Technical Details

1.	. Survey:												
		•	Location with Geographic Coordinates:										
	-		of Water:										
	c. Irr	Irrigation Land Area (ha):											
	d. Total Head (m):												
	e. Water Requirement (litre/day):												
2.	2. Design:												
	I. System Voltage:												
	II.	Sc	olar Array										
		a) Solar Array Capacity (Wp):											
		-	Capacity of each	Total No	of Solar Modules :								
		-	Manufacturer Na										
	d) Brand/Model :												
	e) No of Solar Modules in a string (x):												
	f) No of Parallel Strings (y):												
		g)	Design Calculation	ons (Mathen	natical calculation/ S	imulation / F	Performance Curve):						
		h)	Catalogues:										
		i) RETS Certificates:											
	III. Pump												
		a)	Pump Type: su	ıbmersible:		Surface: [
		b)	If Surface,										
			Suction head (m):	Delivery head(m):	To	otal Head(m):						
		c)	Manufacturer N	ame:									
		d)	Brand/Model:										
		e)	e) Pump Capacity (HP):										
		f) Design calculations for Pump selection and sizing (Mathematical calculation/											
		Simulation / Performance Curve):											

- g) Catalogues:
- h) IEC certificate/Test report:
- i) Controller:
 - i. Rating (amp/watt):
 - ii. Manufacturer name:
 - iii. Model/Brand:

IV.

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Ca	ble									
 a) Manufacturer Name: b) Brand: c) Cross sectional area (sqm): d) Cable Length (solar array to Pump): e) Maximum Voltage Drop between PV Modules and Pump (shall be <=3%): f) Cables shall be PVC insulated, weather resistant and suitable for a wide temperature range (Yes/No): g) UV Resistant (yes/No): 										
Pr	otection S	System								
b)	i. ii. iii. iv. v. Down Con									
	i. ii. iii. iv.	Length of the earth electrode:m Diameter of the rod :mm Comply with IEC 62305 Technical datasheet of Earthing system								
d)	Surge Prot	tector:								
	d)	iii.								

- i. SPD is DC Type
- ii. SPD of Type 2
- iii. Manufacturer Name :
- iv. Brand /Model:
- v. Comply with IEC 61643-31:2018
- vi. Technical Datasheet

VI.	De	elivery Pipe						
	a) b) c)	Pipe type: Pipe diameter : Pipe length (m):	GI:	HDPE:	Other:			
VII.	II. Mounting Structure							
	a) Mounting structure material (shall be of aluminum or steel angles and channels with properly galvanized):							
	b) Mounting structure shall be non-corrosive (Yes/No):c) Tilt angle:							
	d) Orientation of solar panel:							
	e)) Foundation type for mounting structure:						
	f)	Clearance between g >0.5m):	ground level an	d bottom edge of PV n	nodules (shall be			

g) Fasteners used for fixing structure shall be non-corrosive (Yes/No):