



## **Proposal for Preparation of Detailed Project Report (DPR) for Solar Projects under RESCO Model**

**Date:** 12 March, 2025

**To:**

Mr. Shyam M Dubey  
Project Head - Solar  
Agastya Energy Industries Pvt. Ltd.  
BN Corporate Park Pvt Ltd.,  
1st Floor, Plot No. 18, Sector – 135, Noida, U.P. 201304

**Subject:** Proposal for Preparation of Detailed Project Report (DPR) and Financial Modelling for Solar Projects under RESCO Model

**Dear Mr. Dubey,**

We appreciate the opportunity to submit our proposal for preparing a Detailed Project Report (DPR) and Financial Modelling for the proposed solar projects in Uttar Pradesh under the RESCO Model. Our proposal outlines the Scope of Work, Methodology, Deliverables, Timelines, and Commercials for the DPR preparation.

### **1. Scope of Work**

The DPR will comprehensively analyze the technical, financial, regulatory, and environmental aspects of setting up solar power plants at the specified locations under the **PM-KUSUM C2 Scheme**. The scope includes:

#### **1. Site Assessment & Solar Resource Analysis**

- a) Site feasibility and GIS mapping
- b) Solar irradiance study and meteorological data analysis
- c) Land assessment (leased or owned land availability)

#### **2. Technical Design & Plant Configuration**

- a) Selection of optimal **solar PV modules, inverters, mounting structures**
  - b) Plant layout and single-line diagram (SLD) preparation
  - c) Grid connectivity and evacuation planning
- 3. Regulatory & Statutory Approvals**
- a) Identification of necessary approvals from UPNEDA, DISCOMs, UPPCL, and UPERC
  - b) Compliance with MNRE and State Electricity Regulations
- 4. Financial Modelling & Tariff Estimation**
- a) CAPEX & OPEX estimation
  - b) Levelized Cost of Energy (LCOE) computation
  - c) Tariff modelling as per the given PPA Rate (Rs. 2.90/unit)
  - d) ROI, IRR, and payback period analysis
- 5. Risk Assessment & Mitigation Plan**
- a) Technical, financial, and regulatory risk evaluation
  - b) Feeder-wise power evacuation strategy
- 6. Implementation Timeline & Project Scheduling**
- a) Milestone-based execution plan covering procurement, installation, commissioning
- 7. Environmental & Social Impact Assessment (ESIA)**
- a) Identification of environmental impact and mitigation measures
  - b) Assessment of social acceptance and community engagement
- 8. Commercial Feasibility & Power Sale Strategy**
- a) Business model structuring under RESCO
  - b) Power sale agreement structuring with DISCOMs

## 2. Chapter-wise Index for the DPR

Chapter No.	Chapter Name	Scope Covered
1	Executive Summary	Overview, project objectives, and feasibility insights
2	Site Assessment	Solar resource mapping, land evaluation

3	Plant Design	Technical specifications, SLDs, equipment selection
4	Grid Connectivity	Feeder-level solarization plan, evacuation setup
5	Financial Modelling	CAPEX, OPEX, LCOE, Tariff projection
6	Risk Assessment	Identifying potential risks & mitigation strategies
7	Implementation Plan	Project execution timeline, milestone tracking
8	Environmental Study	ESIA, land use impact, sustainability plan
9	Business Model	Power purchase agreements, revenue model
10	Conclusion & Recommendations	Summary of findings and next steps

### 3. Methodology

Our approach will involve:

- **Primary Data Collection:** Site surveys, irradiation studies, load assessments.
- **Secondary Data Analysis:** Regulatory policies, tariff trends, financial reports.
- **Technical & Financial Modelling:** Simulations using PVsyst, HOMER, and Excel-based financial modelling.
- **Stakeholder Consultations:** Engagement with DISCOMs, UPNEDA, and landowners.

### 4. Project Timeline

Activity	Duration
Data Collection & Site Assessment	2 Weeks
Technical Design & Feasibility Study	2 Weeks
Financial Modelling & Tariff Analysis	1 Weeks
Risk Assessment & Regulatory Compliance	1 Weeks
Final DPR Submission	1 Week
<b>Total Duration</b>	<b>7 Weeks</b>

## 5. Commercials

Component	Cost (INR)
Site Survey & Feasibility Analysis	650000
Technical Design & Grid Integration Study	400000
Financial Modelling & Tariff Projections	250000
Risk Analysis & Regulatory Compliance	300000
DPR Documentation & Final Submission	400000
<b>Total (Excluding GST )</b>	<b>200000</b>

### Payment Terms:

- 30% Advance on Work Order Issuance
- 40% on Draft DPR Submission
- 30% on Final DPR Approval
- GST shall be extra as applicable

## 6. Credentials & Past Experience

We have successfully completed DPRs for Viviid Renewables Private Limited, including solar projects under MNRE Solar Park Scheme Mode-6, SECI, and state solar scheme of Rajasthan. Our consultancy brings 6+ years of experience in solar consulting and DPR preparation.

For my credentials & experience please visit **[www.susheempandey.com](http://www.susheempandey.com)**

## 7. Conclusion

We appreciate the opportunity to collaborate on this strategic solar initiative and are confident that our expertise will contribute significantly to the success of the project. We look forward to your positive response and are available for further discussions at your convenience.

For any clarifications, please feel free to reach out.

**Best Regards,**

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