

Republic of Uganda Ministry of Water and Environment

Electricity Access Scale Up Project (EASP)

Project ID: P166685

Supply, Installation and Commissioning of Solar Photovoltaic (PV) Energy Packages for Water Supply Schemes

Lot 1: Supply, Installation and Commissioning of 10 Solar Photovoltaic (PV) Energy Packages for Water Supply Schemes in Kiwenda, Kikyusa, Bamunanika, Banda, Ssekanyonyi, Mayanga, Kayunga, Buyende-2, Kagulu and Kasambira

Procurement Reference No: MWE/SUPLS/23-24/00007/1

Volume 2 - Price Schedules

Date of Issue: November 2023

Electricity Access Scale Up Project (EASP)- Water Component Lot 1: Supply, Installation and Commissioning of 10 Solar Photovoltaic (PV) Energy Packages for Water Supply Schemes in Kiwenda, Kikyusa, Bamunanika, Banda, Ssekanyonyi, Mayanga, Kayunga, Buyende-2, Kagulu and Kasambira Schedule of Rates and Prices Schedule No. 1. Plant and Mandatory Spare Parts Supplied from Abroad

	Schedule No. 1. Plant and Mandatory Spare Parts Supplied from Abroad							
ltem	Description	Code ¹	Qty. Unit		Unit	Price ² CIP	Total Price ²	
			(1)		(2)	(3)	(1) x (3)	
1	Solar Array mounting frame							
	Solar Array mounting frame made from rust free/resistant aluminium metal supported by aluminium angle sections onto reinforced concrete base supplied and constructed to specifications. Special bolts and nuts with arren-keys shall be				10 B.F			
1.1	supplied for fastening modules, enhanced for theft-proof or spot welded as required by specifications for Kiwenda water		5	No	US Dollars		0.0	
	supply scheme							
1.2 1.3	Solar Array mounting frame with specifications as in 1.1 - Kikyusa water supply scheme Solar Array mounting frame with specifications as in 1.1 - Bamunanika water supply scheme		7	No No	US Dollars US Dollars		0.0	
1.3	Solar Array mounting frame with specifications as in 1.1 - Banda water supply scheme		1	No	US Dollars		0.0	
1.5	Solar Array mounting frame with specifications as in 1.1 - Ssekanyonyi water supply scheme		2	No	US Dollars		0.0	
1.6	Solar Array mounting frame with specifications as in 1.1 - Mayanga water supply scheme		4	No	US Dollars		0.0	
1.7 1.8	Solar Array mounting frame with specifications as in 1.1 - Kayunga water supply scheme Solar Array mounting frame with specifications as in 1.1 - Buyende-2 water supply scheme		4	No No	US Dollars US Dollars		0.0	
1.0	Solar Array mounting frame with specifications as in 1.1 - Buyender2 water supply scheme		3	No	US Dollars		0.0	
1.10	Solar Array mounting frame with specifications as in 1.1 - Kasambira water supply scheme		2	No	US Dollars		0.0	
2	Solar Modules- Solar Modules-(Mono/ Poly-crystalline 295Wp Vmax=31.74V, Imax=9.29A, 25yr warranty >16% cell efficiency)							
2.1	configured using 650 VDC, 25 years warranty, with serial number and MWE-label embedded within encapsulation, with		100	No	US Dollars		0.0	
	anodized aluminum frame; supplied and installed to specifications for Kiwenda water scheme		140	Nie			0.0	
2.2 2.3	Solar modules with specifcations as in 2.1 - Kikyusa water supply scheme Solar modules with specifcations as in 2.1 - Bamunanika water supply scheme		140 60	No No	US Dollars US Dollars		0.0	
2.3	Solar modules with specifications as in 2.1 - Banda water supply scheme		20	No	US Dollars		0.0	
2.5	Solar modules with specifications as in 2.1 - Ssekanyonyi water supply scheme		40	No	US Dollars		0.0	
2.6	Solar modules with specifications as in 2.1 - Mayanga water supply scheme		80	No	US Dollars		0.0	
2.7	Solar modules with specifications as in 2.1 - Kayunga water supply scheme	1	80	No	US Dollars		0.0	
2.8	Solar modules with specifications as in 2.1 - Buyende-2 water supply scheme		20	No	US Dollars		0.0	
2.9 2.10	Solar modules with specifcations as in 2.1 - Kagulu water supply scheme Solar modules with specifcations as in 2.1 - Kasambira water supply scheme	1	60 40	No No	US Dollars US Dollars		0.0	
2.10	Constructures whit appointations as in 2.1 - reastinonia water supply surente		-0	140	CO Dollars		0.0	
3	Power Inverter & Pump Controller							
	22.0kW Power Inverter & Pump Controller (Compatible with submersible pumps, surface pumps using induction motors)	1			1		1	
	with pure sinewaye output at 98% efficiency at full-load, 650VDC/ 415VAC-variable speed drive with MPPT technology, 50Hz (Variable speed, +5hz selectable speed increase); Hybrid AC Power with solar priority; Built in remote monitor	1			1		1	
3.1	module; support multi linkage system; IP 65 full protection; Full automatic operation. 8 years storage capacity for	1	1	No	US Dollars		0.0	
	operation data; with surge protection, overload, underload, pump dry-run and full-tank shutoff protection; supplied and	1			1		1	
	installed to specifictions for Kiwenda water scheme							
3.2 3.3	30.0kW Power Inverter & Pump Controller with specifications as in 3.1 - Kikyusa water supply scheme 11.0kW Power Inverter & Pump Controller with specifications as in 3.1 - Bamunanika water supply scheme		1	No No	US Dollars US Dollars		0.0	
3.3	3.7kW Power Inverter & Pump Controller with specifications as in 3.1 - Banda water supply scheme		1	No	US Dollars		0.0	
3.5	7.5kW Power Inverter & Pump Controller with specifications as in 3.1 - Ssekanyonyi water supply scheme		1	No	US Dollars		0.0	
3.6	15.0kW Power Inverter & Pump Controller with specifications as in 3.1 - Mayanga water supply scheme		1	No	US Dollars		0.0	
3.7	18.0kW Power Inverter & Pump Controller with specifications as in 3.1 - Kayunga water supply scheme		1	No	US Dollars		0.0	
3.8	3.7kW Power Inverter & Pump Controller with specifications as in 3.1 - Buyende-2 water supply scheme		1	No	US Dollars		0.0	
3.9 3.10	11.0kW Power Inverter & Pump Controller with specifications as in 3.1 - Kagulu water supply scheme 7.5kW Power Inverter & Pump Controller with specifications as in 3.1 - Kasambira water supply scheme		1	No No	US Dollars US Dollars		0.0	
5.10	7.5km rower inverter a rump controller with specifications as in 5.1 - Nasambila water supply scheme			140	00 Donars		0.0	
4	Water Pump							
	18.5kW water pump (Head 160m, yield=25.0m3/hr), multistage centrifugal submersible, 3-phase Induction motor, 380-							
4.1	400-415V, 50Hz variable speed motor, 0.77pf at rated current, with capacity to deliver as per design (flunge connection		1	No	US Dollars		0.0	
	type) stainless steel casing, supplied and installed with dry-run protection and all accessories; supplied and installed to specifications for Kiwenda water scheme							
4.2	26kW water pump (Head 250m, yield=20.0m3/hr) with specifcations as in 4.1 - Kikyusa water supply scheme		1	No	US Dollars		0.0	
4.2	7.5kW water pump (Head 2 30m3/hr) with specifications as in 4.1 - Bamunanika water supply scheme		1	No	US Dollars		0.0	
	2.2kW water pump (Head=100m, yield=4.0m3/hr) with specifications as in 4.1 - Banda water supply scheme		1	No	US Dollars		0.0	
4.5	4.0kW water pump (Head=116 m, yield=8.0m3/hr) with specifcations as in 4.1 - Ssekanyonyi water supply scheme		1	No	US Dollars		0.0	
4.6	11.0kW water pump (Head=150m, yield=15.0m3/hr) with specifcations as in 4.1 - Mayanga water supply scheme		1	No	US Dollars		0.0	
4.7	13kW water pump (Head 120m, yield=23.0m3/hr) with specifications as in 4.1 - Kayunga water supply scheme		1	No	US Dollars		0.0	
4.8 4.9	2.2kW water pump (Head=90m, yield=5.0m3/hr) with specifcations as in 4.1 - Buyende-2 water supply scheme 7.5kW water pump (Head=165m, yield=10.0m3/hr) with specifcations as in 4.1 - Kagulu water supply scheme		1	No No	US Dollars US Dollars		0.0	
4.10	5.5kW water pump (Head=130m, yield=8.0m3/hr) with specifications as in 4.1 - Kasambira water supply scheme		1	No	US Dollars		0.0	
							5.0	
	Well head assembly							
	Drop pipes for water pump made from PE/ HDPE in accordance to the pump installation depth; Well head assembly	1			1		1	
	structures; 2 flanged gate valves, Flanged Non-return valve, Flanged Air release valve, inclusive of remote monitoring				UO D. F			
5	sensors (Liquid Pressure Sensor, Liquid Level Sensor, flanged bulk digital elctronic Water Meter) for interconnection with exisiting transmission to tank and associated accessories done to specifications and to the satisfaction of the engineer;	1	10	No	US Dollars		0.0	
	for all water schemes in Lot							
		1			1		1	
	Remote Monitoring Unit							
	Data Monitors for GPRS remote monitoring & Bluetooth near field monitoring; IP 65 Protection grade; Ambient	1			1		1	
6	temperature (-25°C~+60°C); Integrated with 2G/4G communication module to implement solar pumping system remote monitoring & control. Supports in data collection of temperature, monitor water pressure, water level and water flow	1	10	No	US Dollars		0.0	
	within water meter; for all water schemes in Lot	1			1			
		1			1		1	
	Equipment & Tool set							
7	Equipment & Tool set to be used by Scheme operator (Digital multimeter-rating 1000V, set of screw drivers, pliers, phase tester, Cable cutter, pliers, Hummer, set of Arren-keys, Insulating tape-10pcs, adjustable wrench) for all water schemes in	1	10	No	US Dollars		0.0	
	Lot	1					5.0	
	Spare parts for repairs and replacements Spare parts for repairs and replacements parts as described below. Attach a list of spare parts to be supplied within the	1			1		1	
8	Spare parts for repairs and replacements parts as described below. Attach a list of spare parts to be supplied within the contract as required by GCC.7.3 for all sites in Lot	1						
	Solar Modules-(Mono/ Poly-crystalline 295Wp Vmax=31.74V, Imax=9.29A, 25yr warranty >16% cell efficiency)	1						
8.1	configured using 650 VDC, 25 years warranty, with serial number and MWE-label embedded within encapsulation, with anodized aluminum frame.	1	40	No	US Dollars		0.0	
8.2	anodized aluminum frame PV-Disconnect Switch/ Minature Circuit breaker with total capacity of 10A, 650VDC.	1	250	No	US Dollars		0.0	
	6-11W/240VAC Lights	1	250	No	US Dollars		0.0	
8.4	DC750V Fuses	1	250	No	US Dollars		0.0	
8.5	Blocking diodes		250	No	US Dollars		0.0	
	TOTAL (to Schodulo No. E. Const Summers)	I	1	1	1			
I	TOTAL (to Schedule No. 5. Grand Summary)				Name (D. L.		0.0	
					Name of Bidder			
					Signature of Bidder			
					Diadel			

¹ Bidders shall enter a code representing the country of origin of all imported plant and equipment.
² Specify currency. Create and use as many columns for Unit Price and Total Price as there are currencies.

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Image: Construction Optimized Unit DWU Like Prediction of the section of the secti		Schedule No. 2. Plant and Mandatory Spare Parts Sup			ne Employer's Co	ountry	
(1) (2) (3) (1)/(2) (3) (1)/(2) PErformance funder Ministra Circuit broket with applied 5 significance of the funder	Item	Description	Qty	Unit		per line item if Contract is awarded (in accordance with	EXW Total Price ¹
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Int Product Surface Surface and Product Surface Surfac	1.2		7	No			0.0
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13 Ph-Decore etable has specifications as in 1.1 - Baye what water specifications 0	1.6	PV-Disconnect Switch with specifications as in 1.1 - Mayanga water supply scheme	4	No			0.0
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ID Ph-Chaptometer Switch with specifications is in 1.1 - Kapambra water supply softem I No ID ID </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
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Contract of Sub-Prove with method spread (19), maximally operated and to be used for spread (19), maximal and the spread (19), maximal and	1.10	PV-Disconnect Switch with specifications as in 1.1 - Kasambira water supply scheme	2	NO			0.0
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23 A0. 4150 (Dang-over such rated with specificators is 12.1 = Banuarake water supply scheme 1 No 0.0 24 BOA. 4150 (Dang-over such rated with specificators is 12.1 = Banuarake supply scheme 1 No 0.0 25 BOA. 4150 (Dang-over such rated with specificators is 12.1 = Banuarake supply scheme 1 No 0.0 27 BOA. 4150 (Dang-over such rated with specificators is 12.1 = Banuarake supply scheme 1 No 0.0 28 BOA. 4150 (Dang-over such rated with specificators is 12.1 = Banuarake supply scheme 1 No 0.0 29 BOA. 4150 (Dang-over such rated with specificators is 12.1 = Banuarake supply scheme 1 No 0.0 30 Assortment set of electrical cabes 1 No 0.0 31 Assortment set of electrical cabes with specificators as 12.1 = Banuarake supply scheme 1 No 0.0 32 Assortment set of electrical cabes with specificators as 12.1 = Banuarake supply scheme 1 No 0.0 34 Assortment set of electrical cabes with specificators as 12.1 = Banuarake supply scheme 1 No 0.0 34 Assortment set of electrical cabes with specificators as 12.1 = Banuarake supply scheme 1 No 0.0 34							
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2.10 40.4 15V Change-oer switch rated with specifications as in 2.1 - Kasambira water supply scheme 1 No 0.0 3 Assortment set of electrical cables, where oncessances and accessances for complete system wirng, that supply scheme 1 No 0.0 3.1 Assortment set of electrical cables, where in Liky cas water supply scheme 1 No 0.0 3.2 Assortment set of electrical cables with specifications as in 2.1 - Banda water supply scheme 1 No 0.0 3.4 Assortment set of electrical cables with specifications as in 2.1 - Banda water supply scheme 1 No 0.0 3.6 Assortment set of electrical cables with specifications as in 2.1 - Maying water supply scheme 1 No 0.0 3.6 Assortment set of electrical cables with specifications as in 2.1 - Maying water supply scheme 1 No 0.0 3.6 Assortment set of electrical cables with specifications as in 2.1 - Maying water supply scheme 1 No 0.0 3.6 Assortment set of electrical cables with specifications as in 2.1 - Kasambira water supply scheme 1 No 0.0 3.6 Assortment set of electrical cables with specifications as in 2.1 - Mayang water supply scheme 1 No 0.0 0.0							
Asstruments and electrical cables, inferiormets and accessories for complete system wing, Including wine recessors, undersonations as in 2.1. Kayuaa water supply scheme 1 No Assortment set of electrical cables with specifications as in 2.1. How and water supply scheme 1 No Assortment set of electrical cables with specifications as in 2.1. How and water supply scheme 1 No Assortment set of electrical cables with specifications as in 2.1. How and water supply scheme 1 No Assortment set of electrical cables with specifications as in 2.1. How and water supply scheme 1 No Assortment set of electrical cables with specifications as in 2.1. How and water supply scheme 1 No Assortment set of electrical cables with specifications as in 2.1. How and water supply scheme 1 No Assortment set of electrical cables with specifications as in 2.1. How and water supply scheme 1 No Assortment set of electrical cables with specifications as in 2.1. How and water supply scheme 1 No Assortment set of electrical cables with specifications as in 2.1. How and water supply scheme 1 No Assortment set of electrical cables with specifications as in 2.1. How and water supply scheme 1 No Assortment set of electrical cables with specifications as in 2.1. How and water supply scheme 1 No Assortment set of electrical cables with specifications as in 2.1. How and water supply scheme 1 No Assortment set of electrical cables with specifications as in 2.1. How and water supply scheme 1 No Assortment set of electrical cables with specifications as in 2.1. How and water supply scheme 1 No Assortment set of electrical cables and provide supply scheme 1 No Upterming Protection system with specifications as in 2.1. How and water supply scheme 1 No Upterming Protection system with specifications as in 2.1. How and water supply scheme 1 No Upterming Protection system with specifications as in 2.1. How and water supply scheme 1 No Upterming Protection sys							
a isosterier set of electrical cables, inserconcets and accessories for complete system wing, including where necessary, undergrund cables, wind in Microdit Institution (1) No 0.0 3.2 Assortmers and electrical cables with specifications as in 2.1 - Kinyusa water supply scheme 1 No 0.0 3.3 Assortmers and electrical cables with specifications as in 2.1 - Seckarygrup water supply scheme 1 No 0.0 3.4 Assortmers and electrical cables with specifications as in 2.1 - Seckarygrup water supply scheme 1 No 0.0 3.6 Assortmers and electrical cables with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 3.0 Assortmers and electrical cables with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 3.0 Assortmers and electrical cables with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 3.0 Assortmers and electrical cables with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 3.0 Assortmers and electrical cables with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 4 System grounding with equipoteristic and water supply scheme 1 No 0.0 0.0 <td>2.10</td> <td>60A, 415V Change-over switch rated with specifications as in 2.1 - Kasambira water supply scheme</td> <td>1</td> <td>No</td> <td></td> <td></td> <td>0.0</td>	2.10	60A, 415V Change-over switch rated with specifications as in 2.1 - Kasambira water supply scheme	1	No			0.0
12 Assortment set of electrical cables with specifications as in 2.1 - Köyusa water supply scheme 1 No 0.0 33 Assortment set of electrical cables with specifications as in 2.1 - Banda water supply scheme 1 No 0.0 34 Assortment set of electrical cables with specifications as in 2.1 - Banda water supply scheme 1 No 0.0 35 Assortment set of electrical cables with specifications as in 2.1 - Mangang water supply scheme 1 No 0.0 36 Assortment set of electrical cables with specifications as in 2.1 - Mangang water supply scheme 1 No 0.0 37 Assortment set of electrical cables with specifications as in 2.1 - Mangang water supply scheme 1 No 0.0 38 Assortment set of electrical cables with specifications as in 2.1 - Koyung water supply scheme 1 No 0.0 39 Assortment set of electrical cables with specifications as in 2.1 - Koyung water supply scheme 1 No 0.0 4 System counding System counding 1 No 0.0 0.0 5 Labtennin Protection system 1 No 0.0 0.0 0.0 0.0 5.1 Labtennin Protection syste		Assortment set of electrical cables, interconnects and accessories for complete system wiring, including where necessary, underground cables, wired in full-conduit technique; supplied and installed	1	No			0.0
3.3 Assortment set of electrical cables with specifications as in 2.1 - Barda water supply scheme 1 No 0.0 3.4 Assortment set of electrical cables with specifications as in 2.1 - Barda water supply scheme 1 No 0.0 3.6 Assortment set of electrical cables with specifications as in 2.1 - Barda water supply scheme 1 No 0.0 3.6 Assortment set of electrical cables with specifications as in 2.1 - Maying water supply scheme 1 No 0.0 3.6 Assortment set of electrical cables with specifications as in 2.1 - Maying water supply scheme 1 No 0.0 3.6 Assortment set of electrical cables with specifications as in 2.1 - Maying water supply scheme 1 No 0.0 3.6 Assortment set of electrical cables with specifications as in 2.1 - Maying water supply scheme 1 No 0.0 3.10 Assortment set of electrical cables with specifications as in 2.1 - Maying water supply scheme 1 No 0.0 4 System grounding with exp-otential bonding to earth inpedience lower than Sole with expecifications as in 2.1 - Maying water supply scheme 10 No 0.0 5 Lightening Protection system with specifications as in 2.1 - Maying water supply scheme 1 No 0.0 6 Lightening Protection system with specifications as in 2.1 - Maying water supply scheme 1			4	No			0.0
3.4 Assortment set of electrical cables with specifications as in 2.1 - Banda water supply scheme 1 No 0.0 3.6 Assortment set of electrical cables with specifications as in 2.1 - Maynapa water supply scheme 1 No 0.0 3.6 Assortment set of electrical cables with specifications as in 2.1 - Maynapa water supply scheme 1 No 0.0 3.8 Assortment set of electrical cables with specifications as in 2.1 - Maynapa water supply scheme 1 No 0.0 3.10 Assortment set of electrical cables with specifications as in 2.1 - Maynapa water supply scheme 1 No 0.0 3.11 Assortment set of electrical cables with specifications as in 2.1 - Maynapa water supply scheme 1 No 0.0 3.10 Assortment set of electrical cables with specifications as in 2.1 - Maynapa water supply scheme 1 No 0.0 4 System counding with equipotential bonding to earth impedence lower than following participation and the investor, array mounting frame, metal cables, and metal cables, and metal cables is specification scheme 0.0 0.0 5.1 Lubitenning Protection system with specifications as in 2.1 - Maynapa water supply scheme 1 No 0.0 5.2 Lipitenning Protection system with specifications as in 2.1 - Maynapa water su							
3.5 Assortment set of electrical cables with specifications as in 2.1 - Seakangrowy water supply scheme 1 No 0.0 3.6 Assortment set of electrical cables with specifications as in 2.1 - Kayngra water supply scheme 1 No 0.0 3.7 Assortment set of electrical cables with specifications as in 2.1 - Kayngra water supply scheme 1 No 0.0 3.9 Assortment set of electrical cables with specifications as in 2.1 - Kaydu water supply scheme 1 No 0.0 3.10 Assortment set of electrical cables with specifications as in 2.1 - Kaydu water supply scheme 1 No 0.0 4 System grounding with equi-potential bording to earth impedence lower than footms; tor all conducting proteing protection system with specifications as in 2.1 - Kaydu water supply scheme 1 No 0.0 5 Lightenning Protection system with specifications as in 2.1 - Kayusa water supply scheme 4 No 0.0 6.1 Lightenning Protection system with specifications as in 2.1 - Kayusa water supply scheme 1 No 0.0 7.1 Lightenning Protection system with specifications as in 2.1 - Stayusa water supply scheme 1 No 0.0 7.2 Lightenning Protection system with specifications as in 2.1 - Stayusa water supply scheme							
3.6 Assortment set of electrical cables with specifications as in 2.1 - Maynarg water supply scheme 1 No 0.0 3.7 Assortment set of electrical cables with specifications as in 2.1 - Buynarbe2 water supply scheme 1 No 0.0 3.8 Assortment set of electrical cables with specifications as in 2.1 - Buynarbe2 water supply scheme 1 No 0.0 3.10 Assortment set of electrical cables with specifications as in 2.1 - Kasambira water supply scheme 1 No 0.0 4 Syntem arounding in pay-potential bonding to earth impedence tower than Sohms: for all conducting parts within the installation including the inverter, array mounting frame, metal cabinets, and metal pairs supply scheme 1 No 0.0 5.1 Syntem arounding in specifications set in 2.1 - Kayuna water supply scheme 1 No 0.0 5.1 Syntem protection system with specifications as in 2.1 - Kayuna water supply scheme 2 No 0.0 5.1 Syntem protection system with specifications as in 2.1 - Kayuna water supply scheme 1 No 0.0 5.1 Syntem protection system with specifications as in 2.1 - Maynarg water supply scheme 1 No 0.0 5.1 Lipterning Protection system with specifications as in 2.1 - Kayuna water supply scheme							
3.7 Assortment set of electrical cables with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 3.8 Assortment set of electrical cables with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 3.9 Assortment set of electrical cables with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 3.10 Assortment set of electrical cables with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 4 System graunding with exploritenial bonding to earth impedence lower than 50hms; for all conducting the provide and installed to specifications for water supply schemes 10 No 0.0 5 Liphtenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 2 No 0.0 5.1 Liphtenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 2 No 0.0 5.2 Liphtenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 5.3 Liphtenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 2 No 0.0 5.4 Liphtenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1							
3.8 Assortmert set of electrical cables with specifications as in 2.1 - Buyende-2 water supply scheme 1 No 0.0 3.9 Assortmert set of electrical cables with specifications as in 2.1 - Kagalu water supply scheme 1 No 0.0 3.10 Assortmert set of electrical cables with specifications as in 2.1 - Kagalu water supply scheme 1 No 0.0 4 Bystem grounding with equi-potential bonding to earth impedence lower than 50hms; for all conducting parts within the installation including the inverter, array mounting frame, metal cablests, and metal appers suppled and installed to specifications as in 2.1 - Suppled and installed to specifications as in 2.1 - Suppled and installed to specifications as in 2.1 - Kayusa water supply scheme 3 No 0.0 5.1 Suptem grouted my this pecifications as in 2.1 - Suppled and installed to specifications as in 2.1 - Suppled and installed to specifications as in 2.1 - Suppled and installed to specifications as in 2.1 - Suppled and installed to specifications as in 2.1 - Suppled and installed to specifications as in 2.1 - Suppled and installed to specification specifications as in 2.1 - Supple scheme 1 No 0.0 5.1 Lipitenning Protection system with specifications as in 2.1 - Supple scheme 2 No 0.0 0.0 5.2 Lipitenning Protection system with specifications as in 2.1 - Supple Scheme 1 No 0.0 0.0 0.0 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>							
3.9 Assortment set of electrical cables with specifications as in 2.1 - Kagulu water supply scheme 1 No 0.0 3.10 Assortment set of electrical cables with specifications as in 2.1 - Kasambira water supply scheme 1 No 0.0 4 System grounding with equi-potential bording to earth impedence lower than 50hms; for all conducting pipes supplied and installed to specifications for water supply schemes 10 No 0.0 5 Lightenning Protection system 1 No 0.0 5.1 switch-gear at the main-junction bood solar array and AC-side of inverter; supplied and installed to specifications of solar array and AC-side of inverter; supplied and installed to 3 No 0.0 5.2 Lightenning Protection system with specifications as in 2.1 - Kayung water supply scheme 4 No 0.0 5.3 Lightenning Protection system with specifications as in 2.1 - Stayung water supply scheme 2 No 0.0 5.4 Lightenning Protection system with specifications as in 2.1 - Stayung water supply scheme 1 No 0.0 5.4 Lightenning Protection system with specifications as in 2.1 - Kayung water supply scheme 2 No 0.0 5.5 Lightenning Protection system with specifications as in 2.1 - Stayung water supply scheme 1 No 0.0 5.6 Lightenning Protection system with specifications as in 2.1 - Kayung wa							
System grounding. System grounding with equi-potential bording to earth impedence lower than 50hms; for all conducting a parts with the installation including the insterer, array mounting frame, metal cabinets, and metal to be supplied and installed to specifications for water supply schemes. 10 No 0.0 5 Lightenning Protection system M pathe, cooper tape; including the lightening surge protection system with specifications as in 2.1 - Kikyus water supply scheme 3 No 0.0 5.1 Lightenning Protection system with specifications as in 2.1 - Kikyus water supply scheme 4 No 0.0 5.2 Lightenning Protection system with specifications as in 2.1 - Bannaraika water supply scheme 1 No 0.0 5.4 Lightenning Protection system with specifications as in 2.1 - Bannaraika water supply scheme 1 No 0.0 5.4 Lightenning Protection system with specifications as in 2.1 - Bannaraika water supply scheme 2 No 0.0 5.4 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 5.5 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 5.6 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0	3.9		1	No			0.0
System grounding with qui-potential bonding to earth impedence tweer than Softms: for all conducting pages supplied and installed to specifications for water supply schemes 10 No 00 5 Uptimening Protection system of the spice, copper tape; including the lightening surge protection system with spice, copper tape; including the lightening surge protection system with specifications as in 2.1 - Kikyusa water supply scheme 4 No 0.0 5.1 Switch-gear at the main-junction box of solar array and AC-side of inverter; supplied and installed to 3 switch-gear at the main-junction box of solar array and AC-side of inverter; supplied and installed to 3 switch-gear at the main-junction box of solar array and AC-side of inverter; supplied and installed to 3.1 No 0.0 5.2 Lightenning Protection system with specifications as in 2.1 - Kikyusa water supply scheme 2 No 0.0 5.3 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 5.4 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 2 No 0.0 5.4 Lightenning Protection system with specifications as in 2.1 - Kayung water supply scheme 1 No 0.0 5.4 Lightenning Protection system with specifications as in 2.1 - Kayung water supply scheme 1 No 0.0 6.1 L	3.10	Assortment set of electrical cables with specifications as in 2.1 - Kasambira water supply scheme	1	No			0.0
Lightenning Protection system with specifications as in 2.1 - Kikyusa water supply scheme 4 No 0.0 5.1 switch-pear at the main-function box of solar array and AC-side of inverter; supplied and installed to a specifications for Kiwenda water supply scheme 4 No 0.0 5.2 Lightenning Protection system with specifications as in 2.1 - Kikyusa water supply scheme 2 No 0.0 5.4 Lightenning Protection system with specifications as in 2.1 - Banda water supply scheme 1 No 0.0 5.4 Lightenning Protection system with specifications as in 2.1 - Sekarayonyi water supply scheme 1 No 0.0 5.6 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 2 No 0.0 5.7 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 5.8 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 5.9 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 5.10 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 <td< td=""><td>4</td><td>System grounding with equi-potential bonding to earth impedence lower than 5ohms; for all conducting parts within the installation including the inverter, array mounting frame, metal cabinets, and metal</td><td></td><td>No</td><td></td><td></td><td>0.0</td></td<>	4	System grounding with equi-potential bonding to earth impedence lower than 5ohms; for all conducting parts within the installation including the inverter, array mounting frame, metal cabinets, and metal		No			0.0
5.3 Lightenning Protection system with specifications as in 2.1 - Barnunanika water supply scheme 2 No 0.0 5.4 Lightenning Protection system with specifications as in 2.1 - Banda water supply scheme 1 No 0.0 5.5 Lightenning Protection system with specifications as in 2.1 - Skekanyonyi water supply scheme 1 No 0.0 5.6 Lightenning Protection system with specifications as in 2.1 - Skekanyonyi water supply scheme 2 No 0.0 5.6 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 2 No 0.0 5.4 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 2 No 0.0 5.7 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 5.10 Lightenning Protection system with specifications as in 2.1 - Kasunbira water supply scheme 1 No 0.0 6 Maxiliary Solar-PV Lighting system 1 No 0.0 0.0 7.10 Lightenning Protection system with specifications as in 2.1 - Kasambira water supply scheme 1 No 0.0 6.1 Maxim system faure state schella		Lightenning Protection system set with spike, copper tape; including the lightening surge protection switch-gear at the main-junction box of solar array and AC-side of inverter; supplied and installed to	3	No			0.0
5.4 Lightenning Protection system with specifications as in 2.1 - Banda water supply scheme 1 No 0.0 5.5 Lightenning Protection system with specifications as in 2.1 - Seekanyonyi water supply scheme 2 No 0.0 5.6 Lightenning Protection system with specifications as in 2.1 - Seekanyonyi water supply scheme 2 No 0.0 5.6 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 2 No 0.0 5.8 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 5.9 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 5.10 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 5.10 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 6.10 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 6.10 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 0.0 0.0 0.0 <td>5.2</td> <td></td> <td>4</td> <td>No</td> <td></td> <td></td> <td>0.0</td>	5.2		4	No			0.0
5.5 Lightenning Protection system with specifications as in 2.1 - Ssekaryonyi water supply scheme 1 No 0.0 5.6 Lightenning Protection system with specifications as in 2.1 - Mayanga water supply scheme 2 No 0.0 5.7 Lightenning Protection system with specifications as in 2.1 - Kayanga water supply scheme 2 No 0.0 5.6 Lightenning Protection system with specifications as in 2.1 - Kayanga water supply scheme 2 No 0.0 5.9 Lightenning Protection system with specifications as in 2.1 - Kayanga water supply scheme 1 No 0.0 5.9 Lightenning Protection system with specifications as in 2.1 - Kayanga water supply scheme 1 No 0.0 5.10 Lightenning Protection system with specifications as in 2.1 - Kasambira water supply scheme 1 No 0.0 5.10 Lightenning Protection system with specifications as in 2.1 - Kasambira water supply scheme 1 No 0.0 5.10 Lightenning Protection system with specifications as in 2.1 - Kasambira water supply scheme 1 No 0.0 6.10 Maximary Solar-PV Lighting system featuring a 2x240Wp solar modules, 1x750Wp inverter, module modulers, swreter sin Lot 1 No 0.0 7	5.3	Lightenning Protection system with specifications as in 2.1 - Bamunanika water supply scheme	2	No			0.0
5.6 Lightenning Protection system with specifications as in 2.1 - Mayanga water supply scheme 2 No 0.0 5.7 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 2 No 0.0 5.8 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 5.1 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 5.1 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 5.10 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 5.10 Lightenning Protection system with specifications as in 2.1 - Kasambira water supply scheme 1 No 0.0 5.10 Lightenning Protection system with specifications as in 2.1 - Kasambira water supply scheme 1 No 0.0 6.10 Maxiliary Solar-PV Lighting system featuring a 2x240Wp solar modules, 1x750Wp inverter, module modules, schemes in Lot 10 No 0.0 7 detection is based on mechanical vbrations/ tampering of the solar array structure, wired and installed to specifications for all water schemes in Lot 10 No<	5.4	Lightenning Protection system with specifications as in 2.1 - Banda water supply scheme	1	No			0.0
5.7 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 2 No 0.0 5.8 Lightenning Protection system with specifications as in 2.1 - Buyende-2 water supply scheme 1 No 0.0 5.9 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 5.10 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 5.10 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 5.10 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 1 No 0.0 6 Auxilliary Solar-PV Lighting system 1 No 0.0 0.0 6 Maxing solar-PV Lighting system featuring a 2x240Wp solar modules, 1x750Wp inverter, module mounting, 1x20A Regulator, 2x200Ah Battery, 6-11W/240VAC Lights, with switches, sockets, and lamp holders complete supplied and installed to specifications for all water schemes in Lot 10 No 0.0 7 Alarm system Alarm system set with sinen for intrusion and safety protection of solar modules inclusive of integrated within the installation; complete with all accessories; for all water schemes in Lot No 0.0 <td>5.5</td> <td>Lightenning Protection system with specifications as in 2.1 - Ssekanyonyi water supply scheme</td> <td>1</td> <td>No</td> <td></td> <td></td> <td>0.0</td>	5.5	Lightenning Protection system with specifications as in 2.1 - Ssekanyonyi water supply scheme	1	No			0.0
5.7 Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme 2 No 0.0 5.8 Lightenning Protection system with specifications as in 2.1 - Buyende-2 water supply scheme 1 No 0.0 5.9 Lightenning Protection system with specifications as in 2.1 - Kagulu water supply scheme 1 No 0.0 5.10 Lightenning Protection system with specifications as in 2.1 - Kagulu water supply scheme 1 No 0.0 5.10 Lightenning Protection system with specifications as in 2.1 - Kagulu water supply scheme 1 No 0.0 5.10 Lightenning Protection system with specifications as in 2.1 - Kagulu water supply scheme 1 No 0.0 6 Auxiliary Solar-PV Lighting system Auxiliary Solar-PV Lighting system featuring a 2x240Wp solar modules, 1x750Wp inverter, module mounting, 1x20A Regulator, 2x200Ah Battery, 6-11W/240VAC Lights, with switches, sockets, and lamp holders complete supplied and installed to specifications for all water schemes in Lot No 0.0 7 Alarm system Alarm system set with sinen for intrusion and safety protection of solar modules, where intrusion detection is based on mechanical vibrations/ tampering of the solar array structure, wired and integrated within the installation; complete with all accessories; for all water schemes in Lot No 0.0 8.1	5.6		2	No			0.0
5.9 Lightenning Protection system with specifications as in 2.1 - Kagulu water supply scheme 1 No 0.0 5.10 Lightenning Protection system with specifications as in 2.1 - Kagulu water supply scheme 1 No 0.0 6 Auxiliary Solar-PV Lighting system a 2x240Wp solar modules, 1x750Wp inverter, module modules, 1x750Wp inverter, module modules inclusive specifications for all water schemes in Lot 10 No 0.0 7 Alarm system set with sinen for intrusion and safety protection of solar modules, where intrusion direction is based on mechanical vibrations/ tampering of the solar array structure, wired and integrated within the installation; complete with all accessories; for all water schemes in Lot 10 No 0.0 8 Pre-assembled string combiner box (SCB) to support 8 strings of solar modules inclusive of associated accessories supplied to specifications for for Kikyusa water supply scheme 1 No 0.0 TOTAL (to Schedule No. 5. Grand Summary) 0.0 Name of Bidder	5.7	Lightenning Protection system with specifications as in 2.1 - Kayunga water supply scheme	2	No			0.0
5.10 Lightenning Protection system with specifications as in 2.1 - Kasambira water supply scheme 1 No 0.0 Auxiliary Solar-PV Lighting system featuring a 2x240Wp solar modules, 1x750Wp inverter, module mounting, 1x20A Regulator, 2x200Ah Battery, 6-11W/240VAC Lights, with switches, sockets, and lamp holders complete supplied and installed to specifications for all water schemes in Lot 10 No 0.0 Alarm system Alarm system of intrusion and safety protection of solar modules, where intrusion detection is based on mechanical vibrations/ tampering of the solar array structure, wired and integrated within the installation; complete with all accessories; for all water schemes in Lot 10 No 0.0 8 Pre-assembled string combiner box (SCB) to support 8 strings of solar modules inclusive of associated accessories supplied to specifications for for Kikyusa water supply scheme 1 No 0.0 TOTAL (to Schedule No. 5. Grand Summary) 0.0							
Auxiliary Solar-PV Lighting system Auxiliary Solar-PV Lighting system featuring a 2x240Wp solar modules, 1x750Wp inverter, module 6 mounting, 1x20A Regulator, 2x200Ah Battery, 6-11W/240VAC Lights, with switches, sockets, and lamp holders complete supplied and installed to specifications for all water schemes in Lot 10 No 0.0 Alarm system Alarm system 10 No 0.0 Alarm system set with sinen for intrusion and safety protection of solar modules, where intrusion detection is based on mechanical vibrations/ tampering of the solar array structure, wired and integrated within the installation, complete with all accessories; for all water schemes in Lot 10 No 0.0 8 Pre-assembled string combiner box Pre-assembled string combiner box (SCB) to support 8 strings of solar modules inclusive of associated accessories supplied to specifications for for Kikyus water supply scheme 1 No 0.0 TOTAL (to Schedule No. 5. Grand Summary)							
Auxiliary solar-PV lighting system featuring a 2x240Wp solar modules, 1x750Wp inverter, module 0 mounting, 1x20A Regulator, 2x20AN Battery, 6-11W/240VAC Lights, with switches, sockets, and 10 No 0.0 Alarm system Alarm system set with sinen for intrusion and safety protection of solar modules, where intrusion 10 No 0.0 Alarm system set with sinen for intrusion and safety protection of solar modules, where intrusion 10 No 0.0 detection is based on mechanical vibrations/ tampering of the solar array structure, wired and integrated within the installation; complete with all accessories; for all water schemes in Lot 10 No 0.0 8 Pre-assembled string combiner box 9 No 0.0 0.0 8.11 Pre-assembled string combiner box (SCB) to support 8 strings of solar modules inclusive of associated accessories supplied to specifications for fKikyusa water supply scheme 1 No 0.0 TOTAL (to Schedule No. 5. Grand Summary) Name of Bidder	5.10	Lightenning Protection system with specifications as in 2.1 - Kasambira water supply scheme	1	No			0.0
Alarm system set with siren for intrusion and safety protection of solar modules, where intrusion detection is based on mechanical vibrations! tampering of the solar array structure, wired and integrated within the installation; complete with all accessories; for all water schemes in Lot 10 No 0.0 8 Pre-assembled string combiner box (SCB) to support 8 strings of solar modules inclusive of associated accessories supplied to specifications for for Kikyusa water supply scheme 1 No 0.0 OTTAL (to Schedule No. 5. Grand Summary)	6	Auxiliary solar-PV lighting system featuring a 2x240Wp solar modules, 1x750Wp inverter, module mounting, 1x20A Regulator, 2x200Ah Battery, 6-11W/240VAC Lights, with switches, sockets, and	10	No			0.0
8.1 Pre-assembled string combiner box (SCB) to support 8 strings of solar modules inclusive of associated accessories supplied to specifications for for Kikyusa water supply scheme 1 No 0.0 OTTAL (to Schedule No. 5. Grand Summary) Name of Bidder	7	Alarm system set with siren for intrusion and safety protection of solar modules, where intrusion detection is based on mechanical vibrations/ tampering of the solar array structure, wired and	10	No			0.0
Name of Bidder		Pre-assembled string combiner box (SCB) to support 8 strings of solar modules inclusive of	1	No			0.0
Name of Bidder		TOTAL (to Schedule No. 5., Grand Sum	mary)	L	L		0.0
						Name of Bidder	0.0

1 Specify currency in accordance with specifications in Bid Data Sheet under ITB 18.1

Electricity Access Scale Up Project (EASP)- Water Component

Lot 1: Supply, Installation and Commissioning of 10 Solar Photovoltaic (PV) Energy Packages for Water Supply Schemes in Kiwenda, Kikyusa, Bamunanika, Banda, Ssekanyonyi, Mayanga, Kayunga, Buyende-2, Kagulu and

Kasambira

Schedule of Rates and Prices Schedule No. 3. Design Services

	Description			Uni			
Item		Qty.	Unit	Local Currency Portion	Foreign Currency Portion	Total Price ¹	
		(1)		(2)	(optional)	(1)x(2)	
1	Design Services						
1.1	Design services for Kiwenda water supply scheme	1	lumpsum			0.0	
1.2	Design services for Kikyusa water supply scheme	1	lumpsum			0.0	
1.3	Design services for Bamunanika water supply scheme	1	lumpsum			0.0	
1.4	Design services for Banda water supply scheme	1	lumpsum			0.0	
1.5	Design services for Ssekanyonyi water supply scheme	1	lumpsum			0.0	
1.6	Design services for Mayanga water supply scheme	1	lumpsum			0.0	
1.7	Design services for Kayunga water supply scheme	1	lumpsum			0.0	
1.8	Design services for Buyende-2 water supply scheme	1	lumpsum			0.0	
1.9	Design services for Kagulu water supply scheme	1	lumpsum			0.0	
1.10	Design services for Kasambira water supply scheme	1	lumpsum			0.0	
TOTAL (to Schedule No. 5. Grand Summary)							
					Name of Bidder		
					Signature of Bidder		

Electricity Access Scale Up Project (EASP)- Water Component Lot 1: Supply, Installation and Commissioning of 10 Solar Photovoltaic (PV) Energy Packages for Water Supply Schemes in Kiwenda, Kikyusa, Bamunanika, Banda, Seekanoonyi Mayanga, Kayunga, Kuyunga, Kuyunga, Kayunga, Kayunga,

	Bamunanika, Banda, Ssekanyonyi, Mayanga, Kayunga, Buyende-2, Kagulu and Kasambira Schedule of Rates and Prices Schedule No. 4. Installation and Other Services							
			es			Total	Price ¹	
ltem	Description	Qty. (1)	Unit	Foreign Currency Portion (2)	Local Currency Portion (3)	Foreign (1)x(2)	Local (1)x(3)	
1	Contractual Requirements							
1.1	Processing of Perfomance Security	1	lumpsum				0.0	
1.2	Processing of Advance Payment Guarantee Processing of Contractor's All Risk Insurance with Employer and its associates as co-insured	1	lumpsum				0.0	
1.3	for Lot	1	lumpsum				0.0	
2	Site Sign Board Manufacture, transport and erect site sign boards designed as directed by Employer for all sites done to satisifaction of the supervising engineer for all water schemes in Lot	10	No				0.0	
3	Mobilization, Camp Set-up, Demobilization Mobilisation, setting up camp, Demobilisation on completion of works and costs associated with entry and exit from all sites in Lot	10	No				0.0	
4	Onsite Storage Contractor's onsite storage of consignement and supplies on site, and Security of all energy- package installations for the period up to end of Defect Liability for sites in Lot	10	No				0.0	
5 5.1a 5.1b	Employers's Requirements Availl under lease One (1) Transport vehicle as specified in Volume 4; Item 5.1, for use by the Employer's Supervision Team over a total period of 39 months; Completion and Operational Acceptance (15 months) and Defects Liability Period (24 months); for an approximate total mileage of 70,000Km. Provide for Operation and Maintence of the Vehicle; Comprehensive Insurance at Il times; Routine Servicing, Turk Replacements and Fuel for an approximate total mileage of	1	lumpsum lumpsum				0.0	
	70,000Km.	-						
5.2	Plan, coordinate, facilitate and implement Employer's due-diligence inspection, verification of sources/manufacturers for inverters, pumps, and solar modules plus witnessing functional tests at the factory where these are manufactured as described in GCC Clause 23.8, and further specified in Volume 4; Item 5.2.	1	lumpsum				0.0	
5.3	Implementation of the Environment and Social Management Plan; including mitigation of all stated negative impacts; plus the environment, health and safety policy; in accordance with the guidelines of the ESIA and environmental safeguards of World Bank for all the sites in the Lot as further detailed in Volume 4; Item 5.3.	1	lumpsum				0.0	
5.4	Create Site access, land easements and expansion of access roads to all sites in Lot; such that all sites are easily accessible by transport means (on foot, bicycle, motor-cycle and vehicle) for all sites in the Lot as further described in Volume 4: Item 5.4.	1	lumpsum				0.0	
5.5	Undertake Community Mobilization, training of operators and water boards in operation and maintenance of facilities for all water schemes in the Lot as described in Volume 4; Item 5.5	1	lumpsum				0.0	
5.6	Design and production of IEC Materials and O&M manuals, Record keeping books and Facility Data-plate well laminated-framed and hang on the wall inside the pump house for all the schemes in the Lot as described in Volume 4; Item 5.6.	1	lumpsum				0.0	
5.7	Plan, coordinate, facilitate and implement Employers' operational system testing, precommissioning, Operational acceptance monitoring, plus final commissioning and handover of facility for all schemes in Lot as described in Volume 4; Item 5.7	1	lumpsum				0.0	
6	Grabbing of site						0.0	
6.1	Grabbing of site, free of grass, shrubs, levelling and other related earth-moving works, done to the satisifaction of the Engineer for the square metre area where the entire installation will be placed_Kiwenda Water Supply system	1512.0	m²				0.0	
6.2	Grabbing of site for specified square meter done to specifications refered in 6.1 - Kikyusa water supply scheme	2016.0	m²				0.0	
6.3	Grabbing of site for specified square meter done to specifications refered in 6.1 - Bamunanika water supply scheme	1008.0	m²				0.0	
6.4	Grabbing of site for specified square meter done to specifications refered in 6.1 - Banda water supply scheme	500.0	m²				0.0	
6.5	Grabbing of site for specified square meter done to specifications refered in 6.1 - Ssekanyonyi water supply scheme	600.0	m²				0.0	
6.6	Grabbing of site for specified square meter done to specifications refered in 6.1 - Mayanga water supply scheme	1008.0	m²				0.0	
6.7	Grabbing of site for specified square meter done to specifications refered in 6.1 - Kayunga water supply scheme	1008.0	m²				0.0	
6.8	Grabbing of site for specified square meter done to specifications refered in 6.1 - Buyende-2 water supply scheme	500.0	m²				0.0	
6.9	Grabbing of site for specified square meter done to specifications refered in 6.1 - Kagulu water supply scheme	1008.0	m²				0.0	
6.10	Grabbing of site for specified square meter done to specifications refered in 6.1 - Kasambira water supply scheme	600.0	m²				0.0	
	Guard House						0.0 0.0	
7	Construct the Guard house with a water borne toilet inclusive of scheme water tank and soak pit as per drawing No.1 and done to specifications and to the satsifaction of the engineer for water scheme	10	No				0.0	
8	Pump House Construct the Pump house as per drawing No.1 and done to specifications and to the satsifaction of the engineer for water scheme	10	No				0.0	

9	Fencing and Gate				
	Construct a fence with reinforced concrete post (100mmx100mm cross section area) with rust-free chain link of wire gauge-12.5 with plastered brick curtain wall and razor wire done				
9.1	to specifications per Linear meter and to the satsifaction of the engineer for Kiwenda Water	213	m		0.0
	Supply system Construct a fence with reinforced concrete post done to specifications in 9.1 for Kikyusa				
9.2	Water Supply system	284	m		0.0
9.3	Construct a fence with reinforced concrete post done to specifications in 9.1 for Bamunanika Water Supply system	142	m		0.0
9.4	Construct a fence with reinforced concrete post done to specifications in 9.1 for Banda	90			
9.4	Water Supply system	90	m		0.0
9.5	Construct a fence with reinforced concrete post done to specifications in 9.1 for Ssekanyonyi water supply scheme	142	m		0.0
9.6	Construct a fence with reinforced concrete post done to specifications in 9.1 for Mayanga	142	m		0.0
0.7	Water Supply system Construct a fence with reinforced concrete post done to specifications in 9.1 for Kayunga	140	~		0.0
9.7	water supply scheme Construct a fence with reinforced concrete post done to specifications in 9.1 for Buyende-2	142	m		0.0
9.8	Water Supply system	90	m		0.0
9.9	Construct a fence with reinforced concrete post done to specifications in 9.1 for Kagulu water supply scheme	142	m		0.0
9.10	Construct a fence with reinforced concrete post done to specifications in 9.1 for Kasambira	142	m		0.0
5.10	Water Supply system	142			0.0
10	Pre-cast garden kerbs				0.0
	Construct pre-cast garden kerbs (width 75mm,height 150mm), with base embedded in				
10.1	150mm widex100mm thick mass concrete around solar array area off-set 1m from foundation studs and works done to specifications per linear metre and to the satsifaction of	186.6	m		0.0
	the engineer for Kiwenda Water Supply system				
10.2	Construct pre-cast garden kerbs done to specifications in 10.1 for Kikyusa Water Supply system	248.8	m		0.0
10.3	Construct pre-cast garden kerbs done to specifications in 10.1 for Bamunanika Water Supply	124.4	m		0.0
	system Construct pre-cast garden kerbs done to specifications in 10.1 for Banda Water Supply		-		
10.4	system	63.4	m		0.0
10.5	Construct pre-cast garden kerbs done to specifications in 10.1 for Ssekanyonyi water supply scheme	78	m		0.0
10.6	Construct pre-cast garden kerbs done to specifications in 10.1 for Mayanga Water Supply	124.4	m		0.0
10.7	system Construct pre-cast garden kerbs done to specifications in 10.1 for Kayunga water supply	404.4			0.0
10.7	scheme	124.4	m		0.0
10.8	Construct pre-cast garden kerbs done to specifications in 10.1 for Buyende-2 Water Supply system	63.4	m		0.0
10.9	Construct pre-cast garden kerbs done to specifications in 10.1 for Kagulu water supply	124.4	m		0.0
10.10	scheme Construct pre-cast garden kerbs done to specifications in 10.1 for Kasambira Water Supply	78.0	m		0.0
10.10	system	78.0			0.0
11	Machine crushed stone aggregate				0.0
	Provide and place machine crushed stone aggregate of size 25mm, for a layer of thickness	500.0			
11.1	75mm placed within the square area covered by solar array, done to specifications and satisifaction of the Engineer for Kiwenda Water Supply system	539.6	m²		0.0
11.2	Provide and place machine crushed stone aggregate done to specifications in 11.1 for	719.4	m²		0.0
	Kikyusa Water Supply system Provide and place machine crushed stone aggregate done to specifications in 11.1 for				
11.3	Bamunanika Water Supply system	359.7	m²		0.0
11.4	Provide and place machine crushed stone aggregate done to specifications in 11.1 for Banda Water Supply system	105.2	m²		0.0
11.5	Provide and place machine crushed stone aggregate done to specifications in 11.1 for	191.8	m²		0.0
	Ssekanyonyi water supply scheme Provide and place machine crushed stone aggregate done to specifications in 11.1 for				
11.6	Mayanga Water Supply system	359.7	m²		0.0
11.7	Provide and place machine crushed stone aggregate done to specifications in 11.1 for Kayunga water supply scheme	359.7	m²		0.0
11.8	Provide and place machine crushed stone aggregate done to specifications in 11.1 for	105.2	m²		0.0
	Buyende-2 Water Supply system Provide and place machine crushed stone aggregate done to specifications in 11.1 for				
11.9	Kagulu water supply scheme	359.7	m²		0.0
11.10	Provide and place machine crushed stone aggregate done to specifications in 11.1 for Kasambira Water Supply system	191.8	m²		0.0
					0.0
12	Site landscaping Site landscaping including planting of grass, and construction of drainage channels to prevent				0.0
12.1	surface runn-off as well as water logging during rainy seasons; clearing the site off all the	960.4	m²		0.0
1	debris as required for Kiwenda Water Supply system (square meter) Site landscaping done to specification as refered to 12.1 for Kikyusa Water Supply system				
12.2	(square meter)	1284.6	m²		0.0
12.3	Site landscaping done to specification as refered to 12.1 for Bamunanika Water Supply system (square meter)	636.3	m²		0.0
12.4	Site landscaping done to specification as refered to 12.1 for Banda Water Supply system	382.8	m²		0.0
	(square meter) Site landscaping done to specification as refered to 12.1 for Ssekanyonyi Water Supply				
12.5	system (square meter)	396.2	m²		0.0
12.6	Site landscaping done to specification as refered to 12.1 for Mayanga Water Supply system (square meter)	636.3	m²		0.0
12.7	Site landscaping done to specification as refered to 12.1 for Kayunga Water Supply system	636.3	m²		0.0
	(square meter) Site landscaping done to specification as refered to 12.1 for Buyende-2 Water Supply				
12.8	system (square meter)	382.8	m²		0.0
12.9	Site landscaping done to specification as refered to 12.1 for Kagulu Water Supply system (square meter)	636.3	m²		0.0
12.10	Site landscaping done to specification as refered to 12.1 for Kasambira Water Supply	396.2	m²		0.0
	system (square meter)	000.2			0.0

13	Solar Array mounting frame Installation					
13.1	Install Solar Array mounting frame in Schedule 1 to Specifications for - Kiwenda water supply	5	No		0.0	
	scheme Install Solar Array mounting frame in Schedule 1 to Specifications for - Kikyusa water supply					
13.2	scheme	7	No		0.0	
13.3	Install Solar Array mounting frame in Schedule 1 to Specifcations for - Bamunanika water	3	No		0.0	
10.0	supply scheme	Ű			0.0	
13.4	Install Solar Array mounting frame in Schedule 1 to Specifications for - Banda water supply scheme	1	No		0.0	
13.5	Install Solar Array mounting frame in Schedule 1 to Specifications for - Ssekanyonyi water	2	No		0.0	
13.5	supply scheme	_	NO		0.0	
13.6	Install Solar Array mounting frame in Schedule 1 to Specifications for - Mayanga water supply	4	No		0.0	
	scheme Install Solar Array mounting frame in Schedule 1 to Specifications for - Kayunga water supply					
13.7	scheme	4	No		0.0	
13.8	Install Solar Array mounting frame in Schedule 1 to Specifcations for - Buyende-2 water	1	No		0.0	
	supply scheme					
13.9	Install Solar Array mounting frame in Schedule 1 to Specificationse for - Kagulu water supply scheme	3	No		0.0	
13.10	Install Solar Array mounting frame in Schedule 1 to Specifications for - Kasambira water	2	No		0.0	
13.10	supply scheme	2	NO		0.0	
14	Solar Module Installation	400	No			
14.1 14.2	Install Solar modules in Schedule 1 to Specifications for - Kiwenda water supply scheme Install Solar modules in Schedule 1 to Specifications for - Kikyusa water supply scheme	100 140	No		0.0 0.0	
	Install Solar modules in Schedule 1 to Specifications for - Bamunanika water supply scheme				0.0	
14.3		60 20	No No		0.0	
14.4	Install Solar modules in Schedule 1 to Specifications for - Banda water supply scheme		-		0.0	
14.5	Install Solar modules in Schedule 1 to Specifications for - Ssekanyonyi water supply scheme	40	No			
14.6	Install Solar modules in Schedule 1 to Specifications for - Mayanga water supply scheme	80	No		0.0	
14.7	Install Solar modules in Schedule 1 to Specifcations for - Kayunga water supply scheme	80	No		0.0	
14.8	Install Solar modules in Schedule 1 to Specifications for - Buyende-2 water supply scheme	20	No		0.0	
14.9	Install Solar modules in Schedule 1 to Specifcations for - Kagulu water supply scheme	60	No		0.0	
14.10	Install Solar modules in Schedule 1 to Specifcations - Kasambira water supply scheme	40	No		0.0	
15	Power Inverter & Pump Controller Installation					
15.1	Install 22.0kW Power Inverter & Pump controller in Schedule 1 to Specifications for -	1	No		0.0	
	Kiwenda water supply scheme Install 30.0kW Power Inverter & Pump Controller in Schedule 1 to Specifcations for - Kikyusa					
15.2	water supply scheme	1	No		0.0	
15.3	Install 11.0kW Power Inverter & Pump Controller in Schedule 1 to Specifcations for -	1	No		0.0	
15.5	Bamunanika water supply scheme		NO		0.0	
15.4	Install 3.7kW Power Inverter & Pump Controller in Schedule 1 to Specifications for - Banda	1	No		0.0	
	water supply scheme					
15.5	Install 7.5kW Power Inverter & Pump Controller in Schedule 1 to Specifications for - Ssekanyonyi water supply scheme	1	No		0.0	
	Install 15.0kW Power Inverter & Pump Controller in Schedule 1 to Specifications for -					
15.6	Mayanga water supply scheme	1	No		0.0	
15.7	Install 18.0kW Power Inverter & Pump Controller in Schedule 1 to Specifcations for -	1	No		0.0	
	Kayunga water supply scheme Install 3.7kW Power Inverter & Pump Controller in Schedule 1 to Specifcations for - Buyende-					
15.8	2 water supply scheme	1	No		0.0	
15.9	Install 11.0kW Power Inverter & Pump Controller in Schedule 1 to Specifcations for - Kagulu	1	No		0.0	
15.9	water supply scheme		NO		0.0	
15.10	Install 7.5kW Power Inverter & Pump Controller in Schedule 1 to Specifications - Kasambira water supply scheme	1	No		0.0	
	water supply scheme					
16	Water Pump Installation					
16.1	Install 18.5kW water pump in Schedule 1 to Specifcations for - Kiwenda water supply	1	No		0.0	
10.1	scheme		NO		0.0	
16.2	Install 26kW water pump in Schedule 1 to Specifications for - Kikyusa water supply scheme	1	No		0.0	
16.3	Install 7.5kW water pump in Schedule 1 to Specifications for - Bamunanika water supply	1	No		0.0	
16.4	scheme	1	No		0.0	
	Install 2.2kW water pump in Schedule 1 to Specifications for - Banda water supply scheme Install 4.0kW water pump in Schedule 1 to Specifications for - Ssekanyonyi water supply					
16.5	scheme	1	No		0.0	
16.6	Install 11.0kW water pump in Schedule 1 to Specifications for - Mayanga water supply	1	No		0.0	
10.0	scheme		NO		0.0	
16.7	Install 13.0kW water pump in Schedule 1 to Specifications for - Kayunga water supply scheme	1	No		0.0	
10.0	Install 2.2kW water pump in Schedule 1 to Specifications for - Buyende-2 water supply		N		0.0	
16.8	scheme	1	No		0.0	
16.9	Install 7.5kW water pump in Schedule 1 to Specifications for - Kagulu water supply scheme	1	No		0.0	
16.10	Install 5.5kW water pump in Schedule 1 to Specifications - Kasambira water supply scheme	1	No		0.0	
	Well head assembly Installation					
1	Install Drop pipes for water pump made from PE/ HDPE in accordance to the pump					
17	installation depth inclusive of the Well head assembly structures and associated accessories	10	No		0.0	
	done to specifications and to the satisfaction of the engineer for all water schemes in Lot					
	Remote Monitoring Unit Installation					
18	Install Data Monitors in Schedule 1 to Specifications for all water schemes in Lot including all associatated accessories in order for remote monitoring to be done	10	No		0.0	
	associatated accessories in order for remote monitoring to be done					
19	PV-Disconnect Switch/ Minature Circuit breaker Installation					
19.1	Install PV-Disconnect Switch in Schedule 2 to Specifications - Kiwenda water supply scheme	5	No			0.0
19.2	Install PV-Disconnect Switch in Schedule 2 to Specifications - Kikyusa water supply scheme	7	No			0.0
19.3	Install PV-Disconnect Switch in Schedule 2 to Specifications - Bamunanika water supply	3	No			0.0
	scheme					
19.4	Install PV-Disconnect Switch in Schedule 2 to Specifications - Banda water supply scheme	1	No			0.0
19.5	Install PV-Disconnect Switch in Schedule 2 to Specifications - Ssekanyonyi water supply scheme	2	No			0.0
19.6	Install PV-Disconnect Switch in Schedule 2 to Specifications - Mayanga water supply scheme	4	No			0.0
19.7	Install PV-Disconnect Switch in Schedule 2 to Specifications - Mayanga water supply scheme	4	No			0.0
	Install PV-Disconnect Switch in Schedule 2 to Specifications - Kayunga water supply scheme Install PV-Disconnect Switch in Schedule 2 to Specifications - Buyende-2 water supply					
19.8	scheme	1	No			0.0
19.9	Install PV-Disconnect Switch in Schedule 2 to Specifications - Kagulu water supply scheme	3	No			0.0
19.10	Install PV-Disconnect Switch in Schedule 2 to Specifications - Kasambira water supply	2	No			0.0
	scheme			I I	 	

		r –	1		1	1	
20	Change-over switch						
20.1	Install 80A Change-over switch in Schedule 2 to Specifcations - Kiwenda water supply scheme	1	No				0.0
20.2	scheme Install 100A Change-over switch in Schedule 2 to Specifcations - Kikyusa water supply	1	No				0.0
	scheme Install 60A, Change-over switch in Schedule 2 to Specifications - Bamunanika water supply						
20.3	scheme	1	No				0.0
20.4	Install 60A, Change-over switch in Schedule 2 to Specifcations - Banda water supply scheme Install 60A, Change-over switch in Schedule 2 to Specifcations - Ssekanyonyi water supply		No				0.0
20.5	scheme	1	No				0.0
20.6	Install 60A, Change-over switch in Schedule 2 to Specifications - Mayanga water supply scheme	1	No				0.0
20.7	Install 60A, Change-over switch in Schedule 2 to Specifcations - Kayunga water supply scheme	1	No				0.0
20.8	Install 60A, Change-over switch in Schedule 2 to Specifcations - Buyende-2 water supply	1	No				0.0
	scheme Install 60A, Change-over switch in Schedule 2 to Specifcations - Kagulu water supply	-					
20.9	scheme	1	No				0.0
20.10	Install 60A, Change-over switch in Schedule 2 to Specifications - Kasambira water supply scheme	1	No				0.0
21	Assortment set of electrical cables Installation						
21.1	Install Assortment set of electrical cables in Schedule 2 to Specifications - Kikyusa water	1	No				0.0
	supply scheme Install Assortment set of electrical cables in Schedule 2 to Specifcations - Kikyusa water	-					
21.2	supply scheme	1	No				0.0
21.3	Install Assortment set of electrical cables in Schedule 2 to Specifications - Bamunanika water supply scheme	1	No				0.0
21.4	Install Assortment set of electrical cables in Schedule 2 to Specifications - Banda water supply scheme	1	No				0.0
21.5	Install Assortment set of electrical cables in Schedule 2 to Specifications - Ssekanyonyi water	1	No				0.0
	supply scheme Install Assortment set of electrical cables in Schedule 2 to Specifications - Mayanga water	-					
21.6	supply scheme Install Assortment set of electrical cables in Schedule 2 to Specifications - Kayunga water	1	No				0.0
21.7	supply scheme	1	No				0.0
21.8	Install Assortment set of electrical cables in Schedule 2 to Specifications - Buyende-2 water supply scheme	1	No				0.0
21.9	Install Assortment set of electrical cables in Schedule 2 to Specifications - Kagulu water supply scheme	1	No				0.0
21.10	Install Assortment set of electrical cables in Schedule 2 to Specifications - Kasambira water	1	No				0.0
	supply scheme						
	System grounding Installation						
22	Install System grounding with equi-potential bonding in Schedule 2 to Specifcations for all water schemes in lot	10	No				0.0
23	Lightenning Protection system Installation						
23.1	Install Lightenning Protection system in Schedule 2 to Specifcations- Kiwenda water supply	3	No				0.0
	scheme Install Lightenning Protection system in Schedule 2 to Specifcations- Kikyusa water supply						
23.2	scheme Install Lightenning Protection system in Schedule 2 to Specifcations- Bamunanika water	4	No				0.0
23.3	supply scheme	2	No				0.0
23.4	Install Lightenning Protection system in Schedule 2 to Specifications- Banda water supply scheme	1	No				0.0
23.5	Install Lightenning Protection system in Schedule 2 to Specifications- Ssekanyonyi water supply scheme	1	No				0.0
23.6	Install Lightenning Protection system in Schedule 2 to Specifcations- Mayanga water supply	2	No				0.0
23.7	scheme Install Lightenning Protection system in Schedule 2 to Specifcations- Kayunga water supply	2	No				0.0
	scheme Install Lightenning Protection system in Schedule 2 to Specifications- Buyende-2 water supply						
23.8	scheme	1	No				0.0
23.9	Install Lightenning Protection system in Schedule 2 to Specifications- Kagulu water supply scheme	1	No				0.0
23.10	Install Lightenning Protection system in Schedule 2 to Specifications- Kasambira water supply scheme	1	No				0.0
24	Auxiliary solar-PV lighting system Installation Install Auxiliary solar-PV lighting system in Schedule 2 to Specifications for all water schemes						0.0
24	in lot	10	No				0.0
	Alarm system Installation						
25	Install Alarm system set with siren for intrusion in Schedule 2 to Specifications for all water schemes in lot	10	No				0.0
	Pre-assembled string combiner box Installation Install Pre-assembled string combiner box (SCB) to support 8 strings in Schedule 2 to						
26	Specifications- Kikyusa water supply scheme	1	No				0.0
	System Testing						
	Installation systems testing and commissioning plus all costs associated with special kits for						
27	measuring and conducting functional tests as well as record keeping and analysis to ensure that functional guarantees are attained as well as monitoring, plus final commissioning and	10	No				0.0
	handover of facilities for sites in lot						
	As-built Drawings						
~~	Provide As-built Drawings for each site including Solar array and Systems Layout, electrical						0.0
28	wiring diagrams and all facilities (5 copies-printed in full-colour and well bound in a booklet) to satisfaction of Engineer	10	No				0.0
		1	I	1	1	1	

29	After Sales Service: After Sales Service: Bought from manufacturers which is caused by quality within the warranty, and permanent maintenance on purchaser's disperse for products beyond the warranty — a) Solar water pumping inverter: Syears from the date of installation at site b) Solar modules: 25 years for materials and workmanship from the date of installation at site; under standard test conditions, output power no less than 90% of rated power in 10 years and no less than 80% of rated power in 25 years guaranteed c) Water pump: 2years starting from the date of installation	10	No		0.0	
	User Training Methodology: User Training Methodology: Bidder shall provide full day re-orientation solar water pumping user training in Operations and Maintenance per scheme to the employer's personnel at the end of defects liability-monitoring period with emphasis placed on remote sensing capabilities incorporated in the pump controller	10	No		0.0	0.0
_	TOTAL (to Schedule No. 5. Grand Summary)		_		0.0	0.0
				Name of Bidder		
				Signature of Bidder		

Electricity Access Scale Up Project (EASP)- Water Component

Lot 1: Supply, Installation and Commissioning of 10 Solar Photovoltaic (PV) Energy Packages for Water Supply Schemes in Kiwenda, Kikyusa, Bamunanika, Banda, Ssekanyonyi, Mayanga, Kayunga, Buyende-2, Kagulu and Kasambira Schedule of Rates and Prices

Schedule No. 5 Grand Summary

Item	Description	Total Price ¹				
nem	Description	Foreign	Local			
1	Total Schedule No. 1. Plant, and Mandatory Spare Parts Supplied from Abroad	0.0				
2	Total Schedule No. 2. Plant, and Mandatory Spare Parts Supplied from Within the Employer's Country		0.0			
3	Total Schedule No. 3. Design Services		0.0			
4	Total Schedule No. 4. Installation and Other Services	0.0	0.0			
	TOTAL	0.0	0.0			
	Add 10% Contingency					
	Add 18% VAT					
	GRAND TOTAL (to Letter of Bid)					
		Name of Bidder				
		Signature of Bidder				