SOLAR WATER PUMPING SYSTEM FOR PALLOL WOLLOF AND FULA

Item	Description SOLAR WATER TOWN INC	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:				
	11 m3/hr at 67 m head to be installed in Pallol Wollof	No			
A	and Fula		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:				
A	Pallol 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 Junction box for Solar powered system in				
A	Pallol Wollof and Fula	No	1		

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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:				
	11 m3/hr at 67 m head to be installed in Pallol Wollof	No			
A	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: 11 m3/hr at 67 m head to be installed in Pallol Wollof	No			
Λ	and Fula	NO	1		
A	and Pula		1		
6	Wellhead and Surface Pipeworks				
	Weineau and Surface Tipeworks				
	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:				

A	Pallol Wollof and Fula	No	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:					
A	Pallol 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:					
A	Pallol 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:					
A	Pallol Wollof and Fula	No	1			
10	Transportation and Installation of all Facilities in:					
A	Pallol Wollof and Fula	No	1			
	TOTAL					