



SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट · CAREER SHEET

सोलर पंप तकनीशियन

A solar pump technician installs, runs and repairs solar-powered pumping systems. With lakhs of solar pumps being installed in Rajasthan under PM-KUSUM, demand is very high.



Scan for everything on this career

Salary, exams, colleges, the routes in and the steps after — all on the portal.

career.gsssjethantri.in/#/career/solar-pump-technician

राजकीय उच्च माध्यमिक विद्यालय, जेठन्तरी

Govt. Sr. Sec. School, Jethantri · ब्लॉक समदड़ी · बालोतरा (Block Samdari · Balotra)

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प्रधानाचार्य, रा.उ.मा.वि. जेठन्तरी · मास्टर ट्रेनर
Principal, GSSS Jethantri · Master Trainer



श्री चेनाराम चौधरी

प्रधानाचार्य, डाइट बाड़मेर
Principal, DIET Barmer



श्रीमती संघमित्रा

वरिष्ठ व्याख्याता, डाइट बाड़मेर (सहयोग)
Sr. Lecturer, DIET Barmer (Support)



भरत चौधरी

अभिकल्पना व विकास · व्याख्याता (इतिहास)
Designed & developed · Lecturer (History)

विशेष धन्यवाद · SPECIAL THANKS



सुरेन्द्र सिंह राठौड़

व्याख्याता (इतिहास) · रा.उ.मा.वि. कानाना



सुरेश कुमार सैन

व्याख्याता (भूगोल) · रा.उ.मा.वि. रामसीन मूंगड़ा



वनिता कुमारी

व्याख्याता (इतिहास) · रा.उ.मा.वि. रामसीन मूंगड़ा



कमलेश चौधरी

व्याख्याता (राजनीति विज्ञान) · रा.उ.मा.वि. टापरा

करियर मार्गदर्शन कार्यशाला, डाइट बाड़मेर (14-17 जुलाई 2026) में विकसित व लोकार्पित
Developed & unveiled at the Career Guidance Workshop, DIET Barmer (14-17 July 2026)

यह एक स्वतंत्र परियोजना है, जो सरकार की आधिकारिक करियर-मार्गदर्शन सामग्री पर आधारित है। · An independent project based on the Government's official career-guidance content.

1 About this career

A solar pump technician installs, runs and repairs solar-powered pumping systems. With lakhs of solar pumps being installed in Rajasthan under PM-KUSUM, demand is very high.

2 At a glance

Minimum qualification	Class 8/10 + ITI (Electrical/Mechanical)
Route	Suryamitra/Varunmitra training
Key scheme	PM-KUSUM solar pumps
Starting salary	₹10,000–18,000/month

3 What you need

INTERESTS

- Working with hands and machines
- Problem-solving and organised work
- Interest in electricity and solar tech

ABILITIES

- Working with tools and equipment
- Electrical safety and care
- Sense of shape and space

KEY SKILLS

- Solar panel and pump installation
- Inverter/controller setup
- Battery and safety checks
- Customer/farmer support
- Wiring and connections
- Maintenance and fault repair
- Basic electrical calculations

4 How to get there

- 1 Pass at least Class 8 (Class 10 better)
- 2 Do ITI in Electrical/Mechanical
- 3 Take Suryamitra/Varunmitra skill training
- 4 Or take ASCI's AGR/Q6701 certification
- 5 Gain experience with a solar firm/PM-KUSUM project
- 6 Start your own service business after experience

MAIN EXAMS

- ITI admission (state merit)
- Suryamitra selection (MNRE/NISE)
- ASCI AGR/Q6701 certification

5 Where to study

GOVERNMENT INSTITUTES

- Govt Ramchandra Polytechnic College — Jaipur
- Govt ITI (Bikaner/Churu/Alwar/Sawai Madhopur) — Rajasthan
- University of Rajasthan — Jaipur (<https://www.uniraj.ac.in/>)
- National Institute of Solar Energy (NISE) — Gurugram (<https://nise.res.in/>)

PRIVATE INSTITUTES

- Solar Training Centre — Jaipur & Udaipur

ONLINE

- SWAYAM — Online
- IGNOU — Online/Distance
- VMOU Kota — Kota

FEES

Government programmes like Suryamitra/Varunmitra are very cheap or free; private solar-pump courses cost roughly ₹10,000 to ₹30,000.

SCHOLARSHIPS

- National Scholarship Portal (<https://scholarships.gov.in>)
- Rajasthan SJE Scholarship Portal (<https://sje.rajasthan.gov.in/>)
- Buddy4Study (<https://www.buddy4study.com>)

6 What the work is like

WHERE YOU WORK

Agricultural and rural areas, government projects, private solar companies and industry.

WORK CULTURE

Mostly a field job; local travel; part-time and contract; 6 days, 8-9 hours; overtime and self-employment possible.

WHO HIRES

- | | |
|---|---------------------------------------|
| • Solar EPC and pump companies | • PM-KUSUM empanelled vendors |
| • State energy/agri department projects | • Renewable-energy startups |
| • Irrigation and agri-equipment dealers | • Self-employment (install & service) |

DEMAND (2026)

Under PM-KUSUM, Rajasthan is installing lakhs of solar pumps (thousands of new connections in 2024-25), making demand for installation and maintenance technicians very high.

7 Career growth

- 1 Solar Pump Technician
- 2 Senior Technician/System Designer
- 3 Project Manager
- 4 Trainer/Consultant

EARNINGS

Starting	₹10,000–18,000/माह
Mid level	₹20,000–35,000/माह
Senior level	₹40,000–60,000/माह

Salaries about ₹1-3 lakh per year; running your own install-and-service agency can earn much more.

8 The good parts · The challenges

The good parts

- Green-energy job with less study
- Huge, steady demand from PM-KUSUM
- Scope for self-employment and service income

The challenges

- Hard physical work outdoors in the sun
- Electrical/height risks, needs caution
- Travel to remote villages

9 Real-life journeys

Kamala Devi

Solar engineer, Barefoot College, Tilonia

At Barefoot College in Tilonia (Ajmer), Kamala Devi became its first woman solar engineer in 1997. Despite limited schooling she learned to install and repair solar lamps and pumps, and later headed the solar unit at Kadampura.

Wikipedia · https://en.wikipedia.org/wiki/Barefoot_College

Damodar Singh

Solar-pump farmer (PM-KUSUM), Jamtara

Jamtara's Damodar Singh got a solar pump under PM-KUSUM. His ₹8,000-10,000 monthly diesel bill fell to zero, and he now takes three crops a year and earns about ₹1.5 lakh annually by selling water to neighbouring farmers.

IANIS / Prokerala · <https://www.prokerala.com/news/articles/a1767709.html>

10 Sources & further reading

1. Rajasthan Career Guidance (source) — <https://cg.rajasthan.gov.in/careerguidance/>
2. PM-KUSUM Rajasthan portal — <https://pmkusum.rajasthan.gov.in/>
3. Suryamitra skill programme (NISE) — <https://suryamitra.nise.res.in/>
4. ASCI AGR/Q6701 qualification — <https://asci-india.com>



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