

SOUTH CENTRAL RAILWAY



Office of the Divl. Railway Manager,
Personnel Branch, 4th Floor,
Sanchalan Bhavan, Secunderabad.

No.SCR/P-SC/209/EL(TRD)/Tech-III/TRD/LDCE

Date: 11.03.2019

Sr.DEE/TRD/SC, Principal/ETTC/BZA, Dy.CEE/Con/SC, CPM/RE/SC.
DEE/TRD/KZJ; ADEE/TRD: SC, SKZR, DKJ, TDU.
All SSE/SE/JE's of Electrical(TRD) Organization

NOTIFICATION

Sub: Formation of panel for filling up the post of Technician Gr.III/TRD(unified wing) in Level-2/GP1900 against 25% LDCE quota/Qualified Staff quota in Electrical/TRD Organization on Secunderabad Division - Reg

1. It is proposed to form a panel for filling up of 30(Thirty) vacancies of Technician Gr.III/TRD(unified wing) in Electrical(TRD) Organization on SC Division in Level-2/GP1900 against 25% LDCE quota/Qualified staff quota by calling applications from volunteers from amongst the serving employees i.e Helper/TRD, in Level-1/GP1800, working in Electrical/TRD Organization on SC divn. possessing the educational qualifications and fulfilling the service conditions as detailed below.

The break-up of vacancies is as under:

Community	UR	SC	ST	Total
No.of Vacancies	26	03	01	30

2. Eligibility and Service conditions of staff:

2.1 All serving Helper/TRD staff possessing the qualifications prescribed in the Apprentice Act with two years of regular service are eligible to volunteer for the selection{Railway Board's letter No.E(NG)I-2015/PM1/20 dated 03.05.2017(RBE No.43/2017)}.

2.2 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 the staff should be the date of issue of notification. As such, the volunteering employees should stand fulfill the service conditions of educational qualifications and other service conditions as on the date of notification. i.e as on **11.03.2019.**

2.3 The staff who are appointed as substitutes and subsequently regularized in a Group "D" posts are required to fulfill the service condition of two years counted from the date of regularization.

Note: In respect of employees who have reported/joined on this division on Inter Railway Request transfer/Inter Divl. Request transfer on bottom seniority, the service

[Signature]

rendered in the Helper category 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]

3.0 PRE SELECTION TRAINING.

- 3.1 Sr DEE/TRD/SC shall arrange for pre-selection training to the volunteered reserved employees, for a period of **3 to 4 weeks**, which shall cover entire syllabus prescribed for examination as per Board's instructions under SC No.41/98 read with S.C.No. 245/2001.
- 3.2 This pre-selection training shall be imparted as far as possible in a Zonal Training or System Technical Training School.
- 3.3 After completion of the pre-selection coaching, a certificate is to be issued by the controlling officer to the effect that all the eligible SC/ST employees have been imparted pre-selection training for a period of 3 to 4 weeks.
- 3.4 In case any of reserved community employees is unwilling to undergo pre-selection training, a written refusal in this regard shall be obtained and sent to this office for record.
- 3.5 These instructions should be adhered to strictly in an effective manner so that the performance of the reserved employees may come up to the required standard.

4 MODE OF SELECTION AND QUALIFYING MARKS

(Railway Board's Lr.No.E (NG) I/2000/PM1/41, dated 20-08-2003, S.C.No.144/2003)

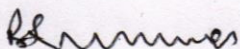
- 4.1 Professional Ability: - The professional ability of the employees in the field of selection will be adjudged through written test only. The employees must secure 60% of marks in professional ability.
- 4.2 The post of Tech.-III/TRD(unified wing) being a safety one, there will be no relaxation in qualifying marks, for candidates belonging to SC/ST community. They have to obtain minimum of 60% in written test & 60% in aggregate.

Factors / Headings	Max. Marks	Qualifying Marks
Professional ability	50	30
Record of Service	30	-
Total	80	48

- 4.3 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

- 4.4 The final panel should be drawn up in the order of merit based on aggregate marks of 'Professional ability' and 'Record of Service'. However, the employees must secure a minimum of 60% marks in 'Professional ability' and 60% marks in aggregate, for being



placed on the panel. There will be no classification of candidates as 'Outstanding'. The final panel will also be subject to their being fit in medical classification of B-1 only.

5 Syllabus:

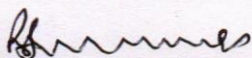
- 5.1 Syllabus for the written test is enclosed as Annexure 'A'. Option is available for writing in Hindi also.
- 5.2 Question Bank is available on railway website – www.scrindianrailway.gov.in. However, copy of the same is enclosed herewith.
- 5.3 There shall be questions in official language policy & Rules upto 10% of marks. However, it is not mandatory to attend the same.

6. Procedure for written examination:

- 6.1 In terms of Railway Board's Lr.No.E(NG)/I/2018/PM1/4, dated 14.12.2018(RBE No.196/2018), CPO/SC's S.C.No.212/2018, the written examination consists of 100% objective and all the questions will be of multiple choice only.
- 6.2 There shall be negative marking of incorrect answers. 1/3rd of marks allotted for each question will be deducted for wrong answers.
- 6.3 Cutting, over writing, erasing or alteration of any type in the answer will not be accepted. Zero marks will be given for answer having correction or overwriting.
- 6.4 The written examination will be either in the mode of computer based test or pen and paper..

7. Question Bank:

- 7.1 In terms of Railway Board's Lr.No.E (NG) I-2006/PM1/34, dated 06.11.2006, CPO/SC's S.C.No.196/2006, updated Question banks covering the complete syllabus will be provided to the staff concerned or the same can be downloaded from the official website of www.scr.inidanrailways.gov.in.
- 7.2 It is further advised that there will not be any mandatory limit of questions from the question banks.
- 7.3 The controlling officer/supervisor has to ensure that the question bank is circulated to all the eligible staff and holding of selections will not be postponed/delayed due to non-circulation of question banks.
- 7.4 Question bank is only indicative in nature but not exhaustive. The examinees are advised to update their knowledge with latest Rules/circulars/policies.
- 7.5 The question banks so prepared should be updated regularly in accordance with the changing technology and job requirements.



8. Date and Venue of Examination:

8.1 Important dates:

Last date of submission of applications	10.04.2019
Date of publication of eligibility	17.04.2019
Tentative Commencing of Pre-selection training	18.04.2019
Tentative Written Examination date	22.05.2019
Note: There shall be no Supplementary Exam.	

8.2 The 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.

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

9. Notifying to the staff:

9.1 The controlling officer/supervisor shall give wide publicity of the notification to all the eligible staff of Electrical(TRD) organization of SC division and notification should be displayed at conspicuous place. It is the responsibility of controlling officer/supervisor to circulate the notification among the staff concerned.

9.2 In terms of Railway Board's Lr.No.E(NG)I-72/PM1/166, dated 26.06.1972, CPO/SC's S.C.No.213/72, 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 Sr.DPO/O/SC. 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.

10. How to apply:

- 10.1 The employees should submit the application in the prescribed format through proper channel enclosed as Annexure ' B '
- 10.2 The application should be on good quality of A-4 size using one side only.
- 10.3 They should fill up the application form in their own writing with blue or black ball point pen only.
- 10.4 All relevant columns in the application should be filled completely & strike out the inapplicable columns and forwarded duly signed by the controlling supervisor/officer wherever required or otherwise same will not be considered.
- 10.5 Employee should paste the recent Photograph on the application which shall be attested by the concerned supervisor.



11. Training of the empanelled staff:

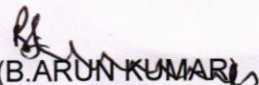
- 11.1 The empanelled staff possessing the qualification of ITI/Course Completed Act Apprenticeship in the relevant trade in the railway establishment may be subject to trade test and those possessing the same may be promoted as Technician -III/TRD(unified wing) in Level-2/GP1900.
- 11.2 If the empanelled staff do not possess the qualification of ITI/Course completed Act Apprenticeship in the relevant trade in the Railway establishment will be imparted training for a period of six months. On completion of the training the staff will be subjected to trade test and such of them as pass the trade test will be promoted as Technician (Trade) in GP ₹.1900/-.
- 11.3 The employees who fail in the trade test will be subjected to the trade test after a gap of six months and they will be promoted if they pass the trade test. Those failing in the trade test so held will be required to appear in the selection afresh as and when held. They will not, however, be required to be subjected to training again.

12. Last date for submission of Applications :

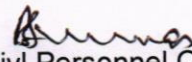
The willing and eligible volunteers have to submit their applications in prescribed proforma to their controlling supervisors on or before **10.04.2019** who will forward the applications in one bunch to the controlling officer on or before **12.04.2019**. The controlling officer has to forward all the applications in one bunch to Sr.DPO/O/SC together with DAR/SPE/Vig.clearance on the same date as they received.

Encl:

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


(B.ARUN KUMARI)
DPO-I/SC
for Sr.Divl.Personnel Officer/SC

C/- Divisional Secretaries of recognized unions


for Sr.Divl.Personnel Officer/SC

SYLLABUS FOR THE POST OF TECH-III(UNIFIED WING) FOR LDCE SELECTION

(OHE): -

1. Different systems of OHE.
2. Various OHE foundations.
3. Various masts/portals.
4. Lay out plan and its details.
5. SED and its details.
6. Cantilever assembly.
7. Regulating equipment and its functioning, adjustment, and its X & Y values
8. Stagers, heights and profile parameters of OHE
9. Overlaps, types and drawings.
10. Neutral sections.
11. Section insulators.
12. Isolators
13. Gantry and cross feeders
14. Bonding and earthing
15. Sectioning of OHE, Feeding Zone, sector, subsector, elementary section etc.
16. Longitudinal protection and Transverse protection.
17. Ladder trolley protection.
18. OHE maintenance Schedules.
19. Action plan & SMIs.
20. Tower car checking.
21. Points to be checked at Turnouts and Crossovers as per SMI.
22. Foot Patrolling(tools, spares required and points to be checked).
23. Various types of bonds and their usage.
24. Different types of Jumpers and their usage.
25. Various warning boards and their usage.
26. Clearances(working clearance, long time clearance, short time clearance, standard 25 KV live to earth).
27. Abbreviations :

a)PTW	b)SSP	c)SP	d)BM	e)SM
f)RDSO	g)SED	h)LOP	i)SWR	j)ACC
k)ACA	l)BWA	m)FTA	n)SEJ	o)SRJ
p)TSS	q)SPI	r)SMI	s)RRA	t)OOR

28. Conductors, Characteristics, sizes and their usage in OHE.
29. PTW messages and protection involved.
30. Understanding of tools and plants and their usage.
31. Understanding OHE spares and their usage and requirements.
32. Types of typical breakdowns and their attention.
33. Safety precautions while working in OHE.

Approved
 श्रीमान्
 वरिष्ठ मंडल विद्युत इंजीनियर (क.वि.)
 दक्षिण मध्य रेलवे, सिकंदराबाद.
 Sr. Divisional Electrical Engineer (TRD)
 S.C. Railway, Secunderabad.

PSI: -

1. TRACTION SUB-STATIONS:

- i. Schematic Arrangement
- ii. Equipment and importance with its rating.
- iii. Protection of power transformer, OHE & Capacitor bank.
- iv. Importance of Preventive Maintenance and various schedules adopted for PSI equipment.
- v. Battery & Battery charges.
- vi. Earthing & Bonding and its importance.
- vii. Need for capacitor banks and its importance.
- viii. Control & Relay panels, AC & DC Distribution boards.
- ix. Buried rail importance & its importance.
- x. Fuses and its importance, HRC fuses.

2. Switching stations:

- i. SP/SSP importance.
- ii. BMS- importance of usage as bridging, sectioning and paralleling.
- iii. Schematic arrangement.
- iv. Battery & Battery charges.
- v. Earthing & Bonding in Switching stations.

3. Auxiliary transformers:

- i. Importance of ATs in 1 ϕ , 25 KV, 50 Hz traction.
- ii. Various capacities of ATs and its maintenance schedules.
- iii. Dropout fuses, capacities and replacement of DO fuse.
- iv. Earthing of AT, combined earth resistance and bonding.

4. Schedule maintenance of different PSI equipment, pre-monsoon and special checks.

5. Failures of PSI equipment and preventive measures.

6. Various instruments used in PSI applications and their usage like Multi-meters, Meggers and earth Meggers, Thermovision Camera, cell tester. AC & DC measurements.

7. TPC working, log sheet maintenance, Remote control and RTUs.

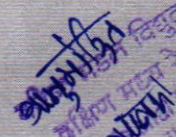
8. 25 KV working clearance, safety, importance of fire extinguishers and its usage.

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 S.C. Railway, Secunderabad.

तकनीशियन III (ओएचई) के लिए पाठ्यक्रम

- 1) ओएचई के विभिन्न सिस्टम
- 2) विभिन्न ओएचई फाउंडेशन्स
- 3) विभिन्न मास्ट/पोर्टल
- 4) ले आऊट प्लान और उसका विवरण.
- 5) एसईडी और उसका विवरण.
- 6) कैंटिलीवर एसेम्बली
- 7) रेग्युलेंटिंग उपस्कर और उसका कार्य, समंजन और उसके x & y मूल्य
- 8) स्टैगर्स, ऊंचाई और ओएचई के प्रोफाइल मापदंड
- 9) ओवरलैप, टाइप्स और ड्राइंग्स
- 10) न्यूट्रल सेक्शन
- 11) सेक्शन इन्सुलेटर्स
- 12) आइसोलेटर
- 13) गैट्री और क्रास फीडर
- 14) बांडिंग और अर्थिंग
- 15) ओएचई, फीडिंग ज़ोन, सेक्टर, सबसेक्टर, एलिमेंटरी सेक्शन आदि की सेक्शनिंग.
- 16) लॉगिट्यूडिनल सुरक्षा और ट्रान्सवर्स सुरक्षा
- 17) लैंडर ट्राली सुरक्षा
- 18) ओएचई अनुरक्षण शेड्यूल
- 19) कार्य योजना और एसएमआई.
- 20) टावर कार जांच
- 21) एसएमआई के अनुसार टर्नआऊटों और क्रासओवरों पर जांच किए जानेवाले पाइंट
- 22) फुट पेट्रोलिंग (आवश्यक औज़ार, पुरज़े तथा जांच किए जानेवाले पाइंट)
- 23) विभिन्न प्रकार के बांड और उनका उपयोग
- 24) विभिन्न प्रकार के जंपर और उनका उपयोग
- 25) विभिन्न चेतावनी बोर्ड और उनका उपयोग
- 26) क्लियरन्स (वर्किंग क्लियरन्स, लॉग टाइम क्लियरन्स, शार्ट टाइम क्लियरन्स, स्टैंडर्ड 25 KV लाइव टू अर्थ).
- 27) संक्षिप्तिः

a) PTW	b) SSP	c) sp	d) BM	e) SM
f) RDSO	g) SED	h) LOP	i) SWR	j) ACC
k) ACA	l) BWA	m) FTA	n) SEJ	o) SRJ
p) TSS	q) SPI	r) SMI	s) RRA	t) OOR
- 28) कंडक्टर, विशेषताएं और ओएचई में उनका उपयोग
- 29) पीटीडब्ल्यू संदेश तथा उसमें शामिल सुरक्षा
- 30) औज़ार और संयंत्रों को समझना तथा उनका उपयोग
- 31) ओएचई पुरज़ों को समझना और उनका उपयोग तथा आवश्यकताएं.
- 32) विशेष ब्रेकडाउनों के प्रकार तथा उन्हें ठीक करना.
- 33) ओएचई में कार्य करते समय संरक्षा पूर्वोपाय.


 श्री. डिवीशनल इलेक्ट्रिकल इंजीनियर (स.वि.)
 श्री. डिवीशनल इलेक्ट्रिकल इंजीनियर (TRD)
 S.C. Railway, Secunderabad

पीएसआई ग्रेड-III तकनीशियनों के लिए पाठ्यक्रम

(I) कर्षण उप-स्टेशन:

- (i) स्केमैटिक व्यवस्था.
- (ii) उपस्कर और उसकी रेटिंग के साथ महत्व.
- (iii) पावर ट्रान्सफार्मर, ओएचई व कैपेसिटर बैंक की सुरक्षा.
- (iv) निवारात्मक अनुरक्षण तथा पीएसआई उपस्कर के लिए अपनाए गए विभिन्न शेड्यूलों का महत्व..
- (v) बैटरी और बैटरी चार्जर.
- (vi) अर्थिंग और बांडिंग तथा उसका महत्व.
- (vii) कैपेसिटर बैंकों की आवश्यकता तथा उसका महत्व.
- (viii) कंट्रोल और रिले पैनल, एसी व डीसी वितरण बोर्ड.
- (ix) बरीड रेल महत्व और उसका अनुरक्षण.
- (x) फ्यूज तथा उसका महत्व, एचआरसी फ्यूज.

(II) स्विचिंग स्टेशन:

- (i) एसपी/एसएसपी का महत्व.
- (ii) बीएमएस- ब्रिजिंग, सेक्शनिंग और पैरललिंग के रूप में बीएमएस का महत्व.
- (iii) स्केमैटिक व्यवस्था.
- (iv) बैटरी और बैटरी चार्जर.
- (v) स्विचिंग स्टेशनों में अर्थिंग और बांडिंग.

(III) सहायक ट्रान्सफार्मर:

- (i) 1Ø, 25KV, 50 Hz कर्षण में एटीएस का महत्व.
- (ii) एटीएस और उसके अनुरक्षण शेड्यूलों की विभिन्न क्षमताएं.
- (iii) ड्रापआऊट फ्यूज, क्षमताएं और डीओफ्यूड का रिप्लेसमेंट.
- (iv) एटी की अर्थिंग, समंजित अर्थ रेजिस्टन्स और बांडिंग.

(IV) विभिन्न पीएसआई उपस्कर का शेड्यूल अनुरक्षण, पूर्वोपाय और विशेष जांच.

(V) पीएसआई उपस्कर की खराबियां और निवारात्मक उपाय.

(VI) पीएसआई एप्लिकेशनों में प्रयुक्त विभिन्न उपकरण और उनकी उपयोगिता जैसे मल्टि-मीटर, मेगर्स और अर्थ मेगर्स, थर्मोविजन कैमेरा, सेल टेस्टर, एसी व डीसी मापन.

(VII) टीपीसी कार्यचालन, लॉग शीट अनुरक्षण, रिमोट कंट्रोल और आरटीयू.

(VIII) 25KV कार्यचालन क्लियरन्स, संरक्षा, अग्निशामकों का महत्व तथा उसकी उपयोगिता.

Annexure-‘B’

Application for Selection to the Post of Technician Gr.III/TRD(unified wing) in Level-2/GP1900 in Electrical (TRD) Organization against 25% LDCE quota(Qualified Staff Quota)

Affix recent
photograph
attested by
their
Controlling
Supervisor

1 Name of the Employee:

2 P.F.A/c No:

3 Designation/Station:

4 Date of Birth:

(In Christian era)

5 Age as on : _____ years _____ 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

e) As Helper/TRD:

f) Date of Regularization as Helper:

g) As Substitute Helper:

h) Date of Regularization of Substitute service:

8 Date of joining from other Division/Dept et., :

9 Total length of service in }
Helper: _____ years _____ months _____ days

10 Educational Qualifications:

(Copies of certificates to be enclosed)

11 Awards conferred during the last three years(Railway Week):

m) Divisional Level(DRM level):

n) Headquarters level/PHOD/HOD:

o) GM/Railway Board's level:

12 Penalties imposed during last three years:

i) Minor:

j) Major:

13 Any other relevant information:

Contd...Page 2-

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/fulfill 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 Technician Gr.III/~~TRD~~ wing of Electrical (TRD) Organization.

Date:

Signature of the Employee:

Station:

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 fulfills the eligibility criteria as stipulated in the notification.

The application is forwarded to Sr.DEE/TRD/SC for further necessary action please.

Date:

Signature of the Controlling Supervisor:

Station:

Name of the Supervisor:

Seal:

Designation:

(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

Station:

Name:

Office Seal:

Designation & Stamp: