

# NEPAL ELECTRICITY AUTHORITY

(An Undertaking of Government of Nepal)  
Project Management Directorate



## POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT

*A component of  
SASEC Power Transmission and Distribution System Strengthening Project*

### BIDDING DOCUMENT FOR

Procurement of Plant  
for

Design, Supply, Installation and Commissioning of Underground Distribution Network  
under Pokhara and Bharatpur Distribution Center including Reinforcement and  
Automation

Single-Stage, Two-Envelope

### Bid Price Schedule

Issued on:	February 08, 2021
Invitation for Bids No.:	PMD/PTDSSP/PBDSRP-077/78-01
OCB No.:	PMD/PTDSSP/ PBDSRP-077/78-01
Employer:	Nepal Electricity Authority
Country:	Nepal

VOLUME –III OF III

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POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT  
Project Management Directorate  
NEA Training Centre Complex, Kharipati  
Bhaktapur, Nepal  
Room No.: E216  
Telephone: +977-1-6611626  
Email: lb.dsrb@gmail.com

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## Section IV Price Schedule

Note:

- 1) Bidder is required to quote prices in this Schedule for all the individual items/sub-items.
- 2) The Prices of equipment's are inclusive of type test.
- 3) BOQ given is indicative only based on the scope of work as given in Employer's Requirements. The quantities mentioned above may undergo change during detailed engineering to meet the functional requirement and scope of work defined in Employer's Requirements. The Contractor shall prepare and submit the final BOQ within 90 days of signing of Contract.



**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM**  
**REINFORCEMENT PROJECT**

**OCB No: PMD/PTDSSP/PBDSRP-077/78-01**

**Design, Supply, Installation and Commissioning of  
Underground Distribution Network under Pokhara and  
Bharatpur Distribution Centers including Reinforcement and  
Automation**

**Bid Price Schedule**  
**(Pokhara Only)**

**NEPAL ELECTRICITY AUTHORITY**  
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**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**

**BID PRICE SCHEDULE**

Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

FC: Foreign Currency

Schedule No.1: Plant and Equipment including Mandatory Spares to be supplied from abroad ( For Pokhara)

LC: Local Currency

Item No.	Item description	Country of origin	Estimated		CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal)			Total Amount (Excluding Taxes and Duties)	Custom, VAT and other taxes
			Unit	Quantity	FC				
					Currency#	Unit Rate	Amount	FC	LC
1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10
PART 1									
	Part-A : EMPLOYER ASSESSED QUANTITIES								
A	Steel Tubular Poles as per Technical Specification								
1.0	Full Galvanized Steel Tubular Pole 11.0 M Long		Nos.	150					
2.0	Full Galvanized Steel Tubular Pole 9.0 M Long		Nos.	150					
B	Cables								
1	HT Cables along with Straight Jointing Kit, Outdoor & Indoor Termination Kit and other accessories as per Technical Specification								
1.1	3-Core, 400 mm <sup>2</sup> , 11 kV, XLPE Armoured Aluminum cable		Km	92					
1.2	3-Core 300 mm <sup>2</sup> , 11 kV, XLPE Armoured Aluminum cable		Km	16					
1.3	3-Core, 150 mm <sup>2</sup> , 11 kV, XLPE Armoured Aluminum cable		Km	4					
2	11kV XLPE Insulated AAA Conductor								
2.1	1-Core, 100 mm <sup>2</sup> 11kV XLPE Insulated AAA Conductor including Tension/Dead End Assembly, Suspension Assembly, Insulation Piercing Connectors, Tension Joints and other accessories as required as per TS		Km	30					
3	LT Cables along with necessary termination kit and accessories per Technical Specification								
3.1	LT XLPE Cable, Single Core, 630 mm <sup>2</sup> , Aluminum Cable		Km	1.6					
3.2	LT XLPE Armoured 3.5 Core, 300 mm <sup>2</sup> Aluminum Cable		Km	40					
3.3	LT XLPE Armoured 3.5 Core, 185 mm <sup>2</sup> Aluminum Cable		Km	40					
4	LT AB Cables along with Tension/Dead End Assembly, Suspension Assembly, Connectors and other accessories (as per Technical Specification)								
4.1	120 mm <sup>2</sup> cable (3*120+1*95+1*16 sq.mm)		Km	10					
4.2	95 mm <sup>2</sup> cable (3*95+1*95+1*16 sq.mm)		Km	10					



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1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10
<b>C</b>	<b>GO Switch with accessories</b>								
1.1	11 kV 400 Amps. GO Switch complete with handle, pipe & Supporting Channel complete.		Set	10					
1.2	Motor & other control arrangement for remote and local operation with all accessories		Set	10					
1.3	Communication arrangement (MPLS-TP equipment) along with FRTU and Power Supply (AC/DC) system suitable for integration with SCADA system		Set	10					
<b>D</b>	<b>Distribution Transformers as per Technical Specification</b>								
1	<b>3-PHASE DISTRIBUTION TRANSFORMERS</b>								
1.1	300 kVA		Nos.	50					
1.2	200 kVA		Nos.	25					
2	<b>11kV 3 phase Dropout fuse set with all accessories</b>		Set	75					
<b>E</b>	<b>9 kV LA (3 Nos. in 1 Set) set with all accessories</b>		Set	25					
<b>F</b>	<b>RMU ( Ring Main Units) including MS Galvanized Steel Supporting Base Structures</b>								
1	Outdoor type 11 KV SF6 type extensible and motorized 5 way smart Ring Main Unit (RMU) complete with two VCB and three LBS with FPI		Set	5					
2	Outdoor type 11 KV SF6 type extensible and motorized 4 way smart Ring Main Unit (RMU) complete with two VCB and two LBS with FPI		Set	5					
3	Outdoor type 11 KV SF6 type extensible and motorized 3 way smart Ring Main Unit (RMU) complete with two VCB and one LBS with FPI		Set	10					
4	Outdoor type 11 KV SF6 type extensible and motorized 3 way smart Ring Main Unit (RMU) complete with all one VCB and 2 LBS with FPI		Set	10					
5	Outdoor type 11 KV SF6 type extensible and motorized one way smart Ring Main Unit (RMU) complete with LBS and with FPI		Set	5					
6	Feeder Remote Terminal Unit suitable for above types of RMUs		Set	30					



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1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10
<b>G</b>	<b>LT Feeder Pillar including MS Galvanized Steel Supporting Base Structure</b>								
1	5- way Distribution feeder pillar with 1 no ACB, 4 pole, 3phase, 415v, 800 Amps for incoming and 4 nos outgoing MCCBs (200A, 300A, 300A, 400A) 4 pole, 3phase, 415v, metering arrangement on incomer suitable for outdoor installation, in accordance with Technical Specification (TYPE A)		Set	5					
2	5- way Distribution feeder pillar with 1 no ACB , 4 pole, 3phase, 415v, 600 Amps for incoming and 4 nos outgoing MCCBs (200A, 200A, 300A, 300A) 4 pole, 3phase, 415v, metering arrangement on incomer suitable for outdoor installation, in accordance with Technical Specification, (TYPE B)		Set	5					
3	5- way Distribution feeder pillar with 1 no ACB , 4 pole, 3phase, 415v , 800 Amps for incoming and 4 nos outgoing MCCBs (200A, 200A, 300A, 300A) 4 pole, 3phase, 415v , metering arrangement on incomer suitable for outdoor installation , in accordance with Technical Specification. (TYPE C)		Set	25					
4	6- way Distribution feeder pillar with 1 no MCCB , 4 pole, 3phase, 415 v, 500 Amps for incoming and 5 nos outgoing MCCBs 4 pole, 3phase, 415 v, 200 Amps rating each, along with LT CTs and Multifunction Meter for Metering arrangement, suitable for outdoor installation in accordance with Technical Specification. (TYPE D1)		Set	30					
5	6- way Distribution feeder pillar with 1 no MCCB , 4 pole, 3phase, 415 v, 400 Amps for incoming and 5 nos outgoing MCCBs 4 pole, 3phase, 415 v, 200 Amps rating each, along with LT CTs and Multifunction Meter for Metering arrangement, suitable for outdoor installation in accordance with Technical Specification. (TYPE D2)		Set	30					
6	5- way Distribution feeder pillar with 5 nos outgoing MCCB 4 pole, 3phase, 415 v, 200 Amps rating each, suitable for outdoor installation in accordance with Technical Specification. (TYPE D3)		Set	40					
7	3 phase, 4 Pole, 415 v, Distribution Service Pillar for LT, 150 Amps incoming MCCB; 1 no. with busbars for upto 30 connection distribution service pillar suitable for outdoor installation, in accordance with Technical Specification. (TYPE E)		Set	300					



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<b>H</b>	<b>Optical Fiber</b>								
(i)	<b>BOQ of UGFO Cabling</b>								
1	Unarmoured Underground Fiber Optic Cable, DWSM								
1.1	(a) 96-Fibers		Km	50					
1.2	(a) 24-Fibers		Km	5					
2	Joint Box for UGFO								
2.1	96 Fibers		Set	25					
2.2	24 Fibers		Set	3					
(ii)	<b>BOQ of ADSS Cabling</b>								
1	<b>DWSM ADSS Fiber Optic Cable</b>								
1.1	96 Fibers		Km	12					
1.2	24 Fibers		Km	1.2					
2	Installation Hardware set for above 96F ADSS Fibre Optic cabling including all cable fittings & accessories except joint box (One set of installation hardware shall contain all installation hardware fittings as may be required for 1 km of Aerial/ Approach Fibre Optic cabling. (details of HW fittings as per Technical Specifications))		Set	12					
3	Installation Hardware set for above 24F ADSS Fibre Optic cabling including all cable fittings & accessories except joint box (One set of installation hardware shall contain all installation hardware fittings as may be required for 1 km of Aerial/ Approach Fibre Optic cabling. (details of HW fittings as per Technical Specifications))		Set	2					
4	<b>Joint Box for ADSS Fiber Optic</b>								
4.1	96 Fibers		Set	6					
4.2	24 Fibers		Set	1					
(iii)	<b>FODP &amp; FMS with Splicing &amp; Patching Trays, FCPC coupling and pig tails (5 mtrs each), Patch Chords as per Site Requirement</b>								
1	Cabinet for FODP (2200x600x600mm)		Nos.	3					
2	FODP Sub Rack (24F), 1U		No.	1					
3	FODP Sub Rack (48F), 2U		Nos.	10					
4	FMS Wall mount - 24F		No.	1					
5	FMS Rack mount - 24F		Nos.	3					
6	FMS Wall mount - 96F		Nos.	7					



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7	FMS Rack mount - 96F		No.	11					
8	FMS Wall mount - 144F		No.	1					
9	FMS Rack mount - 144F		Nos.	15					
10	FMS Ground mount (Outdoor) - 96F		No.	1					
11	FMS Ground mount (Outdoor)- 144F		No.	1					
(iv)	TEST EQUIPMENT								
1	OTDR (Optical Time Domain Reflectometer) for 1310/1550 nm with laser source.		No.	1					
2	Optical Attenuators (variable 1310/1550nm).		No.	1					
3	Optical Power meter (1310/1550nm) with Laser Source.		No.	1					
4	Laser Light Source (1310 /1550 nm).		No.	1					
5	Optical Fibre Fusion Splicer incl. Fibre cleaver		No.	1					
6	Splice kit		No.	1					
7	Optical test accessory kit including all necessary connectors, adaptors, cables, terminations and other items required for testing		No.	1					
(v)	PLB-HDPE (Permanently Lubricated High Density Poly Ethylene) pipe 40 mm. dia pipe for laying optical Fiber Cable.		Km	100					
<b>I</b>	<b>Telecom Equipments</b>								
<b>1</b>	<b>MPLS-TP Hybrid Equipment (1G upto 5 MSP protected directions)</b>								
(i)	Base Equipment (Common cards, switch fabric/control cards, optical base cards, power supply cards, power cabling, other hardware and accessories including sub racks, patch cord etc fully equipped excluding (ii) below)		Set	2					
(ii)	<b>Optical Interface Cards/SFP#</b>								
a	Gigabit Ethernet SFP, SM 1550nm , 60 KM		Nos.	8					
b	Gigabit Ethernet SFP, SM 1550nm , 30 KM		Nos.	4					
(iii)	<b>Equipment Cabinet</b>		Nos.	2					
<b>2</b>	<b>1 RU (Rack Unit) MPLS-TP Equipment (1G upto 4 protected directions)</b>								
(i)	1 RU MPLS-TP Base Equipment Equipped with 8X1G MPLS-TP Interface with integrated switch engine and Redundant AC Power Supply cards along with Common cards, switch fabric/control cards, power cabling, other hardware & accessories including sub-racks, patch cords, fully equipped excluding (ii) below		Set	40					





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(ii)	<b>Optical Interface Cards/SFP#</b>								
a	Gigabit Ethernet SFP, SM 1550nm, 30 KM		Nos.	80					
3	<b>Auxiliary Power Supply Equipments</b>								
(i)	<b>SMPS based 48V DC Power Supply (DCPS) system</b>								
a	25 A		No.	1					
(ii)	<b>VRLA type Battery bank for above DCPS system</b>								
a	25 A, 300 AH		No.	1					
4	<b>Network Management System</b>								
(i)	<b>Network Manager &amp; Element Manager System</b>								
a	Hardware		Set	1					
b	Printer (Laser Jet)		No.	1					
(ii)	<b>TMN for Craft Terminal (NMS)</b>								
a	Hardware		Set	2					
(iii)	Software for Network Manager & Element Manager System and TMN for Craft Terminal (NMS)		Lot	1					
5	<b>Test Equipment</b>								
a	Digital Multimeter		No.	1					
b	Ethernet Tester (with triple port, 10/100/1000 ports Mbps Ethernet option, layer-1 & layer-2 functionality)		No.	1					
J	<b>Pipes</b>								
1.0	HDPE pipe 125 mm dia. (PN6)		Km	80					
2.0	HDPE pipe 160 mm dia. (PN6)		Km	162					
3.0	GI pipe 150mm dia., 5.4mm thick high grade for crossing		Km	1					
K	<b>M.S. Galvanized Items</b>								
1.0	Fabrication and Supply of M.S. Galvanized items- Pole Top Bracket/hamper, Channel/angle, clamps, stay sets complete including wire, D-Strap, structure for mounting of Transformer, MS Flat, various size of angle & channel etc. complete as required for complete scope of work.		MT	10					
1.1	GI Nuts & Bolts with Washers (plain and spring)		MT	0.5					



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L	Interbranch metering units (CT, PT, control cable and other accessories) along with separate enclosure suitable to be mounted on the RMU or Poles.		Set	2					
M	Service Cables (Armored, XLPE and Multi-Stranded) along with Connectors and PVC Pipe as per Technical Specification								
1.1	Service Cable along with connectors, and all accessories required for connection of meter to service pillar (single phase 16 A)		Consumer	3300					
1.2	Service Cable along with connection and all accessories required for connection of meter to service pillar (single phase 30 A)		Consumer	550					
1.3	Service Cable along with connector and all accessories required for connection of meter to service pillar (single phase 60 A)		Consumer	50					
1.4	Service Cable along with connector and all accessories required for connection of meter to service pillar (3 phase phase upto 25 kVA)		Consumer	600					
1.5	Service Cable along with connector and all accessories required for connection of meter to service pillar (3 phase phase 25 to 50 kVA)		Consumer	440					
N	Testing & Maintenance Equipment								
1.0	Cable Fault Locator Equipment as per Technical Specification		Set	1					
	Sub-Total Part-A								
	Part-B: CONTRACTOR ASSESSED QUANTITIES FOR POKHARA								
1	Erection Hardware and Insulators								
1.1	Bus-bar materials, cable clamps, spacers, connectors, junction box, all accessories etc. for underground cables and distribution transformers.		LS	1					
1.2	Insulators (Disc, Pin and Stay Insulator type) with their fittings for DTs, intermediate poles and other places wherever required.		LS	1					
1.3	Earthing								
1.3.1	Rod Earthing along with PVC insulated wire with cable lugs		LS	1					



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1.3.2	Earthing with GI Flat Strip 25x6 mm		LS	1					
1.3.3	Cable earthing		LS	1					
2	Danger Plate Enameled		LS	1					
3	Number Plate Enameled		LS	1					
4	HT & LT Cable Route Marker and Straight Joint marker (MS and painted)		LS	1					
	<b>Sub-Total Part-B</b>								
	<b>Part-C: Mandatory Spares</b>								
<b>A</b>	<b>HT Cables as per Technical Specification</b>								
1	3-Core, 400 mm <sup>2</sup> 11 kV XLPE Armoured Aluminum Cable		Km	1					
2	3-Core 300 mm <sup>2</sup> 11 kV XLPE Armoured Aluminum Cable		Km	0.5					
3	3-Core 150 mm <sup>2</sup> 11 kV XLPE Armoured Aluminum Cable		Km	0.5					
<b>B</b>	<b>XLPE Insulated Covered AAA Conductor as per Technical Specification</b>								
1	1-Core 100 mm <sup>2</sup>		Km	1					
<b>C</b>	<b>LT Cables as per Technical Specification</b>								
1	LT XLPE Cable Single Core 630 sq. mm. Aluminum Cable		Km	0.2					
2	LT XLPE Armoured 3.5 Core, 300 sq.mm. Aluminum Cable		Km	1					
3	LT XLPE Armoured 3.5 Core, 185 sq.mm. Aluminum Cable		Km	1					
<b>D</b>	<b>LT AB Cables as per Technical Specification</b>								
1	120 mm <sup>2</sup> cable (3*120+1*95+1*16 sq.mm)		Km	1					



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<b>E</b>	<b>Mandatory Spare List for RMU</b>								
1.0	VCB of each rating and each make		Nos	2					
2.0	LBS of each rating and each make		Nos	2					
3.0	Starters, contactors, switches & relays for electrical control panels (One set of each type)		Lot	1					
4.0	Overcurrent and earthfault relay		Set	2					
5.0	Power supply unit		Set	2					
<b>F</b>	<b>Spare for Gang Operated (GO) Switch</b>								
1	Complete pole of each type & rating complete with operating mechanism		Nos.	2					
2	Opening coil assembly as applicable		Sets	4					
3	Closing coil assembly as applicable .		Sets	4					
4	Auxiliary switch assembly of each type		Lot	1					
<b>G</b>	<b>Spares for LT Feeder Pillars</b>								
1	Complete set of Air circuit breaker of each rating and each make		Sets	3					
2	MCCB of each type and rating and each make		Lot	4					
<b>H</b>	<b>HT &amp; LT Cable Route Marker and Straight Joint marker 5% of used Number for Pokhara and Bharatpur</b>		LS	1					
<b>I</b>	<b>Spares for Fibre Optics &amp; Communication devices</b>								
<b>(i)</b>	<b>Mandatory Spares for UGFO</b>								
1	Unarmoured Underground Optical Fiber Cable - 96 Fibers DWSM		km	0.5					
2	Joint Box for UGFO - 96 Fibers		Nos.	2					
3	Unarmoured Underground Optical Fibre Cable - 24 Fibers , DWSM		Km	0.25					
4	Joint Box for UGFO - 24 Fibers		Nos.	2					



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**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**

**BID PRICE SCHEDULE**

Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

FC: Foreign Currency

Schedule No.1: Plant and Equipment including Mandatory Spares to be supplied from abroad ( For Pokhara)

LC: Local Currency

Item No.	Item description	Country of origin	Estimated		CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal)			Total Amount (Excluding Taxes and Duties)	Custom, VAT and other taxes
			Unit	Quantity	FC			FC	LC
					Currency#	Unit Rate	Amount		
1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10
(ii)	<b>Mandatory Spares for ADSS Cabling</b>								
1	96F (DWSM) ADSS Fibre Optic Cable including all cable fittings & accessories except joint box		Km.	0.5					
2	Installation Hardware set for above 96F ADSS Fibre Optic cabling including all cable fittings & accessories except joint box (One set of installation hardware shall contain all installation hardware fittings as may be required for 1 km of Aerial/ Approach Fibre Optic cabling. (details of HW fittings as per Technical Specifications)		Set	1					
3	Joint Box for ADSS -96 fibres		Nos.	2					
4	24F (DWSM) ADSS Fibre Optic Cable including all cable fittings & accessories except joint box		Km.	0.25					
5	Installation Hardware set for above 24F ADSS Fibre Optic cabling including all cable fittings & accessories except joint box (One set of installation hardware shall contain all installation hardware fittings as may be required for 1 km of Aerial/ Approach Fibre Optic cabling. (details of HW fittings as per Technical Specifications)		Set	1					
6	Joint Box for ADSS -24 fibres		Nos.	2					
(iii)	<b>MPLS-TP Hybrid Equipment (1G upto 5 MSP protected directions)</b>								
	Base Equipment (Common cards, switch fabric/control cards, optical base cards, power supply cards, power cabling, other hardware and accessories including sub racks, patch cord etc fully equipped excluding (ii) below)		Set	1					
a	<b>Optical Interface Cards/SFP#</b>								
1	Gigabit Ethernet SFP, SM 1550nm, 60 KM		Nos.	2					
2	Gigabit Ethernet SFP, SM 1550nm, 30 KM		Nos.	3					
(iv)	<b>1 RU (Rack Unit) MPLS-TP Equipment (1G upto 4 protected directions)</b>								
	1 RU MPLS-TP Base Equipment Equipped with 8X1G MPLS-TP Interface with integrated switch engine and Redundant AC Power Supply cards along with Common cards, switch fabric/control cards, power cabling, other hardware & accessories including sub-racks, patch cords, fully equipped excluding (ii) below)		Set	2					



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**BID PRICE SCHEDULE**

**Power Transmission and Distribution System Strengthening Project (PTDSSP)**

**PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation**

**FC: Foreign Currency**

**Schedule No.1: Plant and Equipment including Mandatory Spares to be supplied from abroad ( For Pokhara)**

**LC: Local Currency**

Item No.	Item description	Country of origin	Estimated		CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal)			Total Amount (Excluding Taxes and Duties)	Custom, VAT and other taxes
			Unit	Quantity	FC			FC	LC
					Currency#	Unit Rate	Amount		
1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10
<b>a</b>	<b>Optical Interface Cards/SFP#</b>								
1	Gigabit Ethernet SFP, SM 1550nm, 30 KM		Nos.	4					
<b>(v)</b>	<b>Mandatory Spares for Auxiliary Power Supply Equipments</b>								
a	MCCB/MCB-2P/ Contactor/ Timer/ Relay of each type & rating (as applicable)		Set	1					
b	Single Pole MCBs (for outgoing DC Feeders)		Nos.	1					
c	Electronic Printed Circuit Board / Card of each type (all cards/module including SMPS Module, DC Power Supply Controller, various interface cards etc.)		Set	1					
<b>(vi)</b>	<b>FRTUs of used type, 5% each type</b>		LS	1					
<b>J</b>	Connector and Clamps 5% of used quantity		LS	1					
	<b>Sub-Total Part-C</b>								
	<b>Total For PART 1 DC [(Part-A+ Part-B+ Part C)]</b>								
	<b>Total for Schedule 1 ( Total of column 9 to be carried forward to Schdule 5: Grand Summary)</b>								

Note : 1.) Bidder is required to quote prices in this Schedule for all the individual items/sub-items.

2.) The Prices of equipments are inclusive of type test charges.

3.) BOQ given above is indicative only based on the scope of work as given in Employer's Requirements. The quantities mentioned above may undergo change during detailed engineering to meet the functional requirement and scope of work defined in Employer's Requirements.

4.) The bidders are required to quote their price including all taxes and duties applicable in their country / Country of origin, & all business taxes, income taxes (TDS etc) applicable in Nepal. The quoted price shall be exclusive of taxes and duties applicable in Nepal like Custom, VAT etc.

# Specify currency in accordance with ITB 19.1 of the BDS.

\* Strike-out whichever is not applicable.

**Name of Bidder:**

**Date:**

**Signature of Bidder:**

**(Printed Name)**

**(Designation)**

**(Common Seal)**



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Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

Schedule No. 2: Plant and Equipment including Mandatory Spares Parts to be supplied from within Nepal (For Pokhara)

LC: Local Currency (All Price in Local Currency)

Item No.	Item description	Unit	Quantity	Ex Factory Price (Excluding VAT) in LC		Inland transportation to site in LC		Total Amount (Excluding Taxes )	Custom, VAT and other taxes
				Unit Rate	Amount	Unit Rate	Amount		
1	2	3	4	5	6 = (4) x (5)	7	8=(4)x(7)	9=6+8	10
<b>PART 1</b>									
	<b>Part-A : EMPLOYER ASSESSED QUANTITIES</b>								
	<b>Part-B: CONTRACTOR ASSESSED QUANTITIES</b>								
	<b>Part-C: Mandatory Spares</b>								
	<b>Total For PART 1 [(Part-A+ Part-B+ Part C)]</b>								
	<b>Total for Schedule 2 (Total of column 9 to be carried forward to Schdule 5: Grand Summary)</b>								

Note : 1) Bidder is required to quote prices in this Schedule for all the items in Schedule 1 which they wish to supply from within Nepal.  
2.) The Prices of equipments are inclusive of type test charges

\* Strike-out whichever is not applicable.

<sup>a</sup> Specify currency in accordance with ITB 19.1 of the BDS.

<sup>b</sup> Column 5 Price shall include all customs duties and sales and other taxes already paid or payable on the components and raw materials used in the manufacture or assembly of the item or the customs duties and sales and other taxes already paid on previously imported items.

**Name of Bidder:**  
**Signature of Bidder:**  
**(Printed Name)**  
**(Designation)**  
**(Common Seal)**

**Date:**



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**BID PRICE SCHEDULE**

Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

**Schedule No. 3: Design Services (For Pokhara)**

Item No.	Item Description	Estimated		Unit Prices		Total Prices	
				Local Currency Portion	Foreign Currency Portion		
		Quantity	Unit	LC (NRs)	FC (Currency)	LC	FC
1	2	3	4	5	6	7=3x5	8=3x6
<b>PART 1</b>							
<b>A</b>	Pre-Construction Survey including detail survey, study and prepare GIS map and reporting of existing network for HT, LT & Consumer connection etc. and complete design of the proposed reinforcement works including underground system, communication, automation, integration with DCC along with loadflow analysis and needful calculations as per scope of this project.	1	LS				
<b>Total for Schedule 3 (Total of column 7 &amp; 8 to be carried forward to Schedule 5: Grand Summary)</b>							

Name of Bidder:  
Signature of Bidder:  
(Printed Name)  
(Designation)  
(Common Seal)

Date:





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Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and

Schedule No. 4: Installation and Other Services (For Pokhara)

(a): Installation and Construction Charges

Sl. No.	Item Description	Installation Charges								
		Country of Origin	Type & Designation	Unit	Qty.	Portion in Foreign Currency			Portion in Nepalese Currency (in NPR)	
						Currency#	Unit Rate	Total Charges	Unit Rate	Total Charges
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(8)x(6)	-10	(11)=(10)x(6)
<b>PART 1</b>										
	<b>Part-A : EMPLOYER ASSESSED QUANTITIES</b>									
<b>A</b>	<b>Poles</b>									
1.0	11m Steel Tubular Pole			Set	150					
2.0	9m Steel Tubular Pole			Set	150					
3.0	Dismantling of HT/ LT PSC/Steel Tubular Poles of different sizes and transportation upto store			Nos	50					
4.0	Dismantling of one circuit HT/ LT ACSR Conductor (different sizes) and all associated accessories and transportation upto store			RKM	5					
5.0	Dismantling of one circuit HT/ LT Overhead ABC Cable (different sizes) and all associated accessories and transportation upto store			RKM	5					
6.0	Dismantling of different sizes Distribution Transformers and transportation upto store or other site location as required			Set	15					
7.0	Shifting of existing single/three phase service cables along with all accessories to the newly reinforced overhead line			Nos	600					
<b>B</b>	<b>Cables</b>									
<b>1</b>	<b>HT Cables along with Straight Jointing Kit, O/D &amp; I/D Termination Kit and other accessories as per TS</b>									
1.1	1-Core 630 mm <sup>2</sup> 33 kV XLPE Armoured Aluminum Cable			Km	0					
1.2	3-Core 400 mm <sup>2</sup> 11 kV XLPE Armoured Aluminum Cable			Km	92					
1.3	3-Core 300 mm <sup>2</sup> 11 kV XLPE Armoured Aluminum Cable			Km	16					
1.4	3-Core 150 mm <sup>2</sup> 11 kV XLPE Armoured Aluminum Cable			Km	4					
<b>2</b>	<b>11kV XLPE Insulated AAA Conductor</b>									
2.1	1-Core, 100 mm <sup>2</sup> 11kV XLPE Insulated AAA Conductor including Tension/Dead End Assembly, Suspension Assembly, Insulation Piercing Connectors, Tension Joints and other accessories as required as per TS			Km	30					
<b>3</b>	<b>LT Cables along with necessary termination kit and accessories per Technical Specification</b>									
3.1	LT XLPE Cable Single Core 630 sq. mm., Aluminum Cable			Km	1.6					
3.2	LT XLPE Armoured 3.5 Core, 300 sq.mm. Aluminum Cable			Km	40					
3.2	LT XLPE Armoured 3.5 Core, 185 sq.mm. Aluminum Cable			Km	40					



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Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and

Schedule No. 4: Installation and Other Services (For Pokhara)

(a): Installation and Construction Charges

Sl. No.	Item Description	Installation Charges								
		Country of Origin	Type & Designation	Unit	Qty.	Portion in Foreign Currency			Portion in Nepalese Currency (in NPR)	
						Currency#	Unit Rate	Total Charges	Unit Rate	Total Charges
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(8)x(6)	-10	(11)=(10)x(6)
<b>4</b>	<b>LT AB Cables along with Tension/Dead End Assembly, Suspension Assembly, Connectors and other accessories as per TS</b>									
4.1	120 mm <sup>2</sup> cable (3*120+1*95+1*16 sq.mm)			Km	10					
4.2	95 mm <sup>2</sup> cable (3*95+1*95+1*16 sq.mm)			Km	10					
<b>C</b>	<b>GO Switch with accessories</b>									
1	11 KV 400 Amps. GO Switch complete with handle, pipe & Supporting Channel complete.			Set	10					
2	Motor & other control arrangement for remote and local operation with all accessories			Set	10					
3	Communication arrangement along with FRTU and Power Supply (AC/DC) system suitable for integration with SCADA system			Set	10					
<b>D</b>	<b>Distribution Transformer</b>									
1	Intallation of 3-Phase different sizes distribution transformers (new and existing) as per technical specification			Set	90					
<b>E</b>	<b>9 kV LA (3 Nos. in 1 Set) set with all accessories</b>			Set	25					
<b>F</b>	<b>RMU ( Ring Main Units) including MS Galvanized Steel Supporting Base Structures</b>									
1	Outdoor type 11 KV SF6 type non extensible and motorized 5 way smart Ring Main Unit (RMU) complete with two VCB and three LBS with FPI			Set	5					
2	Outdoor type 11 KV SF6 type extensible and motorized 4 way smart Ring Main Unit (RMU) complete with two VCB and two LBS with FPI			Set	5					
3	Outdoor type 11 KV SF6 type extensible and motorized 3 way smart Ring Main Unit (RMU) complete with two VCB and one LBS with FPI			Set	10					
4	Outdoor type 11 KV SF6 type extensible and motorized 3 way smart Ring Main Unit (RMU) complete with all one VCB and 2 LBS with FPI			Set	10					
5	Outdoor type 11 KV SF6 type extensible and motorized one way smart Ring Main Unit (RMU) complete with LB and with FPI			Set	5					
6	Feeder Remote Terminal Unit suitable for above types of RMUs			Set	30					



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Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and

Schedule No. 4: Installation and Other Services (For Pokhara)

(a): Installation and Construction Charges

Sl. No.	Item Description	Installation Charges								
		Country of Origin	Type & Designation	Unit	Qty.	Portion in Foreign Currency			Portion in Nepalese Currency (in NPR)	
						Currency#	Unit Rate	Total Charges	Unit Rate	Total Charges
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(8)x(6)	-10	(11)=(10)x(6)
<b>G</b>	<b>LT Feeder Pillar including MS Galvanized Steel Supporting Base Structure</b>									
1	5- way Distribution feeder pillar with 1 no ACB, 4 pole, 3phase, 415v, 800 Amps for incoming and 4 nos outgoing MCCBs (200A, 300A, 300A, 400A) 4 pole, 3phase, 415v, metering arrangement on incomer suitable for outdoor installation, in accordance with Technical Specification (TYPE A)			Set	5					
2	5- way Distribution feeder pillar with 1 no ACB , 4 pole, 3phase, 415v, 600 Amps for incoming and 3 nos outgoing MCCBs (200A, 200A, 300A, 300A) 4 pole, 3phase, 415v, metering arrangement on incomer suitable for outdoor installation, in accordance with Technical Specification (TYPE B)			Set	5					
3	5- way Distribution feeder pillar with 1 no ACB , 4 pole, 3phase, 415v , 800 Amps for incoming and 4 nos outgoing MCCBs (200A, 200A, 300A, 300A) 4 pole, 3phase, 415v , metering arrangement on incomer suitable for outdoor installation , in accordance with Technical Specification. (TYPE C)			Set	25					
4	6- way Distribution feeder pillar with 1 no MCCB , 4 pole, 3phase, 415 v, 500 Amps for incoming and 5 nos outgoing MCCBs 4 pole, 3phase, 415 v, 200 Amps rating each, along with LT CTs and Multifunction Meter for Metering arrangement, suitable for outdoor installation in accordance with Technical Specification. (TYPE D1)			Set	30					
5	6- way Distribution feeder pillar with 1 no MCCB , 4 pole, 3phase, 415 v, 400 Amps for incoming and 5 nos outgoing MCCBs 4 pole, 3phase, 415 v, 200 Amps rating each, along with LT CTs and Multifunction Meter for Metering arrangement, suitable for outdoor installation in accordance with Technical Specification. (TYPE D2)			Set	30					
6	5- way Distribution feeder pillar with 5 nos outgoing MCCB 4 pole, 3phase, 415 v, 200 Amps rating each, suitable for outdoor installation in accordance with Technical Specification. (TYPE D3)			Set	40					
7	3 phase, 4 Pole, 415 v, Distribution Service Pillar for LT, 150 Amps incoming MCCB; 1 no. with busbars for upto 30 connection distribution service pillar suitable for outdoor installation, in accordance with Technical Specification. (TYPE E)			Set	300					



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Power Transmission and Distribution System Strengthening Project (PTDSSP)

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Schedule No. 4: Installation and Other Services (For Pokhara)

(a): Installation and Construction Charges

Sl. No.	Item Description	Installation Charges								
		Country of Origin	Type & Designation	Unit	Qty.	Portion in Foreign Currency			Portion in Nepalese Currency (in NPR)	
						Currency#	Unit Rate	Total Charges	Unit Rate	Total Charges
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(8)x(6)	-10	(11)=(10)x(6)
<b>H</b>	<b>Optical Fiber</b>									
<b>(i)</b>	<b>UGFO Cable Installation</b>									
1	Laying of Unarmoured Underground Optical Fibre Cable - 96 Fibers DWSM			km	50					
2	Laying of Unarmoured Underground Optical Fibre Cable - 24 Fibers DWSM			km	5					
3	Installation of Joint box (including splicing & testing) - 96 Fibers			Set	25					
4	Installation of Joint box (including splicing & testing) - 24 Fibers			Set	3					
<b>(ii)</b>	<b>DWSM, ADSS Fiber Installation</b>									
1	Installation of 96-Fibres, DWSM, ADSS Fibre Optic Cable including all hardware fittings & accessories except joint box			KM	12					
2	Installation of 24-Fibres, DWSM, ADSS Fibre Optic Cable including all hardware fittings & accessories except joint box			KM	1.2					
3	Installation of Joint box for 96-fibres, ADSS fibre optic cable			Set	6					
4	Installation of Joint box for 24-fibres, ADSS fibre optic cable			Set	1					
<b>(iii)</b>	<b>FODP &amp; FMS Installation with splicing and Patching trays, FCPC coupling and pig tails (5mtrs each), patch chords as per site requirement</b>									
1	Cabinet for FODP (2200x600x600mm)			Nos.	3					
2	FODP Sub Rack (24F), 1U			No.	1					
3	FODP Sub Rack (48F), 2U			Nos.	10					
4	FMS Wall mount - 24F			No.	1					
5	FMS Rack mount - 24F			Nos.	3					
6	FMS Wall mount - 96F			Nos.	7					
7	FMS Rack mount - 96F			Nos.	11					
8	FMS Wall mount - 144F			No.	1					
9	FMS Rack mount - 144F			Nos.	15					
10	FMS Ground mount (Outdoor) - 96F			No.	1					
11	FMS Ground mount (Outdoor)- 144F			No.	1					
<b>(iv)</b>	<b>PLB-HDPE (Permanently Lubricated High Density Poly Ethylene) pipe 40 mm. dia pipe for laying optical Fiber Cable.</b>			KM	100					
<b>I</b>	<b>Installation and testing of Telecom Equipment and Annual Maintenance Charge</b>									
1	Installation and Testing of MPLS-TP equipment (1G upto 5 Protected directions) and associated accessories			Nos.	2					



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Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and

Schedule No. 4: Installation and Other Services (For Pokhara)

(a): Installation and Construction Charges

Sl. No.	Item Description	Installation Charges								
		Country of Origin	Type & Designation	Unit	Qty.	Portion in Foreign Currency			Portion in Nepalese Currency (in NPR)	
						Currency#	Unit Rate	Total Charges	Unit Rate	Total Charges
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(8)x(6)	-10	(11)=(10)x(6)
2	Installation and Testing of Power Supply Unit and Battery			No	1					
3	Installation and Testing of Network Manager & Element Manager System			Set	1					
4	Annual Maintenance Charges for Communication Equipment package system for One (1) year after Service Level Agreement (SLA)			Lot	1					
<b>J</b>	<b>Laying of HDPE/GI Pipes in Open Trench / above ground</b>									
1	HDPE pipe 125 mm dia (PN6)			Km	24					
2	HDPE pipe 160 mm dia (PN6)			Km	49					
3	GI pipe 150mm dia, 5.4mm thick for crossing			Km	1					
<b>K</b>	<b>M.S. Galvanized Items along with GI Nuts &amp; Bolts/Washers (plain and spring)</b>									
1.0	Fabrication and Supply of M.S. Galvanized items- Pole Top Bracket/hamper, Channel/angle, clamps, stay sets complete including wire, D-Strap, structure for mounting of Transformer, MS Flat, various size of angle & channel, nut-bolts with washers etc. complete as required for complete scope of work.			MT	10.5					
<b>L</b>	<b>Interbranch metering units (CT, PT, control cable and other accessories) along with separate enclosure suitable to be mounted on the RMU or Poles.</b>			Set	2					
<b>M</b>	<b>Service Cables (Armored, XLPE and Multi-Stranded) along with Connectors and PVC Pipe as per Technical Specification</b>									
1.1	Service Cable along with connectors, and all accessories required for connection of meter to service pillar (single phase 16 A)			Consumer	3300					
1.2	Service Cable along with connection and all accessories required for connection of meter to service pillar (single phase 30 A)			Consumer	550					
1.3	Service Cable along with connector and all accessories required for connection of meter to service pillar (single phase 60 A)			Consumer	50					
1.4	Service Cable along with connector and all accessories required for connection of meter to service pillar (3 phase phase upto 25 kVA)			Consumer	600					
1.5	Service Cable along with connector and all accessories required for connection of meter to service pillar (3 phase phase 25 to 50 kVA)			Consumer	440					
	<b>Sub-Total Part-A</b>									



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Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and

Schedule No. 4: Installation and Other Services (For Pokhara)

(a): Installation and Construction Charges

Sl. No.	Item Description	Installation Charges								
		Country of Origin	Type & Designation	Unit	Qty.	Portion in Foreign Currency			Portion in Nepalese Currency (in NPR)	
						Currency#	Unit Rate	Total Charges	Unit Rate	Total Charges
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(8)x(6)	-10	(11)=(10)x(6)
	<b>Part-B: CONTRACTOR ASSESSED QUANTITIES FOR POKHARA</b>									
<b>1</b>	<b>Erection Hardware</b>									
1.1	Bus-bar materials, cable clamps, spacers, connectors, junction box, all accessories etc. for underground cables and distribution transformers.			LS	1					
1.2	Earthing									
1.2.1	Rod Earthing along with PVC insulated wire with cable lugs			LS	1					
1.2.2	Earthing with GI Flat Strip 25x6 mm			LS	1					
1.2.3	Cable earthing			LS	1					
<b>2</b>	<b>Danger Plate Enameled</b>			LS	1					
<b>3</b>	<b>Number Plate Enameled</b>			LS	1					
<b>4</b>	<b>HT &amp; LT Cable Route Marker and Straight Joint marker (MS and Painted)</b>			LS	1					
	<b>Sub-Total Part-B</b>									
	<b>PART-C: Civil Works (As per technical specification)</b>									
<b>1</b>	Excavation in all types of soil and rock including backfilling disposal etc. for all leads and lifts			Cu.Mtr.	3600					
<b>2</b>	Providing and laying of Plain Cement Concrete (PCC) (1:3:6)			Cu. Mtr.	210					
<b>3</b>	Providing and laying of Plain Cement Concrete (PCC) (1:2:4) including formwork			Cu.Mtr.	210					
<b>4</b>	Providing and laying of Reinforced Cement Concrete Nominal Mix (1:1.5:3) including pre-cast, grouting of pockets, underpinning and formwork but excluding steel reinforcement.			Cu.Mtr.	1680					



**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**  
**BID PRICE SCHEDULE**

Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and

Schedule No. 4: Installation and Other Services (For Pokhara)

(a): Installation and Construction Charges

Sl. No.	Item Description	Installation Charges								
		Country of Origin	Type & Designation	Unit	Qty.	Portion in Foreign Currency			Portion in Nepalese Currency (in NPR)	
						Currency#	Unit Rate	Total Charges	Unit Rate	Total Charges
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(8)x(6)	-10	(11)=(10)x(6)
5	Steel Reinforcement (Fe 500)			MT	51					
6	Black topping as per Technical Specification of Road Department and/or Pokhara/Bharatpur Metropolitan City			Sq. Mtr.	14400					
7	Miscellaneous Structural steel used for rails, plates for rail fixing, gratings, gratings supports etc for transformer foundation, cable supports and earthing cleats, chequered plates, embedments, edge protection angles for cable trenches but excluding the reinforcement steel and steel for lattice and pipe structures which shall be paid seperately.			MT	0.5					
8	Local Sand filling around and under Foundation and for backfilling of cable and pit as applicable.			Cu. Mtr.	3600					
9	Stone soling below foundations wherever specified in approved drawings during detailed engineering			Cu. Mtr.	120					
10	Geotechnical /Soil Investigation as per technical specification			Nos.	18					
11	Trenchless laying of HDPE pipe with Horizontal Directional Drilling (HDD)									
11.1	125 mm HDPE (PN6)			km	56					
11.2	160 mm HDPE (PN6)			km	113					
12	First class Brickwork in (1:4) cement sand mortar with approved quality bricks in perfect line & level including wetting the bricks, properly packing the joints & curing the works with all complete as per instruction of Site Incharge/Engineer on the basis of drawings, specification etc.			Cu. Mtr.	30					
13	12.5 mm thick cement sand plaster of mix 1:4 cement sand in wall etc. including mixing mortars, applying required plaster in line level and plumb and finishing in regular even, smoothen surface including including ranking the joints, cleaning, wetting the surface, curing the works and scaffolding etc all complete as per specification & instruction.			Sq. Mtr.	600					



**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**  
**BID PRICE SCHEDULE**

Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and

Schedule No. 4: Installation and Other Services (For Pokhara)

(a): Installation and Construction Charges

Sl. No.	Item Description	Installation Charges								
		Country of Origin	Type & Designation	Unit	Qty.	Portion in Foreign Currency			Portion in Nepalese Currency (in NPR)	
						Currency#	Unit Rate	Total Charges	Unit Rate	Total Charges
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(8)x(6)	-10	(11)=(10)x(6)
14	RCC Manholes (supply & Installation)									
14.1	For Joint locations as per technical specification			no.	3					
14.2	For providing Service loops at crossings as per technical specification			no.	3					
15	Brick walled Manholes (supply & Installation)									
15.1	For Joint locations as per technical specification			no.	3					
15.2	For providing Service loops at crossings as per technical specification			no.	3					
16	First class local chimney made Flat Brick Soling with sand in foundation and in trench wherever necessary laid in line & level including filling in the joints with sand all complete.			Sq. Mtr.	600					
	<b>Sub-Total Part-C</b>									
	<b>Total For PART 1 [(Part-A+ Part-B+ Part C)]</b>									
	<b>Total for Schedule 4 (Total of column 9 and 11 to be carried forward to Schedule 5: Grand Summary)</b>									

# Specify currency in accordance with ITB 19.1 of the BDS.

Name of Bidder:  
Signature of Bidder:  
(Printed Name)  
(Designation)  
(Common Seal)

Date:





**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**  
**BID PRICE SCHEDULE**

**Power Transmission and Distribution System Strengthening Project (PTDSSP)**

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

**Schedule No. 4 : Installation and Other Services (Common for Pokhara and Bharatpur)**

**(b): Training Charges for training to be imparted to Employer's Personnel by Bidder's Instructor in Nepal**

Sl. No.	Description of the Test	Item for which training is to be imparted.	Training duration in days	Training Charges for Contractors Trainers		
				Currency	Unit rate	Total Training Charges
1	2	3	4	5	6	7 = 4x6
a)	Training on operation, maintenance and testing & commissioning aspect at each substation as per section project, Technical Specification	i) XLPE cable laying and termination	5			
		ii) XLPE Covered AAA conductor and AB Cable stringing and Termination.	5			
		iii) Fault locator equipment and fault location	7			
		iv) Feeder management	5			
		v) Equipment maintenance	5			
		vi) Training on MPLS equipment, MUX Equipment & NMS	5			
	<b>Total for Training Charges ( Total of column 7 to be carried forward to Schedule 5: Grand Summary)</b>					-

**REMARKS:**

1. On Job Training in Nepal: The traveling and living expenses of Owner's personnel for the training programme conducted in Nepal shall be borne by the Owner.

Note: To and fro charges, accommodation and training fees for the Instructor (Trainer) and training material for the trainees shall be included in the prices quoted by the bidder.

**Name of Bidder:**  
**Signature of Bidder:**  
**(Printed Name)**  
**(Designation)**  
**(Common Seal)**

**Date:**



**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**  
**BID PRICE SCHEDULE**

Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

Schedule No. 4: Installation and Other Services (Common for Pokhara and Bharatpur)

(c) Routine Test Charges for Tests to be conducted at independent lab to verify quality of goods after delivery of goods

Sl. No.	Description of Tests	Testing Location	TEST CHARGES	
			Currency #	Amount
1	2	3	4	5
	<b>11kV XLPE Cable</b>			
1	Complete routine test - Sample testing			
	<b>11kV XLPE AAAC covered conductor</b>			
1	Complete routine test - Sample testing			
	<b>LT XLPE Cable</b>			
1	Complete routine test - Sample testing			
	<b>LT AB Cable</b>			
1	Complete routine test - Sample testing			
	<b>PLB-HDPE &amp; HDPE Pipe</b>			
1	Complete routine test - Sample testing			
	<b>Optical Fiber</b>			
1	Complete routine test - Sample testing			
	<b>Total of Tests charges (Total of column 5 to be carried forward to Schedule 5: Grand Summary)</b>			

Name of Bidder:  
Signature of Bidder:  
(Printed Name)  
(Designation)  
(Common Seal)

Date:



**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**  
**BID PRICE SCHEDULE**

**Power Transmission and Distribution System Strengthening Project (PTDSSP)**

**PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation**

**Schedule No. 4: Installation and Other Services (*For Pokhara*)**

**(d) Social Safeguard and Environment Management Activities (as per clause 13 of Chap 1 PSR)**

Sl. No.	Description	Locations	Social Safeguard and Environment Management Activities Charges	
			Currency #	Amount
1	2	3	4	5
1	Social Safeguard and Environment Management Activities			
	<b>Total of Social Safeguard &amp; Environment Management Activities Charges (Total of column 5 to be carried forward to Schedule 5: Grand Summary)</b>			

**Name of Bidder:**  
**Signature of Bidder:**  
 (Printed Name)  
 (Designation)  
 (Common Seal)

**Date:**



**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**  
**BID PRICE SCHEDULE**

Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

**Schedule No. 5: Grand Summary (For Pokhara)**

S. No.	Description	Total Price Foreign (Currency)	Total Price Local (NRs)
		1	2
<b>1</b>	<b>TOTAL SCHEDULE NO. 1</b>		
	Plant and Equipment including Mandatory Spares to be supplied from abroad.		
<b>2</b>	<b>TOTAL SCHEDULE NO. 2</b>		
	Plant and Equipment including Mandatory Spares Parts to be supplied from within Nepal		
<b>3</b>	<b>TOTAL SCHEDULE NO. 3</b>		
	Design Services		
<b>4</b>	<b>TOTAL SCHEDULE NO. 4</b>		
	(a) Installation and construction charges		
	(b) Training charges for training to be imparted in Nepal		
	(c) Routine Test Charges for Tests to be conducted at independent lab to verify quality of goods after delivery of goods		
	(d) Social safeguard and environment management activities		
	Sub-Total of 4 (a+b+c+d):		
<b>Total (Excluding Custom Duty and VAT) [1+2+3+4]</b>			

Name of Bidder:  
Signature of Bidder:  
(Printed Name)  
(Designation)  
(Common Seal)

Date:



**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**  
**BID PRICE SCHEDULE**

Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

Schedule No. 6: Recommended Availability/Optional Spares Parts and recommended Test Equipment in line with technical Specifications ( For Pokhara)

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

Name of Bidder:  
Signature of Bidder:  
(Printed Name)  
(Designation)  
(Common Seal)

Date:



**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM**  
**REINFORCEMENT PROJECT**

**OCB No: PMD/PTDSSP/PBDSRP-077/78-01**

**Design, Supply, Installation and Commissioning of  
Underground Distribution Network under Pokhara and  
Bharatpur Distribution Centers including Reinforcement and  
Automation**

**Bid Price Schedule**  
**(Bharatpur Only)**

**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**

**BID PRICE SCHEDULE**

Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

FC: Foreign Currency

Schedule No.1: Plant and Equipment including Mandatory Spares to be supplied from abroad ( For Bharatpur)

LC: Local Currency

Item No.	Item description	Country of origin	Estimated		CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal)			Total Amount (Excluding Taxes and Duties)	Custom, VAT and other taxes
			Unit	Quantity	FC			FC	LC
					Currency#	Unit Rate	Amount		
1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10
<b>PART 1</b>									
	<b>Part-A : EMPLOYER ASSESSED QUANTITIES</b>								
<b>A</b>	<b>Steel Tubular Poles as per Technical Specification</b>								
1.0	Full Galvanized Steel Tubular Pole 11.0 M Long		Nos.	150					
2.0	Full Galvanized Steel Tubular Pole 9.0 M Long		Nos.	150					
<b>B</b>	<b>Cables</b>								
<b>1</b>	<b>HT Cables along with Straight Jointing Kit, Outdoor &amp; Indoor Termination Kit and other accessories as per Technical Specification</b>								
1.1	1-Core, 630 mm <sup>2</sup> , 33 kV, XLPE Armoured Aluminum cable		Km	36					
1.2	3-Core, 400 mm <sup>2</sup> , 11 kV, XLPE Armoured Aluminum cable		Km	56					
1.3	3-Core 300 mm <sup>2</sup> , 11 kV, XLPE Armoured Aluminum cable		Km	15					
1.4	3-Core, 150 mm <sup>2</sup> , 11 kV, XLPE Armoured Aluminum cable		Km	4					
<b>2</b>	<b>11kV XLPE Insulated AAA Conductor</b>								
2.1	1-Core, 100 mm <sup>2</sup> 11kV XLPE Insulated AAA Conductor including Tension/Dead End Assembly, Suspension Assembly, Insulation Piercing Connectors, Tension Joints and other accessories as required as per TS		Km	30					
<b>3</b>	<b>LT Cables along with necessary termination kit and accessories per Technical Specification</b>								
3.1	LT XLPE Cable, Single Core, 630 mm <sup>2</sup> , Aluminum Cable		Km	1.6					
3.2	LT XLPE Armoured 3.5 Core, 300 mm <sup>2</sup> Aluminum Cable		Km	34					
3.3	LT XLPE Armoured 3.5 Core, 185 mm <sup>2</sup> Aluminum Cable		Km	34					
<b>4</b>	<b>LT AB Cables along with Tension/Dead End Assembly, Suspension Assembly, Connectors and other accessories (as per Technical Specification)</b>								
4.1	120 mm <sup>2</sup> cable (3*120+1*95+1*16 sq.mm)		Km	10					
4.2	95 mm <sup>2</sup> cable (3*95+1*95+1*16 sq.mm)		Km	10					



**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**

**BID PRICE SCHEDULE**

**Power Transmission and Distribution System Strengthening Project (PTDSSP)**

**PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation**

**FC: Foreign Currency**

**Schedule No.1: Plant and Equipment including Mandatory Spares to be supplied from abroad ( For Bharatpur)**

**LC: Local Currency**

Item No.	Item description	Country of origin	Estimated		CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal)			Total Amount (Excluding Taxes and Duties)	Custom, VAT and other taxes
			Unit	Quantity	FC			FC	LC
					Currency#	Unit Rate	Amount		
1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10
<b>C</b>	<b>GO Switch with accessories</b>								
1.1	11 kV 400 Amps. GO Switch complete with handle, pipe & Supporting Channel complete.		Set	10					
1.2	Motor & other control arrangement for remote and local operation with all accessories		Set	10					
1.3	Communication arrangement (MPLS-TP equipment) along with FRTU and Power Supply (AC/DC) system suitable for integration with SCADA system		Set	10					
<b>D</b>	<b>Distribution Transformers as per Technical Specification</b>								
<b>1</b>	<b>3-PHASE DISTRIBUTION TRANSFORMERS</b>								
1.1	300 kVA		Nos.	50					
1.2	200 kVA		Nos.	25					
<b>2</b>	<b>11kV 3 phase Dropout fuse set with all accessories</b>		Set	75					
<b>E</b>	<b>9 kV LA (3 Nos. in 1 Set) set with all accessories</b>		Set	25					
<b>F</b>	<b>RMU ( Ring Main Units) including MS Galvanized Steel Supporting Base Structures</b>								
1	Outdoor type 11 KV SF6 type extensible and motorized 5 way smart Ring Main Unit (RMU) complete with two VCB and three LBS with FPI		Set	5					
2	Outdoor type 11 KV SF6 type extensible and motorized 4 way smart Ring Main Unit (RMU) complete with two VCB and two LBS with FPI		Set	5					
3	Outdoor type 11 KV SF6 type extensible and motorized 3 way smart Ring Main Unit (RMU) complete with two VCB and one LBS with FPI		Set	15					
4	Outdoor type 11 KV SF6 type extensible and motorized 3 way smart Ring Main Unit (RMU) complete with all one VCB and 2 LBS with FPI		Set	15					
5	Outdoor type 11 KV SF6 type extensible and motorized one way smart Ring Main Unit (RMU) complete with LBS and with FPI		Set	5					
6	Feeder Remote Terminal Unit suitable for above types of RMUs		Set	40					





**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**

**BID PRICE SCHEDULE**

**Power Transmission and Distribution System Strengthening Project (PTDSSP)**

**PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation**

**FC: Foreign Currency**

**Schedule No.1: Plant and Equipment including Mandatory Spares to be supplied from abroad ( For Bharatpur)**

**LC: Local Currency**

Item No.	Item description	Country of origin	Estimated		CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal)			Total Amount (Excluding Taxes and Duties)	Custom, VAT and other taxes
			Unit	Quantity	FC			FC	LC
					Currency#	Unit Rate	Amount		
1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10
<b>G</b>	<b>LT Feeder Pillar including MS Galvanized Steel Supporting Base Structure</b>								
1	5- way Distribution feeder pillar with 1 no ACB, 4 pole, 3phase, 415v, 800 Amps for incoming and 4 nos outgoing MCCBs (200A, 300A, 300A, 400A) 4 pole, 3phase, 415v, metering arrangement on incomer suitable for outdoor installation, in accordance with Technical Specification (TYPE A)		Set	5					
2	5- way Distribution feeder pillar with 1 no ACB , 4 pole, 3phase, 415v, 600 Amps for incoming and 4 nos outgoing MCCBs (200A, 200A, 300A, 300A) 4 pole, 3phase, 415v, metering arrangement on incomer suitable for outdoor installation, in accordance with Technical Specification, (TYPE B)		Set	5					
3	5- way Distribution feeder pillar with 1 no ACB , 4 pole, 3phase, 415v , 800 Amps for incoming and 4 nos outgoing MCCBs (200A, 200A, 300A, 300A) 4 pole, 3phase, 415v , metering arrangement on incomer suitable for outdoor installation , in accordance with Technical Specification. (TYPE C)		Set	25					
4	6- way Distribution feeder pillar with 1 no MCCB , 4 pole, 3phase, 415 v, 500 Amps for incoming and 5 nos outgoing MCCBs 4 pole, 3phase, 415 v, 200 Amps rating each, along with LT CTs and Multifunction Meter for Metering arrangement, suitable for outdoor installation in accordance with Technical Specification. (TYPE D1)		Set	30					
5	6- way Distribution feeder pillar with 1 no MCCB , 4 pole, 3phase, 415 v, 400 Amps for incoming and 5 nos outgoing MCCBs 4 pole, 3phase, 415 v, 200 Amps rating each, along with LT CTs and Multifunction Meter for Metering arrangement, suitable for outdoor installation in accordance with Technical Specification. (TYPE D2)		Set	30					
6	5- way Distribution feeder pillar with 5 nos outgoing MCCB 4 pole, 3phase, 415 v, 200 Amps rating each, suitable for outdoor installation in accordance with Technical Specification. (TYPE D3)		Set	40					
7	3 phase, 4 Pole, 415 v, Distribution Service Pillar for LT, 150 Amps incoming MCCB; 1 no. with busbars for upto 30 connection distribution service pillar suitable for outdoor installation, in accordance with Technical Specification. (TYPE E)		Set	300					



**NEPAL ELECTRICITY AUTHORITY**  
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**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**

**BID PRICE SCHEDULE**

Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

FC: Foreign Currency

Schedule No.1: Plant and Equipment including Mandatory Spares to be supplied from abroad ( For Bharatpur)

LC: Local Currency

Item No.	Item description	Country of origin	Estimated		CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal)			Total Amount (Excluding Taxes and Duties)	Custom, VAT and other taxes
			Unit	Quantity	FC			FC	LC
					Currency#	Unit Rate	Amount		
1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10
<b>H</b>	<b>Optical Fiber</b>								
(i)	<b>BOQ of UGFO Cabling</b>								
1	Unarmoured Underground Fiber Optic Cable, DWSM								
1.1	(a) 96-Fibers		Km	26					
1.2	(a) 24-Fibers		Km	2.6					
2	Joint Box for UGFO								
2.1	96 Fibers		Set	13					
2.2	24 Fibers		Set	2					
(ii)	<b>BOQ of ADSS Cabling</b>								
1	<b>DWSM ADSS Fiber Optic Cable</b>								
1.1	96 Fibers		Km	12					
1.2	24 Fibers		Km	1.2					
2	Installation Hardware set for above 96F ADSS Fibre Optic cabling including all cable fittings & accessories except joint box (One set of installation hardware shall contain all installation hardware fittings as may be required for 1 km of Aerial/ Approach Fibre Optic cabling. (details of HW fittings as per Technical Specifications))		Set	12					
3	Installation Hardware set for above 24F ADSS Fibre Optic cabling including all cable fittings & accessories except joint box (One set of installation hardware shall contain all installation hardware fittings as may be required for 1 km of Aerial/ Approach Fibre Optic cabling. (details of HW fittings as per Technical Specifications))		Set	2					
4	<b>Joint Box for ADSS Fiber Optic</b>								
4.1	96 Fibers		Set	6					
4.2	24 Fibers		Set	1					
(iii)	<b>FODP &amp; FMS with Splicing &amp; Patching Trays, FCPC coupling and pig tails (5 mtrs each), Patch Chords as per Site Requirement</b>								
1	Cabinet for FODP (2200x600x600mm)		Nos.	5					
2	FODP Sub Rack (24F), 1U		Nos.	1					
3	FODP Sub Rack (48F), 2U		Nos.	18					
4	FMS Wall mount - 24F		Nos.	1					
5	FMS Rack mount - 24F		Nos.	4					
6	FMS Wall mount - 96F		Nos.	9					



**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**

**BID PRICE SCHEDULE**

Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

FC: Foreign Currency

Schedule No.1: Plant and Equipment including Mandatory Spares to be supplied from abroad ( For Bharatpur)

LC: Local Currency

Item No.	Item description	Country of origin	Estimated		CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal)			Total Amount (Excluding Taxes and Duties)	Custom, VAT and other taxes
			Unit	Quantity	FC			FC	LC
					Currency#	Unit Rate	Amount		
1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10
7	FMS Rack mount - 96F		Nos.	14					
8	FMS Wall mount - 144F		Nos.	1					
9	FMS Rack mount - 144F		Nos.	19					
10	FMS Ground mount (Outdoor) - 96F		Nos.	1					
11	FMS Ground mount (Outdoor)- 144F		Nos.	1					
(iv)	TEST EQUIPMENT								
1	OTDR (Optical Time Domain Reflectometer) for 1310/1550 nm with laser source.		Nos.	1					
2	Optical Attenuators (variable 1310/1550nm).		Nos.	1					
3	Optical Power meter (1310/1550nm) with Laser Source.		Nos.	1					
4	Laser Light Source (1310 /1550 nm).		Nos.	1					
5	Optical Fibre Fusion Splicer incl. Fibre cleaver		Nos.	1					
6	Splice kit		Nos.	1					
7	Optical test accessory kit including all necessary connectors, adaptors, cables, terminations and other items required for testing		Nos.	1					
(v)	PLB-HDPE (Permanently Lubricated High Density Poly Ethylene) pipe 40 mm. dia pipe for laying optical Fiber Cable.		Km	52					
<b>I</b>	<b>Telecom Equipments</b>								
<b>1</b>	<b>MPLS-TP Hybrid Equipment (1G upto 5 MSP protected directions)</b>								
(i)	Base Equipment (Common cards, switch fabric/control cards, optical base cards, power supply cards, power cabling, other hardware and accessories including sub racks, patch cord etc fully equiped excluding (ii) below)		Set	3					
(ii)	<b>Optical Interface Cards/SFP#</b>								
a	Gigabit Ethernet SFP, SM 1550nm, 60 KM		Nos.	12					
b	Gigabit Ethernet SFP, SM 1550nm, 30 KM		Nos.	6					
(iii)	<b>Equipment Cabinet</b>		Nos.	3					
<b>2</b>	<b>1 RU (Rack Unit) MPLS-TP Equipment (1G upto 4 protected directions)</b>								
(i)	1 RU MPLS-TP Base Equipment Equippped with 8X1G MPLS-TP Interface with integrated switch engine and Redundant AC Power Supply cards along with Common cards, switch fabric/control cards, power cabling, other hardware & accessories including sub-racks, patch cords, fully equipped excluding (ii) below		Set	50					



**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**

**BID PRICE SCHEDULE**

Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

FC: Foreign Currency

Schedule No.1: Plant and Equipment including Mandatory Spares to be supplied from abroad ( For Bharatpur)

LC: Local Currency

Item No.	Item description	Country of origin	Estimated		CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal)			Total Amount (Excluding Taxes and Duties)	Custom, VAT and other taxes
			Unit	Quantity	FC			FC	LC
					Currency#	Unit Rate	Amount		
1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10
(ii)	Optical Interface Cards/SFP#								
a	Gigabit Ethernet SFP, SM 1550nm, 30 KM		Nos.	100					
3	Auxiliary Power Supply Equipments								
(i)	SMPS based 48V DC Power Supply (DCPS) system								
a	25 A		Nos.	1					
(ii)	VRLA type Battery bank for above DCPS system								
a	25 A, 300 AH		Nos.	1					
4	Network Management System								
(i)	Network Manager & Element Manager System								
a	Hardware		Set	1					
b	Printer (Laser Jet)		Nos.	1					
(ii)	TMN for Craft Terminal (NMS)								
a	Hardware		Set	2					
(iii)	Software for Network Manager & Element Manager System and TMN for Craft Terminal (NMS)		Lot	1					
5	Test Equipment								
a	Digital Multimeter		Nos.	1					
b	Ethernet Tester (with triple port, 10/100/1000 ports Mbps Ethernet option, layer-1 & layer-2 functionality)		Nos.	1					
J	Pipes								
1.0	HDPE pipe 125 mm dia. (PN6)		Km	104					
2.0	HDPE pipe 160 mm dia. (PN6)		Km	101					
3.0	GI pipe 150mm dia., 5.4mm thick high grade for crossing		Km	1					
K	M.S. Galvanized Items								
1.0	Fabrication and Supply of M.S. Galvanized items- Pole Top Bracket/hanger, Channel/angle, clamps, stay sets complete including wire, D-Strap, structure for mounting of Transformer, MS Flat, various size of angle & channel etc. complete as required for complete scope of work.		MT	10					
1.1	GI Nuts & Bolts with Washers (plain and spring)		MT	0.5					



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			Unit	Quantity	FC			FC	LC
					Currency#	Unit Rate	Amount		
1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10
L	Interbranch metering units (CT, PT, control cable and other accessories) along with separate enclosure suitable to be mounted on the RMU or Poles.		Set	2					
M	Service Cables (Armored, XLPE and Multi-Stranded) along with Connectors and PVC Pipe as per Technical Specification								
1.1	Service Cable along with connectors, and all accessories required for connection of meter to service pillar (single phase 16 A)		Consumer	2700					
1.2	Service Cable along with connection and all accessories required for connection of meter to service pillar (single phase 30 A)		Consumer	450					
1.3	Service Cable along with connector and all accessories required for connection of meter to service pillar (single phase 60 A)		Consumer	50					
1.4	Service Cable along with connector and all accessories required for connection of meter to service pillar (3 phase phase upto 25 kVA)		Consumer	500					
1.5	Service Cable along with connector and all accessories required for connection of meter to service pillar (3 phase phase 25 to 50 kVA)		Consumer	360					
N	Testing & Maintenance Equipment								
1.0	Cable Fault Locator Equipment as per Technical Specification		Set	1					
	<b>Sub-Total Part-A</b>								
	<b>Part-B: CONTRACTOR ASSESSED QUANTITIES FOR BHARATPUR</b>								
1	<b>Erection Hardware and Insulators</b>								
1.1	Bus-bar materials, cable clamps, spacers, connectors, junction box, all accessories etc. for underground cables and distribution transformers.		LS	1					
1.2	Insulators (Disc, Pin and Stay Insulator type) with their fittings for DTs, intermediate poles and other places wherever required.		LS	1					
1.3	Earthing								
1.3.1	Rod Earthing along with PVC insulated wire with cable lugs		LS	1					



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			Unit	Quantity	FC			FC	LC
					Currency#	Unit Rate	Amount		
1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10
1.3.2	Earthing with GI Flat Strip 25x6 mm		LS	1					
1.3.3	Cable earthing		LS	1					
2	Danger Plate Enameled		LS	1					
3	Number Plate Enameled		LS	1					
4	HT & LT Cable Route Marker and Straight Joint marker (MS and painted)		LS	1					
	<b>Sub-Total Part-B</b>								
	<b>Part-C: Mandatory Spares</b>								
<b>A</b>	<b>HT Cables as per Technical Specification</b>								
1	3-Core, 400 mm <sup>2</sup> 11 kV XLPE Armoured Aluminum Cable		Km	1					
2	3-Core 300 mm <sup>2</sup> 11 kV XLPE Armoured Aluminum Cable		Km	0.5					
3	3-Core 150 mm <sup>2</sup> 11 kV XLPE Armoured Aluminum Cable		Km	0.5					
<b>B</b>	<b>XLPE Insulated Covered AAA Conductor as per Technical Specification</b>								
1	1-Core 100 mm <sup>2</sup>		Km	1					
<b>C</b>	<b>LT Cables as per Technical Specification</b>								
1	LT XLPE Cable Single Core 630 sq. mm. Aluminum Cable		Km	0.2					
2	LT XLPE Armoured 3.5 Core, 300 sq.mm. Aluminum Cable		Km	1					
3	LT XLPE Armoured 3.5 Core, 185 sq.mm. Aluminum Cable		Km	1					
<b>D</b>	<b>LT AB Cables as per Technical Specification</b>								
1	120 mm <sup>2</sup> cable (3*120+1*95+1*16 sq.mm)		Km	1					



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			Unit	Quantity	FC			FC	LC
					Currency#	Unit Rate	Amount		
1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10
<b>E</b>	<b>Mandatory Spare List for RMU</b>								
1.0	VCB of each rating and each make		Nos.	2					
2.0	LBS of each rating and each make		Nos.	2					
3.0	Starters, contactors, switches & relays for electrical control panels (One set of each type)		Lot	1					
4.0	Overcurrent and earthfault relay		Set	2					
5.0	Power supply unit		Set	2					
<b>F</b>	<b>Spare for Gang Operated (GO) Switch</b>								
1	Complete pole of each type & rating complete with operating mechanism		Nos.	2					
2	Opening coil assembly as applicable		Sets	4					
3	Closing coil assembly as applicable .		Sets	4					
4	Auxiliary switch assembly of each type		Lot	1					
<b>G</b>	<b>Spares for LT Feeder Pillars</b>								
1	Complete set of Air circuit breaker of each rating and each make		Sets	3					
2	MCCB of each type and rating and each make		Lot	4					
<b>H</b>	<b>HT &amp; LT Cable Route Marker and Straight Joint marker 5% of used Number for Pokhara and Bharatpur</b>		LS	1					
<b>I</b>	<b>Spares for Fibre Optics &amp; Communication devices</b>								
<b>(i)</b>	<b>Mandatory Spares for UGFO</b>								
1	Unarmoured Underground Optical Fiber Cable - 96 Fibers DWSM		km	0.5					
2	Joint Box for UGFO - 96 Fibers		Nos.	2					
3	Unarmoured Underground Optical Fibre Cable - 24 Fibers , DWSM		Km	0.25					
4	Joint Box for UGFO - 24 Fibers		Nos.	2					



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Schedule No.1: Plant and Equipment including Mandatory Spares to be supplied from abroad ( For Bharatpur)

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Item No.	Item description	Country of origin	Estimated		CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal)			Total Amount (Excluding Taxes and Duties)	Custom, VAT and other taxes
			Unit	Quantity	FC			FC	LC
					Currency#	Unit Rate	Amount		
1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10
<b>(ii)</b>	<b>Mandatory Spares for ADSS Cabling</b>								
1	96F (DWSM) ADSS Fibre Optic Cable including all cable fittings & accessories except joint box		Km	0.5					
2	Installation Hardware set for above 96F ADSS Fibre Optic cabling including all cable fittings & accessories except joint box (One set of installation hardware shall contain all installation hardware fittings as may be required for 1 km of Aerial/ Approach Fibre Optic cabling. (details of HW fittings as per Technical Specifications)		Set	1					
3	Joint Box for ADSS -96 fibres		Nos.	2					
4	24F (DWSM) ADSS Fibre Optic Cable including all cable fittings & accessories except joint box		Km	0.25					
5	Installation Hardware set for above 24F ADSS Fibre Optic cabling including all cable fittings & accessories except joint box (One set of installation hardware shall contain all installation hardware fittings as may be required for 1 km of Aerial/ Approach Fibre Optic cabling. (details of HW fittings as per Technical Specifications)		Set	1					
6	Joint Box for ADSS -24 fibres		Nos.	2					
<b>(iii)</b>	<b>MPLS-TP Hybrid Equipment (1G upto 5 MSP protected directions)</b>								
	Base Equipment (Common cards, switch fabric/control cards, optical base cards, power supply cards, power cabling, other hardware and accessories including sub racks, patch cord etc fully equipped excluding (ii) below)		Set	1					
<b>a</b>	<b>Optical Interface Cards/SFP#</b>								
1	Gigabit Ethernet SFP, SM 1550nm, 60 KM		Nos.	2					
2	Gigabit Ethernet SFP, SM 1550nm, 30 KM		Nos.	3					
<b>(iv)</b>	<b>1 RU (Rack Unit) MPLS-TP Equipment (1G upto 4 protected directions)</b>								
	1 RU MPLS-TP Base Equipment Equipped with 8X1G MPLS-TP Interface with integrated switch engine and Redundant AC Power Supply cards along with Common cards, switch fabric/control cards, power cabling, other hardware & accessories including sub-racks, patch cords, fully equipped excluding (ii) below)		Set	2					





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**Power Transmission and Distribution System Strengthening Project (PTDSSP)**

**PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation**

**FC: Foreign Currency**

**Schedule No.1: Plant and Equipment including Mandatory Spares to be supplied from abroad ( For Bharatpur)**

**LC: Local Currency**

Item No.	Item description	Country of origin	Estimated		CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal)			Total Amount (Excluding Taxes and Duties)	Custom, VAT and other taxes
			Unit	Quantity	FC			FC	LC
					Currency#	Unit Rate	Amount		
1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10
<b>a</b>	<b>Optical Interface Cards/SFP#</b>								
1	Gigabit Ethernet SFP, SM 1550nm, 30 KM		Nos.	4					
<b>(v)</b>	<b>Mandatory Spares for Auxiliary Power Supply Equipments</b>								
a	MCCB/MCB-2P/ Contactor/ Timer/ Relay of each type & rating (as applicable)		Set	1					
b	Single Pole MCBs (for outgoing DC Feeders)		Nos.	1					
c	Electronic Printed Circuit Board / Card of each type (all cards/module including SMPS Module, DC Power Supply Controller, various interface cards etc.)		Set	1					
<b>(vi)</b>	<b>FRTUs of used type, 5% each type</b>		LS	1					
<b>J</b>	Connector and Clamps 5% of used quantity		LS	1					
	<b>Sub-Total Part-C</b>								
	<b>Total For PART 1 DC [(Part-A+ Part-B+ Part C)]</b>								
	<b>Total for Schedule 1 ( Total of column 9 to be carried forward to Schdule 5: Grand Summary)</b>								

- Note :
- 1.) Bidder is required to quote prices in this Schedule for all the individual items/sub-items.
  - 2.) The Prices of equipments are inclusive of type test charges.
  - 3.) BOQ given above is indicative only based on the scope of work as given in Employer's Requirements. The quantities mentioned above may undergo change during detailed engineering to meet the functional requirement and scope of work defined in Employer's Requirements.
  - 4.) The bidders are required to quote their price including all taxes and duties applicable in their country / Country of origin, & all business taxes, income taxes (TDS etc) applicable in Nepal. The quoted price shall be exclusive of taxes and duties applicable in Nepal like Custom, VAT etc.
- # Specify currency in accordance with ITB 19.1 of the BDS.
- \* Strike-out whichever is not applicable.

**Name of Bidder:**  
**Signature of Bidder:**  
**(Printed Name)**  
**(Designation)**  
**(Common Seal)**

Date:



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Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

Schedule No. 2: Plant and Equipment including Mandatory Spares Parts to be supplied from within Nepal (For Bharatpur)

LC: Local Currency (All Price in Local Currency)

Item No.	Item description	Unit	Quantity	Ex Factory Price (Excluding VAT) in LC		Inland transportation to site in LC		Total Amount (Excluding Taxes )	Custom, VAT and other taxes
				Unit Rate	Amount	Unit Rate	Amount		
1	2	3	4	5	6 = (4) x (5)	7	8=(4)x(7)	9=6+8	10
<b>PART 1</b>									
	<b>Part-A : EMPLOYER ASSESSED QUANTITIES</b>								
	<b>Part-B: CONTRACTOR ASSESSED QUANTITIES</b>								
	<b>Part-C: Mandatory Spares</b>								
	<b>Total For PART 1 [(Part-A+ Part-B+ Part C)]</b>								
	<b>Total for Schedule 2 (Total of column 9 to be carried forward to Schdule 5: Grand Summary)</b>								

Note : 1) Bidder is required to quote prices in this Schedule for all the items in Schedule 1 which they wish to supply from within Nepal.  
2.) The Prices of equipments are inclusive of type test charges

\* Strike-out whichever is not applicable.

<sup>a</sup> Specify currency in accordance with ITB 19.1 of the BDS.

<sup>b</sup> Column 5 Price shall include all customs duties and sales and other taxes already paid or payable on the components and raw materials used in the manufacture or assembly of the item or the customs duties and sales and other taxes already paid on previously imported items.

**Name of Bidder:**  
**Signature of Bidder:**  
**(Printed Name)**  
**(Designation)**  
**(Common Seal)**

**Date:**



**NEPAL ELECTRICITY AUTHORITY**  
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Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

**Schedule No. 3: Design Services (For Bharatpur)**

Item No.	Item Description	Estimated		Unit Prices		Total Prices	
				Local Currency Portion	Foreign Currency Portion		
		Quantity	Unit	LC (NRs)	FC (Currency)	LC	FC
1	2	3	4	5	6	7=3x5	8=3x6
<b>PART 1</b>							
<b>A</b>	Pre-Construction Survey including detail survey, study and prepare GIS map and reporting of existing network for HT, LT & Consumer connection etc. and complete design of the proposed reinforcement works including underground system, communication, automation, integration with DCC along with loadflow analysis and needful calculations as per scope of this project.	1	LS				
<b>Total for Schedule 3 (Total of column 7 &amp; 8 to be carried forward to Schedule 5: Grand Summary)</b>							

Name of Bidder:  
Signature of Bidder:  
(Printed Name)  
(Designation)  
(Common Seal)

Date:



**NEPAL ELECTRICITY AUTHORITY**  
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Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

Schedule No. 4: Installation and Other Services (For Bharatpur)

(a): Installation and Construction Charges

Sl. No.	Item Description	Installation Charges								
		Country of Origin	Type & Designation	Unit	Qty.	Portion in Foreign Currency			Portion in Nepalese Currency (in NPR)	
						Currency#	Unit Rate	Total Charges	Unit Rate	Total Charges
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(8)x(6)	-10	(11)=(10)x(6)
<b>PART 1</b>										
	<b>Part-A : EMPLOYER ASSESSED QUANTITIES</b>									
<b>A</b>	<b>Poles</b>									
1.0	11m Steel Tubular Pole			Set	150					
2.0	9m Steel Tubular Pole			Set	150					
3.0	Dismantling of HT/ LT PSC/Steel Tubular Poles of different sizes and transportation upto store			Nos	50					
4.0	Dismantling of one circuit HT/ LT ACSR Conductor (different sizes) and all associated accessories and transportation upto store			RKM	5					
5.0	Dismantling of one circuit HT/ LT Overhead ABC Cable (different sizes) and all associated accessories and transportation upto store			RKM	5					
6.0	Dismantling of different sizes Distribution Transformers and transportation upto store or other site location as required			Set	10					
7.0	Shifting of existing single/three phase service cables along with all accessories to the newly reinforced overhead line			Nos	400					
<b>B</b>	<b>Cables</b>									
<b>1</b>	<b>HT Cables along with Straight Jointing Kit, O/D &amp; I/D Termination Kit and other accessories as per TS</b>									
1.1	1-Core 630 mm <sup>2</sup> 33 kV XLPE Armoured Aluminum Cable			Km	36					
1.2	3-Core 400 mm <sup>2</sup> 11 kV XLPE Armoured Aluminum Cable			Km	56					
1.3	3-Core 300 mm <sup>2</sup> 11 kV XLPE Armoured Aluminum Cable			Km	15					
1.4	3-Core 150 mm <sup>2</sup> 11 kV XLPE Armoured Aluminum Cable			Km	4					
<b>2</b>	<b>11kV XLPE Insulated AAA Conductor</b>									
2.1	1-Core, 100 mm <sup>2</sup> 11kV XLPE Insulated AAA Conductor including Tension/Dead End Assembly, Suspension Assembly, Insulation Piercing Connectors, Tension Joints and other accessories as required as per TS			Km	30					
<b>3</b>	<b>LT Cables along with necessary termination kit and accessories per Technical Specification</b>									
3.1	LT XLPE Cable Single Core 630 sq. mm., Aluminum Cable			Km	1.6					
3.2	LT XLPE Armoured 3.5 Core, 300 sq.mm. Aluminum Cable			Km	34					
3.2	LT XLPE Armoured 3.5 Core, 185 sq.mm. Aluminum Cable			Km	34					



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Power Transmission and Distribution System Strengthening Project (PTDSSP)

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Schedule No. 4: Installation and Other Services (For Bharatpur)

(a): Installation and Construction Charges

Sl. No.	Item Description	Installation Charges								
		Country of Origin	Type & Designation	Unit	Qty.	Portion in Foreign Currency			Portion in Nepalese Currency (in NPR)	
						Currency#	Unit Rate	Total Charges	Unit Rate	Total Charges
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(8)x(6)	-10	(11)=(10)x(6)
<b>4</b>	<b>LT AB Cables along with Tension/Dead End Assembly, Suspension Assembly, Connectors and other accessories as per TS</b>									
4.1	120 mm <sup>2</sup> cable (3*120+1*95+1*16 sq.mm)			Km	10					
4.2	95 mm <sup>2</sup> cable (3*95+1*95+1*16 sq.mm)			Km	10					
<b>C</b>	<b>GO Switch with accessories</b>									
1	11 KV 400 Amps. GO Switch complete with handle, pipe & Supporting Channel complete.			Set	10					
2	Motor & other control arrangement for remote and local operation with all accessories			Set	10					
3	Communication arrangement along with FRTU and Power Supply (AC/DC) system suitable for integration with SCADA system			Set	10					
<b>D</b>	<b>Distribution Transformer</b>									
1	Intallation of 3-Phase different sizes distribution transformers (new and existing) as per technical specification			Set	85					
<b>E</b>	<b>9 kV LA (3 Nos. in 1 Set) set with all accessories</b>			Set	25					
<b>F</b>	<b>RMU ( Ring Main Units) including MS Galvanized Steel Supporting Base Structures</b>									
1	Outdoor type 11 KV SF6 type non extensible and motorized 5 way smart Ring Main Unit (RMU) complete with two VCB and three LBS with FPI			Set	5					
2	Outdoor type 11 KV SF6 type extensible and motorized 4 way smart Ring Main Unit (RMU) complete with two VCB and two LBS with FPI			Set	5					
3	Outdoor type 11 KV SF6 type extensible and motorized 3 way smart Ring Main Unit (RMU) complete with two VCB and one LBS with FPI			Set	15					
4	Outdoor type 11 KV SF6 type extensible and motorized 3 way smart Ring Main Unit (RMU) complete with all one VCB and 2 LBS with FPI			Set	15					
5	Outdoor type 11 KV SF6 type extensible and motorized one way smart Ring Main Unit (RMU) complete with LB and with FPI			Set	5					
6	Feeder Remote Terminal Unit suitable for above types of RMUs			Set	40					



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**BID PRICE SCHEDULE**

Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

Schedule No. 4: Installation and Other Services (For Bharatpur)

(a): Installation and Construction Charges

Sl. No.	Item Description	Installation Charges								
		Country of Origin	Type & Designation	Unit	Qty.	Portion in Foreign Currency			Portion in Nepalese Currency (in NPR)	
						Currency#	Unit Rate	Total Charges	Unit Rate	Total Charges
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(8)x(6)	-10	(11)=(10)x(6)
<b>G</b>	<b>LT Feeder Pillar including MS Galvanized Steel Supporting Base Structure</b>									
1	5- way Distribution feeder pillar with 1 no ACB, 4 pole, 3phase, 415v, 800 Amps for incoming and 4 nos outgoing MCCBs (200A, 300A, 300A, 400A) 4 pole, 3phase, 415v, metering arrangement on incomer suitable for outdoor installation, in accordance with Technical Specification (TYPE A)			Set	5					
2	5- way Distribution feeder pillar with 1 no ACB, 4 pole, 3phase, 415v, 600 Amps for incoming and 3 nos outgoing MCCBs (200A, 200A, 300A, 300A) 4 pole, 3phase, 415v, metering arrangement on incomer suitable for outdoor installation, in accordance with Technical Specification, (TYPE B)			Set	5					
3	5- way Distribution feeder pillar with 1 no ACB, 4 pole, 3phase, 415v, 800 Amps for incoming and 4 nos outgoing MCCBs (200A, 200A, 300A, 300A) 4 pole, 3phase, 415v, metering arrangement on incomer suitable for outdoor installation, in accordance with Technical Specification. (TYPE C)			Set	25					
4	6- way Distribution feeder pillar with 1 no MCCB, 4 pole, 3phase, 415 v, 500 Amps for incoming and 5 nos outgoing MCCBs 4 pole, 3phase, 415 v, 200 Amps rating each, along with LT CTs and Multifunction Meter for Metering arrangement, suitable for outdoor installation in accordance with Technical Specification. (TYPE D1)			Set	30					
5	6- way Distribution feeder pillar with 1 no MCCB, 4 pole, 3phase, 415 v, 400 Amps for incoming and 5 nos outgoing MCCBs 4 pole, 3phase, 415 v, 200 Amps rating each, along with LT CTs and Multifunction Meter for Metering arrangement, suitable for outdoor installation in accordance with Technical Specification. (TYPE D2)			Set	30					
6	5- way Distribution feeder pillar with 5 nos outgoing MCCB 4 pole, 3phase, 415 v, 200 Amps rating each, suitable for outdoor installation in accordance with Technical Specification. (TYPE D3)			Set	40					
7	3 phase, 4 Pole, 415 v, Distribution Service Pillar for LT, 150 Amps incoming MCCB; 1 no. with busbars for upto 30 connection distribution service pillar suitable for outdoor installation, in accordance with Technical Specification. (TYPE E)			Set	300					



**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**  
**BID PRICE SCHEDULE**

Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

Schedule No. 4: Installation and Other Services (For Bharatpur)

(a): Installation and Construction Charges

Sl. No.	Item Description	Installation Charges								
		Country of Origin	Type & Designation	Unit	Qty.	Portion in Foreign Currency			Portion in Nepalese Currency (in NPR)	
						Currency#	Unit Rate	Total Charges	Unit Rate	Total Charges
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(8)x(6)	-10	(11)=(10)x(6)
<b>H</b>	<b>Optical Fiber</b>									
<b>(i)</b>	<b>UGFO Cable Installation</b>									
1	Laying of Unarmoured Underground Optical Fibre Cable - 96 Fibers DWSM			km	26					
2	Laying of Unarmoured Underground Optical Fibre Cable - 24 Fibers DWSM			km	2.6					
3	Installation of Joint box (including splicing & testing) - 96 Fibers			Set	13					
4	Installation of Joint box (including splicing & testing) - 24 Fibers			Set	2					
<b>(ii)</b>	<b>DWSM, ADSS Fiber Installation</b>									
1	Installation of 96-Fibers, DWSM, ADSS Fibre Optic Cable including all hardware fittings & accessories except joint box			KM	12					
2	Installation of 24-Fibers, DWSM, ADSS Fibre Optic Cable including all hardware fittings & accessories except joint box			KM	1.2					
3	Installation of Joint box for 96-fibers, ADSS fibre optic cable			Set	6					
4	Installation of Joint box for 24-fibers, ADSS fibre optic cable			Set	1					
<b>(iii)</b>	<b>FODP &amp; FMS Installation with splicing and Patching trays, FCPC coupling and pig tails (5mtrs each), patch chords as per site requirement</b>									
1	Cabinet for FODP (2200x600x600mm)			Nos.	5					
2	FODP Sub Rack (24F), 1U			Nos.	1					
3	FODP Sub Rack (48F), 2U			Nos.	18					
4	FMS Wall mount - 24F			Nos.	1					
5	FMS Rack mount - 24F			Nos.	4					
6	FMS Wall mount - 96F			Nos.	9					
7	FMS Rack mount - 96F			Nos.	14					
8	FMS Wall mount - 144F			Nos.	1					
9	FMS Rack mount - 144F			Nos.	19					
10	FMS Ground mount (Outdoor) - 96F			Nos.	1					
11	FMS Ground mount (Outdoor)- 144F			Nos.	1					
<b>(iv)</b>	<b>PLB-HDPE (Permanently Lubricated High Density Poly Ethylene) pipe 40 mm. dia pipe for laying optical Fiber Cable.</b>			KM	52					
<b>I</b>	<b>Installation and testing of Telecom Equipment and Annual Maintenance Charge</b>									
1	Installation and Testing of MPLS-TP equipment (1G upto 5 Protected directions) and associated accessories			Nos.	3					



**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**  
**BID PRICE SCHEDULE**

Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

Schedule No. 4: Installation and Other Services (For Bharatpur)

(a): Installation and Construction Charges

Sl. No.	Item Description	Installation Charges								
		Country of Origin	Type & Designation	Unit	Qty.	Portion in Foreign Currency			Portion in Nepalese Currency (in NPR)	
						Currency#	Unit Rate	Total Charges	Unit Rate	Total Charges
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(8)x(6)	-10	(11)=(10)x(6)
2	Installation and Testing of Power Supply Unit and Battery			Nos.	1					
3	Installation and Testing of Network Manager & Element Manager System			Set	1					
4	Annual Maintenance Charges for Communication Equipment package system for One (1) year after Service Level Agreement (SLA)			Lot	1					
<b>J</b>	<b>Laying of HDPE/GI Pipes in Open Trench / above ground</b>									
1	HDPE pipe 125 mm dia (PN6)			Km	31					
2	HDPE pipe 160 mm dia (PN6)			Km	30					
3	GI pipe 150mm dia, 5.4mm thick for crossing			Km	1					
<b>K</b>	<b>M.S. Galvanized Items along with GI Nuts &amp; Bolts/Washers (plain and spring)</b>									
1.0	Fabrication and Supply of M.S. Galvanized items- Pole Top Bracket/hamper, Channel/angle, clamps, stay sets complete including wire, D-Strap, structure for mounting of Transformer, MS Flat, various size of angle & channel, nut-bolts with washers etc. complete as required for complete scope of work.			MT	10.5					
<b>L</b>	<b>Interbranch metering units (CT, PT, control cable and other accessories) along with separate enclosure suitable to be mounted on the RMU or Poles.</b>			Set	2					
<b>M</b>	<b>Service Cables (Armored, XLPE and Multi-Stranded) along with Connectors and PVC Pipe as per Technical Specification</b>									
1.1	Service Cable along with connectors, and all accessories required for connection of meter to service pillar (single phase 16 A)			Consumer	2700					
1.2	Service Cable along with connection and all accessories required for connection of meter to service pillar (single phase 30 A)			Consumer	450					
1.3	Service Cable along with connector and all accessories required for connection of meter to service pillar (single phase 60 A)			Consumer	50					
1.4	Service Cable along with connector and all accessories required for connection of meter to service pillar (3 phase phase upto 25 kVA)			Consumer	500					
1.5	Service Cable along with connector and all accessories required for connection of meter to service pillar (3 phase phase 25 to 50 kVA)			Consumer	360					
	<b>Sub-Total Part-A</b>									





**NEPAL ELECTRICITY AUTHORITY**  
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**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**  
**BID PRICE SCHEDULE**

Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

Schedule No. 4: Installation and Other Services (For Bharatpur)

(a): Installation and Construction Charges

Sl. No.	Item Description	Installation Charges								
		Country of Origin	Type & Designation	Unit	Qty.	Portion in Foreign Currency			Portion in Nepalese Currency (in NPR)	
						Currency#	Unit Rate	Total Charges	Unit Rate	Total Charges
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(8)x(6)	-10	(11)=(10)x(6)
	<b>Part-B: CONTRACTOR ASSESSED QUANTITIES FOR BHARATPUR</b>									
<b>1</b>	<b>Erection Hardware</b>									
1.1	Bus-bar materials, cable clamps, spacers, connectors, junction box, all accessories etc. for underground cables and distribution transformers.			LS	1					
1.2	Earthing									
1.2.1	Rod Earthing along with PVC insulated wire with cable lugs			LS	1					
1.2.2	Earthing with GI Flat Strip 25x6 mm			LS	1					
1.2.3	Cable earthing			LS	1					
<b>2</b>	<b>Danger Plate Enameled</b>			LS	1					
<b>3</b>	<b>Number Plate Enameled</b>			LS	1					
<b>4</b>	<b>HT &amp; LT Cable Route Marker and Straight Joint marker (MS and Painted)</b>			LS	1					
	<b>Sub-Total Part-B</b>									
	<b>PART-C: Civil Works (As per technical specification)</b>									
<b>1</b>	Excavation in all types of soil and rock including backfilling disposal etc. for all leads and lifts			Cu.Mtr.	2400					
<b>2</b>	Providing and laying of Plain Cement Concrete (PCC) (1:3:6)			Cu. Mtr.	140					
<b>3</b>	Providing and laying of Plain Cement Concrete (PCC) (1:2:4) including formwork			Cu.Mtr.	140					
<b>4</b>	Providing and laying of Reinforced Cement Concrete Nominal Mix (1:1.5:3) including pre cast, grouting of pockets, underpinning and formwork but excluding steel reinforcement.			Cu.Mtr.	1120					



**NEPAL ELECTRICITY AUTHORITY**  
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**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**  
**BID PRICE SCHEDULE**

Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

Schedule No. 4: Installation and Other Services (For Bharatpur)

(a): Installation and Construction Charges

Sl. No.	Item Description	Installation Charges								
		Country of Origin	Type & Designation	Unit	Qty.	Portion in Foreign Currency			Portion in Nepalese Currency (in NPR)	
						Currency#	Unit Rate	Total Charges	Unit Rate	Total Charges
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(8)x(6)	-10	(11)=(10)x(6)
5	Steel Reinforcement (Fe 500)			MT	33					
6	Black topping as per Technical Specification of Road Department and/or Pokhara/Bharatpur Metropolitan City			Sq. Mtr.	9600					
7	Miscellaneous Structural steel used for rails, plates for rail fixing, gratings, gratings supports etc for transformer foundation, cable supports and earthing cleats, chequered plates, embedments, edge protection angles for cable trenches but excluding the reinforcement steel and steel for lattice and pipe structures which shall be paid separately.			MT	0.5					
8	Local Sand filling around and under Foundation and for backfilling of cable and pit as applicable.			Cu. Mtr.	2400					
9	Stone soling below foundations wherever specified in approved drawings during detailed engineering			Cu. Mtr.	80					
10	Geotechnical /Soil Investigation as per technical specification			Nos.	12					
11	Trenchless laying of HDPE pipe with Horizontal Directional Drilling (HDD)									
11.1	125 mm HDPE (PN6)			km	73					
11.2	160 mm HDPE (PN6)			km	71					
12	First class Brickwork in (1:4) cement sand mortar with approved quality bricks in perfect line & level including wetting the bricks, properly packing the joints & curing the works with all complete as per instruction of Site Incharge/Engineer on the basis of drawings, specification etc.			Cu. Mtr.	20					



**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**  
**BID PRICE SCHEDULE**

Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

Schedule No. 4: Installation and Other Services (For Bharatpur)

(a): Installation and Construction Charges

Sl. No.	Item Description	Installation Charges								
		Country of Origin	Type & Designation	Unit	Qty.	Portion in Foreign Currency			Portion in Nepalese Currency (in NPR)	
						Currency#	Unit Rate	Total Charges	Unit Rate	Total Charges
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(8)x(6)	-10	(11)=(10)x(6)
13	12.5 mm thick cement sand plaster of mix 1:4 cement sand in wall etc. including mixing mortars, applying required plaster in line level and plumb and finishing in regular even, smoothen surface including including ranking the joints, cleaning, wetting the surface, curing the works and scaffolding etc all complete as per specification & instruction.			Sq. Mtr.	400					
14	RCC Manholes (supply & Installation)									
14.1	For Joint locations as per technical specification			Nos.	2					
14.2	For providing Service loops at crossings as per technical specification			Nos.	2					
15	Brick walled Manholes (supply & Installation)									
15.1	For Joint locations as per technical specification			Nos.	2					
15.2	For providing Service loops at crossings as per technical specification			Nos.	2					
16	First class local chimney made Flat Brick Soling with sand in foundation and in trench wherever necessary laid in line & level including filling in the joints with sand all complete.			Sq. Mtr.	400					
	<b>Sub-Total Part-C</b>									
	<b>Total For PART 1 [(Part-A+ Part-B+ Part C)]</b>									
	<b>Total for Schedule 4 (Total of column 9 and 11 to be carried forward to Schedule 5: Grand Summary)</b>									

# Specify currency in accordance with ITB 19.1 of the BDS.

Name of Bidder:  
Signature of Bidder:  
(Printed Name)  
(Designation)  
(Common Seal)

Date:



**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**  
**BID PRICE SCHEDULE**

**Power Transmission and Distribution System Strengthening Project (PTDSSP)**

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

**Schedule No. 4 : Installation and Other Services (For Bharatpur)**

**(b): Training Charges for training to be imparted to Employer's Personnel by Bidder's Instructor in Nepal**

Sl. No.	Description of the Test	Item for which training is to be imparted.	Training duration in days	Training Charges for Contractors Trainers		
				Currency	Unit rate	Total Training Charges
1	2	3	4	5	6	7 = 4x6
NOT APPLICABLE (To be filled in Shedule-4.(b) of Pokhara)						
	Total for Training Charges ( Total of column 7 to be carried forward to Schedule 5: Grand Summary)					-

**REMARKS:**

1. On Job Training in Nepal: The traveling and living expenses of Owner's personnel for the training programme conducted in Nepal shall be borne by the Owner.

Note: To and fro charges, accommodation and training fees for the Instructor (Trainer) and training material for the trainees shall be included in the prices quoted by the bidder.

**Name of Bidder:**  
**Signature of Bidder:**  
**(Printed Name)**  
**(Designation)**  
**(Common Seal)**

**Date:**



**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**  
**BID PRICE SCHEDULE**

Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

Schedule No. 4: Installation and Other Services (*For Bharatpur*)

(c) Routine Test Charges for Tests to be conducted at independent lab to verify quality of goods after delivery of goods

Sl. No.	Description of Tests		Testing Location	TEST CHARGES	
				Currency #	Amount
1	2		3	4	5
<b>NOT APPLICABLE (To be filled in Shedule-4.(c) of Pokhara)</b>					
	Total of Tests charges (Total of column 5 to be carried forward to Schedule 5: Grand Summary)				

Name of Bidder:  
Signature of Bidder:  
(Printed Name)  
(Designation)  
(Common Seal)

Date:



**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**  
**BID PRICE SCHEDULE**

**Power Transmission and Distribution System Strengthening Project (PTDSSP)**

**PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation**

**Schedule No. 4: Installation and Other Services (*For Pokhara*)**

**(d) Social Safeguard and Environment Management Activities (as per clause 13 of Chap 1 PSR)**

Sl. No.	Description	Locations	Social Safeguard and Environment Management Activities Charges	
			Currency #	Amount
1	2	3	4	5
1	Social Safeguard and Environment Management Activities			
	<b>Total of Social Safeguard &amp; Environment Management Activities Charges (Total of column 5 to be carried forward to Schedule 5: Grand Summary)</b>			

**Name of Bidder:**  
**Signature of Bidder:**  
 (Printed Name)  
 (Designation)  
 (Common Seal)

**Date:**



**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**  
**BID PRICE SCHEDULE**

Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

**Schedule No. 5: Grand Summary (For Bharatpur)**

S. No.	Description	Total Price Foreign (Currency)	Total Price Local (NRs)
		1	2
<b>1</b>	<b>TOTAL SCHEDULE NO. 1</b>		
	Plant and Equipment including Mandatory Spares to be supplied from abroad.		
<b>2</b>	<b>TOTAL SCHEDULE NO. 2</b>		
	Plant and Equipment including Mandatory Spares Parts to be supplied from within Nepal		
<b>3</b>	<b>TOTAL SCHEDULE NO. 3</b>		
	Design Services		
<b>4</b>	<b>TOTAL SCHEDULE NO. 4</b>		
	(a) Installation and construction charges		
	(b) Training charges for training to be imparted in Nepal		
	(c) Routine Test Charges for Tests to be conducted at independent lab to verify quality of goods after delivery of goods		
	(d) Social safeguard and environment management activities		
	Sub-Total of 4 (a+b+c+d):		
<b>Total (Excluding Custom Duty and VAT) [1+2+3+4]</b>			

Name of Bidder:  
Signature of Bidder:  
(Printed Name)  
(Designation)  
(Common Seal)

Date:



**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**  
**BID PRICE SCHEDULE**

Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

Schedule No. 6: Recommended Availability/Optional Spares Parts and recommended Test Equipment in line with technical Specifications ( For Bharatpur)

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

Name of Bidder:  
Signature of Bidder:  
(Printed Name)  
(Designation)  
(Common Seal)

Date:





**NEPAL ELECTRICITY AUTHORITY**

**PROJECT MANAGEMENT DIRECTORATE**

**POKHARA-BHARATPUR DISTRIBUTION SYSTEM  
REINFORCEMENT PROJECT**

**OCB No: PMD/PTDSSP/PBDSRP-077/78-01**

**Design, Supply, Installation and Commissioning of  
Underground Distribution Network under Pokhara and  
Bharatpur Distribution Centers including Reinforcement and  
Automation**

**Grand Summary of Bid Price Schedule  
(Pokhara and Bharatpur Combined)**

**NEPAL ELECTRICITY AUTHORITY**  
**PROJECT MANAGEMENT DIRECTORATE**  
**POKHARA-BHARATPUR DISTRIBUTION SYSTEM REINFORCEMENT PROJECT**  
**BID PRICE SCHEDULE**

Power Transmission and Distribution System Strengthening Project (PTDSSP)

PMD/PTDSSP/ PBDSRP-077/78-01: Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation

**Schedule No. 5: Grand Summary (For Pokhara & Bharatpur Both)**

Sl. No.	Description	Pokhara		Bharatpur		Total (Pokhara and Bharatpur )	
		Total Price Foreign (USD)	Total Price Local (NRs)	Total Price Foreign (USD)	Total Price Local (NRs)	Total Price Foreign (USD)	Total Price Local (NRs)
		1	2	3	4	(5=1+3)	(6=2+4)
<b>1</b>	<b>TOTAL SCHEDULE NO. 1</b>						
	Plant and Equipment including Mandatory Spares to be supplied from abroad.						
<b>2</b>	<b>TOTAL SCHEDULE NO. 2</b>						
	Plant and Equipment including Mandatory Spares Parts to be supplied from within Nepal						
<b>3</b>	<b>TOTAL SCHEDULE NO. 3</b>						
	Design Services						
<b>4</b>	<b>TOTAL SCHEDULE NO. 4</b>						
	(a) Installation and construction charges						
	(b) Training charges for training to be imparted in Nepal			To be filled in Schedule-4.(b) of Pokhara			
	(c) Routine Test Charges for Tests to be conducted at independent lab to verify quality of goods after delivery of goods			To be filled in Schedule-4.(c) of Pokhara			
	(d) Social safeguard and environment management activities						
	Sub-Total of 4 (a+b+c+d):						
<b>Total (Excluding Contingency, Custom Duty and VAT) [1+2+3+4]</b>							

**Name of Bidder:**

**Signature of Bidder:**

**(Printed Name)**

**(Designation)**

**(Common Seal)**

**Date:**

