

NEPAL ELECTRICITY AUTHORITY

(An Undertaking of Government of Nepal)
Project Management Directorate



SASEC Power Transmission and Distribution System Strengthening Project

BIDDING DOCUMENT FOR

Procurement of Plant
for
Supply, Delivery, Installation, Testing, Commissioning, Operation and
Maintenance of Electric Vehicle Charging Stations

Single-Stage, Two-Envelope
Bidding Procedure

Issued on:
Invitation for Bids No.:	PMD/PTDSSP/EVCS/2076/77-01
OCB No.:	PMD/PTDSSP/EVCS /2076/77-01
Employer:	Nepal Electricity Authority
Country:	Nepal

VOLUME –III OF III

SASEC Power Transmission and Distribution System Strengthening Project
Durbarmarg, Kathmandu, Nepal
Telephone: +977-1-4153301, 4153247
Email: nea.eelrd@gmail.com

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NEPAL ELECTRICITY AUTHORITY
Energy Efficiency and Loss Reduction Department
Electric Vehicle Charging Infrastructure Development Project

PMD/PTDSSP/EVCS/2076/77-01: Supply, Delivery, Installation, Testing, Commissioning, Operation and Maintenance of Electric Vehicle Charging Stations

Schedule No. 1: Equipment including Mandatory Spare parts to be supplied from abroad

FC = Foreign Currency
LC = Local Currency

Item	Item Description	Country of Origin	Unit	Qty.	CIP Project Sites Including Insurance, Clearing, Forwarding and Transportation to sites (Excluding Customs Duties and VAT)			Customs, VAT and other Taxes	
					FC			LC	
					Currency	Unit Rate	Amount		
1	2	3	4	5	6	7	8 = 5 x 7	9	
SUPPLY AND DELIVERY OF EV CHARGING STATION, DISTRIBUTION TRANSFORMER, POLE AND ALL OTHER PARTS/ACCESSORIES INCLUDING TRANSPORTATION TO SITE STORE ALL COMPLETE									
1	EV Charger 142KW EV Battery Charger (Category 1) compatible for CCS 2.0 (2 guns) + AC Type-2 (1 gun) 142KW EV Battery Charger (Category 2) compatible for CCS 2.0 (1 gun) + CHAdeMO (1 gun) + AC Type-2 (1 gun) 142KW EV Battery Charger (Category 3) compatible for GB/T (2 gun) + GB/T AC (1 gun) <u>Each category of the charger mentioned above must include the components but not limited to the following:</u> Battery back up for one hour Surveillance + DVR: 4 chanel DVR / NVR and 4 cameras 4mega pixels with IP address facility for remote monitoring with ethernet / WiFi Input Cable - FR Grade 300 Sqmm 3 phase, 4 core cable Output Cable - CCS supported cable with connector 5m Output Cable - CHAdeMO supported cable with connector 5m Output Cable - AC Type-2 supported cable with connector 5m General Service Signs such as Way finding signage, Parking lot lines, Lighting and Stripes Earthing of chargers Bollards or Wheel stops and Civil Structure of EV charger		set	25					
2	Server and Application Software Payment gateway software (to manage payments using mobile app, cards etc), charger management software (to manage charger slots/availability/booking of slots, etc.) including the one time license fee for 300 chargers initially and scalable upto 1000 EV chargers for future expansion		Lot	1					
3	200 kVA 11/0.4 kV Distribution Transformer		nos	50					
4	11 m PSC Pole		nos	650					
5	11 kV Disc Insulator with Tension Set including but not limited to dead end clamp, back strap, ball and sockeye eye		set	300					
6	11 kV Pin Insulator with Spindle		set	1800					
7	Complete Stay Set for 11 kV Line including but not limited to 600x600x6 mm stay plate, 19 mm dia stay rod, 7/4 mm stay wire, eye-bolt, turn buckle, stay insulator etc		set	200					
8	Steel crossarm channel 100x50x6.4x5x300 mm including but not limited to pole clamp (PC1) suitable for 11 m PSC pole with required bolts, nuts and washers		set	700					
9	Steel crossarm channel 100x50x6.4x5x1200 mm including but not limited to pole clamp (PC2), flat crossarm brace 40 x 6 x 660 mm suitable for 11 m PSC pole with required bolts, nuts and washers		set	700					

FC = Foreign Currency
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Item	Item Description	Country of Origin	Unit	Qty.	CIP Project Sites Including Insurance, Clearing, Forwarding and Transportation to sites (Excluding Customs Duties and VAT)			Customs, VAT and other Taxes
					FC			LC
					Currency	Unit Rate	Amount	
1	2	3	4	5	6	7	8 = 5 x 7	9
SUPPLY AND DELIVERY OF EV CHARGING STATION, DISTRIBUTION TRANSFORMER, POLE AND ALL OTHER PARTS/ACCESSORIES INCLUDING TRANSPORTATION TO SITE STORE ALL COMPLETE								
10	Transformer Platform Complete set including but not limited to the following items: - Steel crossrm channel 100x50x6.4x5x2500 mm (TR1) with required bolts, nuts and washers - 2 nos - Steel crossrm channel 100x50x6.4x5x2500 mm (TR3) with required bolts, nuts and washers - 2 nos - Steel crossrm channel 100x50x6.4x5x1200 mm (TR2) with required bolts, nuts and washers - 4 Nos - Steel crossrm channel 100x50x6.4x5x1200 mm (TR4) with required bolts, nuts and washers - 2 Nos - Bracing angle 500x50x5x841 mm (8 nos) and bracing band TR6P (2 sets) with required bolts, nuts and washers - Steel crossrm channel 100x50x6.4x5x2348 mm for DO and LA with required bolts, nuts and washers - 1 No.		set	50				
11	Earthing of Transformer (LA, Body and Neutral) including but not limited to earthing rod, copper grounding conductor and connection arrangement complete set		set	150				
12	9 kV Surge Arrestor with fitting arrangements		set	50				
13	Distribution Cutout including fuse holders and 15A Fuse Links with fitting arrangements		set	50				
14	Outdoor Distribution Panel Board suitable for 300A MCCB and cable shoes of required size		nos	50				
15	300A MCCB suitable for 200 kVA Distribution Transformer		nos	50				
16	0.1 Sq. Inch. Dog ACSR Conductor		m	75000				
17	3.5 core, 185 sq mm, 1.1 kV Aluminum Armoured Power Cable		m	2500				
18	PG Clamp suitable for Dog Conductor		nos	300				
19	TOD Meter with meter box and other fitting accessories (to be procured from NEA authorized centers at NEA prescribed rates)		set	50				
	Total of Schedule - 1 (Total of column 8 to be carried forward to Schedule - 5 (Grand Summary))							

- Note:**
- 1) Bidder is required to quote prices in the Price Schedule for all the individual items/sub-items
 - 2) The Prices of equipment are inclusive of type test charges
 - 3) BoQ given above is indicative only based on the scope of works as given in Employer's Requirements. The quantities mentioned above may undergo change during detail engineering to meet the functional requirement and scope of work defined in Employer's Requirements.
 - 4) Specify currency in accordance with BDS ITB Clause 32.1, Part I of Bidding Documents.
 - 5) Strike out whichever is not applicable
 - 6) If a Bidder wishes to supply some item(s) listed in this Price Schedule from manufacturing plant in Nepal, then such item(s) and price of such item(s) shall be quoted in Price Schedule no. 2 only. Columns against such item(s) shall be left blank in this Price Schedule - 1.

NEPAL ELECTRICITY AUTHORITY

Energy Efficiency and Loss Reduction Department

Electric Vehicle Charging Infrastructure Development Project

PMD/PTDSSP/EVCS/2076/77-01: Supply, Delivery, Installation, Testing, Commissioning, Operation and Maintenance of Electric Vehicle Charging Stations

Schedule No. 2: Equipment including Mandatory Spare parts to be supplied from within Nepal

FC = Foreign Currency LC = Local Currency

Item	Item Description	Unit	Qty.	CIP Project Sites Including Transportation to site (Excluding Customs Duties and VAT)				VAT and other Taxes
				FC		LC		LC
				Unit Rate	Amount	Unit Rate	Amount	
1	2	3	4	5	6 = 4 x 5	7	8 = 4 x 7	9
SUPPLY AND DELIVERY OF EV CHARGING STATION, DISTRIBUTION TRANSFORMER, POLE AND ALL OTHER PARTS/ACCESSORIES INCLUDING TRANSPORTATION TO SITE STORE ALL COMPLETE								
1	EV Charger							
	142KW EV Battery Charger (Category 1) compatible for CCS 2.0 (2 guns) + AC Type-2 (1 gun)		set	25				
	142KW EV Battery Charger (Category 2) compatible for CCS 2.0 (1 gun) + CHAdeMO (1 gun) + AC Type-2 (1 gun)		set	5				
	142KW EV Battery Charger (Category 3) compatible for GB/T (2 gun) + GB/T AC (1 gun)		set	20				
	<u>Each category of the charger mentioned above must include the components but not limited to the following:</u>							
	Battery back up for one hour							
	Surveillance + DVR: 4 chanel DVR / NVR and 4 cameras 4mega pixels with IP address facility for remote monitoring with ethernet / WiFi							
	Input Cable - FR Grade 300 Sqmm 3 phase, 4 core cable							
	Output Cable - CCS supported cable with connector 5m							
	Output Cable - CHAdeMO supported cable with connector 5m							
Output Cable - AC Type-2 supported cable with connector 5 mtr								
General Service Signs such as Way finding signage, Parking lot lines, Lighting and Stripes								
Earthing of chargers								
Bollards or Wheel stops and Civil Structure of EV charger								
2	Server and Application Software		Lot	1				
Payment gateway software (to manage payments using mobile app, cards etc), charger management software (to manage charger slots/availability/booking of slots, etc.) including the one time license fee for 300 chargers initially and scalable upto 1000 EV chargers for future expansion								
3	200 kVA 11/0.4 kV Distribution Transformer		nos	50				
4	11 m PSC Pole		nos	650				
5	11 kV Disc Insulator with Tension Set including but not limited to dead end clamp, back strap, ball and sockey eye		set	300				
6	11 kV Pin Insulator with Spindle		set	1800				
7	Complete Stay Set for 11 kV Line including but not limited to 600x600x6 mm stay plate, 19 mm dia stay rod, 7/4 mm stay wire, eye-bolt, turn buckle, stay insulator etc		set	200				
8	Steel crossarm channel 100x50x6.4x5x300 mm including but not limited to pole clamp (PC1) suitable for 11 m PSC pole with required bolts, nuts and washers		set	700				

9	Steel crossarm channel 100x50x6.4x5x1200 mm including but not limited to pole clamp (PC2), flat crossarm brace 40 x 6 x 660 mm suitable for 11 m PSC pole with required bolts, nuts and washers		set	700				
10	Transformer Platform Complete set including but not limited to the following items: - Steel crossrm channel 100x50x6.4x5x2500 mm (TR1) with required bolts, nuts and washers - 2 nos - Steel crossrm channel 100x50x6.4x5x2500 mm (TR3) with required bolts, nuts and washers - 2 nos - Steel crossrm channel 100x50x6.4x5x1200 mm (TR2) with required bolts, nuts and washers - 4 Nos - Steel crossrm channel 100x50x6.4x5x1200 mm (TR4) with required bolts, nuts and washers - 2 Nos - Bracing angle 500x50x5x841 mm (8 nos) and bracing band TR6P (2 sets) with required bolts, nuts and washers - Steel crossrm channel 100x50x6.4x5x2348 mm for DO and LA with required bolts, nuts and washers - 1 No.		set	50				
11	Earthing of Transformer (LA, Body and Neutral) including but not limited to earthing rod, copper grounding conductor and connection arrangement complete set		set	150				
12	9 kV Surge Arrestor with fitting arrangements		set	50				
13	Distribution Cutout including fuse holders and 15A Fuse Links with fitting arrangements		set	50				
14	Outdoor Distribution Panel Board suitable for 300A MCCB and cable shoes of required size		nos	50				
15	300A MCCB suitable for 200 kVA Distribution Transformer		nos	50				
16	0.1 Sq. Inch. Dog ACSR Conductor		m	75000				
17	3.5 core, 185 sq mm, 1.1 kV Aluminum Armoured Power Cable		m	2500				
18	PG Clamp suitable for Dog Conductor		nos	300				
19	TOD Meter with meter box and other fitting accessories (to be procured from NEA authorized centers at NEA prescribed rates)		set	50				
	Total of Schedule - 2 (Total of column 6 and 8 to be carried forward to Schedule - 5 (Grand Summary))							

- Note:** 1) Bidder is required to quote prices in the Price Schedule for all the individual items/sub-items
2) The Prices of equipment are inclusive of type test charges
3) Specify currency in accordance with BDS ITB Clause 32.1, Part I of Bidding Documents.
4) Strike out whichever is not applicable
5) If a Bidder wishes to supply some item(s) listed in this Price Schedule from manufacturing plant in abroad, then such item(s) and price of such item(s) shall be quoted in Price Schedule no. 1 only.
Columns against such item(s) shall be left blank in this Price Schedule - 2.

NEPAL ELECTRICITY AUTHORITY
 Energy Efficiency and Loss Reduction Department
Electric Vehicle Charging Infrastructure Development Project

PMD/PTDSSP/EVCS/2076/77-01: Supply, Delivery, Installation, Testing, Commissioning, Operation and Maintenance of Electric Vehicle Charging Stations

Schedule No. 3: Design Services (NOT APPLICABLE)

LC = Local Currency

Item No.	Item Description	Estimated		Unit Prices		Total Prices	
		Unit	Qty.	Local Currency	Foreign Currency	LC	FC
				Portion	Portion		
				NRs	Currency		
1	2	3	4	5	6	7=3 x 5	8=3 x 6

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PMD/PTDSSP/EVCS/2076/77-01: Supply, Delivery, Installation, Testing, Commissioning, Operation and Maintenance of Electric Vehicle Charging Stations

Schedule No. 4: Erection / Installation, Construction and O/M Services

FC = Foreign Currency LC = Local Currency

Item	Item Description	Unit	Qty.	Construction and Installation Facilities			
				LC		FC	
				Unit Rate	Amount	Unit Rate	Amount
1	2	3	4	5	6 = 4 x 5	7	8 = 4 x 7
ERECTION AND INSTALLATION ALL COMPLETE INCLUDING TRANSPORTATION FROM UP TO CONSTRUCTION SITE AND O/M							
ERECTION AND INSTALLATION ALL COMPLETE INCLUDING O/M CHARGES							
1	Pre-construction survey (Site survey, preparation of detail drawing/SDS and submission for approval before commencing execution of works for each site location)	nos	50				
2	Installation of EV Charging Station including the required CMS system and earthing of chargers	nos	50				
3	Erection of 11m PSC poles including transportation from the site store to the construction site, excavation of footing, making pole vertical and placing in footing, ramming, back filling of soil for strengthening, compaction, fitting accessories (Channels and angles) all complete	nos	650				
4	Stringing of HT 3 wire Dog conductor including installation of Insulator & Hardware, Binding Wire, Jointing Sleeves, PG Clamp etc. all complete	km	25				
5	Installation of pole mounted 200 KVA Distribution transformer including installation of Do, LA and Earthing of Lightning Arrester, Neutral and Transformer Body seperately.	set	50				
6	Installation of TOD meter	nos	50				
7	Installation of 300 A MCCB and Panel Board for Distribution Transformer	set	50				
8	Stay Set Intallation including pit excavation, backfilling, compaction, stay wire and stay insulator & Hardwares fitting all complete.	set	200				
9	Construction of Civil Foundation and shading structure for EV Charging Station	nos	50				
10	Deployment of CMS system	LS					
11	Comprehensive on-site extended warranty and AMC for a period of five years	LS					
12	Transportation of all required equipment and accessories upto site locations	nos	50				
	Total of Schedule - 4 (Total of column 6 and 8 to be carried forward to Schedule - 5 (Grand Summary))						

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Electric Vehicle Charging Infrastructure Development Project

PMD/PTDSSP/EVCS/2076/77-01: Supply, Delivery, Installation, Testing, Commissioning, Operation and Maintenance of Electric Vehicle Charging Stations

Schedule No. 5: Grand Summary

FC = Foreign Currency

LC = Local Currency

Schedule No.	Title	Total Price (FC)	Total Price (LC)
1	Plant and Mandatory Spare Parts Supplied from Abroad		
2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
3	Design Services		
4	Installation and Other Services		
	Grand Total excluding Customs Duties and VAT [1 + 2 + 3 + 4] (To be carried forward to the Letter of Bid)		
	Grand Total (In Words) :		

Name of Bidder:

Signature of Bidder:

