

 Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH		Price Sheet			
PN: 18.2176.8-080.00		Proforma Invoice No.			
ProSoft: 91155062		Date:			
ANNEX I / Lot 1 - BoQ for Alefa Kebele, Bure Woreda, West Gojam, Amhara					
Lot 1	Specification of solar pumping systems (two types)	Unit	QTY	Birr/ item	Total price in ETB
1.1	Solar pumping system 1 with the following requirements	pcs	5		
	Small-holder size, submersible pump-system for minimum 4" wells Water flow per hour: 2.5m ³ /hour- 4.0m ³ /hr at head range of 11m -15m correspondingly Head: 20 m max. Comes with solar panel of at least 300-360Wp mono/polycrystalline or compatible with pump controller and pump voltage and current requirement and all connection accessories included Mounting structure suitable for solar PV and all necessary accessories such as bolts screws etc Maintenance-free brushless DC motor made out of stainless steel (AISI 304) and with IP68-class enclosure. Min. 82% efficiency, insulation class F Pump controller: Controlling and monitoring device that controls inputs for dry running protection, remote control etc. Min efficiency 90% Protected against reverse polarity, overload and overtemperature Integrated MPPT (Maximum Power Point Tracking) Controller should have surge protection capability Bluetooth and onboard data storage Float switch and rope for pump suspension in water source. At least 15m well probe / float switch extension cable with plug for each pump system At least 25m ,10mm ² wire needed to connect each pump to pump controller , grounding wire if needed for each pump system 500m -meter delivery hose pipe(HDPE Pipe ID 35mm OD 40 mm or compatible with pump outlet diameter) with connection accessories to deliver water into storage tank Stilling Tube or equivalent to protect the pump from the dirt and all necessary accessories to connect stilling tube to the pump At least 1-year warranty and six month after-sales services				
	Grand Total without TAX				
	TAX (%) (indicate the taxable percent)				
	Grand Total with TAX				
1.2	Solar pumping system 2 with the following requirements	pcs	5		
	Small-holder size, submersible pump-system for minimum 4" wells Water flow per hour: Water flow per hour: between 1.5m ³ /h -2.8m ³ /h at head range of 14m-12m correspondingly Head: 20 m max. Comes with solar panel of at least 200Wp mono/polycrystalline or compatible with pump controller and pump voltage and current requirement and all connection accessories included Mounting structure suitable for solar PV and all necessary accessories such as bolts screws etc Maintenance-free brushless DC motor made out of stainless steel (AISI 304) and with IP68-class enclosure. Min. 82% efficiency, insulation class F Pump controller :Controlling and monitoring device that controls inputs for dry running protection, remote control etc. Min efficiency 90% Protected against reverse polarity, overload and overtemperature Integrated MPPT (Maximum Power Point Tracking) Surge protector or controller should have surge protection capability Float switch and rope for pump suspension in water source. At least 15m well probe / float switch extension cable with plug At least 25m ,10mm ² wire needed to connect each pump to pump controller , grounding wire if needed for each pump system 100m meter delivery hose pipe(HDPE Pipe ID 35mm OD 40 mm) with connection accessories for pumping water into storage tank for each pump Stilling Tube or equivalent to protect the pump from the dirt and all necessary accessories to connect stilling to the pump At least 1-year warranty and six month after-sales services				
	Grand Total without TAX				
	TAX (%) (indicate the taxable percent)				
	Grand Total with TAX				
	Delivery Date:				
	Validity of offer:				



Price Sheet

PN: 18.2176.8-080.00 Proforma Invoice No.

ProSoft: 91155062 Date:

ANNEX I / Lot 2 - BoQ for Amude Kebele, Doddota Woreda, Arsi, Oromia

Lot 2	Specification of solar pumping systems (two types)	Unit	QTY	Birr/ item	Total price in ETB
1.1	Solar pumping system 1 with the following requirements	pcs	7		
	Small-holder size, submersible pump-system for minimum 4" wells				
	Water flow per hour: 2.5m ³ /hour- 4.0m ³ /hr at head range of 11m -15m correspondingly				
	Head: 20 m max.				
	Comes with solar panel of at least 300-360Wp mono/polycrystalline or compatible with pump controller and pump voltage and current requirement and all connection accessories included				
	Mounting structure suitable for solar PV and all necessary accessories such as bolts				
	Maintenance-free brushless DC motor made out of stainless steel (AISI 304) and with IP68-class enclosure. Min. 82% efficiency, insulation class F				
	Pump controller: Controlling and monitoring device that controls inputs for dry running protection, remote control etc. Min efficiency 90%				
	Protected against reverse polarity, overload and overtemperature				
	Integrated MPPT (Maximum Power Point Tracking)				
	Controller should have surge protection capability				
	Bluetooth and onboard data storage				
	Float switch and rope for pump suspension in water source. At least 15m well probe / float switch extension cable with plug for each pump system				
	At least 25m 10mm ² wire needed to connect each pump to pump controller , grounding wire if needed for each pump system				
	500m -meter delivery hose pipe(HDPE Pipe ID 35mm OD 40 mm or compatible with pump outlet diameter) with connection accessories to deliver water into storage tank				
	Stilling Tube or equivalent to protect the pump from the dirt and all necessary accessories to connect stilling tube to the pump				
	At least 1-year warranty and six month after-sales services				
	Grand Total without TAX				
	TAX (%) (indicate the taxable percent)				
	Grand Total with TAX				
1.2	Solar pumping system 2 with the following requirements	pcs	3		
	Small-holder size, submersible pump-system for minimum 4" wells				
	Water flow per hour: Water flow per hour: between 1.5m ³ /h -2.8m ³ /h at head range of 14m-12m correspondingly				
	Head: 20 m max.				
	Comes with solar panel of at least 200Wp mono/polycrystalline or compatible with pump controller and pump voltage and current requirement and all connection accessories included				
	Mounting structure suitable for solar PV and all necessary accessories such as bolts screws etc				
	Maintenance-free brushless DC motor made out of stainless steel (AISI 304) and with IP68-class enclosure. Min. 82% efficiency, insulation class F				
	Pump controller: Controlling and monitoring device that controls inputs for dry running protection, remote control etc. Min efficiency 90%				
	Protected against reverse polarity, overload and overtemperature				
	Integrated MPPT (Maximum Power Point Tracking)				
	Surge protector or controller should have surge protection capability				
	Float switch and rope for pump suspension in water source. At least 15m well probe / float switch extension cable with plug				
	At least 25m 10mm ² wire needed to connect each pump to pump controller , grounding wire if needed for each pump system				
	100m meter delivery hose pipe(HDPE Pipe ID 35mm OD 40 mm) with connection accessories for pumping water into storage tank for each pump				
	Stilling Tube or equivalent to protect the pump from the dirt and all necessary accessories to connect stilling to the pump				
	At least 1-year warranty and six month after-sales services				
	Grand Total without TAX				
	TAX (%) (indicate the taxable percent)				
	Grand Total with TAX				
	Delivery Date:				
	Validity of offer:				

PN: 18.2176.8-080.00

Proforma Invoice No.

ProSoft: 91155062

Date:

ANNEX II: Detailed work description for installing 10 solar pumping systems per kebele (LOT I) Amhara

No	Detail work Description	Unit	Qty	Unit price (ETB)	Total price (ETB)
1	Installation of PV panels and Pump system				
1.1	Installation of PV Modules including completion of all (inter)connections and fixing of accessories: - Installing and interconnecting solar generator - Supporting structure for all PV Modules (ground mounted) - Male and Female PV module connectors connections - Installation of earthing wires, connectors - Installation of pump controller and associated accessories - Testing and commissioning of the above	lump sum per lot/kebele	1		-
1.2	Installation of solar pump: - Installation of solar pump including fuse, surge arrester, disconnect switch, low water level detection probe inside the borehole, and grounding - connecting the pump terminal with pump controller and all necessary sensors (pump dry run sensor, water level sensor etc) - Testing and commissioning of the above	lump sum per lot	1		-
Grand Total without TAX					
TAX (%) (indicate the taxable percent)					
Grand Total with TAX					
2	Training end users (farmers and worda technicians) and system operators on site				
2.1	- General concept and functionality of the system - What to do and What NOT to do with the system - Safety rules when handling the system - system operation trouble shooting - Efficient use of energy and general system management - Basic trouble-shooting maintenance	hours per lot/kebele	8		-
Grand Total without TAX					
TAX (%) (indicate the taxable percent)					
Grand Total with TAX					
3	Transport of material to site				
3.1	Loading, transporting using a track of payload 250kg and unloading at site	Lump sum per lot/kebele	1		-
Grand Total without TAX					
TAX (%) (indicate the taxable percent)					
Grand Total with TAX					
4	Handing over, documentation and reporting				
4.1	- Full functionality check of the whole installation and according to a testing & commissioning protocol - Preliminary hand-over the installed system to the Farmer - Handing over all necessary documents (manuals) - Reporting all work done to GIZ in hard-copy and soft-copy	Lump sum per lot	1		-
Grand Total without TAX					
TAX (%) (indicate the taxable percent)					
Grand Total with TAX					
5	Six months after-sales service				
5.1	- One preventative maintenance visit - After-sales service and maintenance service in case problems occur - Service maintenance and final handing-over report	Lump sum per lot	1		-
Grand Total without TAX					
TAX (%) (indicate the taxable percent)					
Grand Total with TAX					

PN: 18.2176.8-080.00				Proforma Invoice No.	
ProSoft: 91155062				Date:	
ANNEX II: Detailed work description for installing 10 solar pumping systems per kebele (LOT II) Oromia					
No	Detail work Description	Unit	Qty	Unit price (ETB)	Total price (ETB)
1	Installation of PV panels and Pump system				
1.1	Installation of PV Modules including completion of all (inter)connections and fixing of accessories: - Installing and interconnecting solar generator - Supporting structure for all PV Modules (ground mounted) - Male and Female PV module connectors connections - Installation of earthing wires, connecters - Installation of pump controller and associated accessories - Testing and commissioning of the above	lump sum per lot/kebele	1		
1.2	Installation of solar pump: - Installation of solar pump including fuse, surge arrester, disconnect switch, low water level detection probe inside the borehole, and grounding - connecting the pump terminal with pump controller and all necessary sensors (pump dry run sensor, water level sensor etc) - Testing and commissioning of the above	lump sum per lot	1		
Grand Total without TAX					
TAX (%) (indicate the taxable percent)					
Grand Total with TAX					
2	Training end users (farmers and woreda technicians) and system operators on site				
2.1	- General concept and functionality of the system - What to do and What NOT to do with the system - Safety rules when handling the system - system operation trouble shooting - Efficient use of energy and general system management - Basic trouble-shooting maintenance	hours per lot/kebele	8		-
Grand Total without TAX					
TAX (%) (indicate the taxable percent)					
Grand Total with TAX					
3	Transport of material to site				
3.1	Loading, transporting using a track of payload 250kg and unloading at site	Lump sum per lot/kebele	1		-
Grand Total without TAX					
TAX (%) (indicate the taxable percent)					
Grand Total with TAX					
4	Handing over, documentation and reporting				
4.1	- Full functionality check of the whole installation and according to a testing & commissioning protocol - Preliminary hand-over the installed system to the Farmer - Handing over all necessary documents (manuals) - Reporting all work done to GIZ in hard-copy and soft-copy	Lump sum per lot	1		-
Grand Total without TAX					
TAX (%) (indicate the taxable percent)					
Grand Total with TAX					
5	Six months after-sales service				
5.1	- One preventative maintenance visit - After-sales service and maintenance service in case problems occur - Service maintenance and final handing-over report	Lump sum per lot	1		-
Grand Total without TAX					
TAX (%) (indicate the taxable percent)					
Grand Total with TAX					