

NORTHERN RAILWAY
(LUCKNOW DIVISION)

No. 752E/2-6/JE/Elect./Gen./PQ/25

Dt. 14.08.2025

NOTIFICATION NO. 01/JE/Elect.(Gen)/2025/Lucknow

SELECTION FOR PROMOTION TO THE POST OF JUNIOR ENGINEER/ELECT./GEN. IN PAY LEVEL - 06 AGAINST 25 % PROMOTE QUOTA IN ELECT./GEN. DEPARTMENT OF LUCKNOW DIVISION.

1. It has been decided to hold a selection for filling up 09 vacancies for the post of JE/Elect./Gen., Pay Level-06 against 25% Promote Quota in Elect./Gen. Department of Lucknow Division. Bifurcation of vacancies is as under:

UR	SC	ST	Total	PwBD (in terms of Railway board's letter no. E(NG)II/2017/RC-2/1 Policy dt. 27.02.2019)
07	02	Nil	09	01

2. Eligibility and Service conditions:

(i) The list of senior most eligible staff working as **Sr. Tech of Elect./Gen. department of Lucknow division in Pay Level - 06** and who are in the zone of consideration in 1:3 ratio based on their seniority, is enclosed as Annexure-I.

(ii) A stand-by list of next senior employees is also enclosed as Annexure-II. Employees of this stand-by list will be included in the main list enabling them to appear for the written examination only in case of an employee/employees in the main list (Annexure-I) has/have expressed its unconditional unwillingness to appear for the selection on Performa attached (Annexure-III) and forwarded to this office on or before 21/08/2025 along with objection of any employee against the seniority, if any.

3. Syllabus:

A syllabus for the above selection is attached as Annexure-IV. This is a common syllabus for the post as approved by the concerned PHOD and is applicable for all Divisions/Units over Northern Railway.

4. Procedure for written examination:

(i) The written examination will be conducted by Railway Recruitment Cell (RRC), Northern Railway through an Examination Conducting Agency to be provided by Railway Recruitment Board (RRB).

(ii) The written examination will be a Computer Based Test (CBT)/ Tablet Based Test (TBT) where there will be no physical question paper. All the questions will appear on the computer/ tablet and the employee will have to mark their responses/ answers to the questions on computer/tablet.

(iii) RRC/NR will be issuing a formal admit card online (through the website <https://rrenr.org>) to each and every eligible and willing employee for appearing in the CBT/TBT. Examination Venue and time of

14.08.25

(104421/14/8)

reporting for the written examination will be there in the admit card. As no physical communication will be made after issue of this vacancy notice, it will be the responsibility of the concerned employees to regularly visit RRC/NR's website as well as this Division's website for an update and to download the admit card as and when made available by RRC. Further, no supplementary/absentee examination shall be conducted on this ground.

(iv) A link will also be made available on the above website (<https://rrcnr.org>) to the employees, explaining as to how the question will be appearing and how to mark the responses/ answers in the actual examination. Employees can practice through that link any number of times.

(v) Both physical and biometric attendance will be marked at the examination venue.

(vi) 100% questions will be objective type multiple choice questions.

(vii) There will not be any negative marking.

(viii) There shall be questions in Official Language Policy and Rules upto 10% of marks. However, it is not mandatory to attend the same.

(ix) There will be 110 questions of objective multiple choice type with four answer options and the candidate has to answer a maximum of 100 questions. In case the candidate answers more than 100 questions, first 100 attempted questions are to be taken for evaluation.

(x) The written examination will be of 02 (two) hours duration.

(xi) There will be computerized evaluation.

5. Notifying to the employees:

The Senior Subordinate/ Supervisor concerned has to furnish a certificate that "the eligible employees have been duly notified of the holding of the written examination and been asked to submit their applications duly giving their willingness. They have also informed about availability of any further information on RRC/NR's website (<https://rrcnr.org>) regarding availability of admit card and link for demo test." Such certificates should be forwarded to Personnel Branch addressed to **Sr. DPO**. It will be the personal responsibility of the Senior Subordinate/Supervisor to complete the formality in this respect. It is further advised that any other communication received in respect to the selection should invariably be intimated to all the eligible employees. In case of non-receipt of any communication the same may be obtained from the Personnel Department or from the Controlling Officer. Any laxity in this regard will be viewed seriously as it will adversely impact the above selection which is being conducted simultaneously for all Divisions/Units over Northern Railway. The unwillingness, if any, received from the employees is to be forwarded to Personnel branch addressed to **Sr. DPO** on or before 21/08/2025.

6. Tentative schedule for holding the selection:

Activity Number	Details of activity	Tentative date
Part- A		
1	Issue of notification along with main and stand-by eligibility list	14.08.2025

14.08.25

(14/8/25)

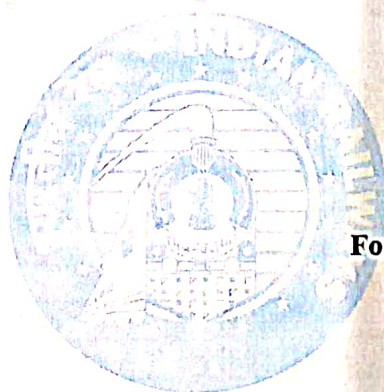
2	Submission of certificate by concerned department along with list of unwilling employees	24.08.2025
3	Conducting pre-examination training	18.09.2025
Part-B		
4	Online issue of admit card & providing link for practice	E
5	Conduct of written examination	E+3
6	Uploading of model answer key and activating objection tracker	E+4
7	Objection tracker will be available upto	E+11
8	Uploading of final answer key	E+14
9	Availability of result of written examination from RRC/NR to the intending units	E+16
10	Finalizing proceedings of Selection Board/Committee at Divisional/Unit level	E+19
11	Issue of panel	E+20

7. Websites to be visited regularly for any update:

RRC/NR's website: <https://rrcnr.org>

Division's/NR's website

DA: as above



(12442/14/8/2025)
(Ram Pravesh Yadav)

Asst. Personnel Officer

For Divisional Railway Manager (P)

LKO/NR

14.08.25

Circulation:

As per standard list

All CS&WLIs/ Lucknow Division: To handover a copy of this Notification to the employees appearing in Annexure-I & II under written acknowledgement

Ch.OS/OS, Confidential Cell, Lucknow Division

Divisional Secretary/ NRMU, URMU, SCSTREA & OBCREA

Control Office, Lucknow Division

RRC/NR's website (<https://rrcnr.org>)

Division's/NR's website

Annexure-III

Divisional Railway Manager (P)
Lucknow, Northern Railway

Sub: Regarding unwillingness to take part in selection process of JE/Elect./Gen. (PQ)
Ref: Your office letter no. 752E/2-6/JE/Elect./Gen./PQ/25, dated 04.08.2025

I, Shri/Smt. son of/ daughter of Shri
....., Designation:, Unit/station:, PF No.
....., am not willing to appear in the selection process of JE/Elect./Gen. against
25% Promote Quota vacancies.

This is my final decision and I will not make any claim in the future regarding my
candidature/eligibility for the above said selection.

Date:

(Signature of the applicant)

Name:

HRMS ID:

Mobile No:

(Stamp and Signature of Unit/Station Incharge)

SYLLABUS FOR THE SELECTION IN THE CATEGORY OF JE (ELECT.)

I. GENERAL POWER SUPPLY:

- a. **BASIC ELECTRICAL UNITS:** Definitions and their relations, Volts, Amperes, Ohm, Capacitance, Impedance, Resistance, Series & Parallel connections.
- b. **ELECTRICAL MEASURING INSTRUMENTS & MEASUREMENTS:** Types of Electrical measuring Instruments and their applications, AC, DC instruments, their connections, arrangements, types, latest instruments.
- c. **ELECTRICAL MACHINES:** Various types of Motor viz. single phase and three phase induction motors, Generators/Alternators, their constructions, various parts, their functions and connections. Starters for motors, application of various types of motors.
- d. **TRANSFORMERS:** Power transformers, distribution transformers, Parallel operation of 3 phase transformers, Current transformers, Voltage Transformers, Transformation ratio functions, simple calculations, capacity rating, current voltage ratios.
- e. **CABLES:** Types, Grades construction, usage, rating, capacity, methods of laying underground and overhead cables, Fault detection, Methods of laying cables across Railway tracks, testing and commissioning.
- f. **WIRING:** Types and various accessories, testing types and various accessories, Quarter wiring/ Stair case wiring, commissioning, grades & capacity of wires used and safety equipment. Types, mechanism and proper rating of MCB, MCCB, RCCB, RCBO.
- g. **TRANSMISSION OF ELECTRICAL ENERGY:** Knowledge of 33 KV and 11 KV overhead and underground cables.
- h. **INSULATION MATERIALS:** Knowledge of various insulation methods, grades, insulation, types, compounds, break down values and units of measurements.
- i. **LIGHTING FITTINGS:** Various types of lights in stations, yards and other railways installations. High masts and their parts, various Lighting poles.
- j. **TOOLS & PLANT:** Knowledge of various tools used for electrical works and measuring testing instruments and knowledge of their use.
- k. **CONTROL SWITCHGEAR:** Knowledge of various control equipment, their purpose. grade, rating, capacity, various types of switches for LT & HT circuit.
- l. **SUB-STATION and EARTHING:** Layout of 33 KV, 11 KV substations. Protective equipment and maintenance schedule. Record keeping, procedures for arranging permit to work etc. Basics of earthing, Types of earthing, earthing values of various installations. Metering, Billing and Tariffs.
- m. **SAFETY PRECAUTIONS AND FIRST AID:** Precautions to be taken while working in electrical installations. Action to be taken in case of accidents viz. CPR, first aid. Firefighting and use of fire extinguishers in case of electrical fires.
- n. **PUMPS:** Types of pumps used in railway installations, their construction, names of various parts. efficiency rating. capacity. suction. delivery head. erection. testing

& commissioning. Pressure gauges, control valves, strainer foot valve, precautions for starting, safety equipment & protection arrangement, trouble shooting and remedies.

- o. **AIR CONDITIONING & REFRIGERATION:** Basics of air conditioning viz. temperature, humidity, dehumidification, dry and wet bulb temperatures. Basic knowledge and types of AC's and water coolers used in Indian railways. Types of refrigerants, Type of compressors. Basic of refrigerator cycle. Operations and maintenance of various AC/refrigeration equipment. Trouble shooting and their remedies.
- p. **BATTERIES:** Type of batteries, construction, knowledge of charging and discharging their maintenance, checking of Specific gravity, Precautions to be taken while maintenance.
- q. **ENERGY CONSERVATION:** Various energy conservation measures adopted in Indian railways viz. Power factor improvement, Energy Efficient fittings, Solar energy harness, fuel consumption on DG Set, BEE star rating appliances, ECBC codes.
- r. **LIFTS AND ESCALATORS:** Basics of Lifts and escalators and their parts, safety provision and basic troubleshooting in lifts and escalators. Maintenance schedule of lifts and escalators.
- s. **DG Sets:** Basics of DG sets, Latest CPCB norms of DG sets, Basic operation and maintenance of DG sets.
- t. **SOLAR PANELS:** Basic principle of Energy conversion from solar panels, Types of solar panels. Main parts of Solar plant, Basics of On-grid and Off grid solar plants. Net metering of solar plants.

2. TRAIN LIGHTING AND AIR CONDITIONING: Types of Coaches used in Indian railways. Systems of Train Lighting and Air conditioning in coaches, Self-Generating Coaches, ICF TL/AC Coach Generation system. Equipment, circuits and protection in ICF TL/AC coaches. Emergency feed extension in coaches. EOG and HOG systems in coaches - Hotel Load converter and Interlocking panel. Equipment, power circuits and protection systems in LHB TL/AC coaches, Power car and Pantry car. Air Conditioning in ICF/LHB coaches. Maintenance schedules of ICF and LHB coaches. Duties of ACCI/ACCA. Pre-cooling of AC Coaches. Fire causes and prevention measures in coaches. SMIs, Modification Sheets and Technical circulars issued by RDSO and instructions by Railway Board and RDSO, Schedule and procedure of thermal scanning.

3. MATERIAL MANAGEMENT IN RAILWAYS:

- a) Introduction to material management.
- b) Organizational structure of material management organization of Indian Railways
- c) Functions of material management- Planning and inventory management (Stock items, PL no. & non stock items), procurement, receipt and inspection & handling of rejection etc.
- d) Model SOP, IRS-condition of contract, Store Depot working, stock verification & audit, Scrap disposal.
- e) Non stock procurement under works programme, RSP, M&P, E-procurement, IREPS, GEM procurement etc.

4. CONTRACT MANAGEMENT & FINANCIAL MANAGEMENT:

- a) **Contract management**
 - Tenders & Contracts

- Vigilance

d) Financial Management

- Railway accounting and financial procedures
- Primary units, various demands
- Works programme, M&P and PS programme
- Stages of budgeting (Revised and Budget estimates, Review, Final Modification)
- Roles of JE & SSE in Tenders & Contracts

5. GENERAL & ESTABLISHMENT KNOWLEDGE:

- D&AR Rules: Various definitions, the applicability, suspension and issue of minor penalty charge sheet, appeals
- HOER Categories, Industrial relations and roles of trade unions.
- Various types of leaves which can be granted to staff.
- Railway Service Conduct Rules.
- General knowledge about working in various other departments in Railways
- Knowledge about Pass, PTO, Travel on duty, increment, Promotion of artisans, Quarters, Staff welfare, Allowances etc.
- Basics of RTI and Disabilities Acts and our obligations & responsibilities.
- Establishment powers of JE & SSE in open line.

6. COMPUTER FUNDAMENTALS:

- Basics of hardware and software, Semiconductors, Gates, Diodes.
- Operating systems basics
- Internet, E-mails, MS-office and useful apps.

8. राजभाषा

- राजभाषा- संवैधानिक प्रावधान,
- राजभाषा अधिनियम 1963 (यथा संशोधित 1976),
- संविधान की आठवीं अनुसूची में शामिल भाषाएँ,
- राजभाषा कार्यान्वयन समिति,
- राजभाषा प्रोत्साहन / पुरस्कार योजनाएँ,
- हिंदी प्रशिक्षण

9. General Knowledge, Reasoning, Aptitude.