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Assignment ~ 1

1) Define a problem statement and give a brief executive summary snapshot.

- Executive Summary Snapshot :-

- Project Description :-

- Project Scope :-

- * Sample Business Requirement Document Template.

* Project Name :- Solar Revival - Reviving the solar pump System to restore farm operations.

Company name :- Surya Solar Energy. PVT. LTD

→ Problem :- From three to four years, the Government of India and The Government of Maharashtra have been installing solar pumps in every farmer's field in the whole of India. But in a few days after installing that pump. The control, motor, solar plates socket, GPS, App problem (Online pump on-off), Solar plates damaged. Of that solar pump are not working. So our SURYA SOLAR ENERGY is creating a website. That means when the farmers face any problem, the farmers will call us from that website and our employees solve their problem.

Executive summary snap shot

1) Analysis

- i) Technical failure of solar pump system and motors of control.
- ii) Lack of maintenance and repair.
- iii) Aging infrastructure.
- iv) Power supply issues.
- v) Water source problems.
- vi) Implement regular maintenance and repair.

By conducting a thorough analysis, you can identify the root causes, impacts, strengths, weaknesses, opportunities and threats related to the problem, and make informed decisions to solve it effectively.

2) Findings

- Technical Issue • Lack of maintenance.
- Power supply issues • Crop Damage
- Urgent Attention Required • Replacement Parts Available.
- Budget Constraints:-

3) Project Description.

Project overview: The solar revival project aims to quickly restore the farmer's solar pump system, which has suddenly stopped working, to prevent crop damage and economic losses.

The project will diagnose the issue, repair or replace faulty components, and ensure the system is functioning correctly within the next few days.

- Project Goals.**
- Test and ensure the system is working correctly.
 - Provide a reliable and efficient irrigation system for the farm.
 - Minimize downtime and crop losses.

* **Scope:-**

- Provide training to the farmer on system maintenance and troubleshooting.

- Test and monitor the system to ensure functionality.

* **Timeline :-**

- Day 1-2: Diagnose the issue and gather resources.

- Day 2-3: Repair/ Replace components and test the system.

- Day 4 : Final testing, monitoring and training.

* **Resources:-**

- Solar panel repair/ replacement
- Electrical connection materials
- Motor/ control system components
- Tools and equipment
- Expertise (if needed).

* Budget:-

- Materials and resources :- [xxxx Rs.]
- Labor and expertise :- [x Rs]
- Total budget :- [xxxx Rs]

5) Proposed process:-

- Assessment and Planning
- System testing and optimization
- Monitoring and Evaluation
- Farmer training and Handover.

Project Description.

The solar pump system and motor of control on [Farmer's Name] farm have suddenly stopped working, causing an immediate halt to irrigation operations. This critical situation requires swift attention to prevent.

- Crop damage and loss of yield
- Economic losses due to reduced productivity
- Potential long-term damage to solar pump system

Key Details:

- Location: [Farm location]
- Solar Pump System: [System Type and Model]
- Motors of control: [Motor type and model]
- Date of failure: [Date]
- Urgency Level: High

Project purpose:

- Restore functionality
- Improve Efficiency
- Prevent future failures
- Enhance farmer knowledge
- Improve Food security.

2) Challenges:-

- * Time constraint
 - * Technical complexity
 - * Resource Availability
 - * Weather Dependence.

3) Why? Take the project.

- * Urgency * Crop protection * Energy sustainability
 - * Community impact * Skill Development
 - * Skill Development.

⇒ The project offers an opportunity to develop problem-solving technique and project management skills.

* Environmental Benefits

Restoring the solar pump system maintains an eco-friendly irrigation solution.

- * Taking the project will
 - Provide a sense of accomplishment and fulfillment.
 - Enhance problem-solving and technical skills.
 - Demonstrate commitment to social responsibility.

4) Current Solution

- * Short - term soln :- Temporary Repair

- * Long - term soln. :-> Replace faulty components
 2) Former training.

Project scope :-

Ensure a focused and effective sdn to the former's problem, restoring the solar pump system and motors of control to working condition within next few days

1) Project specific goals:

- i) Restore functionality
- ii) Minimize crop damage
- iii) Identify Root cause
- iv) Upgrade or Replace
- v) Remote Monitoring.
- vi) Emergency Repair Service.

2) Tasks

i) Install New components :- Install new components, ensure proper configuration and testing.

ii) Material procurement :- Source necessary material and components

iii) Less Budget of Farmer

iv) Deliverables \Rightarrow Yes

4) Costs:

- 1) Labor costs
- 2) Material costs
- 3) Equipment costs
- 4) Miscellaneous costs

Note:- The cost breakdown may vary depending on the location, availability of resources, and other factors.

5) Deadlines :-

Day 1: Diagnosis and Planning (24 hours)

Day 2: Repair and Replacement (24 hours)

Day 3: Testing (24 hours)

Day 4: Training and completion (24 hours)

Identify potential risks and develop a contingency plan to address unexpected delays or issues.

Final thoughts :-

- Help for farmers
- Best solar material available.

Best features in our website

- 1) User friendly interface
- 2) Contact form and supportable employees
- 3) All Solar Pump Company Contact are available
In our website

SURYA SOLAR ENERGY

Solar Water Pump Available Service

- Motor Problem
- Controller Problem
- SIM / App Problem
- Solar Panel Damage
- Washing of panel
- Tools and Equipment
- Repair & Replacement

