



No. : 940-E/2/Elect-G/Sel/JE/PQ/UMB/P3
Date:- 05.09.2024

Divisional Office,
Ambala Cantt.

SSE/P/Colony/JUDW
SSE/Power/SIR, RV/UMB, UMB
SSE/OE&P/UMB,
SSE/TL-AC/CDG, BTI, UMB, SRE

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.

It has been decided to hold a selection for filling up 03 (UR-03, SC-Nil & ST-Nil) 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 for 03 vacancies ,01 vacnacy 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
03	00	00	03	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 Electrical General Department of UMB Division in Pay Level-6 Rs. 9300-34800 / with Grade Pay Rs. 4200/- and who are in the zone of consideration in 1:3 ratio based on their seniority is enclosed as **Annexure-I**

2. 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 an employees in the main list , have expressed their unconditional unwillingness to appear for the selection on Performa attached herewith and forwarded to this office on or before 12.09.2024 along with objection of any employee against the seniority if any.

3. **Syllabus:-**

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

4. **Procedure for written examination:-**

- 4.1 In terms of Railway Board letter . E(NG)I/2018/PM1/4 dated 14.12.2018 followed by subsequently clarification issued vide Railway Board letter dated 04.06.2019, 01.08.2019, and 09.09.2019, the written examination consists of 100% objective Type Multiple choice questions to be tested by the Competent Authority.
- 4.2 In terms of instructions contained in Railway Board letter No. E(NG)I/2018/PM 1/4 Dated 14.11.2019 (RBE No. 194/2019), (a) There will be no negative marking in selection against departmental quota where panel is arranged in the order of seniority from those qualified.
- 4.3 There shall be questions in official language policy & Rules upto 10% of marks. However, it is not mandatory to attend the same.
- 4.4 The answer are to be marked on OMR answer sheets and the OMR answer sheet will be evaluated manually.
- 4.5 There will be 110 questions of objective multiple choice type with four answer options and the candidate has to answer a maximum of 100 question. In case the candidate

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answers more than 100 questions, first 100 attempted questions are to be taken for evaluation. Cutting, Overwriting, erasing or alteration of any type in answer will not be accepted and zero marks will be given for answer having correction/overwriting.

4.6 The written examination will be of 02 (Two) hours duration.

5. 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 test and asked to submit their applications duly giving their willingness' and forward the same to Personnel Branch addressed to Sr. DPO/UMB. It should 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. The unwillingness, if any, received from the employees is to be forwarded to Personnel branch addressed to Sr. DPO/UMB on or before 12.09.2024 in the prescribed format enclosed as **Annexure-IV**.


6. Procedure for written examination:-

6.1 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. However, it is advised to the staff listed in main list that they should be in readiness to appear for the examination at a short notice.

6.2 The date, venue and time of examination will be uploaded on the website of Personnel Branch, UMB Division. The staff must regularly check the website for updates regarding the same and it will be the responsibility of the candidate to regularly check the website. The candidates may access the website on the address https://nr.indianrailways.gov.in/view_section.jsp?lang=0&id=0,5,319,697,1669 or <https://shorturl.at/4yVrv>.

The Model Answer key of the Written exam will also be published on the website of Personnel Branch, UMB Division on the same or next after completion of written exam for calling objection if any.

Encl.: As above


For Sr. Divisional Personnel Officer
N.Rly./Ambala Cantt

Copy/-

1. Sr. DEE/G/UMB: for kind information please.
2. OS/Confdl. Cell: For information & necessary action.
3. All CS&WLI/UMB Division : for information to concerned employee please.
4. Divl. Secy/NRMU,URMU/UMB Division
5. Divl Secy/OBC & SC/ST Association/UMB Division
6. SSE/Elect/Control Office/UMB

Enclosure of letter No.: 940-E/2/Elect- G/Sel/IE/PQ/UMB/P3 dated 05.09.2024

Annexure I

S.No.	NAME	FATHER NAME	Designation	Community	Station
1	KULDEEP KUMAR	MANAK CHAND	Sr. Tech./WM	OBC	UMB
2	UMA SHANKER SINGH	RAM DEV RAM	Sr. Tech./SBA	UR	JUDW
3	VIKESH KUMAR	RAM SINGH	Sr. Tech./AC	SC	CNL/UMB
4	MAAN SINGH MEENA	HET RAM MEENA	Sr.Tech./TL	ST	UMB
5	SUKAT RAM MEENA	DODYA RAM	Sr.Tech./TL	ST	CDG
6	GURMAIL SINGH	BALDEV SINGH	Sr. Tech./AC	SC	UMB
7	NARENDER KUMAR	RAM LAL	Sr. Tech./AC	UR	UMB
8	JAGAN SINGH MEENA	BAL KISAN MEENA	Sr.Tech./TL	ST	UMB
9	SAT PAL	PHOOL CHAND	Sr.Tech./OE&P	SC	UMB

Stand by List

Annexure-II

S.No.	NAME	FATHER NAME	Designation	Community	Station
1	SANJEEV KUMAR	ROOP LAL	Sr.Tech./TL	UR	UMB
2	RAJA RAM	RAM BHAROSE	Sr.Tech./TL	SC	UMB
3	SAT PARKASH	SHIV KR.	Sr.Tech./TL	UR	BTI
4	MOHD.WAMIQUE	MOHD.IDREES	Sr.Tech./TL	UR	SRE
5	KARANVIR SINGH	VEER SINGH	Sr.Tech./TL	SC	BTI
6	SANJEEV KUMAR	AVINASH RAI	Sr. Tech./WM	SC	SIR
7	RAM KARAN MEENA	RAM KHILARI MEENA	Sr.Tech./TL	ST	CDG
8	SATISH KUMAR	BAIJ NATH	Sr. Tech./AC	SC	CDG
9	SHOBHA SINGH	KANSHI RAM	Sr.Tech./TL	UR	UMB

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



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**SYLLABUS FOR SELECTION FOR THE POST OF JUNIOR ENGINEER
(GENERAL POWER SUPPLY)**

1.0	Basic Orientation
	General Introduction to Indian Railways – Brief History, salient features, freight & passenger business priorities, organizational structure. Introduction to Electrical Department- organizational structure, functions, salient features, role of electrical department in railway working, key priorities, challenges etc.
2.0	General Power Supply System
2.1	Sub-Station and distribution system
	Schematic diagram of 11/0.415KV Sub-Station comprising transformers & DG sets with ratings of switchgears and equipments used, Maintenance schedule of transformer and DG sets, centrifuging of transformer oil, BDV value of transformer oil and its testing, Test checks of sub-station before energisation of sub-station, safety items of sub-station, fire prevention measures for sub-stations, functions of breather/conservator tank/silica-gel/transformer oil, cooling fans, cooling of transformer, purpose of neutral earthing of transformer and DG sets, condition monitoring of transformer, transformer oil, cables and lead acid batteries. Care and maintenance of lead acid batteries. Various types of switchgears and their maintenance schedules, Overhead and underground distribution system, maintenance, operation and protection system, maintenance and protection of transmission line.
2.2	IE Rules and Earthing arrangements
	IE Rules in-connection of transmission, distribution and use of electricity, Role of Electrical Inspector, Electrical Inspector to Govt. of India for Northern Railway. Different types of earthings such as Pipe/GI-plate/Copper plate/maintenance Free earthing, procedure of earth testing and prescribed values for sub-stations/service buildings/residential quarters.
2.3	Power factor
	What is power factor, disadvantages of low power factor and methods of power factor improvement, Short Note of APFC panels.
2.4	Energy Conservation and Energy Efficiency
	B.E.E, ECBC codes, Energy Conservation Act, Information on star rated products, Energy Conservation measures for Sub-Stations, Pumping Installations, Railway Stations, workshops, Running Rooms etc. Use of renewable energy sources for energy conservation. Non-conventional sources of energy.
2.5	Water Supply Pumps
	Requirement of water, planning of water supply systems, Type of Pumps used in Railways and their applications /comparison, maintenance schedules, types of pumps starters, diagram of DOL /star delta and auto transformer starter, causes of burn out of pump-motor and its protection, safety items used in pump starter for protection of pump-motor, purpose of single phase preventer, types of single phase preventer and comparison, Purpose of single phase preventer. Automation of pumps.
2.6	Illumination
	Knowledge of various types of lamps, their working & applications and their comparison, design of illumination system for various indoor and outdoor applications, energy efficient lamps. Lux levels for Railway Station circulating area, waiting halls, concourse, covered and open platform, FOB etc.
2.7	General
	House wiring, metering, safety precautions, tests check before energisation of new wiring, basic electricity and instrumentation, energy consumption monitoring, steps to reduce maximum demand and energy consumption, relative merits of obtaining HT & LT supply and segregation of domestic and commercial load, calculation of energy

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consumption for a given load and time of uses, tariffs, rule & regulations of power line crossings.

Train Lighting

Introduction to Train Lighting Systems, theory of SG/MOG/EOG/HOG/schemes/Alternators, Rectifier/Regulator, Batteries including VRLA, Coach wiring, lighting and fans, microprocessor based drives, maintenance links, maintenance schedules and activities, Relevant Codes and Manuals, RDSO, SMIr, and Modification sheets. Causes of V-belts droppage in SG coaches and remedier. Fire prevention measures in coaches.

Air Conditioning

Air Conditioning systems on Coaches — Heat load calculations and basic theory and practice of air conditioning, air conditioning systems on coaches, LHB coaches, familiarization with major equipment and ratings, microprocessor based drives maintenance schedules and practices, Relevant Codes and Manuals, RDSO SMIs and Modification Sheets, Power Car — Theory and practice of diesel engines, maintenance schedules, microprocessor based control, spare parts. Various safety measures taken to prevent fire in AC coach. Comparison of lead acid and SMF batteries. Refrigeration cycle, water cooler, Window/Split type window AC, Split type water cooler.

Disaster Management

Disaster Management, First-aid and fire fighting, Safety Rules, Electrical accidents — precaution & prevention

राजभाषा

संघ की राजभाषा नीति, राजभाषा कानून, राजभाषा अधिनियम, राजभाषा नियम, संविधान की आठवीं अनुसूची में वर्णित भाषाएँ, राजभाषा प्रोत्साहन पुरस्कार

Establishment

Rules relating to various types of leaves admissible to Railway Staff, pass and PTOs, travel on duty, Railway accommodation and Staff Benefit Fund and Staff Welfare. Industrial relations and role of trade unions. Discipline and Appeal Rules, Conduct Rules. HOER rules, Basics of RTI, factory act, Workmen Compensation Act.

Store

Imprest Store, Cash Imprest, Issue Note, Stock and non-stock items, PAC, Stock verification, Duties of stock verifier, Scrap disposal, Financial control on store expenditure, procurement and store keeping, inventory control, Canons on financial propriety, classification of expenditure

Short Notes :- (For example)

Platform Lighting Management System.

Automation of pumps through GSM technique

APFC Panel

Lux Meter.

PNM

ZRUCC/DRUCC

Motor protection relay

Pre-Payment Energy Meter

Occupancy Sensor

Solar Water Heating System

Two Part tariff

General knowledge

General Knowledge related to Indian Railway, History, Geography, General Science, Mathematics, Current affairs and Abbreviations.

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/Se;/JE/PQ/UMB/P3 dated 05.09.2024

1. In reference to above subject it is stated that I Sh.
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

Details of Award/Punishment of last three years (Copy must be enclosed)	Year	2022	2023	2024
	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:-