	Surge Arrestor Erection all complete including transportation to site (Set of 3 Nos.)	Set	5			-	-
3	Drop-out Fuse Erection all complete including transportation to site	Set	5			-	-
4	Earthing Set Erection all complete including transportation to site	Set	5			-	-
	<b>Subtotal of E1</b>					-	-
<b>E2</b>	<b>11/0.4kV Distribution Transformer (100kVA) Installation</b>						
1	Transformer Erection including Platform, Distribution Panel Board & Cable all complete including transportation to site	Set	10			-	-
2	Surge Arrestor Erection all complete including transportation to site (Set of 3 Nos.)	Set	10			-	-
3	Drop-out Fuse Erection all complete including transportation to site	Set	10			-	-
4	Earthing Set Erection all complete including transportation to site	Set	10			-	-

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**Schedule 4: Installation and Other Services**

S.N.	Description of Material	Estimated		Unit Price		Total Price	
		Unit	Quantity	FC	LC	FC	LC
1	2	3	4	5	6	7=4*5	8=4*6
	<b>Subtotal of E2</b>					-	-
<b>E3</b>	<b>11/0.4kV Distribution Transformer (50kVA) Installation</b>						
1	Transformer Erection including Platform, Distribution Panel Board & Cable all complete including transportation to site	Set	35			-	-
2	Surge Arrestor Erection all complete including transportation to site (Set of 3 Nos.)	Set	35			-	-
3	Drop-out Fuse Erection all complete including transportation to site	Set	35			-	-
4	Earthing Set Erection all complete including transportation to site	Set	35			-	-
	<b>Subtotal of E3</b>					-	-
<b>E4</b>	<b>11/0.4kV Distribution Transformer (25kVA) Installation</b>						
1	Transformer Erection including Platform, Distribution Panel Board & Cable all complete including transportation to site	Set	20			-	-
2	Surge Arrestor Erection all complete including transportation to site (Set of 3 Nos.)	Set	20			-	-
3	Drop-out Fuse Erection all complete including transportation to site	Set	20			-	-
4	Earthing Set Erection all complete including transportation to site	Set	20			-	-
	<b>Subtotal of E4</b>					-	-

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**Schedule 4: Installation and Other Services**

S.N.	Description of Material	Estimated		Unit Price		Total Price	
		Unit	Quantity	FC	LC	FC	LC
1	2	3	4	5	6	7=4*5	8=4*6
	<b>Subtotal of E (Distribution Transformer)</b>					-	-
	<b>Total of Schedule 4 to be carried forward to Schedule No. 5 Grand Summary</b>					-	-

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