

दक्षिण पूर्व रेलवे / South Eastern Railway

कार्यालय / Office of the
मंडल रेल प्रबंधक (का.)
Divl. Railway Manager(P)
रांची / Ranchi

सं० / No. SER/P-RNC/EN/210/LDCE(20%)/JE(T),

दिनांक / Date: 19.10.2023

To,
Sr. DSTE/RNC

अधिसूचना / NOTIFICATION

विषय / Sub: Selection for filling up the post of Junior Engineer(Tele) in Level-6 in S&T Department against 20% (Intermediate Apprentice) LDCE quota of Ranchi Division.

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It is proposed to fill up **01 (UR)** vacancy of Junior Engineer (Telecom) in Level-6 in S&T Department against 20% (Intermediate Apprentice) LDCE quota in S&T Department of RNC Division.

(2) Eligibility and Service Condition of Staff:-

All serving employees having the qualification of ITI/Act Apprentices pass in the relevant trade or 10+2 in Science (Mathematics & Physics) stream with minimum three years of service in skilled grades i.e. Technicians(Tele) in S&T Department of RNC division.

In terms of Railway Board's letter No. E(NG)/I/99/PM7/17, dated 25.08.2003, the qualification of ITI/Act Apprenticeship should be in trades relevant for eventual absorption in the category for which the selection is conducted i.e. trades relevant to the post of Junior Engineer(Tele).

In terms of Railway Board's letter No. E(NG)/I/99/PM7/17, dated 28.07.2003, if the employee otherwise eligible and possessing the qualifications of Degree or Diploma in the relevant branch of Telecom Engineering is also be eligible to volunteer to appear in the selection for induction as Intermediate Apprentices along with those with the qualification of ITI/Act Apprenticeship or 10+2 (Science Stream).

The upper age limit of volunteering staff should be below the age of 47 years. (Estt. Srl. No. 107/2011)

In terms of Railway Board's letter No. E(NG)I/2005/PM1/52, dated 22.08.2006, (RBE No. 117/2006), CPO/SER's Estt. Srl. No. 153/06, the cut of 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 age and educational qualification and other service conditions as on the date of notification i.e. **19.10.2023**.

Note :- Employees who came on transfer in bottom seniority, service rendered in the old unit will also be reckoned for determining eligibility whenever a minimum length of service is prescribed as a condition for promotion subject to condition that the service so allowed to be counted does not exceed the length of service of the their immediate senior in the new unit. The benefit of counting of service will be applicable only in those cases where the staff join the new unit. The benefit of counting of service will be applicable only in those cases where the staff join the new unit on request transfer in the same category of posts [Authority CPO/SER's Estt. Srl. No. 55/2006].

(3) Mode of Selection :

Professional ability (Written test):- Professional ability of the employees in the field of selection will be adjudged through written test only. The candidate must secure minimum of 60% marks in professional ability for being considered for further selection process of perusal of service record. The post of Junior Engineer (Telecom) in S&T Department 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 test.

(Authority :- Railway Board's letter No. E(NG)I/2000/PM1/41, dated 20.08.2003, CPO/SER's Estt. Srl. No. 182/2003 & Estt. Srl. No. 122/2003)

Record of Service :-Record of service will be assessed based on entries in the Service Book/Personal file regarding academic/technical qualifications, awards/punishment.

Distribution of Marks :-

Factor/Heading	Maximum Marks	Qualifying Marks
Written Test	50	30
Record of Service	30	18
Total	80	48

The distribution of 30 marks for record of service is as follows :-

APAR - 15 Marks :- Maximum 15 marks will be allotted for APARs, whereby 5 marks of Outstanding, 4 marks for Very Good, 3 marks for Good, 2 marks for Average and Nil for below average for each of last 3 years APARs (Authority :-PCPO/SER's Estt. Srl. No. 177/02 & 266/99)

Service Record - 05 Marks :- The base marks under this heading will be taken as 3 for all candidates. Further as per SER Estt. Srl. No. 177/02 & 266/99 Award and merit certificates will be taken. For major penalty during the 3 years under consideration, 01 marks 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 5 marks.

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

Sl. No.	Educational Qualification	Marks
1.	Post Graduation/Masters Degree	10
2.	Degree in Engg/Graduation/Hons. Degree	09
3.	H.S. /10+2/Diploma	08
4.	Matriculation/10th Pass/ITI	07
5.	Below Matriculation	06

(Authority :-PCPO/GRC's Lr. No. SER/P-HQ/Ruling/0/963, dtd 23.03.2023)

(4) Syllabus & Model Question Bank:

The syllabus for selection to the Post of Junior Engineer (Tele) against 20% LDCE quota is enclosed as **Annexure-II**.

Model Question bank may be downloaded from the official website of ser.indianrailways.gov.in—Ranchi Division.

(5) Procedure for drawal of Panel :-

The final panel shall be drawn in the order of merit based on aggregate marks of "Professional ability (Written Test)" and "Record of service" since the zone of consideration is not confined to three times the number of staff to be empanelled and candidates being called from different seniority/different categories/different sub-department/with the same department, as the case may be. However, a candidate must secure a minimum of 60% marks in the 'Professional ability' and 60% marks in the aggregate for being placed on the panel and final empanelment is subject to the availability of vacancies. There will be no classification of candidates as "Outstanding". [Authority:-Railway Board's Lr. No. E(NG)I-2008/PM7/4 dated 19.06.2009 (Estt. Srl. No. 132/2009)]

There will be no provision of ad-hoc promotion under "Best among the failure scheme" for reserve categories candidates against reserve vacancies. (Authority:-PCPO/SER's Estt. Srl. No. 69/2020)

All the willing employees have to pass the medical examination in **A3 (Aye three)** medical standard.

(6) Procedure of written examination :

In terms of Railway Board's Lr. No. E(NG)I/2018/PM1/4 dtd 14.12.2018 (RBE No. 196/2018), PCPO/SER's Estt. Srl. No. 73/2019, the written examination consists of 100% objective and all the questions will be multiple choice only.

There shall be negative marking of incorrect answers. 1/3rd of marks allotted for each question will be deducted for wrong answers.

It is advised to the employees that no corrections of any type to objective type answers will be permitted. In case any correction is made that answer shall not be evaluated at all and zero marks will be given for answer having following tantamount to correction:-

- (a) Cutting,
- (b) Overwriting,
- (c) Erasing,
- (d) Scoring off a ticked answer in multiple-choice and ticking another answer, and
- (e) Modifying the answer in any way.

The written examination will be conducted on computer based test OR OMR sheets.

The duration of written examination will be 90 minutes (Estt. Srl. No. 129/2019).

The question paper will be in Bi-Lingual i.e. English and Hindi.

(7) Date of examination and supplementary Written Examination :-

The date, venue and time of examination will be intimated separately. The employees may also note that no supplementary test will be held in any circumstances since it is against LDCE and the volunteer being called from different seniority/different category.

Pre-selection coaching: Since there is only unreserved vacancy hence no pre-selection coaching will be provided to SC/ST candidates coming under zone of consideration.

(8) Notifying to the staff:

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 on due course in respect of the selection should invariably be intimated to all the eligible employees. In case on 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 not be excused.

(9) Training of the empanelled staff :

As per Railway Board's Lr. No. E(MPP)/2019/3/50, dated 05.06.2020 (RBE No. 42/2020), the empanelled staff will have to undergo training for a period of 34 weeks at Institutional and in the shop floor. During the training period they will be tested periodically like regular Trainee Junior Engineer(Telecom). If any of the Intermediate Apprentice does not make satisfactory progress or does not show promise for improvement, he will be reverted to his original post.

In-service candidates appointed as apprentices against Intermediate Apprentice quota will be governed by the provisions of Rule 1311 (FR-20) R-II (1990-reprint). During apprenticeship, they will be eligible for all allowances and privileges (including TA/DA & PLB) on the basis of their substantive cadre pay of the post before being sent on training. [RB's Lr. No. PC/IV/2006/MISC/5, dtd 17.04.2006 (Estt. Srl. No. 74/2006)]

(10) Absorption:-

On successful completion of the training period, they will be absorbed against the working post of Junior Engineer(Telecom) in Level-6 in pay matrix in the S&T Department subject to availability of vacancies.

(11) How to apply:-

The employee should submit the application in prescribed format proper channel as Annexure-I

The application should be on good quality of A-4 size paper using one side only.

They should fill up the application in their own writing with blue or black ball point pen only. All relevant column in the application should be filled completely & strike out the inapplicable columns and forwarded duly signed by the controlling supervisors/officer, otherwise the same will not be considered. The candidate should necessary fill all the relevant column and strike out the inapplicable columns indicating as 'NA'.

(12) Last date for submission of Applications:-

The willing and eligible volunteer has to submit their application/willingness in prescribed proforma (enclosed in Annexure-I) to their controlling supervisor on or before 18.11.2023 who will forward the application in one bunch to the controlling officer on or before 23.11.2023. The controlling officer has to forward all the applications in one bunch to Sr. DPO/RNC together with DAR/SPE/Vig. clearance on or before 28.11.2023.

Incomplete applications, application received after the last date shall be summarily rejected without any advice.

The Administration reserves the right to incorporate any subsequent change/modification/addition in the term & condition, if any, in due course and such decision will be final and binding on all.

Note: If any candidate is subsequently found ineligible for the above selection at any stage his/her candidature will be rejected without assigning any reason.

The contents of this circular may be given wide publicity.

Encl:- Annexure – I & Annexure – II.

**ALOK
KUMAR
RAY** Digitally signed
by ALOK KUMAR
RAY
Date: 2023.10.19
18:16:26 +05'30'

(Alok Kumar Ray)
Assistant Personnel Officer
for DRM(P)/Ranchi

Copy for information and necessary action to:-

DSTE(Project)/RNC, ADSTE(Con)/RNC.

DC/SERMU/RNC DS/AIOBCREA/RNC Representatives of NFIR & AISCTREA/RNC

All Supervisor/SSEs/Tele Notice Board.

Ch. OS/Confidential :-He is requested to kindly form a selection committee for conduct selection for the post of Junior Engineer(Telecom) against 20% LDCE quota.

for DRM(P)/Ranchi

दक्षिण पूर्व रेल / South Eastern Railway
रांची मंडल / Ranchi Division

Annexure – I

Application for selection to the post of Junior Engineer (Tele) in Level-6 (GP 4200) against 20% LDCE quota in S&T Department of RNC division (Intermediate Apprenticeship Quota)

i. Name :

ii. Emp. No.....HRMS ID.....

iii. Designation/Station :

iv. Date of Birth :

v. Age as on **19.10.2023** :yrs.....months.....days

vi. Community : (UR/SC/ST)

(Write the relevant community in the box)

Affix recent
photograph
attested by
controlling
supervisor

vii. Date of initial Appointment/Promotion/Station/Unit/Dept./Divn./Rly.

Tech Gr.-III/Tele	Tech Gr.-II/Tele	Tech Gr.-I/Tele	Sr. Tech/Tele

viii. Educational Qualification (Certificate to be attached with self attested):

Sl	Qualification	Division & %	Year of passing	Subject/Trade
1	Matriculation			
2	10+2 (in science stream)			
3	Technical (ITI/Act Apprentice/ Diploma/ Degree)			

ix. Mobile No. (for communication) :

Note: Only those qualifications which fulfill the criteria for being entered in Service Record and qualification acquired as per Railway Norms.

I hereby declare that the particulars furnished above are true, complete and correct to the best of my knowledge and belief. In case, any of the information is found to be incorrect or materially deficient, my candidature may be cancelled at any stage or/and I may be taken up under D&A rules. In the event of my empanelment to the post, I will not seek voluntary reversion to my former post for any reason.

Date :

Signature of the applicant

(For use of the Controlling Supervisor of the employees)

Date :

Station :

Signature of Controlling Supervisor

Name :

Designation :

(For use of the Controlling Officer of the employees)

Date :

Counter signature of the Controlling Officer

with Designation and office seal

Syllabus for JE(Tele) 20%	
1. Power Plant	<ul style="list-style-type: none"> a. Power supply requirements of various Telecommunication installations (OFC hut, EXCHANGE, Control office, Way side station, etc.) such as AC power supply distribution arrangements, DC power plant system, i.e Number of Battery Bank & Mode of Operation, type and Capacity of Battery and Load requirement. b. Basic knowledge of Secondary cells LA, VRLA, Nickel Cadmium cells and other rechargeable cells, their advantages and disadvantages. c. Maintenance and of Secondary cells, initial charging, float charging, trickle and boost charging of secondary cells. d. Different types of battery chargers used, conventional and SMPS based and Voltage stabilizers. e. Standby power supply arrangements like UPS, Sole power Supply arrangements, Generators and its applications. f. Requirement of power supply room(s) and Records and Reports to be maintained.
2. Train Traffic control system	<ul style="list-style-type: none"> a. Circuits of various types of control communication including those used electrified areas. 4W/2W control telephones, Emergency portable field telephones, installation, maintenance and diagnostics and testing in electrified and electrified areas. b. HQ control office equipment including DTMF signaling equipment. c. Way station selective calling DTMF equipment. d. Control Patching arrangements, control communication over OFC. e. Different types communication systems in use for mid section LC gates and their power supply requirements. f. Communication for IBH. g. VoIP based Train control communication system
3. Line Plant practice	<ul style="list-style-type: none"> a. Code of practice of various types of underground cables like PIJF multi pair, quad cables and their jointing procedure. b. Cable laying practices and protection arrangements while crossing Track, Roads, Water logging areas, culverts and bridges. c. Periodical tests and measurements of underground cable and maintenance practice.
4. OFC and Digital Multiplexing	<p>Basic concepts of</p> <ul style="list-style-type: none"> a. OF cable construction, laying, splicing, termination practices. b. Installation, maintenance of OFC and system design concepts. c. PDH and SDH digital multiplexing techniques. d. Various Digital Multiplexing equipment used for PDH and SDH. e. NMS, path protection arrangements.

5. Telephone exchanges	Basic knowledge of <ol style="list-style-type: none"> Working principles Different type of exchanges like ISDN, WLL etc for various applications and inter exchange connectivity in Railways. Protective arrangements and line termination devices used in exchanges. Knowledge of different types of telephones using Digital, DECT, DKT and FCT/FWP etc. IP Telephony & NGN. Use of open source "Asterik" software for exchanges.
6. Passenger Information systems	Basic Knowledge of <ol style="list-style-type: none"> Interactive Voice Response System (IVRS) Basic concepts and functioning of P.A System items- Amplifier, Horn, Loud Speaker Box etc. Prerecorded Announcement and Auto Announcement System. Train Indicator, Coach Guidance System, At a glance board and their related system hardware and software. Basic concepts of PIS, IP Based IPIS system. Clocks-Analogue, Digital and GPS based. POET, interactive Touch Screen systems etc.
7. Video surveillance systems	Basic Knowledge of <ol style="list-style-type: none"> Hardware and software requirements like different type cameras, servers, backup and NMS. Installation and maintenance of IP based video surveillance systems, Video conference systems and their networking.
8. Data communication	Basic Knowledge of <ol style="list-style-type: none"> Data communication equipment like, hubs, Switches, Routers, LAN extenders, media converters, Modems ADSL, Wi-Fi devices, GPON-OLT & ONT etc. Concepts of IP networking of UTS/PRS, FOIS, RAILNET, DATA LOGGERS. Concepts of Voice logging facilities for various applications. Cyber security.
9. Accident communication	<ol style="list-style-type: none"> Communication at accident site Minimum essential Equipment provided in ART/ARME
10. Radio communication	<ol style="list-style-type: none"> Analog and Digital VHF Uses of VHF Frequencies used in Railways
11. LTE(Long Term Evolution)	<ol style="list-style-type: none"> Introduction
12. IP-MPLS	<ol style="list-style-type: none"> Introduction
13. Protection of telecom	<ol style="list-style-type: none"> Principle of protection Components of protection system & installation. Lightening arrester, Earth electrode, Earth termination etc. Earthing of cables

equipments against lightning	e. Protection arrangements for different telecom installations from lightning. Different types of Earthing arrangement in practice, maintenance and precautions to be observed during monsoon.
14. Establishment Rules	a. Establishment matters of day to day nature including Leave rules, Pass rules, Muster Sheets, DAR, Payment of wages act, Workman compensation act, HOER, preparation of rosters for workers.
15. General	<p>a. The Official Languages (Use for Official Purpose of the Union) RULES, 1976.</p> <p>b. Imprest stores, Monthly stores returns, preparation of Indents stock and non-stock, Materials at site account, Daily Transaction Register, Returned stores, S 1313/S 1319 requisition and issue note, works estimates Tool and Plant for maintenance.</p>
