

**दक्षिण पूर्व रेलवे / South Eastern Railway**

Office of the  
Sr. Divl. Personnel Officer/Ranchi  
Dated: 20/02/2025

No. SER/P-RNC/EL/210/JE(TRD)/25%DPQ/2025

**The Sr.DEE(TRD)  
Ranchi**

Sub:		Selection through Centralized CBT for formation of panel of JE(TRD) in pay matrix Level-6 (GP-Rs. 4200/-) against 25% DPQ of Electrical (TRD) Department of Ranchi Division.
Ref:	i)	SER Estt. Srl No. 07/2024 & 54/2024.
	ii)	St. DPO RNC's Lr. No. SER/P-RNC/EL/210%/JE/TRD/25%DPQ dtd. 17.02.2025

In term of RBE 05/2024 circulated vide SER Estt. Srl No. 07/2024, it has been decided to conduct Selection through Centralized CBT for formation of panel of JE (TRD), L-6 (GP- Rs. 4200/-) against 25% Departmental Promotional Quota (DPQ) of Electrical Department to be conducted by HQ GRC at Zonal level as per revised classification of post under schemes for filling up of vacancies consequent upon merger of grade stipulated under Estt. Srl No. 189/2009 (RBE No. 161/2009), 132/2009 (RBE No. 113/2009), RBE No. 21/2014 & RBE No. 20/2017. Accordingly, willingness/un-willingness are invited from the eligible employees as per eligibility criteria furnished at Para-2 below, in prescribed proforma.

The details of the notification are furnished below:

**1. Details of vacancies for JE(TRD), L-6 against 25% DPQ of Electrical Department.**

Community	UR	SC	ST	Total
No. of vacancies	01	00	00	01
Horizontal reservation of PwBD				
No. of Vacancies reserved for PwBD	Identified category of benchmark disabilities		Functional requirement	
Not Applicable	Not Applicable		Not Applicable	

**2. Eligibility and service conditions of staff:**

- In terms of Estt. Srl. No. 26/2014 (RBE No. 21/2014) all Sr. Technicians in Level-6 working in ELECT(TRD) Deptt. whose minimum educational qualification is Matriculation or its equivalent are eligible to submit their willingness/un-willingness to appear at the above examination, are advised to submit willingness/un-willingness in prescribed Performa enclosed at Annexure-A.
- If sufficient Senior Technicians at Level-6 (GP-Rs.4200/-) are unwilling to participate in the selection to the post of Junior Engineer(TRD), L-6, by giving **unwillingness** or adequate number of eligible Sr. Technician are not available, **only then** Technician-I in level-5 (GP-2800/-) working in ELECT(TRD) Department with minimum education qualification is Matriculation or its equivalent & who have completed 02 years regular service as on date of notification may be made eligible for appearing in the selection as per Estt. Srl No. 26/2014 (RBE No. 21/2014) and as such Technician-I in level-5 (GP-2800/-) are also advised to submit their willingness/unwillingness in the prescribed proforma.
- The Zone of Consideration for selection will be determined in the ratio of 1:3 basis (three times of above vacancies as per break-up of UR, SC& ST) according to seniority.
- In terms of CPO/GRC's Estt. Srl. No. 153/2006, the cut-off date for determining of the eligibility of the willing staff shall be the **date of issuance of Notification**.

**3. Modified objective and scheme of examination:**

The Selection shall consist of a Centralized Computer Based Test (CCBT) for one stage only comprising of only one paper with following set up:

- Single paper of 110 marks comprising of 100% Objective Type Multiple Choice Questions (CBT) with following distribution of marks.

Topics	Total Number of Questions	Marks
Technical (professional) subjects & Establishment Rules as per approved syllabus.	100 Questions	100
Official language policy & rules (Authority: Srl No. 03 of RBE 97/2019)	10 Questions	10

- Qualifying marks : 60 Marks out of 100
- Duration : 90 minutes

- Question paper will have 110 questions (100 questions for technical subjects & establishment rules + 10 questions mandatorily from official language policy & rules). Out of 110 questions, 100 questions are to be attempted.
- Questions paper will be set in bilingual format (i.e. Hindi/English). In case any dispute/discrepancies in Hindi version, question of English version shall be treated as final.

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- iv. In terms of RBE 194/2019, There shall be **No Negative marking** for incorrect answer as selection is against promotional quota and panel will be formed in order of seniority from those qualified.
- v. There will be a provision of Supplementary selection strictly following the guidelines laid down in para 11 of **Master circular 31** circulated vide Rly Bd's letter No. E(NG)/2019/PM 1/20 dated 19.12.2019.
- vi. In terms of Srl. No. 03 of RBE 97/2019, if any candidate answers more than 100 questions, the first 100 attempted questions will be counted for evaluation.
- vii. Since, Centralized CBT is to be conducted by HQ, the marks secured by the candidates who will appear in CCBT shall be advised by HQ to respective Divisions/Units for completion of further process of Selection.

#### 4. Mode of Selection:

- i. In terms of Para (10) of SER. Estt. Srl. No. 54/2024, after completion of CCBT, the further procedure of Selection will be completed by the constituted Department Promotional Committee (DPC) at Divisional level.
- ii. The candidates have to obtain a minimum of 60% marks in Professional ability i.e. in written examination (CCBT), for being considered for further selection process of perusal of Service Records, APARs etc.
- iii. In terms of RBE No. 17/2014 the final panel will be made on order of their inter-se-seniority amongst those qualified who have secured 60% or more marks in professional ability as well as in aggregate.
- iv. The post of JE(TRD) being a "Safety category post", there will be no relaxation in qualifying marks (60%) in written examination (CCBT) to reserved Community employees as per Para 8(iii) of Master Circular - 31.
- v. The allotment of marks under various head for being placed on the panel as per Para 219 (g) of IREM Vol-I, (Reprint-2009) as under:

SN	Factor/Heads	Maximum marks	Qualifying marks
1	Professional ability	50	30
2	Record of service	30	--
3	Seniority	20	--
<b>Total</b>		<b>100</b>	<b>60</b>

- vi. In terms of CPO/GRC's letter No. P/R/14/314/3, dated 27.09.06, SER/P-HQ/Ruling /0/983 dated 23.03.2023 dated 06.04.2023, the marks under the heading "Record of service" is distributed as under:-

SN	Factor/Heads	Maximum marks
1	Educational Qualification	10
2	Entries in Service record (15 marks as per different heads of APARs and 5 marks as per Service Record) viz. Award/Punishment etc.	20
<b>Total</b>		<b>30</b>

The marks under the heading "Record of service" is distributed as under:-

- a. **APAR-15 marks:-** Maximum 15 marks will be allotted for APARs, whereby 5 marks Outstanding, 4 marks for Very Good, 03 marks for Good, 02 marks for Average and Unfit for Below Average for each of last 03 years APARs (Authority: PCPO/SER's Estt. Srl. No. 177/02 & 266/99 and CPO/GRC's letter No. P/6<sup>th</sup> PC/32/Pt-I dated 16.06.2011).
- b. **Service Record- 05 marks:-** As per SER Estt. Srl. No. 177/02 & 266/99 award and merit certificate for DRM (RSP)/PHOD(RSP)/GM(VRSP)/Rly Board level (AVRSP) in last 3 years, maximum 01 mark for each award/merit certificate will be taken. For major penalty during the 3 years under consideration, 01 mark to be deducted for each major penalty and ½ marks to be deducted for each minor penalty. The maximum marks under this heading should not exceed 05 marks.

**Note:** It is also instructed in SER Estt. Srl. No. 177/02 & 266/99, that the above are only guidelines and if necessary, depending upon the circumstances, the Members of the Committee are fully competent to lay down their own guidelines. However, if different guidelines are followed, the same should be spelt out and it shall be uniformly applied to all the candidates.

- c. **Educational qualification 10 marks:-** The marks will be allotted as follows:-

Sl. No.	Education Qualification	Marks
1	Post Graduation/Master Degree & Higher	10
2	Degree in Engineering/ Graduation/ Hons. Degree	09
3	HS/10+2/Diploma	08
4	Matriculation/ 10 <sup>th</sup> Pass/ III	07
5	Below Matric	06

(Authority: As per PCPO/GRC's letter No. SER/P-HQ/Ruling/0/963 dtd.23.03.2023& 24.05.2023)

*[Signature]*  
20/2/25



The "Service Record" will be assessed as per the entries available in the Service Register/Personal records with respect to the educational qualification, awards and punishment and based on the grading reported in the APARs.

d. **The Marks under "Seniority" is distributed as under:**

e. In terms of CPO SER/GRC's letter No. P/R/14/314/3 dated 27.09.2006, the following distribution of marks are awarded in the column of seniority.

- i. Where there are 10 candidates or less called for selection, the senior most will have to be awarded 20 marks while the junior most should be awarded 10 marks and the candidates in between should be awarded marks on pro-rata basis.
- ii. Where there are more than 10 candidates called in a selection, the senior most will have to be awarded 20 marks while the junior most should be awarded 7.5 marks and the candidates in between should be awarded marks on pro-rata basis.

vii. The assessment under "Professional Ability" will be based on the marks secured by the individual employee in the written examination (CCBT) held as part of selection.

5. **Syllabus:**

The syllabus prescribed for the examination has been approved by competent authority is enclosed as "Annexure-B"

6. **Pre-selection coaching:**

Since, the vacancy is not reserved for the SC/ST employees, Pre-selection Training will not be imparted for SC/ST candidates.

7. **Date of submission of application and consolidated statement:**

Applicant fulfilling the above conditions as on 20.02.2025 as detailed above, should submit applications within the target date, vide Para-(8) below.

8. **Important timelines:**

01	Tentative last date of receiving option	07.03.2025
02	Tentative last date of counter signed by Department	10.03.2025
03	Tentative last date of service particular verification	12.03.2025
04	Tentative date of issue provisional eligibility list	18.03.2025
05	Tentative date of issue final eligibility list after finalization of representation, if any	24.03.2025
06	Tentative date of pre-selection coaching start w.e.f.	28.03.2025
07	Tentative target date of completion of pre-selection coaching	22.04.2025

9. **Notifying to the staff:**

In terms of Railway Board's Letter No. E(NG)I-72/PMI/166 dated 06.06.1972 the Senior Subordinate/Supervisor concerned has to furnish a certificate that "the eligible candidates were duly notified the holding of the selection/examination and asked to submit their applications giving willingness in writing" and forward the same to concerned Personnel Branch of the Divisions/Units. 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 candidates. This is also being uploaded on [www.ser.indianrailways.gov.in](http://www.ser.indianrailways.gov.in) → Division→Department→Personnel→Notification. Candidates have to check the website regularly for further any updates.

10. **The examination centre:**

The examination centre may be outstation of working Division/Unit and the applicants will have to appear CBT examination as per their allotted city/town/centre. No change of CCBT centre shall be entertained from any applicant and CCBT shall be conducted by a contracted agency outside of Railways.



**11. Medical classification & Medical Examination:**

The post of JE(TRD) is classified under Medical category A-3, hence eligible candidates of Electrician(TRD) department whose present medical standard is A-3 but PME is due or whose present medical category is below than A-3 or has attained 45 years of age and PME is due after attaining 45 years of age shall be sent for medical examination just after declaration of result of CCBT in terms of Para-514(A)(i) & (ii) & Para 514(B) of IRMM Vol-I for passing medical standard of A-3, if they are declared qualified in written examination(CCBT).

**12. Mandatory Promotional Courses Training:**

Candidates empanelled for promotion to the post of JE(TRD) should pass promotional training course of JE(TRD) which is mandatory before being promoted as JE(TRD) as per extant rules in vogue.

**13. Last date for submission of application:**

The willing and eligible candidates have to submit their application in the prescribed proforma enclosed at Annexure-A to their controlling supervisor on or before 07/03/2025 who will forward the applications in one bunch to the Controlling Officer after scrutiny so as to reach on or before 10/03/2025. The controlling officer has to forward the same in one bunch to Sr. DPO/Ranchi on or before 12/03/2025. If no applications are received within the stipulated time, the controlling officer need to forward a "Nil figure certificate" to the Sr. DPO/Ranchi.

The applications in piece meal manner and which are incomplete or received after the last date will be rejected without assigning any reason.

**14. Other information:**

At any stage of selection, if any staff candidature is found to be defective or not as per extant rules, his/her candidature will be cancelled thereof. Thus, mere calling or being eligible provisionally for the selection does not confer any right to them for such promotion. The administration also reserves the right to cancel the notification/notified vacancies at its discretion, if any discrepancies are found at any stage and such decision will be final and binding on all.

Wide publicity may please be given it amongst eligible categories of staff. A copy of this notification may also be displayed on the notice boards and Divisional/Unit websites.

  
(Sanjeeb Kumar Dey)  
Asst. Personnel Officer-II  
For Sr. Divl. Personnel Officer

Encl: i) Application Proforma (Annexure-A)  
ii) Syllabus (Annexure-B)

**Proforma for Willingness/Un-willingness for the post of JE (TRD), L-6 against DPO in Electrical Department of Ranchi Division,**

Signature of the candidate

Recent colour  
photograph

01.	Whether Willingness or Un-willingness: (To be specifically mentioned)			
02.	Name ( In Block Name):			
03.	Designation & Station	Substantive:		
		Officiating:	From:	To:
04.	Pay Matrix Level:			
05.	Employee No.:		HRMS ID:	
06.	Date of Birth:			
07.	Date of Initial Appointment and post:			
08.	Date of Regular Promotion as Sr. Tech:			
09.	Date of Regular Promotion as Tech Gr. I:			
10.	Educational & Technical Qualification as per entry made in Service Record:			
11.	Caste Community:			
12.	Whether belongs to PwBD (Yes/No), if yes, mention details and attach relevant documents.			
13.	Mobile No. (Personal):		CUG:	
14.	E-Mail Id:			

I, the undersigned hereby declare that the particulars furnished above are correct and true to the best of my knowledge. I would be liable for punishment under D&A Rule if the aforesaid information is proved to be false and my candidature will be summarily rejected.

Date:  
Station:

Signature of Applicant

(Instruction: Signature and date both are compulsory, otherwise application will be rejected.)

**For use of the controlling Supervisor of the employee)**

It is certified that the particulars furnished by the employee are verified with the records available in this office and found to be correct. He fulfils the eligibility criteria as stipulated in the notification.

The application is forwarded to Sr. DET (TRD)/..... for further necessary action please.

Signature with stamp of Controlling Officer/Supervisor

Date:  
Station:  
Office Seal:

  
**(For use of the controlling Officer of the employee)**

Forwarded the applicant of Sri/Smt/Ms \_\_\_\_\_ to Sr. DPO..... for further necessary action:

1. Verified and countersigned.
2. Certified that there are no DAR cases pending against the concerned staff.

( In case any DAR cases is pending against the above staff, the details may kindly be indicated)

\_\_\_\_\_  
**Signature with stamp of Controlling Officer with  
Designation & Seal**

**Date:** \_\_\_\_\_

**(For use of the Concerned P/Branch Officer of the employee)**

Certified and verified the particulars as mentioned in the application with available official records viz. Service Record, P/File etc.

\_\_\_\_\_  
**Signature of the concerned P/Branch officer with stamp**

**Date:**





**Uniform Syllabus for the post of JE(TRD) against 25% DPQ in Electrical Department over  
South Eastern Railway**

**(I) OHE:**

1. Brief history of electric traction of Indian Railways
2. Types of OHE and its maintenance
3. OHE Components and parameters
4. Various types of OHE mast, portals and foundations
5. OHE arrangement in tangent/ curved tracks- Versine, Super elevation, Span Lengths, Wind pressure, factors affecting the stagger, Sag & Tension in conductors.
6. Cantilever assembly, Types of overlaps, Jumpers, Droppers, section Insulator, Turn-out, Cross-over
7. Bonding and Earthing of structure
8. Auto tensioning device, Regulated OHE and unregulated OHE.
9. Basic principles of sectioning and Sectioning arrangements
10. Types of neutral section and their usage.
11. Types of OHE termination and anchoring,
12. Electrical clearance: Horizontal & Vertical, Power line crossing, over dimensional consignments, Precautions pertaining to movement of ODCs
13. Indian railway Schedule of dimensions, Basic principles for checking of the OHE layout plan, Survey, Pre-pegging plan, lay-out plan, SED.
14. Latest SMIs and MIs and RDSO specifications
15. Power block and traffic Block, Duties of Traction Power Controller.
16. Types of Tower wagons, Tower cars and its schedule maintenance, Working rules of Tower wagon/car in section
17. Unusual Occurrences Breakdowns & their restoration/Remedial Actions.
18. Safety Precautions for working in 25 KV OHE.
19. TDMS and UDM for TRD assets

**(II) POWER SUPPLY INSTALATION:**

1. Lay-out plan of TSS and its components, Supply at Traction sub-stations, Feeding and sectioning arrangement, voltage regulation.
2. Maintenance of Traction Sub-station (TSS), Feeding post (FP), Sectioning and paralleling post (SP), Sub-sectioning and paralleling post (SSP), Sub-sectioning post (SS) Circuit Breaker, Interrupter, Isolators, Traction Transformer, Current Transformer, Potential transformer, Auxiliary Transformer, Bus bars and connectors
3. Types of Protective relays and their uses
4. Batteries used in TRD & their schedule of maintenance
5. DG analysis of transformer oil and BDV testing of transformer oil, Insulation Resistance
6. Bonding and Earthing, Lightning Arrestor
7. Basic principle of 2X25 kV Traction system

**(III) REMOTE CONTROL EQUIPMENT:**

1. Principles of SCADA Systems
2. Remote Terminal Unit (RTU), RTU Functional details
3. SCADA Equipment capacity, Transmission Path, Test procedure and diagnostic.
4. UPS and Batteries at RCC
5. Operation of RC Equipment

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**(IV) STORES**

1. Stock & Nonstock items
2. LM-32, DMTR, DS-8, R-Note
3. UDM & GeM

**(V) ESTABLISHMENT:**

1. General awareness regarding Indian Railway Organization
2. Railway Service Conduct Rules 1966
3. Pass rules
4. Leave rules & Encashment of leave
5. D & A rules 1968
6. HOER

**(VI) RAJBHASHA**

1. Rajbhasha
2. Official Language Act 1963
3. Official Language Rules 1976
4. Translation English to Hindi & Vice versa

This syllabus has been issued with the approval of Competent Authority.

