

**Solar Project for XXXXX**

SAMPLE

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## 1. Project Abstract

People living in Villages usually face several difficulties in their daily routine life, where

project is a great step taken by **Youth Action Pakistan**, to save children from mentioned mishaps

### **M/S Limitless Solutions**

Being Consultant/EPC-contractor for solar PV power projects is started working in the field of Solar PV Power Engineering from the winter of 1999.

Now after 14 years of proven practical experience, having expertise in both Grid tied and Off Grid Solar PV Power Designing and construction.

## 2. Baseline Project Definition

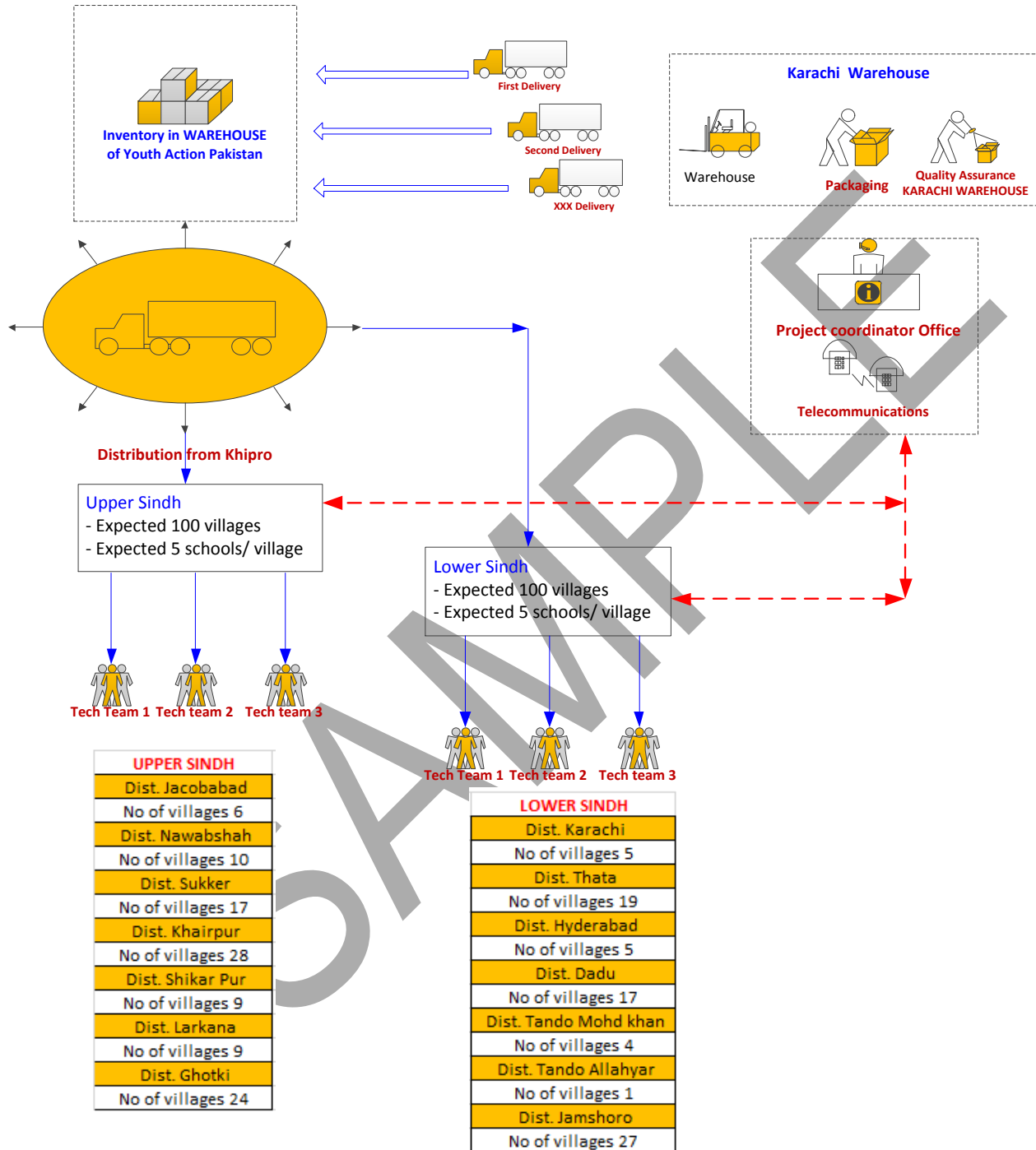
100 Solar Water Pumping systems will be installed in 100 villages. The project will be implemented in 100 schools that will be furnished with a solar water pumping system to provide water for basic usage.

### **Specification of each Water Pumping system are as following**

1. Solar PV Module
2. Submersible Pump
3. Pump Controller
4. Well Probe Sensor
5. PV Disconnect Switch
6. Float Switch
7. Cable Splice kit
8. Panel Mounting
9. Controller box
10. Piping system and Installation Accessories

*Project execution plan to install the above system/s are provided below in section 5*

### 3. Work Break-down Structure for execution of Project



### 3.1. Project Execution Plan

Entire Project will be completed within 240 working days from the date of confirmation and the

an experienced Project Manager with the help of a Project coordinator, Six Nos. of Installation teams and also local skilled personnel from each District.

Above given time line is further divided in sub-Tasks for each team as follows:

#### 3.1.1. Solar Pump system

**Team:** One Solar pump installer two helpers

**Task:**

a. Pump placement

g. to controller

h. testing and commissioning

*Note: For details of technical and team please see (section 5)*

### 3.2. Logistics Management

As discussed the logistics of all goods from Karachi warehouse to each site will be in responsibility of **"Youth Action Pakistan"**

## 4. Project Schedule

For each solar pump system installation one technical team (three personals) to complete above Task according to below given description.

Team will  
Team will complete  
days.

Total

**"Three teams"** are for **Upper Sindh** and **"Three Teams"** are for **Lower Sindh**. All the teams will perform the installation in parallel.

Following is the work distribution of each team:

- Expected No of systems:
- Expected number of villages:
- Number of systems per village:
- Number of days of working per village:
- Total days per team:

Tasks to be performed at each site is below:

Tasks for pump Installation
Pump placement
Panel and mounting Placement
cable connection of panel to controller
testing and commissioning

#### 4.1.1. Training for School Representative

1. We will provide training to any person/Staff deputed by school management, to maintain and operate the system on daily basis.
2. We will provide an operating manual in Urdu and Sindhi for consumer, which have all the details of tasks needed for daily maintenance of the system.

## 5. Technical Team

Our Experts Working in Solar PV power since last 13 years. The work Execution Plan has Been Designed under solar Expert and Project Management team with the coordination of local solar and civil expert personals (whose details are given below).

### 5.1. Technical Engineering Staff Details

#### **Solar Consultant**

Mr. Naeem Uddin Khan

Solar PV Power Consultant

Overall 18+ years' experience in Electrical field, 10 years especially in Project management of Solar PV designing and installation

#### **Chief Engineer**

Mr. Siraj ur Rehman

HT/LT Power Consultant

Overall 18+ years' experience in Electrical field, most of experience is for installation of conventional power Project:

#### **Project Coordinator:**

Overall 25+ years' experience Mechanical and project management especially in remote and desert areas for different conventional power and Bio-mass power

#### **SENIOR SOLAR SYSTEMS ENGINEER**

(NED UET)  
(2.5 years' experience in Solar PV Designing (on grid) and making complete Engineering Design Documents for MW solar PV Projects)

#### **SOLAR SYSTEMS ENGINEER**

Engr.

Bachelors of Engineering in Electrical (NED UET)

#### **SOLAR SYSTEMS ENGINEER**

Engr. Ali Mehrez Parla

Bachelors of Engineering

#### **SOLAR SYSTEMS ENGINEER**

Bachelors of Engineering in Electrical (QAUST)

#### **SOLAR SYSTEMS – HEAD INSTALLER**

Mr

Associate Engineering in Electrical technology, GCT Karachi

#### **SOLAR SYSTEMS – Repair and Maintenance Head**

Mr.

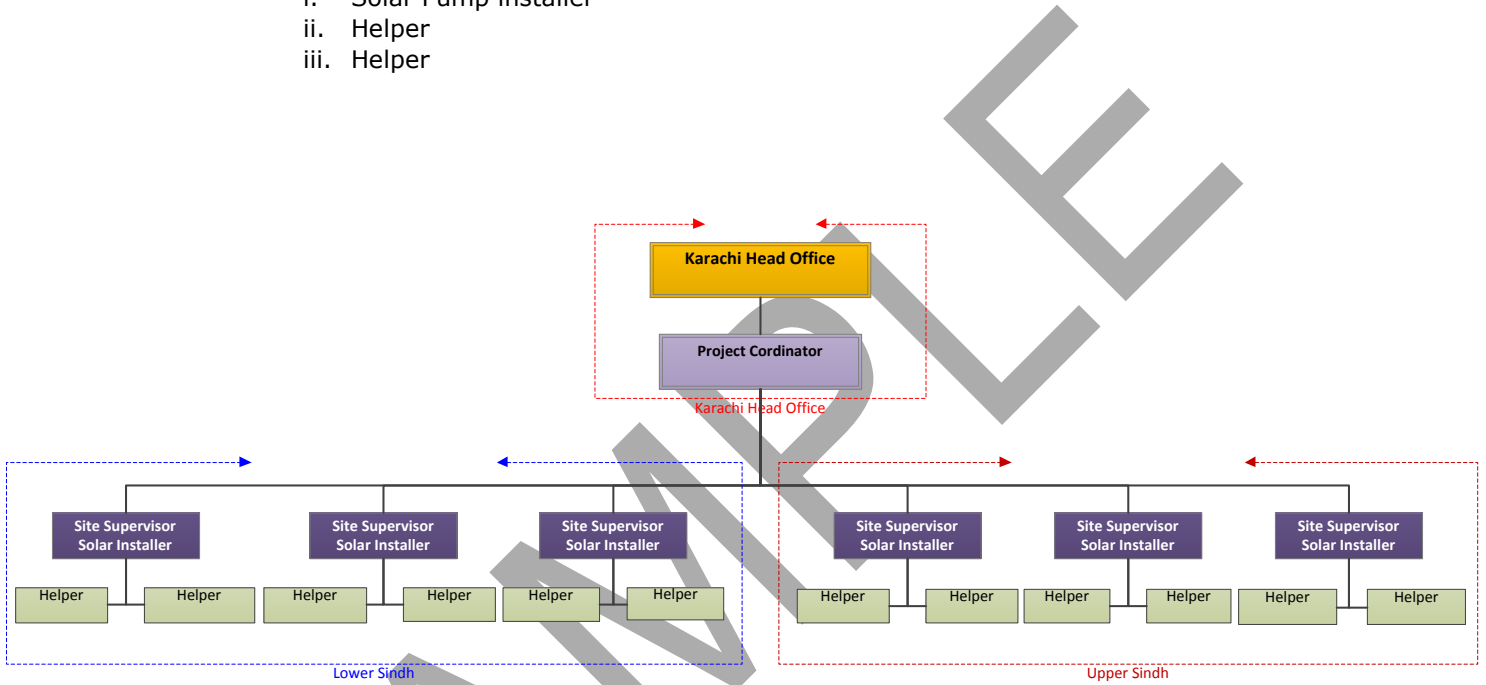
Overall 3 Years of experience in Electrical and Electronic Installations

**SOLAR SYSTEMS – INSTALLER**

Mr.  
Overall 7 Years of experience in Electrical Installations

**6. Management Hierarchy:**

1. Project coordinator
2. Each Installation Teams
  - i. Solar Pump installer
  - ii. Helper
  - iii. Helper





## 7. Assurance for Quality and working of system

There will be three stages to check the entire work during installation

- 1- Project Coordinator will look after the task at every stage
- 2- Solar Consultant will be visiting different sites time to time and will meet the locally available authorities on site and will assure the satisfaction level of the tasks
- 3- Installation completion advice "Forms" will be

We also provide a **Basic operational training book in Urdu** to any designated local staff of the school by head master

## 8. Communications Plan

### 8.1. Project Kick-off Meeting

After getting the approval of working and after visiting the site a meeting of high profile personals will be set between followings to set/resolve the main tasks and other issues if any;

- 3- Limitless Solutions

### 8.2. Project Status Meetings

A Meeting will be conducted for project Status, after 100 days of the approval of working between

- 3- Limitless Solutions

### 8.3. Project Assessments and Reviews

Project Assessment and Review meetings will be conducted in the end of every month which will be between

- Limitless Solutions

### 8.4. Customer Reporting Requirements

Following two forms will be signed from any designated authority by **Youth Action Pakistan**

- 1- Delivery Challan (*for what stuff we delivered to site*)
- 2- Installation completion advice from owner of each after successful installation and commissioning of the system

### Delivery Challan

Date:

Reference No.:

Contact Person:

Project Name:

Against PO#

S. No.	Item	Specification	Quantity
1	Panel Mountings		
2	Cable		
3	Cable		
4	DC Breakers		
5	AC Breaker		
6	cable ducts		
7	PVC Pipe		
8	PVC Pipe		
9	Flexible pipe		
10	Rawal bolts and nut bolts		
11	Installation accessories		

Delivered by:

Received by:

Name: \_\_\_\_\_

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Customer ID: \_\_\_\_\_

### Installation Completion Advice

Company/Customer Name: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_

Phone: \_\_\_\_\_ Mobile: \_\_\_\_\_

Email: \_\_\_\_\_

### Description of Installed Products:

S. no	Item	Specification	Brand name	Quantity	Voltage	Amps	Status
1	Solar Module						
2	Solar Inverter						
3	Charge controller						
4	Batteries						
5	D.C Breaker						
6	AC Breaker						
7	Civil work						
8	Cabling						
9	Commissioning						

### System Parameters:

S.no.	Parameters	Rating	Status
1	Generated power		
2	Output Power (Load)		
3	V <sub>oc</sub> (input)		
4	V <sub>oc</sub> (output)		

### Installer Detail

Name: \_\_\_\_\_

Mobile: \_\_\_\_\_ Signed: \_\_\_\_\_ Date: \_\_\_\_\_

### Project Completion Detail

All the installed equipment is in working condition and installed properly.

Name of Client: \_\_\_\_\_

Signature: \_\_\_\_\_

Engineer's Name: \_\_\_\_\_

Signature: \_\_\_\_\_

## 9. Customer Acceptance Process

After successful completion of the Project key personals from the following will conduct the final meeting for discussion and assuring that all have been completed and or if there is any reservation/issue is remaining from any of following or from home owner

3-

## 10. Risk Assessment

Following risk may be possible for solar expert team

Risk	Impact Level (H/M/L)	Risk Plan Actions
1. Snake/Scorpion Bite	H	First Aid Kit necessary specially with anti-venom syrup