



SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

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करियर शीट · CAREER SHEET

इलेक्ट्रिकल इंजीनियरों की भारतीय रेलवे सेवा

IRSEE officers run Indian Railways' electrical organisation - traction electrification, OHE, electric locomotives, train lighting and energy management. This Group-A gazetted post is filled through UPSC ESE (IES) and is now the...



Scan for everything on this career

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

career.gsssjethantri.in/#/career/indian-railway-service-of-electrical-engineers

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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

IRSEE officers run Indian Railways' electrical organisation - traction electrification, OHE, electric locomotives, train lighting and energy management. This Group-A gazetted post is filled through UPSC ESE (IES) and is now the electrical cadre of IRMS.

2 At a glance

Service class	Group-A gazetted officer
Selection exam	UPSC ESE (IES)
Minimum qualification	B.E./B.Tech (Electrical)
Training institute	IRIEEN, Nashik

3 What you need

INTERESTS

- Science and electricity
- Leadership and systems management
- Mathematics and physics

ABILITIES

- Technical and analytical thinking
- Ability to lead a team
- Strong mathematical ability

KEY SKILLS

- Traction and OHE systems
- Electric loco and EMU maintenance
- Energy management and project planning
- Leadership and coordination
- Power systems and distribution
- Power electronics and control
- Problem-solving and safety analysis

4 How to get there

- 1 Pass 10+2 with Physics, Chemistry, Maths.
- 2 Complete a B.E./B.Tech in Electrical Engineering.
- 3 Clear UPSC ESE (IES) - Prelims, Mains and Interview.
- 4 Get appointed as an IRMS (Electrical) Group-A officer.
- 5 Undergo training at IRIEEN, Nashik and NAIR, Vadodara.

MAIN EXAMS

- UPSC Engineering Services Examination (ESE/IES)
- GATE (optional - for PSUs / M.Tech)

5 Where to study

GOVERNMENT INSTITUTES

- IIT Madras — Chennai, Tamil Nadu (<https://www.iitm.ac.in>)
- IIT Delhi — New Delhi
- IIT Jodhpur — Jodhpur, Rajasthan
- MNIT Jaipur — Jaipur, Rajasthan (<https://mnit.ac.in>)
- CTAE Udaipur — Udaipur, Rajasthan

PRIVATE INSTITUTES

- BITS Pilani — Pilani, Rajasthan
- Manipal University Jaipur — Jaipur, Rajasthan
- VIT Vellore — Vellore, Tamil Nadu
- BIT Mesra — Ranchi, Jharkhand

ONLINE

- NPTEL - Power Electronics — Online (<https://onlinecourses.nptel.ac.in>)
- NPTEL - Power Management / Electric Drives — Online (<https://onlinecourses.nptel.ac.in>)
- स्वयं (SWAYAM) — भारत सरकार के निःशुल्क ऑनलाइन कोर्स — Free (<https://swayam.gov.in/>)
- राष्ट्रीय डिजिटल पुस्तकालय (NDLI) — Free books and study material (<https://ndl.iitkgp.ac.in/>)
- एन.सी.ई.आर.टी. — निःशुल्क पाठ्यपुस्तकें — The foundation for general knowledge, maths and science (<https://ncert.nic.in/>)

FEES

B.E./B.Tech engineering fees roughly Rs 68,000 - 2,00,000 (varies by institute). Post-ESE training is free and paid.

SCHOLARSHIPS

- National Scholarship Portal (NSP) (<https://scholarships.gov.in>)
- Buddy4Study (<https://www.buddy4study.com>)
- Rajasthan SJE Scholarships (<https://sje.rajasthan.gov.in>)
- Vidya Lakshmi Education Loan (<https://www.vidyalakshmi.co.in>)

6 What the work is like

WHERE YOU WORK

Indian Railways zones, traction sub-stations, electric loco sheds, EMU car sheds and OHE areas.

WORK CULTURE

Mix of office and field work; leading large teams; local travel; 5-6 days a week, 8-9 hours. Opportunities available for persons with disabilities.

WHO HIRES

- | | |
|---------------------------------------|---|
| • Indian Railways (17 zones) | • CORE - Central Org. for Railway Electrification |
| • Rail Vikas Nigam Ltd (RVNL) | • DFCCIL |
| • Metro Rail corporations (DMRC etc.) | • RITES / IRCON |

DEMAND (2026)

Fast-growing demand - the 100% electrification target, green energy and traction expansion are increasing the need for electrical engineers. One thing to be clear about — the "demand" described above counts posts, not your chance of getting one. Selection is by open competition and the number of applicants runs to many times the number of posts, so most candidates are not selected in any given recruitment. That is not an argument against this career; it is an argument against making it your only plan. Keep studying or building a skill alongside your preparation, so that the year is not lost whichever way the result goes.

7 Career growth

- 1 Assistant Electrical Engineer

- 2 Divisional Electrical Engineer
- 3 Senior Divisional Electrical Engineer
- 4 Deputy Chief Electrical Engineer
- 5 Chief Electrical Engineer
- 6 General Manager
- 7 Member (Traction/Electrical), Railway Board

EARNINGS

Starting	₹56,100 (मूल, लेवल-10)
Mid level	₹1,31,100 – ₹1,51,100 (लेवल 12-13)
Senior level	₹2,25,000 (शीर्ष/अपेक्स)

The starting figure is BASIC PAY — the entry basic at pay matrix Level 10 — so that it can be compared directly against other careers. Dearness allowance (60% of basic since 1 January 2026) and house rent allowance are added on top of it, so take-home pay is appreciably higher. The mid-level and senior figures are approximate monthly income including allowances, not basic pay. Starts at Group-A Level 10 (7th CPC); DA, HRA, housing and medical benefits additional. The figures above rest on the 7th Central Pay Commission matrix, which is what applies as of 16 August 2026. The Union Cabinet approved the Terms of Reference of the 8th Central Pay Commission on 28 October 2025, and it must report within 18 months of its constitution. It has not reported yet, so no revised pay scale exists — but these figures will change. Dearness allowance has been 60% of basic pay since 1 January 2026.

8 The good parts · The challenges**The good parts**

- Job security, prestige and Group-A status
- Role in building a green, electrified railway
- Good pay, housing and railway perks

The challenges

- Frequent transfers and field postings
- Safety responsibility of high-voltage work
- Shift and emergency duties

9 Real-life journeys

Atul Kumar Singh

ESE 2023 All-India Rank 1 (Electrical)

Atul Kumar Singh secured All-India Rank 1 in Electrical Engineering in ESE 2023 and progressed towards the electrical engineering service.

MADE EASY · <https://www.youtube.com/watch?v=-GWUcqCIzsw>

Manju Gupta

First woman IRSEE officer; Divisional Railway Manager, Bikaner Division

Manju Gupta became the first woman to join the Indian Railway Service of Electrical Engineers (IRSEE) and went on to serve as Divisional Railway Manager of the Bikaner Division; following her lead, 14 more women entered the service.

Metro Rail Today · <https://metrorailtoday.com/news/meet-top-10-trailblazing-indian-women-leaders-in-rail-and-metro-sectors>

10 If this route does not work out

One exam or one attempt does not close the door. The same subjects also open these routes — entry is usually easier, and you can return to this field later.

- Indian Railway Service of Engineers
- Indian Railway Service of Signal Engineers
- Indian Railway Service of Mechanical Engineers

11 Sources & further reading

1. Rajasthan Career Guidance Portal — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%87%e0%a4%b2%e0%a5%87%e0%a4%95%e0%a5%8d%e0%a4%9f%e0%a5%8d%e0%a4%b0%e0%a4%bf%e0%a4%95%e0%a4%b2-%e0%a4%87%e0%a4%82%e0%a4%9c%e0%a5%80%e0%a4%a8%e0%a4%bf%e0%a4%af%e0%a4%b0%e0%a5%8b%e0%a4%82-%e0%a4%95/>
2. Wikipedia: IRSEE — https://en.wikipedia.org/wiki/Indian_Railway_Service_of_Electrical_Engineers

3. UPSC Engineering Services Examination — <https://upsc.gov.in>
4. IRIEEN, Nashik — https://en.wikipedia.org/wiki/Indian_Railway_Institute_of_Electrical_Engineering
5. Indian Railway Management Service (IRMS) — https://en.wikipedia.org/wiki/Indian_Railway_Management_Service
6. 8th Central Pay Commission — Cabinet approval of the Terms of Reference (PIB, 28 October 2025) — <https://www.pib.gov.in/PressReleasePage.aspx?PRID=2183289>

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