



SOUTH CENTRAL RAILWAY

No.SCR/P-SC/210(a)/EL/TRS/ELS/LGD/JE/LDCE

Office of
the Divnl.Railway Manager,
Personnel Branch, 4th Floor,
Sanchalan Bhavan, Secunderabad.
Date: 04.05.2018

**Sr.DEE/ELS/LGD, Sr.DEE/TRSO/SC,
SSE/G/ELS/LGD, SSE/TS/HYB, SSE/TS/SNF**

NOTIFICATION

Sub: Formation of panel for filling up the post of Junior Engineer in ELS/LGD (Including TS/HYB & TS/SNF) in Level-6/4200GP of 7th CPC Pay Matrix, against 25% LDCE quota in Electrical(TRS) Organization of Secunderabad Division – Regarding.

It is proposed to form a panel to fill up two(02) posts of Junior Engineer in ELS/LGD (Including TS/HYB & TS/SNF) in Level-6/4200GP against 25% Limited Departmental Competitive Exam (LDCE) quota in Electrical(TRS) Organization of SC division. The details of vacancies are as under:

Category	UR	SC	ST	Total
JE	02	--	---	02

1. Eligibility and Service conditions of staff:

- All serving employees having the qualifications of ITI/Act Apprenticeship pass in the relevant trade or 10+2 in science stream with three years of service in skilled grades. i.e., Tech-III of ELS/LGD (Including TS/HYB & TS/SNF) of Electrical(TRS) Organization of SC division and above shall apply.
- In terms of Railway Board's Lr.No.E(NG)/I/99/PM7/17, dated 25.08.2003, CPO/SC's S.C.No.172/2003, the qualification of ITI/Act Apprenticeship should be in the trades relevant for eventual absorption in the category for which the selection is conducted i.e., trade relevant to the post of Junior Engineer/TRS.
- In terms of Railway Board's Lr.No.E(NG)/I/99/PM7/17, dated 28.07.2003, CPO/SC's S.C.No.157/2003, if the employees otherwise eligible and possessing the qualifications of Degree or Diploma in the relevant branch of engineering are also eligible to volunteer to appear in the selection for induction as intermediate apprentices along with those who have qualification of ITI/Act-apprentice or 10+2 (Science stream).
- As on the date of notification the volunteering staff should be below the age of 47 years in the case of UR candidates and the upper age limit for SC/ST employees would be 52 years (SC. No. 90/2010 & 92/2011) i.e., employees should have born not later than 04.05.1971 in the case of general category and not later than 04.05.1966 in the case of SC/ST employees respectively.
- In terms of Railway Board's Lr.No. E(NG)/I/2005/PM1/52, dated 22.08.2006, CPO/SC's S.C.No.131/2006, the cut-off date for determining the eligibility of staff should be the date of issue of notification. As such the volunteering employees should fulfill the service conditions of age and educational qualification and other service conditions as on the date of issue of this notification i.e. as on 04.05.2018.

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Note: In respect of employees who have reported/joined on this division on inter railway request transfer/inter divisional request transfer on bottom seniority, the service rendered in the old unit will count for the purpose of qualifying service for promotion in the new seniority unit provided:-

- (i) He/She is otherwise eligible to be considered for the selection to Group 'C' post as per extant rules; and
- (ii) The category in which he/she was working in the old unit is an eligible category for the selection/post in the new unit also. [Authority CPO/SC's S.C.No.41/2006 & 117/2006].

2. MODE OF SELECTION AND QUALIFYING MARKS.

- a. Professional Ability: - The professional ability of the employees in the field of selection will be adjudged through written test only. The employees must secure 60% of marks in professional ability as well as in the aggregate.
- b. The post of JE/TRS being a safety one, there will be no relaxation in qualifying marks, for candidates belonging to SC/ST community. They have to obtain minimum of 60% in written test & 60% in aggregate on par with UR employees (Ref: Para 10.1.1 of S.C. No. 320/1999).

c.

Factors / Headings	Max. Marks	Qualifying Marks
Professional ability	50	30
Record of Service	30	-
Seniority	20	-
Total	100	60

- d. Distribution of marks under head of Record of Service.

15 marks	On the basis of grading of APARs/Working Report of last 3 years
10 marks	On the basis of entries of Awards/Punishments in the SR
5 marks	On the basis of entries in SR for Academic/Tech. Qualifications

3. SYLLABUS:

- a) Syllabus for the written test is enclosed as Annexure 'III'. Option is available for writing in Hindi also.
- b) Question Bank is available on railway website – www.scrindianrailway.gov.in. However, copy of the same is enclosed herewith.

4. Procedure for written examination:

- a. In terms of Railway Board's Lr.No.E(NG)I-2006/PM1/18, dated 30.08.2006, CPO/SC's S.C.No.142/2006, the written examination consists of objective as well as narrative type questions. There will be no negative marks for objective questions. The objective type questions will be for about 50% (in the range of 45% to 55%) of the total marks for the written test.
- b. In terms of instructions contained in CPO/SC's S.C.No.47/96, questions on Official Language will form part of the professional ability for 10% of total marks. The questions on Official Language policy are compulsory but there shall not be any compulsion on the part of the candidates to answer such questions.

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- c. In terms of Railway Board's Lr.No. E(NG)I-2004/PM1/25, dated 21.09.2004, CPO/SC's S.C.No.180/2004, the question paper for written test held as part of selection/LDCE should be to test the ability of the candidates to tackle the practical problems and will be on practical problems and will be on practical basis. However, the candidates will also be tested on theoretical knowledge where ever required.

5. Date of Examination:

The date, venue and time of examination will be intimated separately. However, it is to be advised to the volunteering staff that there will be no supplementary examination to the absentees in the main examination, since the selection is by calling volunteers.

The candidates may keep them update time to time from this Railway's official website i.e. www.scr.indianrailways.gov.in.

6. Notifying to the staff:

Wide publicity should be given to this notification amongst the eligible staff of ELS/LGD (Including TS/HYB & TS/SNF), Electrical (TRS) organization of SC division. A copy of notification should be displayed on a notice board at a conspicuous place. Staff who are on deputation/leave/sick should also be notified to enable them to submit their applications in time. It should be the 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.

7. Last date for submission of Applications :

The willing and eligible volunteers has to submit their applications in prescribed proforma to their controlling supervisors on or before **04.06.2018** who will forward the applications in one bunch to the controlling officer on or before **08.06.2018**. The controlling officer has to forward all the applications in one bunch to Sr. DPO office/SC together with DAR/SPE/Vig. clearance on or before **13.06.2018**. Applications received after the last date will summarily be rejected without assigning any reason.

It may be noted that all the relevant columns in the application should be filled completely & strike out the inapplicable columns indicating as "NA" and forwarded duly verified & certified by the controlling supervisor/officer wherever specified in the application or otherwise same will not be considered.

The applications received beyond the last date should not be entertained and rejected invariably by the controlling supervisors/officers and same will not be considered.

- Encl: 1. Syllabus (Annexure- A)
2. Application Proforma (Annexure- B)


(A.SITA SREENIVAS)
DPO-I/SC
for Sr. Divl. Personnel Officer/SC

SYLLABUS FOR PROMOTION AS JE-II IN SCALE Rs. 9300-34800+4200(GP) IN TRS ORGANISATION AGAINST 25% RANKERS QUOTA & 25% LDCE Quota.

I.

1. Study of Electricity ohms Law Magnetism Flemings R.H. Rule, L.H. Rule, Lenz's Law, BM Induction Parameters of D.C circuits, working principles of D.C. Machines, Characteristics, speed control.
2. Study of Characteristics, Armature, Reaction, Commutation Improvements for commutation and suitability of D.C. Series Motor for traction duty - study of Traction Motor used in A.C. Locomotives WAP4/5/7 & WAG5/7/9 Maintenance, repairs, overhaul.
3. A.C. Circuits, parameters of A.C. circuits, Simple calculations, study of power supply arrangements of A.C. traction.
4. Study of current collection in A.C. Locomotive, study of roof equipment of A.C. Loco.
5. Study of Transformer principle, overhaul and maintenance of Transformers, Auto-Transformers, conditions for parallel operation of transformer, study of transformer used in A.C. Loco WAP4/5/7 & WAG5/7/9 Maintenance and overhauling tests to be conducted on the transformer, study of tap changer, operation method for voltage control, Testing of transformer.
6. Study of fuse protectors, switches and isolators, construction and working detail of circuit breakers of A.C. Loco (DL).
7. Study of various type of contractors and relays, study of relays and contractors used in the A.C. Loco, B Drum, contactors. Function of blow out coil and arc chutes.
8. Study of Batteries, commissioners (initial charging) maintenance and reclamation and battery charging procedures.
9. Study Rectification methods, filters, study of Silicon rectifier, smoothening reactor in the Loco study of semi-conductor devices, battery charger.
10. Safe working on the locomotive precautions to be taken, Fire preventive measures in the locomotive and study of fire fighting.
11. Study of transmission lines and distribution lines and under ground cables, study of erecting the lines determination of conductor size and re-cabling of locomotives.
12. Study of 3 phase induction motors principle, maintenance and overhauling, study of Induction generator, working principles, study of Arno, Aux, machines of A.C. Loco. **Maintenance of Three phase traction motor FRA 6068 and its cooling arrangement. Speed sensor and temperature sensor of traction motor and their importance in Three phase locomotives.**
13. Study of Earth testing procedure, insulation test for various equipments and testing of insulators.
14. Study of power factor and the improvement methods demand and economy in installation of Electrical energy.

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15. Study of circuit, analysis of WAP4/5/7 & WAG5/7/9 locomotive i.e study of circuits, cabling Index and other drawings. **Cooling circuit of WAP7 and WAG9 locomotives.**
16. Three Phase locomotives: **Battery charging arrangement in 3Ø locomotives. Auxiliary power supply and load sharing between BURs during normal condition and during isolation of one BUR. Understanding the working of various contactors associated with Harmonic filter. Understanding of various MCBs provided in HB and SB panels and their importance in trouble shooting various faults.**
17. Three Phase locomotives-Pneumatic system: **understanding of BP charging in 3Ø locomotives in E70 brake system. Brake application and release using A9 and SA9. Different kinds of braking available in three phase locomotives. Overview of Brake electronics. Understanding the E70 tri-plate panel-various cocs, valves and their location and position.**
18. Three Phase locomotives - Features: **Protective functions in three phase Locomotive (ABB document 3EHP 541526), working of VCD, Failure mode operation, Inching mode operation, Constant speed control, Traction Interlock, SR Interlock and Indication of faults using BPFA & LSFL.**
19. Measurements of Resistance, current voltage, power study of various types meters and equipment used, megger, diode tester, ammeter, Voltmeter etc., Uses of shunts, multipliers.
20. Study of WAP4/5/7 & WAG5/7/9 Bogie, wheel arrangements, suspension arrangements and all mechanical features like elements of Vibration, Oscillation, Damping devices, Elasticity etc.
21. Study of Sander gear and Brake rigging, various types of brake systems in A.C Loco.
22. Study of Pneumatic circuitry of WAP4/5/7 & WAG5/7/9, Study of various Pneumatic Valves, braking system (E System)
23. Study of stores and accountal correspondence.
24. Study of maintenance schedules for various equipment in the A.C. Locomotive, its periodicity.
25. Study of Locomotive, testing, engine fitness and trouble shooting procedure.
26. RDSO modification and SMIs implementation and maintenance of various records.
27. New equipments in loco such as MPCS, SIV, VCD and WMUCS and **understanding basic features of M/s BHEL make IGBT locomotives.**

II.a). Railway service conduct Rules, Pass Rules, D&A Rules, Hours of employment regulations, payment of wages Act, WC Act.

b). Procurement of stores – stocked items and non-stocked items – Imprest stores
Disposal of unserviceable stores – stock verification.

c). Rules and Regulations about Official Language.-



Application for Selection to the post of Junior Engineer in Level-6 of 7th CPC Pay Matrix in Elect. Loco Shed/LGD against 25% LDCE quota (Intermediate Apprentice quota).

Affix recent
photograph
attested by their
Controlling
officer

1. Name of the Employee:
2. PF.No. :
3. Designation/Station :
4. Date of Birth :
(In Christian era)
5. Age as on : _____ Year _____ Months _____ Days
6. Community : UR/OBC/SC/ST
(Write the relevant community in Bold letters in the box)
7. Date of initial Appointment/Station/Dept./Divn./Rly
 - a. As Technician Gr.III:
 - b. As Technician Gr.II:
 - c. As Technician Gr.I:
 - d. As Sr.Technician:
8. Total length of service in Technician Gr.III and above } _____ Year _____ Months _____ Days
9. Educational Qualification:
(Copies of certificates to be enclosed)
10. Awards conferred during the last three years (Railway Week)
 - a. Divisional level (DRM level)
 - b. Headquarters level (PHOD/HOD)
 - c. GM/Railway Board's level.
11. Penalties imposed during the last three years:
 - a. Minor
 - b. Major
12. Any other relevant information:

Declaration: I hereby declare that the particulars furnished are true, complete and correct to the best of my knowledge and belief. I understand that, if at any stage it is found that the information furnished is false or incorrect or I do not satisfy/fulfil the eligibility criteria, my candidature /appointment on promotion is liable to be cancelled besides disciplinary action as per Rules. I have read the contents of the notification and agree to abide by the Rules, regulations and procedure prescribed for promotion to the post of Junior Engineer.

Date:

Signature of the Employee:

Name:

Designation:

(For use of the Controlling Supervisor of the employee)

Lr.No.

Date:

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 forward to Sr.DEE/ELS/LGD & Sr.DEE/TRSO/SC for further necessary action please.

Date:

Signature of the controlling officer

Station:

Name:

Office Seal:

(For use of the Controlling Officer of the employee)

Lr. No.

Date:

Forwarded to Sr.DPO/SC for further necessary action

1. Verified and countersigned.
2. Certified that there are no DAR/SPE/Vig. Cases pending against the above employee.

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

Date:

Signature of the Controlling officer

Office Seal

Name:

Designation & Stamp: