



SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट · CAREER SHEET

खनन इंजीनियर

Mining engineers plan mines, run them safely and manage mineral extraction. The career is specially relevant in mineral-rich Rajasthan (zinc, copper, potash, marble).



Scan for everything on this career

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

career.gsssjethantri.in/#/career/eng-4640

राजकीय उच्च माध्यमिक विद्यालय, जेठन्तरी

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

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सुशील कुमार शर्मा

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

Mining engineers plan mines, run them safely and manage mineral extraction. The career is specially relevant in mineral-rich Rajasthan (zinc, copper, potash, marble).

2 At a glance

Minimum qualification	12th PCM + B.Tech/diploma in mining
Work mode	Field/mine site; shift work
Demand	Good - in critical minerals and Rajasthan's mines
Top earning	Mine manager/agent: Rs 2.5-4 lakh/month

3 What you need

INTERESTS

- Liking travel and outdoor work
- Leading a team
- Interest in machines and earth science

ABILITIES

- Analytical problem solving
- Composure and safety-mindedness in tough conditions
- Good grasp of science and maths

KEY SKILLS

- Mine planning and surveying
- Rock mechanics and geology
- Mining software and GIS
- Drilling and blasting techniques
- Mine safety and ventilation
- Understanding of environment rules

4 How to get there

- 1 Pass 10+2 with Physics, Chemistry, Maths.
- 2 Do B.Tech in mining via JEE Main/Advanced or REAP; polytechnic diploma after Class 10 is also a route.
- 3 Do vacation training/internships in mines.
- 4 Clear DGMS first/second class mine manager certificate exams.
- 5 Use GATE for M.Tech or PSUs like Coal India.

MAIN EXAMS

- JEE Main / JEE Advanced
- REAP (Rajasthan)
- GATE (Mining)
- DGMS certificate exams

5 Where to study

GOVERNMENT INSTITUTES

- MBM University (Mining Engineering) — Jodhpur, Rajasthan (<https://www.mbm.ac.in>)
- CTAE (MPUAT) — Udaipur, Rajasthan
- Rajasthan Technical University (RTU) — Kota, Rajasthan
- IIT (ISM) Dhanbad — Dhanbad, Jharkhand (<https://www.iitism.ac.in>)
- IIT Kharagpur / IIT (BHU) — Kharagpur/Varanasi
- Government polytechnics (Mining diploma) — Rajasthan

PRIVATE INSTITUTES

- AKS University — Satna, Madhya Pradesh
- OP Jindal University — Raigarh, Chhattisgarh

ONLINE

- NPTEL/SWAYAM (Mining Engineering courses) — Online (<https://nptel.ac.in>)

FEES

Diploma about Rs 10,000-50,000; B.Tech about Rs 2-4 lakh in government and Rs 4-8 lakh in private institutes (full course); varies by institute.

SCHOLARSHIPS

- National Scholarship Portal (<https://scholarships.gov.in>)
- AICTE Pragati (girls) / Saksham scholarships (<https://www.aicte-india.org>)

6 What the work is like

WHERE YOU WORK

Coal-metal mines, cement and marble mining, mining consultancies; in Rajasthan the Zawar-Agucha (zinc), Khetri (copper) and Kota-Makrana belts.

WORK CULTURE

6 days a week, 8-10 hours; shifts at underground/opencast sites. Safety rules are strict.

WHO HIRES

- | | |
|--|---|
| • Hindustan Zinc (Udaipur) | • Coal India and subsidiaries |
| • HCL Khetri / NMDC | • RSMM (Rajasthan State Mines and Minerals) |
| • Cement companies (Shree Cement, UltraTech) | • Mines department and DGMS |

DEMAND (2026)

In 2026, critical minerals, potash-lithium exploration and Rajasthan's large mining sector keep demand good; doors have opened for women too.

7 Career growth

- 1 Junior Mining Engineer
- 2 Mine Planning Engineer
- 3 Senior Mining Engineer
- 4 Mine Supervisor/Manager
- 5 Resident Manager/Agent

EARNINGS

Starting	₹30,000-60,000
Mid level	₹80,000-1,50,000
Senior level	₹2,00,000-4,00,000

Monthly pay; allowances extra in PSUs and big private mines. 2026 levels, indicative.

8 The good parts · The challenges

The good parts

- High packages and fast promotion in core sector
- Major employers within Rajasthan
- PSU perks including housing-allowances

The challenges

- May have to live at remote mine sites
- Physically tough and risky environment
- 6-day week and shift duty

9 Real-life journeys

Akanksha Kumari

Coal India's first woman underground mining engineer

From Hazaribagh, Jharkhand, Akanksha studied at Navodaya Vidyalaya and did mining at BIT Sindri; after working in Hindustan Zinc's Balaria mine in Rajasthan, she became Coal India's first woman engineer in an underground mine.

YourStory · <https://yourstory.com/herstory/2021/09/akanksha-becomes-coal-indias-first-woman-engineer>

P. M. Prasad

Former Chairman, Coal India; mining engineer

A mining engineering graduate from Osmania University, P.M. Prasad worked 38 years in mines and rose to become Chairman of Coal India, the world's largest coal company.

PSU Watch · <https://psuwatch.com/psu-appointments/pm-prasad-assumes-charge-as-cmd-of-coal-india>

Dr. Chandrani Prasad Verma

India's first woman mining engineer; scientist, CSIR-CIMFR

In a field where women were barely allowed in, Chandrani fought up to the courts to complete mining studies and is today a rock mechanics scientist at CSIR-CIMFR.

International Women in Mining · <https://internationalwim.org/interviews/dr-chandrani-prasad-verma/>

10 Sources & further reading

1. Rajasthan Career Guidance: Mining Engineer — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%96%e0%a4%a8%e0%a4%a8-%e0%a4%87%e0%a4%82%e0%a4%9c%e0%a5%80%e0%a4%a8%e0%a4%bf%e0%a4%af%e0%a4%b0-mining-engineer/>
2. IIT (ISM) Dhanbad — <https://www.iitism.ac.in>
3. AICTE — <https://www.aicte-india.org>
4. NPTEL (free online courses) — <https://nptel.ac.in>
5. National Career Service (NCS) — <https://www.ncs.gov.in>

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Interest and aptitude tests, government jobs, skill courses and a CV builder — free, no login, and it works offline.

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