



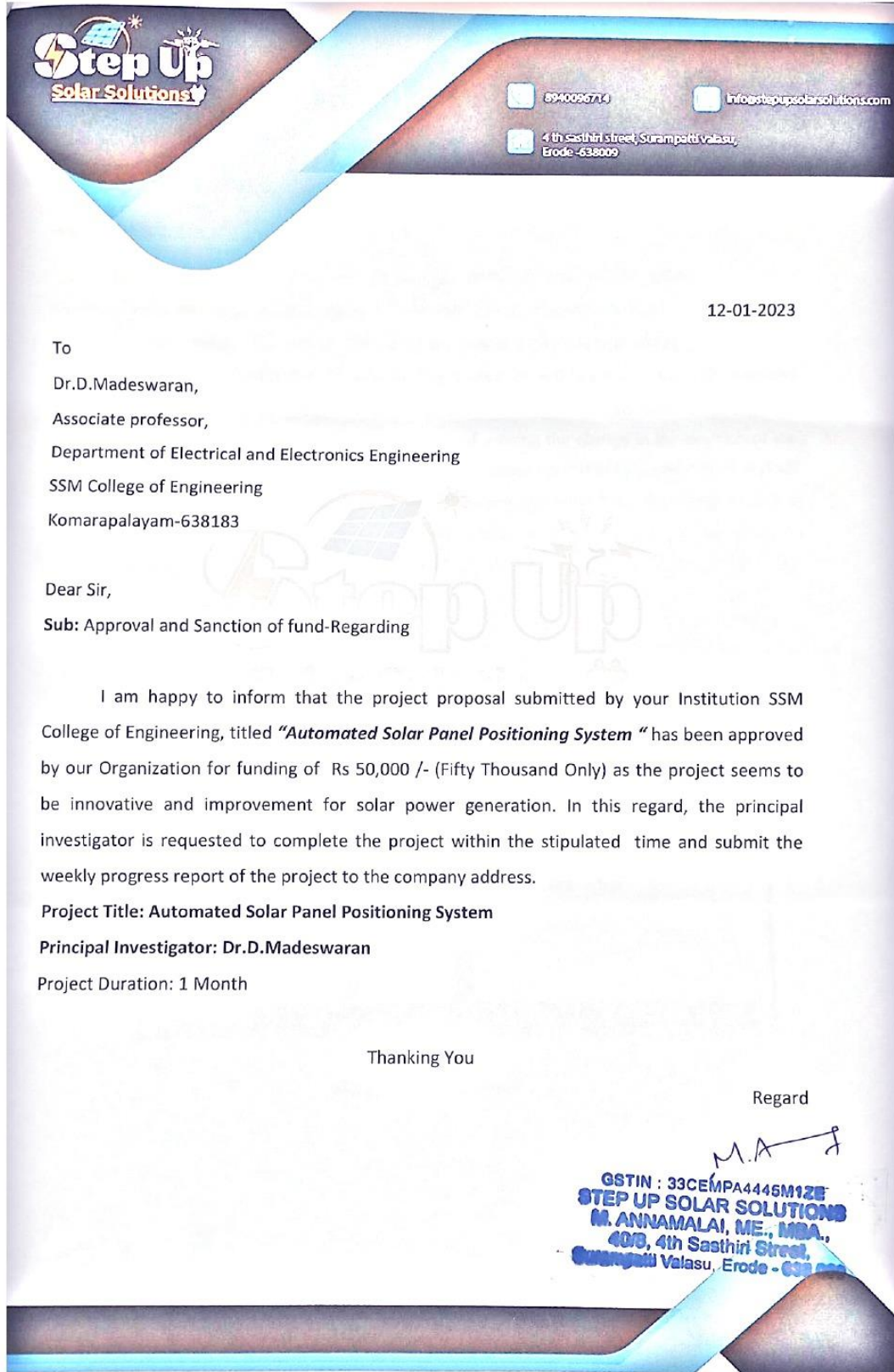
# SSM COLLEGE OF ENGINEERING

Approved by AICTE, Affiliated to Anna University

Recognized by UGC Under Section 2 (f) of 12 (B)

NH-544, Salem Main Road, Komarapalayam: 638 183, Namakkal (Dist.), Tamil Nadu, India.

[www.ssmce.ac.in](http://www.ssmce.ac.in), 9894026708.



12-01-2023

To

Dr.D.Madeswaran,

Associate professor,

Department of Electrical and Electronics Engineering

SSM College of Engineering

Komarapalayam-638183

Dear Sir,

**Sub:** Approval and Sanction of fund-Regarding

I am happy to inform that the project proposal submitted by your Institution SSM College of Engineering, titled "*Automated Solar Panel Positioning System*" has been approved by our Organization for funding of Rs 50,000 /- (Fifty Thousand Only) as the project seems to be innovative and improvement for solar power generation. In this regard, the principal investigator is requested to complete the project within the stipulated time and submit the weekly progress report of the project to the company address.

**Project Title:** Automated Solar Panel Positioning System

**Principal Investigator:** Dr.D.Madeswaran

**Project Duration:** 1 Month

Thanking You

Regard

M.A.  
GSTIN : 33CEMPA4446M1ZE  
STEP UP SOLAR SOLUTIONS  
M. ANNAMALAI, ME., MBA.,  
408, 4th Sasthri Street,  
Surampatti Valasu, Erode - 638009

## AN AUTOMATED SOLAR PANEL POSITIONING SYSTEM

### ABSTRACT:

This project describes the hardware design and implementation of a system that ensures a perpendicular profile of the solar panel with the sun in order to extract maximum energy falling on it renewable energy. The unique feature of the project system is that instead of taking the earth as its reference, it takes the sun as a guiding source. Its active sensor constantly monitors the sunlight and rotates the panel towards the direction where the intensity of sunlight is maximum. The light dependent resistor's do the job of sensing the change in the position of the sun which is dealt by the respective change in the solar panel's position by switching on and off the geared motor the control circuit does the job of fetching the input from the sensor and gives command to the motor to run in order to tackle the change in the position of the sun. With the implementation the proposed system the additional energy generated is around 25% to 30% with very less consumption by the system itself.

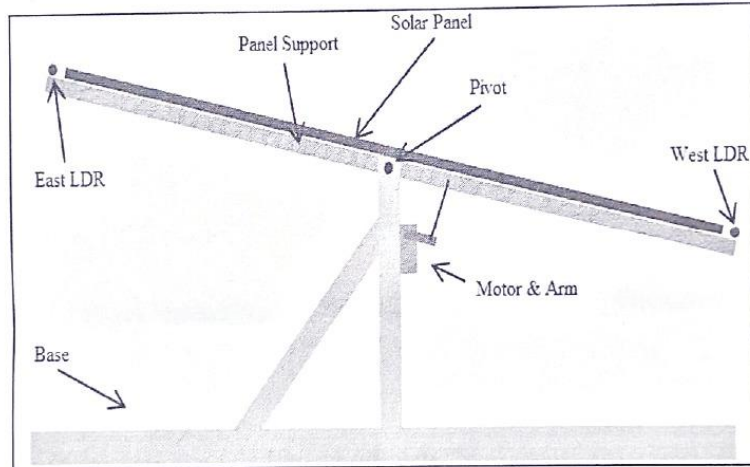


Figure: Working Model




Do without of ...  
Principal Engineer  
SSM COLLEGE OF ENGINEERING  
KOMARAPALAYAM 638183

*[Signature]*  
Principal  
SSM College of Engineering  
Komarapalayam - 638183.



# SSM COLLEGE OF ENGINEERING

Approved by AICTE, Affiliated to Anna University

Recognized by UGC Under Section 2 (f) of 12 (B)

NH-544, Salem Main Road, Komarapalayam: 638 183, Namakkal (Dist.), Tamil Nadu, India.

[www.ssmce.ac.in](http://www.ssmce.ac.in), 9894026708.



9677331707  
9894570707

33AAMFH2995M1ZR

[www.homestyletextil.com](http://www.homestyletextil.com)  
[homestyletextil@gmail.com](mailto:homestyletextil@gmail.com)

10, Sengunthapuram 4th Cross,  
Karur - 639 002.

Ref no: SSMCE/MOU/23

24-03-23

## MEMORANDUM OF UNDERSTANDING (MoU)

Between

**SSM COLLEGE OF ENGINEERING, KOMARAPALAYAM**

&

**HOMESTYLE TEXTIL, KARUR**

### PREAMBLE

**SSM COLLEGE OF ENGINEERING** (SSMCE), Komarapalayam, at its various engineering and arts departments is charged with responsibility of training technical and scientific manpower in various front-line areas of importance for the Nation and is also contributing to the rapidly growing scientific and technological knowledge and professional excellence in Science & Technology by undertaking industrial & applied research and consultancy.

And

Whereas, both **SSMCE** and **Home style Textil**, now

Subject: Memorandum of Understanding (MoU) for Utilizing Computer Colour Matching Machines

We are pleased to formalize our collaboration through this Memorandum of Understanding (MoU) between Ssm College of Engineering (SSMCE) and Home style Textil for the utilization of Computer Colour Matching (CCM) machines in our operations. This MoU outlines the terms and conditions of our partnership as follows:



# SSM COLLEGE OF ENGINEERING

Approved by AICTE, Affiliated to Anna University

Recognized by UGC Under Section 2 (f) of 12 (B)

NH-544, Salem Main Road, Komarapalayam: 638 183, Namakkal (Dist.), Tamil Nadu, India.

[www.ssmce.ac.in](http://www.ssmce.ac.in), 9894026708.



Fabric that speaks

**HOMESTYLE  
TEXTIL**



9677331707  
9894570707

33AAMFH2995M1ZR

[www.homestyletextil.com](http://www.homestyletextil.com)  
[homestyletextil@gmail.com](mailto:homestyletextil@gmail.com)

10, Sengunthapuram 4th Cross,  
Karur - 639 002.

## **Purpose:**

The primary purpose of this collaboration is to enhance the accuracy and efficiency of color matching in the textile and apparel industry by utilizing Computer Colour Matching (CCM) machines.

1. The expertise of SSM shall be utilized for testing and consultancy works.
2. Tests can be carried out on CCM machine and the results obtained shall be kept confidential.
3. The charges can be fixed on nature of tests carried out.

## **Responsibilities:**

### **a. SSM College of Engineering (SSMCE) will:**

- i. Provide expertise in CCM technology implementation and operation.
- ii. Assist in the setup and calibration of CCM machines.
- iii. Conduct training sessions for the staff of Home style Textil on the proper use of CCM machines.

### **b. Home style Textil will:**

- i. Procure and install CCM machines in their production facilities.
- ii. Ensure that their staff is trained in operating CCM machines efficiently.
- iii. Collaborate with SSMCE in data analysis and optimization of color matching processes using CCM technology.

## **Duration:**

This MoU is effective from 24-03-23 and will remain in effect for a period of Five years. Upon mutual agreement, it may be extended or terminated.



# SSM COLLEGE OF ENGINEERING

Approved by AICTE, Affiliated to Anna University

Recognized by UGC Under Section 2 (f) of 12 (B)

NH-544, Salem Main Road, Komarapalayam: 638 183, Namakkal (Dist.), Tamil Nadu, India.

[www.ssmce.ac.in](http://www.ssmce.ac.in), 9894026708.



9677331707  
9894570707

33AAMFH2995M1ZR

[www.homestyletextil.com](http://www.homestyletextil.com)  
[homestyletextil@gmail.com](mailto:homestyletextil@gmail.com)

10, Sengunthapuram 4th Cross,  
Karur - 639 002.

### Confidentiality:

Both parties agree to maintain the confidentiality of any proprietary information shared during the collaboration, including but not limited to technical specifications, processes, and data related to CCM technology.

### Governing Law:

This MoU shall be governed by and construed in accordance with the laws of Namakkal.

Please signify your acceptance of the terms outlined in this MoU by signing below.

Thank you for your cooperation. We look forward to a successful collaboration in implementing Computer Colour Matching (CCM) technology.

In witness parties here to have entered into this agreement effective as on the date and year first written above.

On behalf of

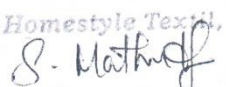
### SSM COLLEGE OF ENGINEERING

Name : Dr.S.Balamohan  
Director

Signature : 

### HOMESTYLE TEXTIL

Name : Mr.S.Mathankumar  
Partner

Signature: *For Homestyle Textil,*  
  
Partner

### Witness

Name : Mr.M.Ponmaniselvam  
Assistant professor  
Textile chemistry



Name: Mr.R.V.P.Senthilkumar  
Director



# SSM COLLEGE OF ENGINEERING

Approved by AICTE, Affiliated to Anna University

Recognized by UGC Under Section 2 (f) of 12 (B)

NH-544, Salem Main Road, Komarapalayam: 638 183, Namakkal (Dist.), Tamil Nadu, India.

[www.ssmce.ac.in](http://www.ssmce.ac.in), 9894026708.

## Computer color matching

CCM is an important tool in the testing and evaluation of dyed yarns and fabrics it's helpful in matching various tones and shades of colors and provide the optimum combination of these. The institute offers testing and evaluation facilities using CCM to the industries in and around Komarapalayam

