

**Name of the Institute:**

**Prof. Ram Meghe Institute of Technology & Research, Badnera**

**Discovery phase:**

It shall mainly consists of two stages, as follows

**a) Stage I:** Aimed at spreading awareness, understanding the training needs, Village survey, road show etc.

**b) Stage II :** After gaining inputs from stage I; Launching two courses on pilot basis.

The learning from discovery phase shall finally lead to running of customized training programs for the region, on regular basis.

**Proposed courses**

- 1. Solar energy technician:**
- 2. Traditional Hand embroidery**

**Course Details:**

**Title of the course : 1. Solar energy technician:**

**Introduction**

Solar energy is a largest renewable resource freely available everywhere in adequate amounts. It is one of the most promising, clean, pollution free sources of energy. Currently a number of solar energy devices like solar water heater, solar photovoltaic pumps and solar photovoltaic lighting systems are gaining popularity. In Melghat also various government agencies have provided numerous solar energy devices to local residents and are gradually being adopted by local inhabitants. There is a need for generating manpower for installing and maintaining such solar based systems. This innovative training program shall generate such trained manpower in Melghat.

**Objectives**

After going through this course the student will be able to:  
Understand the Basic Principles of Solar Technology, Water Heater, Solar Photovoltaic Lighting System, Solar Water Pumping etc. install, maintain and promote the uses of solar applications.

**Job Opportunities**

After successful completion of this course, one can find employment in the nodal agencies of the Ministry of Non-conventional Energy Sources, voluntary agencies and other organizations promoting the technology at district, taluka and village levels. Entrepreneurial opportunities would also be available in terms of opening shops for spare parts, servicing and sale of solar devices.

### **Course Duration**

160 hours

### **Scheme of Study**

Theory - 40%, Practical - 60%

### **Entry Qualification**

Class 10<sup>th</sup> Pass/Fail

### **Scheme Of Examination**

Maximum Weightage in Theory - 30% Time - 2 hours.

Maximum Weightage in Practical - 70% Time - 3 hours. Passing Marks - 40% to in aggregate in Public Examination of Secondary level or Grade 'E' as for independent vocational course or Grade 'G' when combined with academic stream.

### **Trainer Details**

Trainer Qualification:

Trainer Certification:

Passing Marks - \_\_\_% to in aggregate

### **Course Content**

1. Domestic Solar Water Heaters, Installation, testing and maintenance.
2. Solar Photovoltaic Cells, Types of solar photovoltaic panels ,
3. Basics of Lead-Acid Batteries, Maintenance of Battery, Cleanliness, Adding distilled water, Discharge limits, Specific gravity, Full charge specific gravity, Trouble shooting, Discharge limits of Lead-Acid batteries.
4. typical solar Photovoltaic lighting system, Solar Array, Battery Bank, Electronic Controller, Solar photovoltaic street lighting system
5. Solar home lighting system components- working etc
6. Rooftop stand-alone solar PV system,
7. Introduction: Solar photovoltaic pumping system, SPV modules, Water pump. MPPT

**Internship/Work experience during the course :**

1. Name of the agency: Nature Conservation Society, Amravati

Contact details/Address: "Pratishtha", Bharat Nagar, Akoli Road, Sainagar, Amravati 444605

Candidate uptake: A batch of 35 students

Remuneration to the candidate: Nil

2. Name of the agency: Prof. Ram Meghe Institute of Technology and Research, BAdnera- Amravati

Contact details/Address: Anjangav Bari Road, Badnera- Amravati -444701

**Budget\*\*****Training cost for the batch of 35 students:**

Sr. No.	Account Head	Sub-Head	Budget per batch (RS)	Remarks on exclusive deployment for TRTI or others
1.	Promotional work and mobilization	Press notes, brochures and advertisement Awareness camps Meetings for selection	75000/-	Those who have implemented other project, sample copies be sent
2.	Conduct of training	Domain / technical training Soft/ entrepreneurship training	Rs. 224000/- (Rs. 40 per hr/ student)	Copy of course material for technical & soft/IT/entrepreneurship be attached List of industries/ places for exposure /field visit
		Courseware and stationery	Rs. 25000/-	
		Field /exposure visit etc.	Rs. 25000/-	
3.	Post training support	Conduct of campus interviews/industry meets  Job melas with Govt. entities Follow up/handholding for entrepreneurship support (Bank/DIC	Rs 50000/-	List of corporate entities List of manpower supporting entrepreneurship, self-employment among trainees

		etc.)		
4.	Institutional/Overhead cost	Manpower cost for office management, mobilizers, placement etc. Utility bills Rent, taxes etc.	Rs. 26000/- (7.5% of total cost)	
5.	Total		<b>350000/-</b>	

**\*\*please refer to documents IIT-CTARA 28.2.19.docx and TP-Budget 16.2.19.docx attached to this mail**

**Note:** 1. Expenditures are estimated based on the assumption that the program is non residential and onsite. The costing shall change for residential and/ off site programs.  
2. Whether to provide food (Tea, breakfast and day meal) and the stipend to the trainees is a policy decision and is subjected to approval from steering committee (IITB).

#### **Measurement of effectiveness of the training**

It shall be evaluated based on following measures

- 1) Formation of Rubrics for pre & post evaluation of training
- 2) Keeping track record of trainees for 3 years
- 3) Keeping track with employer/customers about trainees performance
- 4) Pre & Post training economic analysis & keeping record
- 5) Identifying any advance training needed
- 6) Behavioral changes

#### **Post training monitoring/support:**

(industry tie-ups, in-house opportunities etc)

On successful completion of internship and exam, trainees shall be given opportunity to showcase their skills to potential recruiters through a systematically organised campus recruitment process. The companies/ organizations dealing with solar photovoltaic and solar thermal systems as well as NGOs working in the field of renewable energy shall be invited for the process

## **Course Details:**

### **Title of the course : Traditional Hand embroidery**

#### **Introduction**

Embroidery is a way of adding to the beauty of a garment with the help of a needle and thread. India is known for hand embroidery. Different regions offer different types of embroidery such as Crewel/Aari in Kashmir. Kashmir also offers Sozni /Sozankar embroidery which is done on shawls.

The Chamba Rumal embroidery is based on religious themes-floral motifs, birds and animals. Phulkari in Punjab,done on odhnis comprises of geometric patterns . Zardozi of Uttar Pradesh claims a rich past with real silver and gold threads being used for carrying out embroidery.

#### **Objectives**

1. Recognize various embroidery tools and equipment (needles, threads etc.)
2. Attain knowledge of various fabrics and accessories used in Hand Embroidery.
3. Know techniques and carry out and application of basic stitches
4. Analyse material for quality.
5. Understand design instructions and specifications and trace design on fabric/material, if required.
6. Carry out various flat stitches like back stitch, stem stitch, Kashmiri stitch etc.
7. Carry out various loop stitches like chain stitch, button hole stitch, fishbone stitch etc.
8. Carry out various knotted stitches like French knot, double knot, bullion knot stitch etc.

#### **Job Opportunities**

Khadi Village Industries commission (KVIC) is promoting hand embroidery courses in India. According to them traditional work like hand embroidery has great opportunity in Garment Export. Further they think that rural women's, Bachat gat can play a significant role in it. It may provide direct or indirect employment. The most important feature of this program is that women need to go any work place & they can do it from their home place.

#### **Course Duration**

300 hours

#### **Scheme of Study**

Theory - 30%, Practical - 70%

#### **Entry Qualification**

Class 4<sup>th</sup> Pass

#### **Scheme of Examination**

Maximum Weightage in Theory - 30% Time - 2 hours.

Maximum Weightage in Practical - 70% Time - 3 hours. Passing Marks - 40% to in aggregate

### Course Content

1)- Preparation for Embroidery

2) - Carrying out Different types of Stitches - Flat Stitches

Carry out different flat stitches like Running stitch, stem stitch, Kashmiri Stitch, cross stitch etc.

3) - Carrying out Different types of Stitches - Loop Stitches

Chain stitch , Button-hole stitch , Blanket Stitch , Fishbone stitch, Feather Stitch , Fly Stitch

4) - Carrying out Different types of Stitches - Knotted Stitches

5) Crewel embroidery of Kashmir

6) Sozni embroidery of Kashmir

7) Chamba Rumal of Himachal Pradesh

8) Phulkari of Punjab

9) soft skill

10 business skill

### Internship/Work experience during the course :

1. Name of the agency: Megha Arts, Shrikrishna Peth, Amravati

Candidate uptake: A batch of 35 students

Remuneration to the candidate: Nil

2. Name of the agency: Prof. Ram Meghe Institute of Technology and Research, BADnera- Amravati

Contact details/Address: Anjangav Bari Road, Badnera- Amravati -444701

### Budget\*\*

#### Training cost for the batch of 35 students:

Sr. No.	Account Head	Sub-Head	Budget per batch (RS)	Remarks on exclusive deployment for TRTI or others
1.	Promotional work and mobilization	Press notes, brochures and advertisement Awareness camps Meetings for selection	75000/-	Those who have implemented other project, sample copies be sent
2.	Conduct of training	Domain / technical training Soft/ entrepreneurship training	Rs. 420000/- (Rs. 40 per hr/ student)	Copy of course material for technical & soft/IT/entrepreneurship be attached List of industries/ places

		Courseware and stationery	Rs. 50000/-	for exposure /field visit
		Field /exposure visit etc.	Rs. 50000/-	
3.	Post training support	Conduct of campus interviews/industry meets  Job melas with Govt. entities Follow up/handholding for entrepreneurship support (Bank/DIC etc.)	Rs 128000/-	List of corporate entities List of manpower supporting entrepreneurship, self-employment among trainees
4.	Institutional/Overhead cost	Manpower cost for office management, mobilizers, placement etc. Utility bills Rent, taxes etc.	Rs. 52000/- (7.5% of total cost)	
5.	Total		<b>7000000/-</b>	

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#### **Post training monitoring/support:**

(industry tie-ups, in-house opportunities etc)

On successful completion of internship and exam, trainees shall be given opportunity to showcase their skills to potential recruiters through a systematically organized campus recruitment process. The companies/ organizations dealing with hand embroidery items

and traders as well as NGOs working in the field of garment making shall be invited for the process