

Modern Coach Factory, Rae Bareli

Office of the
General Manager (P)

NOTIFICATION

Sub : Formation of panel for promotion to Group 'B' post of Assistant Signal and Telecommunication Engineer (ASTE) in S&T Department against 70 % Selection quota.

Railway Board has decided to hold Centralised Computer Based Objective Type Test (CBT) to form a panel for promotion to Group 'B' posts of Assistant Signal and Telecommunication Engineer (ASTE) in S&T Department through (70% Selection quota) by calling volunteers from amongst those fulfilling the eligibility conditions. The details are as under: -

(A) For 70% quota through Selection

1. Assessment Period -- 01.01.2023 to 31.12.2024 (Upto 30.06.2025)

2. No. of Vacancies -- **01 (01 UR)**

3. Acknowledgment & Willingness of Eligible Candidates:

3.1 The controlling officer should ensure that copy of this Notification is delivered to each of the candidates listed in the enclosed Annexure 'A' and Annexure 'B' and their willingness/unwillingness in prescribed Proforma (Annexure-'C') which should be sent to SPO/Gaz. within 15 days time i.e. upto **30.12.2022**.

3.2 All the candidates listed in Annexure- 'A' are required to indicate/submit their willingness or unwillingness to appear in the selection within 15 days i.e. upto **30.12.2022** in the Proforma given in Annexure 'C' to their concerned officers, who in turn will forward the same to SPO/Gaz. It is the candidate's responsibility to advise the willingness to appear in the selection within the prescribed period and failure to respond or provide intimation will be treated as unwillingness on his part to appear in the selection and in their place, the candidates from the reserve list will be invited to appear in the said selection.

The candidates listed in the reserve list given at Annexure-B, are also requested to submit their willingness in the prescribed format (Annexure- 'C') and keep themselves ready to appear in the selection test, if asked.

3.3 In case any of the eligible candidates has been transferred to any other organization or proceeded on leave or on deputation and on transferred retaining their lien, a copy of this Notification must be delivered to him immediately and acknowledgment may be obtained and send to this office.

4. Condition of Eligibility

Gr. 'C' categories of employee listed below working in Pay Band-2 (Rs.9300-34800) with Grade Pay of Rs.4200 and above with three years of non-fortuitous service in the grade as on 01.01.2023 (including non-fortuitous service rendered in the corresponding pre-revised grades) are eligible to volunteer for the selection.

4.1 The employees who fulfil the following eligibility criteria can apply for the selection. The eligibility conditions should have been fulfilled as on 01.01.2023.

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- 4.2 All supervisory staffs in Gr. 'C' of S&T Department are eligible as per integrated seniority.
- 4.3 List of eligible Candidates for 70 % Quota along with reserve list are enclosed herewith as annexure- 'A' & 'B' respectively.

5. Scheme of the Examination and Qualifying Marks: -
{Authority No. E(GP)2018/2/31 dated 19.03.2019 & E(GP)2022/2/4 dated 07.10.2022}

- 5.1 The written examination will comprise of One Paper which will have 100% Objective type Multiple Choice Questions only.
- 5.2 The duration of the examination will be 02 (Two) hours or as notified by the NAIR, the nodal agency to conduct the CBT.
- 5.3 All Objective type Multiple Choice Question will carry equal marks.
- 5.4 **There shall be negative marking for incorrect answers. One-third of the marks allotted for each question will be deducted for every wrong answer.**

Paper	Maximum Marks	Qualifying Marks
Professional Subject including optional question of 10 marks on Official Language Policy & Rules	70 Marks	60 Marks with relaxation as per extant rules
Establishment & Financial Rules	30 Marks	

Note: The employees securing qualifying marks in the written examination will be eligible to be sent for medical examination. Only those employees who are certified fit for the prescribed medical examination will be allowed to appear for Viva-Voce.

Records of Service and Viva-Voce: -
{Authority No. Para 10.2 (B) of Master Circular 68}

Detail of Exam	Maximum Marks	Qualifying Marks
Viva-Voce	25	30 including at least 15 marks in the record of service.
Record of Service	25	

6. Syllabus: -
{Authority No. E(GP)2022/2/4 dated 07.11.2022}

The syllabus for the written examination is enclosed as '**Annexure-D**'.

(B) For 30% LDCE quota.

7. **Assessment Period** -- 01.01.2023 to 31.12.2024 (Upto 30.06.2025)
8. **No. of Vacancies** -- Nil

9. SUBMISSION OF APPLICATION:

- a. It should be ensured that wide publicity is given to this notification amongst all the staff concerned. It is the personal responsibility of Controlling Officers of the units to ensure that the notification reaches to all the eligible employees in time.

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- b. Applications in the prescribed Performa (Annexure – ‘C’) for 70% Selection quota is invited from the volunteers who fulfil the eligibility conditions as on 01.01.2023 as detailed above.
- c. Applicants should fill all the columns in the application form.
- d. The applicants should put their signature with date on the application form.
- e. The filled in applications duly forwarded by their controlling officer should be submitted to Personnel Department latest by **30.12.2022**.
- f. Applications of those candidates who fulfil the eligibility conditions should only be forwarded.
- g. If any employee is holding an ex-cadre post, details of his post in regular cadre with grade and date of entry on regular measure should be furnished.

NB : - Tentative date of written examination for 70% Selection Quota is 22.01.2023 and 29.01.2023 (Supplementary).

Please acknowledge the receipt of this notification.

Encl: As above.

No. MCF-RBL0PERS(Gaz.)/7/2022-O/o DY CPO/MCF
Dated 15.12.2022

(Dr. A. K. Yadav)
Sr. Personnel Officer/Gaz.
For General Manager (P)

Copy to : for kind information and necessary action please.

1. Secy to GM/MCF/RBL | For kind information to GM.
2. CME/IT, Dy. CME/IT & S&T MCF/RBL | For kind information.
3. All staff concerned |
4. Steno-I to PCPO: For uploading on the website of MCF/RBL.
5. Ch. OS/NG-I: For information of those candidates who are on deputation.
6. All Notice Boards.

MAIN LIST

Probable Main List of Candidates under zone of consideration for selection to the post of ASTE in S&T Department, in Pay Matrix, Level-8 (GP 4800/-) against 70% Promotion Quota.

Ref : Notification No. MCF-RBL0PERS(Gaz.)/7/2022-O/o DY CPO/MCF Dated : 15.12.2022

SN	EMP NO	NAME OF EMP (S/SHRI)	FATHER'S NAME (S/SHRI)	DESIG.	CAT.	DOB	DOA/DOP IN JE/ LEVEL-6	DOA/DOP IN SSE/ LEVEL-7	Remarks
1	52000050033	MANOJ KUMA KANOIJIA	RADHEY SHYAM KANOIJIA	SSE	SC	24-02-1976	16-10-1998	22-06-2015	
2	52000050160	JAI PRAKASH BHARTI	RAM LAKHAN	SSE	SC	10-05-1977	---	19-05-2009	
3	52000050279	SANDEEP PAL	MANGE RAM PAL	SSE	OBC	17-12-1986	---	14-02-2013	
4	52000050086	RAJ KUMAR SRIVASTAVA	LT. A. P. SRIVASTAVA	SSE	UR	05-03-1967	12-11-2009	26-11-2014	
5	52000050250	SANTOSH KUMAR MAURYA	JAWAHAR LAL MAURYA	SSE	OBC	15-01-1979	21-11-2006	30-06-2018	

RESERVED LIST

Probable Reserve List of Candidates under zone of consideration for selection to the post of ASTE in S&T Department, in Pay Matrix, Level-8 (GP 4800/-) against 70% Promotion Quota.

Ref : Notification No. MCF-RBL0PERS(Gaz.)/7/2022-O/o DY CPO/MCF Dated : 15.12.2022

SN	EMP NO	NAME OF EMP (S/SHRI)	FATHER'S NAME (S/SHRI)	DESIG.	CAT.	DOB	DOA/DOP IN JE/ LEVEL-6	DOA/DOP IN SSE/ LEVEL-7	Remarks
1	52000050175	DINESH KUMAR	ARJUN SINGH	SSE	OBC	08-01-1986	07-05-2008	11-04-2022	
2	52000050245	RAVI RANJAN KUMAR	LT. RANJIT PRASAD SINGH	JE	UR	16-11-1979	24-12-2010	---	

PROFORMA

To,

**SPO/Gaz.,
MCF/RBL.**

Sub: Application for appearing in the written examination for selection to the post of
ASTE, in Pay Matrix Leve-8 (G.P.-4800/-) against 70% Selection Quota

Ref :- Notification No. [MCF-RBL0PERS\(Gaz.\)/7/2022-O/o DY CPO/MCF](#)
dated 15.12.2022

I am in receipt of notification No. [MCF-RBL0PERS\(Gaz.\)/7/2022-O/o DY CPO/MCF](#) dated
15.12.2022 alerting me for selection to the post of ASTE in Level-8 {PB Rs.9300-34800+GP
4800/-}.

I declare that I am fulfilling all the eligibility conditions and I shall abide by all the
terms and conditions attached to the selection.

I am **WILLING/ UNWILLING** to appear for the selection.

I am also aware that if I fail to give this declaration, it will be deemed that I am not
willing to appear for the selection.

My Details are given below:-

1. Railway/PU :
2. Name of Post applying for :
3. Name Of applicant :
4. Emp. No./I-Pass Number :
5. HRMS ID :
6. Designation :
7. Mobile No. :
8. Email ID :
9. Place of Posting :
10. Division/Workshop/Unit :
11. Controlling Officer :
12. Date of Birth :
13. Whether the employee belongs
(UR/OBC/SC/ST) :
14. Whether a PwBD requiring scribe :
15. Willing/Unwilling :

Date:
Place:

SIGNATURE OF THE EMPLOYEE

FORWARDED BY THE CONTROLLING OFFICER

Date:
Place:

**Signature of the forwarding officer
with designation and date**

Syllabus for 70% Selection for Promotion to Group 'B' post of ASTE in Signalling & Telecommunication Department

Part – A - Professional Subjects

I. Signalling :

- Basics of Signalling
- Principles of Interlocking, Signal Interlocking Plan, Route holding principles, Table of Control
- Colour Light Signal concepts
- Signalling Elements – Relays, Cables, LED Signals, Point Machines, Track Circuits (DC, AC & AFTC), Axle Counters (SSDAC & MSDAC), Block instruments, Integrated Power Supply, Interlocked Level Crossing Gates and Data Loggers
- Automatic Signalling
- Intermediate Block Signalling, BPAC, UFSBI
- RE Modifications
- Relay Interlocking concepts - Metal to Carbon, Metal to Metal, Panel Interlocking and Route Relay Interlocking
- Electronic Interlocking – Principles, Configuration, Interface logic, Application logic, VDU logic, FAT, SAT, Technical System Approval
- Earthing, Lightning and Surge protection arrangements
- Train Protection Systems – TPWS, Kavach
- Centralised Traffic Control (CTC) , Train Management System (TMS)
- Execution of S&T Infrastructure works – Planning, Execution, CRS sanction, Documentation, Testing and Commissioning

II. Telecommunications –

- Outdoor and Indoor Telecom cable system, jointing procedures, and maintenance and fault localisation methods, laying practices and precaution at work site
- Control Communication, OFC based, VoIP based, Emergency Control Communication, Voice Logger, COA
- Telephone Instruments, Signalling principles of Telephone Exchanges, Automatic, ISDN, and VoIP Telephone Exchanges
- PCM-TDM Principles, PD multiplexers, SDH principles and SDH equipment's
- Modulation techniques and radio propagation
- VHF, UHF, Tetra, GSM-R, LTE-R
- OFC Communication systems, OFC Splicing, Measurements and laying practices
- Data Communication and IP networks, IP-MPLS, Data networks of IR, PRS, UTS, FOIS, TMS, NMS, Wi-Fi at stations, Firewalls/UTM, Cyber security and Wireless security
- Public address system, Passenger information systems and VSS

III. Codes & Manuals

- General Rules

- Railways (Opening for Public Carriage of Passengers) Rules
- Indian Railways schedule of dimensions
- Indian Railway Signal Engineering Manual
- Indian Railway Telecom Manual
- Accident Manual
- Block working Manual
- Extracts of Operating manual for Indian Railways, Indian Railways manual of AC Traction Maintenance and Operation and Indian Railways Permanent Way Manual relevant for Signal & Telecom Engineers

IV. Workshop Practices

- Raw material processing
- Workshop Machines and their utilisation
- Overhauling procedure and practices
- Inspection and testing of components
- Testing procedures of Block Instruments , Relays, Point Machines, IPS, EoLB, Track Feed Battery Chargers, EKTs, Control Panels and Mechanical Items
- RDSO approval procedure and Renewal
- Production Management Plan
- Quality control and Safety Practices
- Calibration of instruments and machines
- ISO/IMS Certification for workshops
- Scrap disposal
- Workshop suspense
- Costing of products
- Incentive schemes

Part-B - Official Language

Official Language - Official Language Policy, Act, Rules, Incentive Schemes etc.

Syllabus for promotion to Group- B posts - 70% selection and 30% LDCE.

Syllabus for Establishment Rules:

1. Organization of the Personnel Department in Railways objectives functions and policies of Personnel Department.
2. Recruitment and Training, Classification of Services, Recruitment in Different services, Railway Recruitment Boards & Railway Recruitment Cells Compassionate Ground Appointments, Initial & In Service Training, Refresher Courses, Central Training Institutes, Training Centers in Zones, Divisions & Workshops, Training Modules for different posts, Training under Apprentices Act, Online Training, APARs.
3. General conditions of service in Railways, Seniority, Lien, Inter Railway & Inter Division transfers, Deputation, Promotion Policy & methods. Selection, Suitability, Trade Tests, Leave Rules, Pass Rules, Joining Time Reservation policy, HOER, Overtime, Payment of wages, current CPC Pay Rules, Advances in Railways.
4. Manpower planning, Rightsizing & Benchmarking, creation, extension and surrender of posts, creation of posts against new assets, different types of posts including workcharged posts.
5. The Railway Servants (Discipline & Appeal) Rules, 1968 and related instructions.
6. The Railway Services (Conduct) Rules, 1966 and related instructions.
7. Retirement benefits, qualifying service, pension, family pension, commutation gratuity, new pension scheme.
8. Staff welfare, SBF, Railway institutes, Railway schools, Ex-gratia payment, Incentive Bouns Scheme, Staff Grievances Redressal Mechanisms.
9. Industrial relations in Railways, recognized trade unions, industrial disputes. The Industrial Disputes Act, 1947. The Industrial Relations Code, 2020. The Trade Unions Act, 1926, PNM, PREM, JCM, Various Associations & Informal Meetings.
10. The Factories Act, 1948. The workmen's Compensation Act, 1923. Functions of Labour Enforcement Officers, Right to Information Act.
11. The scope of Information Technology in Railway e – office. HRMS, IPAS , LIMBS, ARPAN, CPGRAMS, ANUBHAV etc.

Syllabus for Financial Rules:

1. Parliamentary Control over Railway Finance, Public Accountability, Cannons of Financial Propriety.
2. Railway Budget - Budgetary terms, Types of Budgets, Budget cycle, Demand of Grants, Budgetary and Financial Reviews.
3. Rules of Allocation - Classification of expenditure - Control of expenditure - Responsibility Accounting - Performance Budgeting - Exchequer Control - Financial Results of Working lines.
4. Works Programme - Financial justification of Works - Surveys - Preparation of Estimates - Capital Budget - Control over Capital Expenditure - Reappropriation of Funds.
5. Financial control over Stores Expenditure - Purchase and Stores Keeping Procedure - Inventory Control and ABC Analysis.
6. Financial & Cost Control in Railway Workshops/Sheds/Units.
7. Rules and procedure relating to Tenders and contracts for execution of works and Procurement of Stores, M&P Programme and RSP.
8. Procedure for Possessing and finalizing Audit Objections and Draft Paras.
9. Delegation of Powers.
10. Losses, Frauds and Embezzlements.
11. General Financial Rules
12. Government e-Market (GeM)
13. Classification of Railway Revenue (Earnings)
14. Information Technology in general with specific reference to Railway's IT Applications
15. Taxation matters with special focus on GST & Income Tax
16. Organization of CGA and C&AG
17. Any other topic felt necessary from time to time