

NEPAL ELECTRICITY AUTHORITY

(An Undertaking of Government of Nepal)



**KfW Development Bank (No.: 2019 69 203)
Distribution and Consumer Services Directorate
Planning and Technical Services Department
Promotion of Solar Energy in Rural and Semi Urban Region II
Project**

BIDDING DOCUMENT FOR

**THE PROCUREMENT OF UTILITY-SCALE GROUND
MOUNTED PHOTOVOLTAIC SYSTEMS
INTERNATIONAL COMPETITIVE BIDDING (ICB)**

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

Issued on: 22nd July 2024

Invitation for Bids No.: ICB-SEPP-EPC-SOLAR-01/2023-KfW-BMZ-PN511010

Solar Energy Promotion Project

Planning and Technical Service Department

Distribution and Consumer Service Directorate

Nepal Electricity Authority

Phone No: +977-1-4153141

Email: kfwproject@nea.org.np, neakfwproject@gmail.com

SCHEDULES OF RATES AND PRICES

NEPAL ELECTRICITY AUTHORITY
Distribution and Consumer Services Directorate
Planning and Technical Services Department
Promotion of Solar Energy in Rural and Semi Urban Region II Project

The Procurement of utility Scale Ground Mounted Photovoltaic Systems, Bid No.: ICB-SEPP-EPC-SOLAR-01/2024-KfW-BMZ-PN511010

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

FC: Foreign Currency, LC: Local Currency

S.No.	Description of Items	Country of Origin	Unit	Quantity	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
					FC			FC	LC
					Currency	Unit Rate	Amount	8 = 7 X 5	
1	2	3	4	5	6	7	8 = 7 X 5	9 = 8	10
Part - A MATERIALS, Middle Marshyangdi - 1.6 MW									
A1	Supply, delivery, installation, testing and commissioning of PV Modules of N-Type 1500 VDC at least 600Wp, MC4 Connectors, and accessories all complete as specified in the Employer's Requirements		kW	1600			-	-	
A2	Supply, delivery, installation, testing and commissioning of String Inverters of 1500V, its mounting structure, and accessories all complete as specified in the Employer's Requirement		kW	1600			-	-	
A3	Supply, delivery, installation, testing and commissioning of Combiner box of 1500V and accessories all complete as specified in the Employer's Requirement		Lot	1			-	-	
A4	Supply, delivery, installation, testing and commissioning of 0.8/33kV Power Transformer, its mounting rail, with associated accessories all complete as specified in Employer's Requirement		Set	1			-	-	
A5	Supply, delivery, installation, testing and commissioning of Module Mounting Structure, hardware, and accessories all complete as specified in the Employer's Requirement		Lot	1			-	-	
A6	Supply, delivery, installation, testing and commissioning of Weather Monitoring Stations all complete as specified in the Employer's Requirement		Lot	1			-	-	
A7	Supply, delivery, installation, testing and commissioning of SCADA System, required software and hardware, cables, and associated accessories all complete as specified in the Employer's Requirement		Lot	1			-	-	
A8	Supply, delivery, installation, testing and commissioning of HT Panels of 33/36kV, 1250 A with required accessories all complete		Lot	1			-	-	
A9	Supply, delivery, installation, testing and commissioning of LT Panels of 800V with required accessories all complete		Lot	1			-	-	
A10	Supply, delivery, installation, testing and commissioning of 33kV bay equipment such as CT, PT, VCB, etc with required accessories all complete		Lot	1			-	-	
A11	Supply, delivery, installation, testing and commissioning of Control and Relay Panel of 33kV with required accessories all complete		Lot	1			-	-	
A12	Supply, delivery, installation, testing and commissioning of Cables (All DC, LT, HT, communication and ancillary, etc), cable trays, and accessories all complete as specified in the Employer's Requirement		Lot	1			-	-	
A13	Supply, delivery, installation, testing and commissioning of Balance of System including Switchyard steel structures, security and surveillance system to monitor entire PV plant area and solar substation with monitoring system and all accessories all complete, auxiliary power supply system, earthing and lightning system for PV area and solar substation area all complete, flood and led bollard lights and its accessories all complete for PV area and solar substation, fire protection system, batteries and chargers for charging anel and feeder panel all complete, energy meter and metering equipment, UPS and batteries, etc. as specified in the Employer's requirement and all other supplies as required to commission the system.		Lot	1			-	-	
A14	Supply, delivery, installation, testing and commissioning of 33kV overhead transmission line materials and accessories all complete as specified in the Employer's requirement and all other supplies as required to commission the system.		km	1			-	-	
A15	All equipment and tools as required to fulfill requirements as per the Employer's Requirement		Lot	1			-	-	
A16	Mandatory spare parts as specified in the Employer's Requirement		Lot	1			-	-	
Total for Schedule 1 (Total of column 9 to be carried forward to Schedule 8: Grand Summary)							-	-	

Note:

- 1) The prices of equipment must be inclusive of type test charges, testing and commissioning.
- 2) BoQ given above is indicative only based on the scope of work as given in the Employer's Requirements. The above quantities may vary during the detailed engineering to meet the functional requirement and complete scope of work for successful commissioning and operations of project. However, the cost of the such quantities shall deem to be included in the above items.
- 3) The defined plant capacity in kW is the minimum requirement. The bidder should quote the price considering kWp (installed capacity) based on their own system sizing.

Name of the Bidder:
Signature of the Bidder:
(Printed Name)
(Designation)
(Company Seal)

Date:

NEPAL ELECTRICITY AUTHORITY
 Distribution and Consumer Services Directorate
 Planning and Technical Services Department
 Promotion of Solar Energy in Rural and Semi Urban Region II Project

The Procurement of utility Scale Ground Mounted Photovoltaic Systems, Bid No.: ICB-SEPP-EPC-SOLAR-01/2024-KfW-BMZ-PN511010

Schedule No. 2: Plant and Equipment including Mandatory Spares to be supplied from within Nepal

LC: Local Currency (All Prices in Local Currency)

S.No.	Description of Items	Unit	Quantity	Ex Factory Price (Excluding Taxes and VAT) in LC		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
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A1	Supply, delivery, installation, testing and commissioning of PV Modules of N-Type 1500 VDC at least 600Wp, MC4 Connectors, and accessories all complete as specified in the Employer's Requirements	kW	1600						
A2	Supply, delivery, installation, testing and commissioning of String Inverters of 1500V, its mounting structure, and accessories all complete as specified in the Employer's Requirement	kW	1600						
A3	Supply, delivery, installation, testing and commissioning of Combiner box of 1500V and accessories all complete as specified in the Employer's Requirement	Lot	1						
A4	Supply, delivery, installation, testing and commissioning of 0.8/33kV Power Transformer, its mounting rail, with associated accessories all complete as specified in Employer's Requirement	Set	1						
A5	Supply, delivery, installation, testing and commissioning of Module Mounting Structure, hardware, and accessories all complete as specified in the Employer's Requirement	Lot	1						
A6	Supply, delivery, installation, testing and commissioning of Weather Monitoring Stations all complete as specified in the Employer's Requirement	Lot	1						
A7	Supply, delivery, installation, testing and commissioning of SCADA System, required software and hardware, cables, and associated accessories all complete as specified in the Employer's Requirement	Lot	1						
A8	Supply, delivery, installation, testing and commissioning of HT Panels of 33/36kV, 1250 A with required accessories all complete	Lot	1						
A9	Supply, delivery, installation, testing and commissioning of LT Panels of 800V with required accessories all complete	Lot	1						
A10	Supply, delivery, installation, testing and commissioning of 33kV bay equipment such as CT, PT, VCB, etc with required accessories all complete	Lot	1						
A11	Supply, delivery, installation, testing and commissioning of Control and Relay Panel of 33kV with required accessories all complete	Lot	1						
A12	Supply, delivery, installation, testing and commissioning of Cables (All DC, LT, HT, communication and ancillary, etc) cable trays, and accessories all complete as specified in the Employer's Requirement	Lot	1						
A13	Supply, delivery, installation, testing and commissioning of Balance of System including Switchyard steel structures, security and surveillance system to monitor entire PV plant area and solar substation with monitoring system and all accessories all complete, auxiliary power supply system, earthing and lightning system for PV area and solar substation area all complete, flood and led bollard lights and its accessories all complete for PV area and solar substation, fire protection system, batteries and chargers for charging anel and feeder panel all complete, energy meter and metering equipment, UPS and batteries, etc. as specified in the Employer's requirement and all other supplies as required to commission the system	Lot	1						
A14	Supply, delivery, installation, testing and commissioning of 33kV overhead transmission line materials and accessories all complete as specified in the Employer's requirement and all other supplies as required to commission the system	km	1						
A15	All equipment and tools as required to fulfill requirements as per the Employer's Requirement	Lot	1						
A16	Mandatory spare parts as specified in the Employer's Requirement	Lot	1						
Total for Schedule 2 (Total of column 9 to be carried forward to Schedule 8: Grand Summary)									

Note:

1) The bidder is required to quote the prices in this Schedule for the items which they wish to supply from within Nepal.

Name of the Bidder:
Signature of the Bidder:
 (Printed Name)
 (Designation)
 (Company Seal)

Date:

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Schedule No. 3: Local Transportation, Insurance and other incidental services

FC: Foreign Currency, LC: Local Currency

S.No.	Description of Items	Unit	Quantity	Unit Price		Total Price	
				LC Portion	FC Portion	LC Portion	FC Portion
1	2	3	4	5	6	7 = 4 X 5	8 = 4 X 6
A	Local Transportation, Insurance and other incidental services for Middle Marshyangdi - 1.6 MW						
A1	Local Transportation, Insurance and other incidental services	LS	1	<i>Please Refer to Schedule No.:1</i>			
Total for Schedule 3 (Total of column 7 and 8 to be carried forward to Schedule 8: Grand Summary)							

Name of the Bidder:
Signature of the Bidder:
(Printed Name)
(Designation)
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Date:

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Schedule No. 4: Design Services

FC: Foreign Currency, LC: Local Currency

S.No.	Description of Items	Unit	Quantity	Unit Price		Total Price	
				LC Portion	FC Portion	LC Portion	FC Portion
1	2	3	4	5	6	7 = 4 X 5	8 = 4 X 6
A	Survey, Design and Investigation for Middle Marshyangdi - 1.6 MW						
A1	Pre-construction survey and investigations, and detail design of PV plant and transmission line (electrical, electronics, civil and mechanical) all complete	LS	1				
Total for Schedule 4 (Total of column 8 to be carried forward to Schedule 8: Grand Summary)							

Name of the Bidder:
Signature of the Bidder:
(Printed Name)
(Designation)
(Company Seal)

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Schedule No. 5: Installation and Other Services

(a) Installation and Construction Charges
(b) LC: Local Currency

S.No.	Description of Items	Unit	Quantity	Installation and Construction	
				Unit Rate	Amount
1	2	3	4	5	6 = 4 X 5
Part - A Installation, Middle Marshyangdi - 1.6 MW					
A1	Installation, testing and commissioning of PV Modules of N-Type 1500 VDC at least 600Wp, MC4 Connectors, and accessories all complete as specified in the Employer's Requirements	kW	1600	-	-
A2	Installation, testing and commissioning of String Inverters of 1500V, its mounting structure, and accessories all complete as specified in the Employer's Requirement	kW	1600	-	-
A3	Installation, testing and commissioning of Combiner box of 1500V and accessories all complete as specified in the Employer's Requirement	Lot	1	-	-
A4	Installation, testing and commissioning of 0.8/33kV Power Transformer, its mounting rail, with associated accessories all complete as specified in Employer's Requirement	Set	1	-	-
A5	Installation, testing and commissioning of Module Mounting Structure, hardware, and accessories all complete as specified in the Employer's Requirement	Lot	1	-	-
A6	Installation, testing and commissioning of Weather Monitoring Stations all complete as specified in the Employer's Requirement	Lot	1	-	-
A7	Installation, testing and commissioning of SCADA System, required software and hardware, cables, and associated accessories all complete as specified in the Employer's Requirement	Lot	1	-	-
A8	Installation, testing and commissioning of HT Panels of 33/36kV, 1250 A with required accessories all complete	Lot	1	-	-
A9	Installation, testing and commissioning of LT Panels of 800V with required accessories all complete	Lot	1	-	-
A10	Installation, testing and commissioning of 33kV bay equipment such as CT, PT, VCB, etc with required accessories all complete	Lot	1	-	-
A11	Installation, testing and commissioning of Control and Relay Panel of 33kV with required accessories all complete	Lot	1	-	-
A12	Installation, testing and commissioning of Cables (All DC, LT, HT, communication and ancilliary, etc), cable trays, and accessories all complete as specified in the Employer's Requirement	Lot	1	-	-
A13	Installation, testing and commissioning of Balance of System including Switchyard steel structures, security and surveillance system to monitor entire PV plant area and solar substation with monitoring system and all accessories all complete, auxiliary power supply system, earthing and lightning system for PV area and solar substation area all complete, flood and led bollard lights and its accessories all complete for PV area and solar substation, fire protection system, batteries and chargers for charging anel and feeder panel all complete, energy meter and metering equipment, UPS and batteries, etc. as specified in the Employer's requirement and all other supplies as required to commission the system	Lot	1	-	-
A14	Installation, testing and commissioning of 33kV overhead transmission line materials and accessories all complete as specified in the Employer's requirement and all other supplies as required to commission the system	km	1	-	-
Sub-Total for Part A					-
Part - B CIVIL WORKS, Middle Marshyangdi - 1.6 MW					
B1	Construction of Main Control Building civil works including materials all complete as specified in Employer's Requirements	Lot	1	-	-
B2	Construction of Cable Trench Works works including materials all complete as specified in Employer's Requirements	Lot	1	-	-
B3	Construction of Foundation Works including materials all complete as specified in Employer's Requirements	Lot	1	-	-
B4	Construction of Fencing with Toe Wall Works including materials all complete as specified in Employer's Requirements	Lot	1	-	-
B5	Construction of Module Cleaning System including materials all complete as specified in Employer's Requirements	Lot	1	-	-
B6	Construction of Switchyard Area civil works including materials all complete as specified in Employer's Requirements	Lot	1	-	-
B7	Construction of Conrete Lined Stone Masonary Drainage System including materials all complete as specified in Employer's Requirements	Lot	1	-	-
Sub-Total for Part B					-
Total for Schedule 5 (Total of column 5 to be carried forward to Schedule 8: Grand Summary)					-

Name of the Bidder:
Signature of the Bidder:
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Schedule No. 6: Environmental, Social, Health and Safety Requirements

FC: Foreign Currency

S.No.	Description of Items	Unit	Quantity	Unit Price	Total Price
				FC Portion	FC Portion
1	2	3	4	5	6 = 4 X 5
A	Environmental, Social, Health and Safety for Middle Marshyangdi - 1.6 MW				
A1	Preparation and execution of Environmental, Social, Health and Safety plan including fulfillment of all the requirements as specified in the Employer's Requirement	LS	1		-
Total of Schedule 6 (Total of column 6 to be carried forward to Schedule 8: Grand Summary)					-

Name of the Bidder:
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The Procurement of utility Scale Ground Mounted Photovoltaic Systems, Bid No.: ICB-SEPP-EPC-SOLAR-01/2024-KfW-BMZ-PN511010

Schedule No. 7: Operational and Maintenance Requirements

FC: Foreign Currency

S.No.	Description of Items	Unit	Quantity	Unit Price	Total Price
				FC Portion	FC Portion
1	2	3	4	5	6 = 4 X 5
A	Operations and Maintenance of PV Plant for Middle Marshyangdi - 1.6 MW				
	Year - 1	LS	1		-
	Year - 2	LS	1		-
	Year - 3	LS	1		-
	Year - 4	LS	1		-
	Year - 5	LS	1		-
Total of Schedule 7 (Total of column 6 to be carried forward to Schedule 8: Grand Summary)					-

Name of the Bidder:
Signature of the Bidder:
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The Procurement of utility Scale Ground Mounted Photovoltaic Systems, Bid No.: ICB-SEPP-EPC-SOLAR-01/2024-KfW-BMZ-
PN511010
Schedule No. 8: Grand Summary

FC: Foreign Currency

S.No.	Description of Items	Total Price	Total Price
		LC Portion	FC Portion
1	2	3	4
	Grand Summary for Middle Marshyangdi 1.6 MW		
A	Total Schedule No. 1		
B	Total Schedule No. 2		
C	Total Schedule No. 3	<i>Not Applicable</i>	
D	Total Schedule No. 4		
E	Total Schedule No. 5		
F	Total Schedule No. 6		
G	Total Schedule No. 7		
	Grand Total A+B+D+E+F+G		

Name of the Bidder:
Signature of the Bidder:
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(Designation)
(Company Seal)

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

FC: Foreign Currency, LC: Local Currency

S.No.	Description of Items	Country of Origin	Unit	Quantity	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
					FC			FC	LC
					Currency	Unit Rate	Amount	8 = 7 X 5	9 = 8
1	2	3	4	5	6	7	8 = 7 X 5	9 = 8	10
Part - A MATERIALS, Surkhet - 2.0 MW									
A1	Supply, delivery, installation, testing and commissioning of PV Modules of N-Type 1500 VDC at least 600Wp, MC4 Connectors, and accessories all complete as specified in the Employer's Requirements		kW	2000			-	-	
A2	Supply, delivery, installation, testing and commissioning of String Inverters of 1500V, its mounting structure, and accessories all complete as specified in the Employer's Requirement		kW	2000			-	-	
A3	Supply, delivery, installation, testing and commissioning of Combiner box of 1500V and accessories all complete as specified in the Employer's Requirement		Lot	1			-	-	
A4	Supply, delivery, installation, testing and commissioning of 0.8/33kV Power Transformer, its mounting rail, with associated accessories all complete as specified in Employer's Requirement		Set	1			-	-	
A5	Supply, delivery, installation, testing and commissioning of Module Mounting Structure, hardware, and accessories all complete as specified in the Employer's Requirement		Lot	1			-	-	
A6	Supply, delivery, installation, testing and commissioning of Weather Monitoring Stations all complete as specified in the Employer's Requirement		Lot	1			-	-	
A7	Supply, delivery, installation, testing and commissioning of SCADA System, required software and hardware, cables, and associated accessories all complete as specified in the Employer's Requirement		Lot	1			-	-	
A8	Supply, delivery, installation, testing and commissioning of HT Panels of 33/36kV, 1250 A with required accessories all complete		Lot	1			-	-	
A9	Supply, delivery, installation, testing and commissioning of LT Panels of 800V with required accessories all complete		Lot	1			-	-	
A10	Supply, delivery, installation, testing and commissioning of 33kV bay equipment such as CT, PT, VCB, etc with required accessories all complete		Lot	1			-	-	
A11	Supply, delivery, installation, testing and commissioning of Control and Relay Panel of 33kV with required accessories all complete		Lot	1			-	-	
A12	Supply, delivery, installation, testing and commissioning of Cables (All DC, LT, HT, communication and ancillary, etc), cable trays, and accessories all complete as specified in the Employer's Requirement		Lot	1			-	-	
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A14	Supply, delivery, installation, testing and commissioning of 33kV overhead transmission line materials and accessories all complete as specified in the Employer's requirement and all other supplies as required to commission the system		km	3.5			-	-	
A15	All equipment and tools as required to fulfill requirements as per the Employer's Requirement		Lot	1			-	-	
A16	Mandatory spare parts as specified in the Employer's Requirement		Lot	1			-	-	
Total for Schedule 1 (Total of column 9 to be carried forward to Schedule 8: Grand Summary)							-	-	

Note:

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- 2) BoQ given above is indicative only based on the scope of work as given in the Employer's Requirements. The above quantities may vary during the detailed engineering to meet the functional requirement and complete scope of work for successful commissioning and operations of project. However, the cost of the such quantities shall deem to be included in the above items.
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Schedule No. 2: Plant and Equipment including Mandatory Spares to be supplied from within Nepal

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A3	Supply, delivery, installation, testing and commissioning of Combiner box of 1500V and accessories all complete as specified in the Employer's Requirement	Lot	1						
A4	Supply, delivery, installation, testing and commissioning of 0.8/33kV Power Transformer, its mounting rail, with associated accessories all complete as specified in Employer's Requirement	Set	1						
A5	Supply, delivery, installation, testing and commissioning of Module Mounting Structure, hardware, and accessories all complete as specified in the Employer's Requirement	Lot	1						
A6	Supply, delivery, installation, testing and commissioning of Weather Monitoring Stations all complete as specified in the Employer's Requirement	Lot	1						
A7	Supply, delivery, installation, testing and commissioning of SCADA System, required software and hardware, cables, and associated accessories all complete as specified in the Employer's Requirement	Lot	1						
A8	Supply, delivery, installation, testing and commissioning of HT Panels of 33/36kV, 1250 A with required accessories all complete	Lot	1						
A9	Supply, delivery, installation, testing and commissioning of LT Panels of 800V with required accessories all complete	Lot	1						
A10	Supply, delivery, installation, testing and commissioning of 33kV bay equipment such as CT, PT, VCB, etc with required accessories all complete	Lot	1						
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A13	Supply, delivery, installation, testing and commissioning of Balance of System including Switchyard steel structures, security and surveillance system to monitor entire PV plant area and solar substation with monitoring system and all accessories all complete, auxiliary power supply system, earthing and lightning system for PV area and solar substation area all complete, flood and led bollard lights and its accessories all complete for PV area and solar substation, fire protection system, batteries and chargers for charging anel and feeder panel all complete, energy meter and metering equipment, UPS and batteries, etc. as specified in the Employer's requirement and all other supplies as required to commission the system	Lot	1						
A14	Supply, delivery, installation, testing and commissioning of 33kV overhead transmission line materials and accessories all complete as specified in the Employer's requirement and all other supplies as required to commission the system	km	3.5						
A15	All equipment and tools as required to fulfill requirements as per the Employer's Requirement	Lot	1						
A16	Mandatory spare parts as specified in the Employer's Requirement	Lot	1						
Total for Schedule 2 (Total of column 9 to be carried forward to Schedule 8: Grand Summary)									

Note:

1) The bidder is required to quote prices in this Schedule for the items which they wish to supply from within Nepal.

Name of the Bidder:
Signature of the Bidder:
(Printed Name)
(Designation)
(Company Seal)

Date:

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The Procurement of utility Scale Ground Mounted Photovoltaic Systems, Bid No.: ICB-SEPP-EPC-SOLAR-01/2024-KfW-BMZ-PN511010

Schedule No. 3: Local Transportation, Insurance and other incidental services

FC: Foreign Currency, LC: Local Currency

S.No.	Description of Items	Unit	Quantity	Unit Price		Total Price		
				LC Portion	FC Portion	LC Portion	FC Portion	
1	2	3	4	5	6	7 = 4 X 5	8 = 4 X 6	
A	Local Transportation, Insurance and other incidental services Surkhet - 2.0 MW							
A1	Local Transportation, Insurance and other incidental services	LS	1	<i>Please Refer to Schedule No.:1</i>				
Total for Schedule 3 (Total of column 7 and 8 to be carried forward to Schedule 8: Grand Summary)								

Name of the Bidder:
Signature of the Bidder:
(Printed Name)
(Designation)
(Company Seal)

Date:

NEPAL ELECTRICITY AUTHORITY
Distribution and Consumer Services Directorate
Planning and Technical Services Department
Promotion of Solar Energy in Rural and Semi Urban Region II Project

The Procurement of utility Scale Ground Mounted Photovoltaic Systems, Bid No.: ICB-SEPP-EPC-SOLAR-01/2024-KfW-BMZ-PN511010

Schedule No. 4: Design Services

FC: Foreign Currency, LC: Local Currency

S.No.	Description of Items	Unit	Quantity	Unit Price		Total Price	
				LC Portion	FC Portion	LC Portion	FC Portion
1	2	3	4	5	6	7 = 4 X 5	8 = 4 X 6
A	Survey, Design and Investigation for Surkhet - 2.0 MW						
A1	Pre-construction survey and investigations, and detail design of PV plant and transmission line (electrical, electronics, civil and mechanical) all complete	LS	1				
Total for Schedule 4 (Total of column 7 and 8 to be carried forward to Schedule 8: Grand Summary)							

Name of the Bidder:
Signature of the Bidder:
(Printed Name)
(Designation)
(Company Seal)

Date:

NEPAL ELECTRICITY AUTHORITY
Distribution and Consumer Services Directorate
Planning and Technical Services Department
Promotion of Solar Energy in Rural and Semi Urban Region II Project

The Procurement of utility Scale Ground Mounted Photovoltaic Systems, Bid No.: ICB-SEPP-EPC-SOLAR-01/2024-KfW-BMZ-PN511010

Schedule No. 5: Installation and Other Services

(a) Installation and Construction Charges
(b) LC: Local Currency

S.No.	Description of Items	Unit	Quantity	Installation and Construction LC	
				Unit Rate	Amount
1	2	3	4	5	6 = 4 X 5
Part - A Installation, Surkhet - 2.0 MW					
A1	Installation, testing and commissioning of PV Modules of N-Type 1500 VDC at least 600Wp, MC4 Connectors, and accessories all complete as specified in the Employer's Requirements	kW	2000	-	-
A2	Installation, testing and commissioning of String Inverters of 1500V, its mounting structure, and accessories all complete as specified in the Employer's Requirement	kW	2000	-	-
A3	Installation, testing and commissioning of Combiner box of 1500V and accessories all complete as specified in the Employer's Requirement	Lot	1	-	-
A4	Installation, testing and commissioning of 0.8/33kV Power Transformer, its mounting rail, with associated accessories all complete as specified in Employer's Requirement	Set	1	-	-
A5	Installation, testing and commissioning of Module Mounting Structure, hardware, and accessories all complete as specified in the Employer's Requirement	Lot	1	-	-
A6	Installation, testing and commissioning of Weather Monitoring Stations all complete as specified in the Employer's Requirement	Lot	1	-	-
A7	Installation, testing and commissioning of SCADA System, required software and hardware, cables, and associated accessories all complete as specified in the Employer's Requirement	Lot	1	-	-
A8	Installation, testing and commissioning of HT Panels of 33/36kV, 1250 A with required accessories all complete	Lot	1	-	-
A9	Installation, testing and commissioning of LT Panels of 800V with required accessories all complete	Lot	1	-	-
A10	Installation, testing and commissioning of 33kV bay equipment such as CT, PT, VCB, etc with required accessories all complete	Lot	1	-	-
A11	Installation, testing and commissioning of Control and Relay Panel of 33kV with required accessories all complete	Lot	1	-	-
A12	Installation, testing and commissioning of Cables (All DC, LT, HT, communication and ancillary, etc), cable trays, and accessories all complete as specified in the Employer's Requirement	Lot	1	-	-
A13	Installation, testing and commissioning of Balance of System including Switchyard steel structures, security and surveillance system to monitor entire PV plant area and solar substation with monitoring system and all accessories all complete, auxiliary power supply system, earthing and lightning system for PV area and solar substation area all complete, flood and led bollard lights and its accessories all complete for PV area and solar substation, fire protection system, batteries and chargers for charging anel and feeder panel all complete, energy meter and metering equipment, UPS and batteries, etc. as specified in the Employer's requirement and all other supplies as required to commission the system	Lot	1	-	-
A14	Installation, testing and commissioning of 33kV overhead transmission line materials and accessories all complete as specified in the Employer's requirement and all other supplies as required to commission the system	km	3.5	-	-
Sub-Total for Part A					-
Part - B CIVIL WORKS, Surkhet - 2.0 MW					
B1	Construction of Main Control Building civil works including materials all complete as specified in Employer's Requirements	Lot	1	-	-
B2	Construction of Cable Trench Works works including materials all complete as specified in Employer's Requirements	Lot	1	-	-
B3	Construction of Foundation Works including materials all complete as specified in Employer's Requirements	Lot	1	-	-
B4	Construction of Fencing with Toe Wall Works including materials all complete as specified in Employer's Requirements	Lot	1	-	-
B5	Construction of Module Cleaning System including materials all complete as specified in Employer's Requirements	Lot	1	-	-
B6	Construction of Switchyard Area civil works including materials all complete as specified in Employer's Requirements	Lot	1	-	-
B7	Construction of Conrete Lined Stone Masonary Drainage System including materials all complete as specified in Employer's Requirements	Lot	1	-	-
B8	Construction of Retaining Wall including materials all complete as specified in Employer's Requirements	Lot	1	-	-
Sub-Total for Part B					-
Total for Schedule 5 (Total of column 5 to be carried forward to Schedule 8: Grand Summary)					-

Name of the Bidder:
Signature of the Bidder:
(Printed Name)
(Designation)
(Company Seal)

Date:

NEPAL ELECTRICITY AUTHORITY
Distribution and Consumer Services Directorate
Planning and Technical Services Department
Promotion of Solar Energy in Rural and Semi Urban Region II Project

The Procurement of utility Scale Ground Mounted Photovoltaic Systems, Bid No.: ICB-SEPP-EPC-SOLAR-01/2024-KfW-BMZ-PN511010

Schedule No. 6: Environmental, Social, Health and Safety Requirements

FC: Foreign Currency

S.No.	Description of Items	Unit	Quantity	Unit Price	Total Price
				FC Portion	FC Portion
1	2	3	4	5	6 = 4 X 5
A	Environmental, Social, Health and Safety for Surkhet - 2.0 MW				
A1	Preparation and execution of Environmental, Social, Health and Safety plan including fulfillment of all the requirements as specified in the Employer's Requirement	LS	1		-
Total of Schedule 6 (Total of column 6 to be carried forward to Schedule 8: Grand Summary)					-

Name of the Bidder:
Signature of the Bidder:
(Printed Name)
(Designation)
(Company Seal)

Date:

NEPAL ELECTRICITY AUTHORITY
Distribution and Consumer Services Directorate
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The Procurement of utility Scale Ground Mounted Photovoltaic Systems, Bid No.: ICB-SEPP-EPC-SOLAR-01/2024-KfW-BMZ-PN511010

Schedule No. 7: Operational and Maintenance Requirements

FC: Foreign Currency

S.No.	Description of Items	Unit	Quantity	Unit Price	Total Price
				FC Portion	FC Portion
1	2	3	4	5	6 = 4 X 5
A	Operations and Maintenance of PV Plant for Surkhet - 2.0 MW				
	Year - 1	LS	1		-
	Year - 2	LS	1		-
	Year - 3	LS	1		-
	Year - 4	LS	1		-
	Year - 5	LS	1		-
Total of Schedule 7 (Total of column 6 to be carried forward to Schedule 8: Grand Summary)					-

Name of the Bidder:
Signature of the Bidder:
(Printed Name)
(Designation)
(Company Seal)

Date:

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Distribution and Consumer Services Directorate
Planning and Technical Services Department
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The Procurement of utility Scale Ground Mounted Photovoltaic Systems, Bid No.: ICB-SEPP-EPC-SOLAR-01/2024-KfW-BMZ-PN511010

Schedule No. 8: Grand Summary

FC: Foreign Currency

S.No.	Description of Items	Total Price	Total Price
		LC Portion	FC Portion
1	2	3	4
	Grand Summary for Surkhet 2.0 MW		
A	Total Schedule No. 1		
B	Total Schedule No. 2		
C	Total Schedule No. 3	<i>Not Applicable</i>	
D	Total Schedule No. 4		
E	Total Schedule No. 5		
F	Total Schedule No. 6		
G	Total Schedule No. 7		
	Grand Total A+B+D+E+F+G		

Name of the Bidder:
Signature of the Bidder:
(Printed Name)
(Designation)
(Company Seal)

Date:

NEPAL ELECTRICITY AUTHORITY
Distribution and Consumer Services Directorate
Planning and Technical Services Department
Promotion of Solar Energy in Rural and Semi Urban Region II Project

The Procurement of utility Scale Ground Mounted Photovoltaic Systems, Bid No.: ICB-SEPP-EPC-SOLAR-01/2024-KfW-BMZ-PN511010

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

FC: Foreign Currency, LC: Local Currency

S.No.	Description of Items	Country of Origin	Unit	Quantity	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
					FC			FC	LC
					Currency	Unit Rate	Amount	8 = 7 X 5	9 = 8
1	2	3	4	5	6	7	8 = 7 X 5	9 = 8	10
	Part - A MATERIALS, Gandak- 5.8 MW								
A1	Supply, delivery, installation, testing and commissioning of PV Modules of N-Type 1500 VDC at least 600Wp, MC4 Connectors, and accessories all complete as specified in the Employer's Requirements		kW	5800			-	-	
A2	Supply, delivery, installation, testing and commissioning of String Inverters of 1500V, its mounting structure, and accessories all complete as specified in the Employer's Requirement		kW	5800			-	-	
A3	Supply, delivery, installation, testing and commissioning of Combiner box of 1500V and accessories all complete as specified in the Employer's Requirement		Lot	1			-	-	
A4	Supply, delivery, installation, testing and commissioning of 0.8/33KV Power Transformer, its mounting rail, with associated accessories all complete as specified in Employer's Requirement		Set	2			-	-	
A5	Supply, delivery, installation, testing and commissioning of Module Mounting Structure, hardware, and accessories all complete as specified in the Employer's Requirement		Lot	1			-	-	
A6	Supply, delivery, installation, testing and commissioning of Weather Monitoring Stations all complete as specified in the Employer's Requirement		Lot	1			-	-	
A7	Supply, delivery, installation, testing and commissioning of SCADA System, required software and hardware, cables, and associated accessories all complete as specified in the Employer's Requirement		Lot	1			-	-	
A8	Supply, delivery, installation, testing and commissioning of HT Panels of 33/36kV, 1250 A with required accessories all complete		Lot	1			-	-	
A9	Supply, delivery, installation, testing and commissioning of LT Panels of 800V with required accessories all complete		Lot	1			-	-	
A10	Supply, delivery, installation, testing and commissioning of 33kV bay equipment such as CT, PT, VCB, etc with required accessories all complete		Lot	1			-	-	
A11	Supply, delivery, installation, testing and commissioning of Control and Relay Panel of 33kV with required accessories all complete		Lot	1			-	-	
A12	Supply, delivery, installation, testing and commissioning of Cables (All DC, LT, HT, communication and ancillary, etc), cable trays, and accessories all complete as specified in the Employer's Requirement		Lot	1			-	-	
A13	Supply, delivery, installation, testing and commissioning of Balance of System including Switchyard steel structures, security and surveillance system to monitor entire PV plant area and solar substation with monitoring system and all accessories all complete, auxiliary power supply system, earthing and lightning system for PV area and solar substation area all complete, flood and led bollard lights and its accessories all complete for PV area and solar substation, fire protection system, batteries and chargers for charging anel and feeder panel all complete, energy meter and metering equipment, UPS and batteries, etc. as specified in the Employer's requirement and all other supplies as required to commission the system		Lot	1			-	-	
A14	All equipment and tools as required to fulfill requirements as per the Employer's Requirement		Lot	1			-	-	
A15	Mandatory spare parts as specified in the Employer's Requirement		Lot	1			-	-	
	Total for Schedule 1 (Total of column 9 to be carried forward to Schedule 8: Grand Summary)						-	-	

Note:

- 1) The prices of equipment must be inclusive of type test charges, testing and commissioning.
- 2) BoQ given above is indicative only based on the scope of work as given in the Employer's Requirements. The above quantities may vary during the detailed engineering to meet the functional requirement and complete scope of work for successful commissioning and operations of project. However, the cost of the such quantities shall deem to be included in the above items.
- 3) The defined plant capacity in kW is the minimum requirement. The bidder should quote the price considering kWp (installed capacity) based on their own system sizing.

Name of the Bidder:
Signature of the Bidder:
(Printed Name)
(Designation)
(Company Seal)

Date:

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 Promotion of Solar Energy in Rural and Semi Urban Region II Project

The Procurement of utility Scale Ground Mounted Photovoltaic Systems, Bid No.: ICB-SEPP-EPC-SOLAR-01/2024-KfW-BMZ-PN511010

Schedule No. 2: Plant and Equipment including Mandatory Spares to be supplied from within Nepal

LC: Local Currency (All Prices in Local Currency)

S.No.	Description of Items	Unit	Quantity	Ex Factory Price (Excluding VAT) in LC		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
	Part - A MATERIALS, Gandak- 5.8 MW								
A1	Supply, delivery, installation, testing and commissioning of PV Modules of N-Type 1500 VDC at least 600Wp, MC4 Connectors, and accessories all complete as specified in the Employer's Requirements	kW	5800						
A2	Supply, delivery, installation, testing and commissioning of String Inverters of 1500V, its mounting structure, and accessories all complete as specified in the Employer's Requirement	kW	5800						
A3	Supply, delivery, installation, testing and commissioning of Combiner box of 1500V and accessories all complete as specified in the Employer's Requirement	Lot	1						
A4	Supply, delivery, installation, testing and commissioning of 0.8/33kV Power Transformer, its mounting rail, with associated accessories all complete as specified in Employer's Requirement	Set	2						
A5	Supply, delivery, installation, testing and commissioning of Module Mounting Structure, hardware, and accessories all complete as specified in the Employer's Requirement	Lot	1						
A6	Supply, delivery, installation, testing and commissioning of Weather Monitoring Stations all complete as specified in the Employer's Requirement	Lot	1						
A7	Supply, delivery, installation, testing and commissioning of SCADA System, required software and hardware, cables, and associated accessories all complete as specified in the Employer's Requirement	Lot	1						
A8	Supply, delivery, installation, testing and commissioning of HT Panels of 33/36kV, 1250 A with required accessories all complete	Lot	1						
A9	Supply, delivery, installation, testing and commissioning of LT Panels of 800V with required accessories all complete	Lot	1						
A10	Supply, delivery, installation, testing and commissioning of 33kV bay equipment such as CT, PT, VCB, etc with required accessories all complete	Lot	1						
A11	Supply, delivery, installation, testing and commissioning of Control and Relay Panel of 33kV with required accessories all complete	Lot	1						
A12	Supply, delivery, installation, testing and commissioning of Cables (All DC, LT, HT, communication and ancillary, etc), cable trays, and accessories all complete as specified in the Employer's Requirement	Lot	1						
A13	Supply, delivery, installation, testing and commissioning of Balance of System including Switchyard steel structures, security and surveillance system to monitor entire PV plant area and solar substation with monitoring system and all accessories all complete, auxiliary power supply system, earthing and lightning system for PV area and solar substation area all complete, flood and led bollard lights and its accessories all complete for PV area and solar substation, fire protection system, batteries and chargers for charging anel and feeder panel all complete, energy meter and metering equipment, UPS and batteries, etc. as specified in the Employer's requirement and all other supplies as required to commission the system	Lot	1						
A14	All equipment and tools as required to fulfill requirements as per the Employer's Requirement	Lot	1						
A15	Mandatory spare parts as specified in the Employer's Requirement	Lot	1						
Total for Schedule 2 (Total of column 9 to be carried forward to Schedule 8: Grand Summary)									

Note:

1) The bidder is required to quote prices in this Schedule for the items which they wish to supply from within Nepal.

Name of the Bidder:
Signature of the Bidder:
 (Printed Name)
 (Designation)
 (Company Seal)

Date:

NEPAL ELECTRICITY AUTHORITY
 Distribution and Consumer Services Directorate
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 Promotion of Solar Energy in Rural and Semi Urban Region II Project

The Procurement of utility Scale Ground Mounted Photovoltaic Systems, Bid No.: ICB-SEPP-EPC-SOLAR-01/2024-KfW-BMZ-PN511010

Schedule No. 3: Local Transportation, Insurance and other incidental services

FC: Foreign Currency, LC: Local Currency

S.No.	Description of Items	Unit	Quantity	Unit Price		Total Price	
				LC Portion	FC Portion	LC Portion	FC Portion
1	2	3	4	5	6	7 = 4 X 5	8 = 4 X 6
A	Local Transportation, Insurance and other incidental services for Gandak- 5.8 MW						
A1	Local Transportation, Insurance and other incidental services	LS	1	<i>Please Refer to Schedule No.:1</i>			
Total for Schedule 3 (Total of column 7 and 8 to be carried forward to Schedule 8: Grand Summary)							

Name of the Bidder:
 Signature of the Bidder:
 (Printed Name)
 (Designation)
 (Company Seal)

Date:

NEPAL ELECTRICITY AUTHORITY
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The Procurement of utility Scale Ground Mounted Photovoltaic Systems, Bid No.: ICB-SEPP-EPC-SOLAR-01/2024-KfW-BMZ-PN511010

Schedule No. 4: Design Services

FC: Foreign Currency, LC: Local Currency

S.No.	Description of Items	Unit	Quantity	Unit Price		Total Price	
				LC Portion	FC Portion	LC Portion	FC Portion
1	2	3	4	5	6	7 = 4 X 5	8 = 4 X 6
	Survey, Design and Investigation for Gandak- 5.8 MW						
A	Pre-construction survey and investigations, and detail design of PV plant (electrical, electronics, civil and mechanical) all complete	LS	1				
	Total for Schedule 4 (Total of column 7 and 8 to be carried forward to Schedule 8: Grand Summary)						

Name of the Bidder:
Signature of the Bidder:
(Printed Name)
(Designation)
(Company Seal)

Date:

NEPAL ELECTRICITY AUTHORITY
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Promotion of Solar Energy in Rural and Semi Urban Region II Project

The Procurement of utility Scale Ground Mounted Photovoltaic Systems, Bid No.: ICB-SEPP-EPC-SOLAR-01/2024-KfW-BMZ-PN511010

Schedule No. 5: Installation and Other Services

(a) Installation and Construction Charges
(b) LC: Local Currency

S.No.	Description of Items	Unit	Quantity	Installation and Construction LC	
				Unit Rate	Amount
1	2	3	4	5	6 = 4 X 5
Part - A Installation, Gandak - 5.8 MW					
A1	Installation, testing and commissioning of PV Modules of N-Type 1500 VDC at least 600Wp, MC4 Connectors, and accessories all complete as specified in the Employer's Requirements	kW	5800	-	-
A2	Installation, testing and commissioning of String Inverters of 1500V, its mounting structure, and accessories all complete as specified in the Employer's Requirement	kW	5800	-	-
A3	Installation, testing and commissioning of Combiner box of 1500V and accessories all complete as specified in the Employer's Requirement	Lot	1	-	-
A4	Installation, testing and commissioning of 0.8/33kV Power Transformer, its mounting rail, with associated accessories all complete as specified in Employer's Requirement	Set	2	-	-
A5	Installation, testing and commissioning of Module Mounting Structure, hardware, and accessories all complete as specified in the Employer's Requirement	Lot	1	-	-
A6	Installation, testing and commissioning of Weather Monitoring Stations all complete as specified in the Employer's Requirement	Lot	1	-	-
A7	Installation, testing and commissioning of SCADA System, required software and hardware, cables, and associated accessories all complete as specified in the Employer's Requirement	Lot	1	-	-
A8	Installation, testing and commissioning of HT Panels of 33/36kV, 1250 A with required accessories all complete	Lot	1	-	-
A9	Installation, testing and commissioning of LT Panels of 800V with required accessories all complete	Lot	1	-	-
A10	Installation, testing and commissioning of 33kV bay equipment such as CT, PT, VCB, etc with required accessories all complete	Lot	1	-	-
A11	Installation, testing and commissioning of Control and Relay Panel of 33kV with required accessories all complete	Lot	1	-	-
A12	Installation, testing and commissioning of Cables (All DC, LT, HT, communication and ancillary, etc), cable trays, and accessories all complete as specified in the Employer's Requirement	Lot	1	-	-
A13	Installation, testing and commissioning of Balance of System including Switchyard steel structures, security and surveillance system to monitor entire PV plant area and solar substation with monitoring system and all accessories all complete, auxiliary power supply system, earthing and lightning system for PV area and solar substation area all complete, flood and led bollard lights and its accessories all complete for PV area and solar substation, fire protection system, batteries and chargers for charging anel and feeder panel all complete, energy meter and metering equipment, UPS and batteries, etc. as specified in the Employer's requirement and all other supplies as required to commission the system	Lot	1	-	-
Sub-Total for Part A					-
Part - B CIVIL WORKS, Gandaki - 5.8 MW					
B1	Construction of Main Control Building civil works including materials all complete as specified in Employer's Requirements	Lot	1	-	-
B2	Construction of Cable Trench Works works including materials all complete as specified in Employer's Requirements	Lot	1	-	-
B3	Construction of Foundation Works including materials all complete as specified in Employer's Requirements	Lot	1	-	-
B4	Construction of Fencing with Toe Wall Works including materials all complete as specified in Employer's Requirements	Lot	1	-	-
B5	Construction of Module Cleaning System including materials all complete as specified in Employer's Requirements	Lot	1	-	-
B6	Construction of Switchyard Area civil works including materials all complete as specified in Employer's Requirements	Lot	1	-	-
Sub-Total for Part B					-
Total for Schedule 5 (Total of column 6 to be carried forward to Schedule 8: Grand Summary)					-

Name of the Bidder:
Signature of the Bidder:
(Printed Name)
(Designation)
(Company Seal)

Date:

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The Procurement of utility Scale Ground Mounted Photovoltaic Systems, Bid No.: ICB-SEPP-EPC-SOLAR-01/2024-KfW-BMZ-PN511010

Schedule No. 6: Environmental, Social, Health and Safety Requirements

FC: Foreign Currency

S.No.	Description of Items	Unit	Quantity	Unit Price	Total Price
				FC Portion	FC Portion
1	2	3	4	5	6 = 4 X 5
A	Environmental, Social, Health and Safety for Gandak - 5.8 MW				
A1	Preparation and execution of Environmental, Social, Health and Safety plan including fulfillment of all the requirements as specified in the Employer's Requirement	LS	1		-
Total of Schedule 6 (Total of column 6 to be carried forward to Schedule 8: Grand Summary)					-

Name of the Bidder:
Signature of the Bidder:
(Printed Name)
(Designation)
(Company Seal)

Date:

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The Procurement of utility Scale Ground Mounted Photovoltaic Systems, Bid No.: ICB-SEPP-EPC-SOLAR-01/2024-KfW-BMZ-PN511010

Schedule No. 7: Operational and Maintenance Requirements

FC: Foreign Currency

S.No.	Description of Items	Unit	Quantity	Unit Price	Total Price
				FC Portion	FC Portion
1	2	3	4	5	6 = 4 X 5
A	Operations and Maintenance of PV Plant for Gandak - 5.8 MW				
	Year - 1	LS	1		-
	Year - 2	LS	1		-
	Year - 3	LS	1		-
	Year - 4	LS	1		-
	Year - 5	LS	1		-
Total of Schedule 7 (Total of column 6 to be carried forward to Schedule 8: Grand Summary)					-

Name of the Bidder:
Signature of the Bidder:
 (Printed Name)
 (Designation)
 (Company Seal)

Date:

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The Procurement of utility Scale Ground Mounted Photovoltaic Systems, Bid No.: ICB-SEPP-EPC-SOLAR-01/2024-KfW-BMZ-PN511010
Schedule No. 8: Grand Summary

FC: Foreign Currency

S.No.	Description of Items	Total Price	Total Price
		LC Portion	FC Portion
1	2	3	4
	Grand Summary for Gandak 5.8 MW		
A	Total Schedule No. 1		
B	Total Schedule No. 2		
C	Total Schedule No. 3	<i>Not Applicable</i>	
D	Total Schedule No. 4		
E	Total Schedule No. 5		
F	Total Schedule No. 6		
G	Total Schedule No. 7		
	Grand Total A+B+D+E+F+G		

Name of the Bidder:
Signature of the Bidder:
(Printed Name)
(Designation)
(Company Seal)

Date: