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:				
A	13 m3/hr at 35 m head to be installed in Sandi Kunda, Busura and Sare Talata	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	Sandi Kunda, Busura and Sare Talata	No	1		
3	Junction boxesThe 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 specificationsArray Junction box for Solar powered system in				
•	Array Junction box for Solar powered system in	NT -	1		
A	Sandi Kunda, Busura and Sare Talata	No			

## SOLAR WATER PUMPING SYSTEM FOR SANDI KUNDA, SARE TALATA AND BUSURA

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 35 m head to be installed in Sandi Kunda,	No		
Α	Busura and Sare Talata		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 35 m head to be installed in Sandi Kunda,	No		
	Busura and Sare Talata	No	1	
A			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	Sandi Kunda, Busura and Sare Talata	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:					
А	Sandi Kunda, Busura and Sare Talata	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	Sandi Kunda, Busura and Sare Talata	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	Sandi Kunda, Busura and Sare Talata	No	1			
1/						
10	0 Transportation and Installation of all Facilities in:					
А	Sandi Kunda, Busura and Sare Talata	No	1			
	TOTAL					