



No. 940-E/2/Elect-G/Sel/JE/PQ/UMB/P3/Pt-II
Dt. : 05.08.2025

Divisional Office,
Ambala Cantt.

SSE/P/Colony/JUDW
SSE/Power/SIR, RV/UMB, UMB,BTI,CDG,RPJ
SSE/OE&P/UMB, SSE/Control/Elect-G/UMB
SSE/TL-AC/CDG, BTI, UMB, SRE,KLK
SSE/TL/UMB, SSE/AC/UMB

Sub:- Selection for promotion to the post of Junior Engineer/Elect-G in Level-06 (GP 4200) against 25% Promote Quota in Electrical General Department of Ambala Division.

Ref: GM(P)/NR letter No. E-387/129/CBT/S-Cell/P dated 29.07.2025.

It has been decided to hold a selection for filling up **04 (UR-04, SC-NII & ST- NII)**, vacancies for the post of Junior Engineer/Elect-G, Level-06 (GP 4200) against 25% Promote Quota in Electrical General Department of Ambala Division. Out of 04 vacancies, 01 vacancy is reserved for PwBD is defined as under in terms of Railway Board Letter No. E(NG)II/2017/RC-2/1Policy dated 27.02.2019.

Bifurcation of Vacancy				
UR	SC	ST	Total	PwBD
04	00	00	04	01 (LV D,HH OL,LC,DW,AAV)

1. Eligibility and Service conditions of staff:-

The list of senior most eligible staff working as Sr. Technicians of Elect-G of UMB Division in Level-06 in Pay Matrix of 7th CPC and who are in the zone of consideration in 1:3 ratio based on their seniority is enclosed as **Annexure-I**.

Any employees express their unconditional unwillingness to appear for the selection on Performa attached herewith and forward to this office on or before 21.08.2025 along with objection of any employee against the seniority.

- 1.1** A stand by list of employees for selection is enclosed as **Annexure-II**. It is advised to these employees that they will be included in the main list enabling them to appear for the written examination only in the case of any employees in the main list of **Annexure-I** submit unwilling. Staff on sick/Leave should also be intimated to their sick/leave address and obtain their acknowledgement.

In terms of Railway Board's Ir. No. E(NG)I/2000/PM1/41, dated 20.08.2003, the positive act of selection to assess the professional ability of the candidate shall consist of written test only. The candidate has to obtain a minimum of 60% marks in professional ability, i.e. in written examination, for being considered for further selection process of perusal of service record. The post of Junior Engineer being classified as "Safety Category post" there is no relaxation in qualifying marks to employees belonging to the category of SC/ST and hence they are also required to secure 60% marks in the written examination.

- 1.2** **Syllabus:-** Syllabus for selection of the post JE/Elect-G in Level-06 against 25% promotional quota is enclosed as **Annexure- III**.

2 Procedure for written examination:-

- 2.1** Procedure for 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).
- 2.2** The written examination will be a Computer Based Test(CBT)/Tablet Based Test (TBT) where there will be no physical question paper. All the question will be appear on the computer/tablet and the employee will have to mark their responses/answers to the questions on computer tablet.
- 2.3** RRC/NR will be issuing a formal admit card online (through the website <https://rrcnr.org>) to each and every eligible and willing employee for appearing in examination will be there in the admit card. As no physical communication will be made after issued 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 as and when made available by RRC. Further, no supplementary absentee examination shall be conducted on this ground.
- 2.4** 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/answer in the actual examination. Employees can practice through that link any number of times.
- 2.5** Both physical and biometric attendance will be marked at the examination venue.
- 2.6** 100% questions will be objective type multiple choice questions.

(Cont. Page-02)

[Signature]
05/8/25

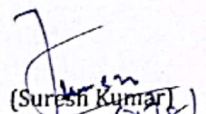
- 2.7 There will not be any negative marking.
- 2.8 There shall be questions in Official Language Policy and Rules upto 10% of marks. However, it is not mandatory to attend the same.
- 2.9 There will be 110 questions of objective multiple choice type with four answer options and the candidate has to 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.
- 2.10 The written examination will be of 02 (two) hours duration.
- 2.11 There will be computerized evaluation.

3 Notifying to staff:-

- The Senior Subordinate/Supervisor concerned, has to furnish a certificate that "the eligible candidates were duly notified of the holding of the written examination and asked to submit their application applications duly giving their willingness. They have also been informed about availability of any further information on RRC/NRR'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/UMB. 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 of 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 Division/Units over Northern Railway. The unwillingness, if any, received from the employees is to be forwarded to Sr.DPO/UMB on or before 21.08.2025.
- 3.2 The Sr. Subordinate in charge will inform to staff of present working in case they have been transferred from the station. The Sr. Subordinate in Charge will inform to the staff of the station present working, which has been shown in the attached list.
- 3.3 The date, venue and time of examination will be uploaded on the website of Personnel Branch, UMB Division. The staff listed in Annexure-1 must regularly check the website for updates regarding the same and it will be the responsibility of the candidate to regularly check the website.

Encl:- As above

- I. Annexure -I(Main List)
- II. Annexure-II (Standby List).
- III. Annexure-III - Syllabus
- IV. Annexure-IV - Willingness and Unwillingness to appear for selection.


(Suresh Kumar)
For Sr. Divisional Personnel Officer
N. Rly Ambala Cantt.

Copy to :-

1. Sr.DEE/G/UMB. It is requested to kindly arrange to make available D&AR/SPE/Vig. Clearance in favour of the employees listed in Annexure-I.
2. DS/NRMU, URMU/UMB Division
3. DS/AIOREA, AISC/ST REA/UMB Division
4. SSE/IT/EDP Center: Please upload copy of this letter on the website of Personnel Branch, Ambala Division
5. OS/Confdl. Cell: For information & necessary action.
6. Concerned CS&WLI/ : for information to concerned employee please.

Annexure-I

S.No.	NAME	FATHER NAME	Mode of Appointment	Designation	Community	Station
1	UMA SHANKER SINGH	RAM DEV RAM	CGA	Sr. Tech./SBA	UR	JUDW
2	VIKESH KUMAR	Ram Singh	DR	Sr. Tech./AC	SC	CNL/UMB
3	MAAN SINGH MEENA	HET RAM MEENA	Cultural Quota	Sr.Tech./TL	ST	UMB
4	GURMAIL SINGH	Baldev Singh	CGA	Sr. Tech./AC	SC	UMB
5	JAGAN SINGH MEENA	BAL KISAN MEENA	RRC	Sr.Tech./TL	ST	UMB
6	SAT PAL	PHOOL CHAND	RRB	Sr.Tech./OE&P	SC	UMB
7	SANJEEV KUMAR	ROOP LAL	RRC	Sr.Tech./TL	UR	UMB
8	SAT PARKASH	SHIV KR.	CGA	Sr.Tech./TL	UR	BTI
9	MOHD.WAMIQUE	MOHD.IDREES	CGA	Sr.Tech./TL	UR	SRE
10	KARANVIR SINGH	VEER SINGH	RRC	Sr.Tech./TL	SC	BTI
11	SHOBHA SINGH	KANSHI RAM	CGA	Sr.Tech./TL	UR	UMB
12	SANJEEV KUMAR	AVINASH RAI	CGA	Sr. Tech./WM	SC	SIR

Stand by List

Annexure-II

1	RAM KARAN MEENA	RAM KHILARI MEENA	RRB	Sr.Tech./TL	ST	CDG
2	SATISH KUMAR	Baij Nath	CASUAL LABOUR	Sr. Tech./AC	SC	CDG
3	PARAMJIT SINGH	LAKHBIR SINGH	CGA	Sr. Tech./AC	SC	BTI
4	HANUMAN KUMAR	INDAL	CGA	Sr. Tech./WM	SC	BTI
5	AMAN KUMAR	BANARSI DASS	CGA	Sr.Tech./TL	SC	SRE
6	HARPAL SINGH	BACHAN SINGH	CASUAL LABOUR	Sr. Tech./SBA	UR	RV/UMB
7	HARJINDER SINGH	PREM SINGH	Subs./KH.	Sr. Tech./WM	SC	CDG
8	RAKESH KUMAR	KISHAN CHAND	RRB	Sr. Tech./WM	UR	UMB
9	JASWINDER SINGH	RAM SINGH	CGA	Sr.Tech./TL	OBC	KLK
10	NARINDER SINGH	RAM PARSAD	CGA	Sr. Tech./WM	UR	JUDW
11	YASH PAL	SUKHDEV SINGH	CGA	Sr. Tech./WM	UR	RPJ
12	SUBHASH CHAND	MEER SINGH	RRC	Sr. Tech./SBA	SC	UMB

Note: Further, no PwBD candidate is available in the zone of consideration for above said selection.


 (Suresh Kumar)
 For Sr. Divisional Personnel Officer
 N. Rly Ambala Cantt.

NORTHERN RAILWAY

Headquarters Office
Baroda House
New Delhi.

P.S.No. 15999/2025

NO: - 752-E/Elect./EIIA (317090)

Date: 15.07.2025

DRM:- DLI, UMB, FZR, MB, JAT & LKO.
CWM:- JUDW, AMV-LKO, CB-LKO & ASR

Sub: - Syllabus for selection for the post of Junior Engineer/Elect./G (Level-6).

Ref: -(i) PCPO letter no. PCPO/sel./2025 dated 15.05.2025.

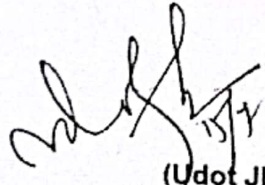
(ii) SEE/Plg/Elect. letter No. 186-Elect./G/Policy/EM/O, dated 23.06.2025

In reference to above subject, the syllabus for selection to the post of Junior Engineer/Elect./G (Level-6), is enclosed herewith for your information and necessary action please.

The above P.S.No. is available on the website given as under:-
<https://nr.indianrailways.gov.in>

Hindi version will follow.
Please acknowledge the receipt.

DA/As above


(Udot Jha)
For General Manager (P)

Copy to:

1. All PHODs and All Officers of Personnel Deptt., HQ Office, Baroda House, New Delhi.
2. General Secy./NRMU, 12 Chelmsford Road, New Delhi.
3. General Secy./URMU, 166/2, P.K Road, New Delhi.
4. Genl. Secy./AIOBC Rly Emp. Asso. 171/A3, Basant Lane, New Delhi.
5. Zonal Secy., All India SC/ST Rly Emp. Asso. North Zone Office, Baroda House New Delhi.
6. Genl. Secy., NRPOA, Room No. 301, HQ Office, Baroda House New Delhi.
7. Dy. CPO/IT, HQ Office, Baroda House, NDLS for uploading on the website.

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

b) Financial Management

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

5. GENERAL & ESTABLISHMENT KNOWLEDGE:

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

6. COMPUTER FUNDAMENTALS:

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

8. राजभाषा

- a. राजभाषा- संवैधानिक प्रावधान,
- b. राजभाषा अधिनियम 1963 (यथा संशोधित 1976),
- c. संविधान की आठवीं अनुसूची में शामिल भाषाएँ,
- d. राजभाषा कार्यन्वयन समिति,
- e. राजभाषा प्रोत्साहन /पुरस्कार योजनाएँ,
- f. हिंदी प्रशिक्षण

9. General Knowledge, Reasoning, Aptitude.

Proforma for willing/unwilling for Selection for promotion to the post of JE/Elect-G, Level-06 (GP 4200) against 25% promote quota.

Sub:-Selection for promotion to the post of Junior Engineer/Elect-G, Level-06 (GP4200) against 25% promote quota.

Ref:-940-E/2/Elect-G/Sel/JE/PQ/UMB/P3/Pt-II dated 05.08.2025

1. In reference to above subject it is stated that I Sh.
S/o Sh. (willing/unwilling) to appear in the Selection for promotion to the post of Junior Engineer/Elect-G Level-06 (GP 4200) against 25% promote quota.
2. The employee who is willing and having any objection against the seniority list of Sr. Tech/Elect-G/ in Level 06/GP 4200 (Yes/No).
3. Option once exercised will be treated as final.
4. If willing furnish the detail below

	Year	2023	2024	2025
Details of Award/Punishment of last three years (Copy must be enclosed)	Award			
	Punishment			

Sign. of Employee.....

Date

Name.....

Father's Name

Designation/Station

Pf. No.

HRMS Id

Mob. No.

Forwarded to Sr. DPO/UMB for necessary action please

Signature of Sr. Subordinate In-Charge with office seal

Date:-