



## Procurement of Greenhouse Tunnel and Solar Water Pump

WWF-Pakistan is implementing a short-term project titled "Livelihood Support Activities and Creation of Green Jobs in Chotiari Wetlands Complex" in Sanghar Sindh, financially supported by the Government of Italy and technically assisted by the UNDP-Pakistan. Under this project, WWF-Pakistan intends to install 15 greenhouse farms supported with solar-powered water pumps in the selected villages Chotiari Wetlands Complex, district Sanghar (this list of villages is attached at annex-1). For this purpose, WWF-Pakistan intends to procure the following items in BOT (build-operate-transfer) urgently as per WWF's procurement guidelines. Details / specifications for the greenhouse farm and solar water pump, along with other terms and conditions, are given below:

	Item	Quantity	Unit rate	Total amount
<b>1</b>	Establishment of Greenhouse Farm: Procurement of material for (25x50) tunnel including assembling as per following BoQ per unit in selected villages at Chotiari Wetlands Complex, district Sanghar	<b>15</b>		
<b>#</b>	<b>Specification</b>	<b>Qty/unit</b>	<b>Total quantity</b>	<b>Rate</b>
<b>1</b>	<b>Tunnel Material</b>			
<b>i</b>	Galvanized Iron (GI) Pipe: Length 20 ft, Dia 3/4", Gauge 16, Weight 5.5 kg (ave.)	15	225	
<b>ii</b>	Iron Nail (Kelley): Thickness: 5 Soot (16 mm); Weight: 875 g (ave.); Length 18" (30-50g Washer at 6" & 12" under soil)	34	510	
<b>iii</b>	Polyester Wire: 100% virgin polyester; 2 mm diameter; transparent;	300 meter	4500	
<b>iv</b>	Anti-Insect Net: Weight 100g/sqm, White color, Mesh 40-60 (L70*W40 = 2450 sft or 228 sqm)	2450 sft 228 sqm	36750 sft 3420 sqm	
<b>v</b>	Vege Net (Crop Net Material): PE; Mesh:18*18cm & 20*20cm; Width: 1.8 Meters, Length: 60 Meters; Weight: approx. 400gm	4	60	
<b>vi</b>	<b>Tray:</b> Plastic one with 64 holes, (black color)	10	150	
<b>vii</b>	Pesticide & fertilizer spray tank: 20 Liter, 12Volt Plastic Backpack Electric Battery Pressure Pump Motor Power Sprayer	1	15	
<b>2</b>	<b>Seed Hybrid</b>			
<b>i</b>	Cucumber (Yala) pack of thousand seeds	1	15	
<b>ii</b>	Capsicum (Sumines) pack of 1000 seeds	1	15	
<b>3</b>	<b>Fertilizers</b>			
<b>i</b>	Bio-fertilizer (Compost 25 kg pack)	1	15	
<b>ii</b>	DAP (Engro 18:46:0 10 kg pack)	1	15	
<b>iii</b>	Urea (Engro 46:0:0 25 kg pack)	1	15	
<b>iv</b>	NPK (Engro 10 kg)	1	15	
<b>v</b>	Micronutrient [FMC, Syngenta (500g pack)]	1	15	
<b>vi</b>	Nitro potash/SOP [FMC, Syngenta (25g pack)]	1	15	
<b>4</b>	<b>Pesticides</b>			
<b>i</b>	Fungicides: Topsin M, Acrobat MZ 250g/400g	1	15	
<b>ii</b>	Insecticides: Novastar, Chlorpyrifos 1 L bottle	1	15	
<b>Grand total</b>				



Item		Quantity	Unit rate	Total amount
2	Installation of solar-powered water pumps: Procurement of solar-powered water pump (1 horsepower pump with 800 watts mono solar plates) with 500 liters storage tank with water supply (bore) connection and PVC fitting/ drip network and electrical connection.	15		
#	Specification	Qty/unit	Total quantity	
i	Solar Pump (Taifu, Shazad)	1	15	
ii	Solar Panel (Longi/Trina)	2	15	
iii	Fiber Storage Tank (Ayan tuff, Al-Ghazi)	1	15	
iv	PVC Fitting	1 lot	15	
v	Electrical Fittings	1 lot	15	
vi	Bore charges	1 bore	15	
vii	Drip network for 25x50 tunnel	1 network	15	
<b>Total</b>				

#### Terms and conditions

1. Owing to the urgent nature of the project, only those parties/vendors are invited who can completely deliver and install the required units within not more than twenty (20) days from the date of receiving the approved Purchase Order.
2. The interested parties must submit separate quotations for both greenhouse farm/tunnel and solar-powered water pump. Quotation to supply one of these items will also be acceptable/considered;
3. The warranty period and terms must be mentioned in quotations;
4. Quotations should be submitted in a sealed envelope at the following address:

**Manager Operations**  
**WWF-Pakistan**  
**Bangalow No. 35-D,**  
**P.E.C.H.S, Block-6,**  
**Shahrah-e-Faisal,**  
**Karachi**

- Envelop must be marked with the "Quotation for Greenhouse Tunnel/ Solar-Powered Water Pump."
- WWF-Pakistan reserves the right to accept or reject any or all of the quotations as per WWF guidelines;
- Interested parties, vendors should attach business profiles with the quotations.
- It should be clearly mention in the quotes that rates are either inclusive of taxes or exclusive of taxes
- NTN number.



## Annex 1:

#	Village Name	UC	Taluka	No of plots	Source of water for solar pump	GPS Coordinates
1	Yousif Ji Mian	Mian	Sanghar	1	Bore water (groundwater)	N 26°34'48.47596 E 68°59'26.36664
2	Wali Mohammad Abupoto	Shah sikandar Abad	Sanghar	1	Bore water (groundwater)	N 26°13'34.788 E 69°3'19.59264
3	Yar Mohammad Mallah	Sadrath	Sanghar	1	Bore water (groundwater)	N 26°25'58.10772 E 68°52'23.56068
4	Nawab ud din Shar	Sadrath	Sanghar	1	Bore water (groundwater)	N 26°21'23.67216 E 68°52'49.92528
5	Allah Warayo Shar	Sadrath	Sanghar	1	Bore water (groundwater)	N 26°20'25.73268 E 68°50'40.86744
6	Mohammad Hashim Mullan	Sadrath	Sanghar	1	Pond	N 26°4'35.97528 E 69°4'19.29756
7	Suleman Gaho	Shah Sikandar Abad	Sanghar	1	Bore water (groundwater)	N 26°13'47.32428 E 69°2'10.06404
8	Sohnno Fakir Umrani	Kot Nawab	Sanghar	1	Pond	N 26°43'2.28924 E 69°15'5.49412
9	Haji Tharo Fakir Mangrrio	Chotiari	Sanghar	1	Pond	N 26°41'2.46836 E 69°8'29.90868
10	Baqar	Chotiari	Sanghar	1	Bore water (groundwater)	N 26°53'2.30052 E 69°9'22.72356
11	Haji Imam u din Arain	Khadwari	Sanghar	1	Bore water (groundwater)	N 26°3'53.03844 E 68°57'46.611
12	Roshan ud din Mullan	Dhoro Janib	Sanghar	2	Bore water (groundwater)	N 26°3'57.75516 E 69°6'12.78612
13	Kot Jamal shah	Chotiari	Sanghar	1	Bore water (groundwater)	N 26°21'6.81656 E 69°11'37.3946
14	Mohammad Uris Shar	Sadrath	Sanghar	1	Bore water (groundwater)	N 26°19'51.402 E 68°50'35.18448