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NATIONAL CONFERENCE

INCLUSIVE CLEAN ENERGY SOLUTIONS IN ADB OPERATIONS

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Case Studies

The presentation showcases Hand in Hand India's work in

- Improving productivity of businesses by upgrading operations through the use of machines
- Reducing drudgery for women
- Follow-up on business expansion
- Improving self-confidence and fostering gender equity
- Supporting women's empowerment and enhancing social status of women in family and community



Creating Energy Based Enterprises in partnership with ADB

Project Title: Enhancing Energy-based Livelihoods of Women Micro-entrepreneurs

Funder : Asian Development Bank (ADB)

Duration: 2013-2015

Location: Madhya Pradesh (Bhopal, Indore and Jabalpur)

Project Achievements:

- 17,112 women have been trained in Energy Efficient Usage
- 30,006 SHG members belonging to 2,691 SHGs from Hand in Hand groups, DPIIP and SRLM groups have taken skill-based training in energy-efficient enterprises.
- 68 skill-training sessions have been conducted so far.
- 777 women have upgraded their enterprises from being run manually to energy based.

The Common Enterprises where power/technology has been leveraged are:

- CFL Assembly; Paper cups and bowls manufacturing;
- Motorized Flour milling; Pottery; Retail Trade;
- Refrigerator for chilling cold drinks and frozen vegetables and used in Retail Shops;
- Bangle making; LED bulb series



IMPACT OF THE PROJECT

- ❖ Women's empowerment through engagement in income generation activities that are energy based
- ❖ Reduced drudgery
- ❖ Saving time so women can spend time for recreation and improve productivity
- ❖ Time saved for children to support them in education
- ❖ Improved confidence and mobility
- ❖ Enhanced income
- ❖ Financial literacy on electricity consumption and payment



BREAKING GENDER BARRIERS – CFL BULB MAKING

Soldering wires, connecting electric circuits and making bulbs have always been considered as men's tasks. However, many women of Madhya Pradesh have defied this belief when they started their own enterprise in assembling compact fluorescent light bulbs (CFL).

Lakshmi Rani is a **34-year-old woman**, who lives with her family in Magdupura village of Chhindwara district in the Jabalpur region.

As a part of Santosh Mata SHG, Lakshmi attended the Integrated Enterprise Development workshop conducted by the HiH-ADB project staff. She took a loan from the Village Development Committee for the raw materials and began her work.

She started by selling 50 pieces for INR 4,000 and have recently received an order of 200 pieces from a provision store owner in their village.

Continues business along with her husband



Microenterprise Upgradation

- **Name of the Village:** Thalwada- Narshingpur, **SHG Name:** Radhakrishna Group, **Name of Women Entrepreneur:** Shanti Bai, **Enterprise Started:** Paper Cup Making
- **Problem:** Shanti bai has 7 members in the family, Her husband runs a hair cutting saloon and earns moderate income. However, single person's earning has been a big challenge for the family to manage living expenses. Earlier Shantibai used to go to jungle to collect "Palash" leaves for making cups and plates, by selling it to village she use to get grains in return.
- **Study:** Participated in 2 days integrated enterprise module training conducted by Hand in Hand India .
- **Process:** She had a dream to start up something of her own to make livelihood and with skill training she learned making paper plates.
- **Solution:** She purchased raw material worth Rs.3000 from her saving and started making paper cups on the machine which they purchased supported by DPIIP. Now she feels that her dream has become real and happily runs her enterprises by making reasonable sell in the market.



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Power based Enterprise in Madhya Pradesh

Manju Bai, a resilient woman and the head of her household in Aherwas (Patelpura), Living with her handicapped daughter, Manju Bai manages 3 bighas of land and demonstrates a strong determination to improve her circumstances.

Background: With only 2 goats and 3 indigenous chickens, Manju Bai relied on weather-based crop rotation practices to sustain her livelihood. Prior to partnering with Hand in Hand India, her income was Rs 100 per day,.

Outcome: Manju Bai was provided with a buffalo by Hand in Hand India. Leveraging this opportunity, she began **producing ghee using electrical equipment** and selling it in the market at Rs 800 per kilogram. Manju Bai sells 10 kilograms of ghee, generating an income of Rs. 300 per day.

Success Story Highlight: Manju Bai's journey exemplifies the power of empowerment and sustainable livelihood initiatives in uplifting individuals and communities. With the support of Hand in Hand India, she has diversified her income streams, increased her financial stability, and unlocked new opportunities for growth..



Empower the Ultra-Poor through Clean Power

Problem

- Ultra-poor families live without electricity and are unable to afford it
- They lack land ownership records and are unable to obtain electricity connections
- Households complete most tasks during the day and use kerosene lamps by night. Usually, no productive work is done in the night
- Children are unable to study at night and education is hampered.

Target Location:

Ultra-Poor Families in Kancheepuram, Chengalpattu, Tiruvallur & Vellore Districts, Tamil Nadu

Solution:

Hand in Hand India installed 75 Watts Solar Panel along with 12.8V LiFe-Po4 Battery, 3 LED Bulbs, a DC Fan and Charging Controller

