Item	Description	Unit	Quantity	Unit Cost (GMD)	Total Cost (GMD)
1	Solar Modules				
	The following solar modules in weather proof glass enclosure rated between 200 - 300Wp inclined at 15% to the horizontal incorporating water proof connection boxes and connecting cable glands erected on an in- situ concrete floor slab with concrete columns mounting with anti -theft fixings and the whole assembly able to withstand wind speed of 150km/hr and with easy access for maintenanance and all sites as detailed in drawings and specifications.				
	Array of solar modules capable of pumping:				
А	13 m3/hr at 50 m head to be installed in Kass Wollof and Fula	No	1		
2	Module Support Structures				
	Install solar panel support structures as per technical specifications including all excavation work reinforecement and formwork required. In addition underneath the module arrays and up to 1 meter around the array surface, a 5 cm thick floor to be constructed. The panels can optionally be attached to the tank support structure in:				
А	Kass Wollof and Fula	No	1		
3	Junction boxes The following in easy mounted readily accessible array junction box to satisfy the functions of decoupling , parallelling , protection and isolating complete with weather proof plastic casing and mounted in the shade of the modules with anti- theft fittings as per specifications Array function box for Solar powered system in				
A	Array Junction box for Solar powered system in	NT -	1		
A	Kass Wollof and Fula	No	1		

SOLAR WATER PUMPING SYSTEM FOR KASS WOLLOF AND FULA

4	Pump Inverter				
	The following in easily accessible and mounted pump				
	inverter fixed on on supports structure with minimum				
	ground clearance of 600mm and enclosed in a sealed				
	weather and tamper proof housing and providing for				
	roto complete with built-in MPPT, self regulation,				
	cooling, protection				
	Pump inverter for pumping system delivering:				
	13 m3/hr at 50 m head to be installed in Kass Wollof	No			
А	and Fula		1		
5	Submersible Pump				
	Directly coupled submersible centrifugal or helical				
	rotor pump to fit 6" cased borehole and constructed in				
	stainless steel with non return valve pressure of 2 bars				
	fitted with easily removable riser pipe with portable				
	water grade internal surface connected with useable stainless steel, borehole head and the whole secured				
	with stainless steel cable aspvc or HDPE fittings at				
	pump outlet and per specifications.				
	Rotor pump to match array and pump inverter for				
	pumping system:				
	13 m3/hr at 50 m head to be installed in Kass Wollof	No			
А	and Fula		1		
6	Wellhead and Surface Pipeworks				
	Borehole-head arrangement, (wellhead) to which both				
	the riser pipe and surface pipe work are to be				
	connected. It should be constructed of solid galvanised				
	steel and provided with two monitoring holes with				
	screwed caps. Plus headwork arrangement complete with stainless steel pipe-work, cumulative water meter,				
	valve and threaded manometer socket, etc				
	Well head and headwork arrangements to be installed				
	in:				
А	Kass Wollof and Fula	No	1		
			-	1	

7	Enclosure						
	Fence of galvanised wire mesh of minimum diameter of 3mm and supporting wire of minimum diameter 6mm to be constructed around the pumping system in:						
Α	Kass Wollof and Fula	No	1				
8	Auxillary Equipments Auxillary Equipments comprising of cables, system						
	protections, alluminium identification panels depicting the system parameters and anti theft screws to be installed in:						
А	Kass Wollof and Fula	No	1				
9	After Sales Services						
	Long-term arrangement for maintenance and repair facilities in-country during the first five years of operation of the solar water pumping system. During this period, the supplier will repair any fault and replace faulty components at no cost within 72 hours of notification of such fault in:						
А	Kass Wollof and Fula	No	1				
1	0 Transportation and Installation of all Facilities in:						
А	Kass Wollof and Fula	No	1				
	TOTAL						