



दक्षिण पूर्व मध्य रेलवे

South East Central Railway



मुख्यालय, कार्मिक विभाग, प्रथम तल, महाप्रबंधक कार्यालय, बिलासपुर (छ. ग.) 495004

HEADQUARTER, PERSONNEL DEPARTMENT, 1st FLOOR, GM's OFFICE, BILASPUR(C.G.) 495004

No P-HQ/CON/452/S&T-30%/e-65074/8/ 702

Dated 11/11/2022

PCSTE, CSTE (CON) SECR, SDGM/SECR
CSE, CSO, CM (IT), CPO (IR)/SECR, CAO(CON)/BSP
DRM/BSP, R & NGP, CWM/WRS/R, CWM/MIB(WS)/NGP,
Dy CPO (HRD), Dy CPO (HQ), Dy CPO (Con)
CPO /SER/GRC & ECoR/BBS, Director/ IRSET/Secundrabad,

Sub:- Selection for formation of a panel to Group "B" post of ASTE/ADSTE against 30% LDCE (8th Cycle) of S&T department, SEC Railway.

- Ref - 1. Board's letter No E(GP)2022/2/4, Dtd 28/06/2022 and Dtd 04/10/2022 &
2. Board's letter No E(GP)2022/2/4, Dated 18/10/2022

Vide Board's letter under reference-2, It has been decided to introduce Centralized Computer Based Objective type examination (CBT) for conducting 70% DPQ and 30% LDCE quota selections in all departments having organized services from vacancy cycle beginning from 01/01/2023. Accordingly, the CBT Examination against 30% LDCE Quota will be conducted by NAIR/BRC, after finalization of ASTE/ ADSTE 70% DPQ selection (8th Cycle)

Accordingly, in compliance to Board's letter cited above under **Ref. 1 & 2** vacancy assessment for period from 01/01/2023 to 31/12/2024 has been done and it has been decided to hold a selection for formation of a panel to the Group "B" post of ASTE/ ADSTE against 30% LDCE quota is as under

Mode	UR	SC	ST	Total
30% LDCE	01	00	01	02

1. In continuation to the ongoing 70% DPQ Group "B" departmental selection, it is proposed to hold a selection for formation of a panel for the post of ASTE/ADSTE (Group "B") against 30% LDCE Quota. Accordingly, applications from willingness and eligible Group "C" Technical Supervisors /employees having lien in SEC Railway are invited. The date of written test will be intimated later.

2. Eligibility Condition - For Group "B" selection (30% LDCE quota) . Group "C" (Technical supervisory staffs) employees working in PB-2 Rs 9300-34800 + GP Rs 4200/-, Level-6 of VIth CPC and above with 05(five) years of non fortuitous service in grade (including non fortuitous service rendered in the corresponding pre revised grades) as on **01/01/2023** of S&T department will be eligible to participate in the selection [Authority para-3.5, 6.1.1 and 6.3.1 of Master Circular No 68 vide Rly Bd's letter No E(GP)2019/2/5 Dated 08.07.2019 and in terms of RBE No 216/2019 circulated under SECR's Estt. Rule No. 359/2019]

3. **PRE -SELECTION TRAINING** : In terms of letter Board's letter No E(GP)2010/2/39 Dated 28.08.2019 (RBE No 142/2019), Estt. Rule No 248/ 2019, mandatory Pre-Selection would be conducted after receiving of applications/ willingness

4. Scheme of Examination/ Selection Procedure:

In terms of Railway Board's letter No E(GP)2022/2/4, Date 28/06/2022 and Dated 06/09/2022, detailed instructions have been issued regarding conducting of selection for promotions to Group-B posts (introduction of (CBT)) in all departments having organized services. Accordingly, 30% LDCs selection will be conducted through CBT by **DG/ NAIR**, detailed as under.

i. LDC will be one stage only and will comprise of only 1 Paper with the following set up:

(a) Single paper of 150 marks comprising 100 % Objective type Multiple Choice Questions with following distribution of marks.

- | | |
|---|------------|
| (a i) Technical (Professional) subject | : 80 marks |
| (a ii) General Knowledge including optional | : 40 marks |
| Questions of 15 marks on Official language Policy & Rules | |
| (a iii) Establishment & Financial Rules | : 30 marks |
| (b) Qualifying Marks | : 90 |
| (c) Duration | : 03 Hours |

- ii. Question Paper will have 175 questions out of which 150 questions are to be attempted.
- iii. 1 mark will be allotted for every correct answer. There shall be negative marking for incorrect answers and 1 / 3rd of Marks allotted for each question will be deducted for every wrong answer.
- iv. **Syllabus:-** In terms of Board's letter No. E(GP)2022/2/4 dated 07.11.2022, **SECR's Estt. Rule No.308/2022**, a copy of the syllabus for selection is attached as **Annexure-'B'**.
- v. Examination for 30 % LDCs will be held on a single day only. On the same day exam for the post of APO will be held in the second shift so that candidates who have appeared in exam for AMM / ACM / AOM in the first shift and also want to appear for APO can do so in second shift. Similarly, exam for AME and AEE will also be held in different shifts with a gap of 3 hours between both the shifts.
- vi. CBT for 30% LDCs for a particular department for Zones/ PUs will be held on the same day across Indian Railways. Thereafter no request for a supplementary exam shall be entertained in any condition.

5. The selection will comprise of Written/ CBT examination followed by viva-voce test. Only those who qualify in the Written/ CBT examination and pass the prescribed standard of medical examination, in terms of (para-20.1 & 20.2) of Master Circular-68, Dated:08/07/2019 and Board's letters No. E(GP)80/2/8 dated 31/10/91, will be called for the Viva-voce test and without medical fitness certificate candidates will not be eligible for attending viva- voce test.

7. Mode of submission of Applications :

Willing employees fulfilling the eligibility criteria should submit their applications in prescribed Proforma as **Annexure-'A'** (Triplicate) duly forwarded by immediate supervisor/ Officer through proper channel to their respective Personnel Branch Officers concerned viz. Dy.CPOs/Sr.DPO's/DPO's/WPO/SPO (Con)/APO (WS) indicating their willingness to appear in the selection on or before **10/12/2022** and acknowledgement may be obtained. Applications received after **10/12/2022** should not be entertained and summarily rejected. If no application is received by any of the Office /Unit concerned, a certificate should be given to the Personnel department of HQ/Division/Workshop/Unit concerned that no application has been received in their office.

8. **SCRUTINY:** The Personnel Department of the HQ/Division/Workshop/Units will arrange to register the applications received indicating names of the employees of each office who have applied for selection and they should scrutinize the application and verify the eligibility as per the Service Record maintained by them and certify their eligibility or otherwise in the application of each candidate. After scrutinizing the applications HQ/Division/Workshop/Units should forward the list of eligible candidates only alongwith the applications in the prescribed proforma as in **Annexure-'C'**. One copy of application of each employee will be retained in the HQ/

Division/Workshop/Units and one copy should be forwarded to **GAZ(CONF.) Section, PCPO Office, HQ Office**, per bearer along with covering letter and a **Pen-drive** containing all details in soft copy so as to reach Dy CPO/Gaz/SECR on or before **17/12/2022**. While forwarding the applications, Dy CPO/Sr DPO/DPO/SPO/APO should certify that no more applications are left out with them and Concerned Personnel officers are requested to certify (**in Annexure-D**) that all the staff / employees of their Division/ Unit, working on Deputation to other unit are informed well in advance to submit their option/ willingness. List of eligible candidates in **Annexure-'C'**, may also be provided in soft copy. Similar exercise as mentioned in Para above should be done by the Dy CPO/HQ or APO/HQ in respect to the staff of HQ Office.

09. The following may be kept in mind while forwarding the applications by the Division/Unit/HQ in- charge -

- a) Certification of all the particulars by the Personnel Officers/Officer in-charge concerned.
- b) Certification of non -fortuitous service excluding ad-hoc service.
- c) Lien of applicant in Department concerned especially for those on deputation.
- d) Wide publicity is to be given to this and all the subsequent notification on this selection by placing copies on notice Board, Training Centers and all other important places.
- e) Concerned Personnel Officers-in-charge of the Divisions/Units/HQ may co-ordinate and ensure that the notification and all subsequent notification of this selection are circulated in all small units located in their territorial jurisdictions including staff on deputation, training, long sick (PMC/RMC), leave, working in other offices such as RE, Railway Board, RITES, RDSO, KRCL, CRIS, COFMOW, IRCTC etc. . In case any candidate is on leave or on deputation to other Railways/Units or on sick list, the controlling officer concerned should send necessary advice to the authority under whom he is working or the medical authority as the case may be acknowledgement obtained. This may be ensured to avoid any representation later on this issue.
- f) No Supplementary examination is permissible for the absentees in any case.
- g) The Controlling Officers: Dy. CPOs/Sr. DPOs/DPOs/APOs may please ensure that the APARs for the last five (05) years completed in all respects and also the updated Service Records of the candidates who volunteer for the above selection, are available with them in advance to ensure prompt supply thereof to Dy CPO (Gaz) at short notice.

If any employee found ineligible at any stage his/her candidature will be cancelled.

Dy CPOs, Sr.DPOs, DPOs, SPOs & APOs of all concerned may personally ensure displaying of the notification in the prominent notice board of the respective officers of HQ/Divisions/Unit.

The notification is also available on this Railway's web site <http://www.secr.indianrailway.gov.in>.
RECRUITMENT → HQ → GAZ SECTION

All the Divisions/Units & applicants are advised to regularly visit SECR website for any updates in the matter. This notification is being issued as per existing provisions /instructions of selection of Group-B post of ASTE/ADSTE. In case any changes in the existing procedure /instructions are issued by Railway the same will be communicated to all concerned and will be uploaded in the Railway's website in due course.

Receipt of this notification may please be acknowledged.

Hindi version will follow.

DA: As above


(Neeraj Anand)
Dy Chief Personnel Officer (Gaz)
for Principal Chief Personnel Officer

No. P-HQ/CON/452/S&T-30%/e-65074/8/

Dated 11/11/2022

Copy forwarded for information and necessary action to:-

1. Secretary to GM/SECR,
2. Sr DPO/DPO/BSP, R & NGP,
3. Sr DSTE/ BSP, R, NGP, DY.CSTE/CON, DY.CSTE/PROJECT/BSP
4. DY CPO/HRD, DY CPO/HQ , APO/HQ,
5. WPO/WRS/R & APO/WS/MIB/, Principal MDTC/BSP
6. GS/SECRM, GS/SECRPOA, GS/AISC/ST Association/BSP, ZP/SECROBCEA/BSP
7. Notice Board

P. A. S. 11/11/2022
for Principal Chief Personnel Officer

Paste a
photograph
duly attested

PROFORMA for ASTE/ ADSTE 30% LDCE (S&T Department)

1	Name	
2	Father's Name	
3	Present Designation	
4	Present place of posting, i.e. Division/ WS /Station/ Unit,	
5	Community (UR/SC/ST)	
6	Lien holding in Railway, Division and Department	
7	Controlling officer	
8	Date of Birth (DD/MM/YYYY)	
9	Date of appointment	
10	Designation in which initially appointed and scale (Rs.)	
11	Correct IPASS NO. (Eleven (11) Digit)	
12	Latest Email-ID address (must be filled correctly)	
13	HRMS ID	
14	Mobile No.: (Personal and official)	
15	Present Scale in (Vth PC) / G.Pay (VIth PC) / Pay Level (7 th PC)	
16	Date of Regular Promotion or appointment in GP Rs. 4200/- (6 th PC) / Pay Level 6 of (7 th PC)	
17	Date of Regular Promotion or appointment in GP Rs. In GP Rs. 4600/- (6 th PC)/ Pay Level 7 of (7 th PC).	
18	Length of non-fortuitous service in scale Rs. 5000-8000 (5 th PC), PB-2 Rs. 9300-34800, with GP Rs. 4200/- (6 th PC)/ Pay Level 6 of (7 th PC) as on 01/01/2023.	Year.....Month.....Days.....
19	Length of non-fortuitous service in scale Rs.6500-10500/- (5 th PC), PB-2 Rs.9300-34800 + GP Rs. 4600/- (6 th PC)/ Pay Level-7 of (7 th PC) as on 01/01/2023	Year.....Month.....Days.....
20	Any DAR case is pending or otherwise	
21	Whether PwBD requiring SCRIBE (Please indicate only those PwBD staff /employee who are entitled to facility of scribe and additional time).	YES or NO (please tick).

Signature of the immediate supervisor forwarding application Office seal & Date: _____ Signature of the candidates

Forwarded to controlling officer

Forwarded to Headquarter

Signature of Controlling Officer with seal

Forwarded to Dy CPO(GAZ)/SECR. The particulars given by the employee against **column No.1 to 21** have been scrutinized and found correct as per the service record and the above named employee is eligible (✓) / not eligible (✓) to appear for the selection for the post of **ASTE/ADSTE Gr.B) against 30%** quota and it is certified that no Adhoc or fortuitous service has been taken in to account for computing the eligibility as on **01/01/2023**. In case any variation in the service particulars this office shall be held responsible.

Signature and name with official stamp of
Controlling Officer i.e. Personnel Officer of concerned Divn./ Unit



(ANNEXURE-B)

Circulated vide SECR's ESTT. RULE NO.308/2022

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

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



(ANNEXURE-B)

Circulated vide SECR's ESTT. RULE NO.308/2022

Common Syllabus for all Department 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 30% LDCE for Promotion to Group 'B' post of ASTE in Signalling & Telecommunication Department

Part – A - General

I. Current Affairs and General Knowledge

- This section would contain questions of general interest and importance, which is acquired by general observation or reading without specific text book study. Subjects of national importance as well as achievements of Railways are also to be covered. The standard of General Knowledge shall not be more rigorous than Matriculate level.

II. General Mathematics

- Arithmetic and Statistical operations, Graphs, Fractions, Percentage, Sampling & Averages
- Geometry – Areas & Volumes up to Higher Secondary /12th Standard level
- Algebra, Simultaneous Equations etc up to Higher Secondary /12th Standard level

III. Physics & Basic Electricity

- Units & Measurements
- Mechanics – Newton's Law of motion, Velocity & Acceleration, Work, Energy, Power
- Mechanical properties of solids and fluids
- Heat & work, expansion of solids, liquids & gases
- Ohm's law, Coulomb's law, Faraday's Law, Voltage, Current & Resistance, Kirchhoff's Laws, Wet & Dry Batteries, Power Factor
- Fleming's Law, Lenz's Law, Simple Motors & Dynamos, Generators, Principle of working of Transformer, Relay, Fuse, Circuit Breaker
- Semi conductor devices – P-N diode, Transistors, FETs, Applications
- Power supply, AC & DC, Rectifiers

IV. Digital Electronics & Information Technology

- Principles of Digital Electronics – Boolean Algebra, Digital Devices and their applications
- Information Technology – Generations, PC specifications, Operating systems – Windows, Linux and Application Software.

Part – B - 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 precautions 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 equipments
- 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 - C – Official Language

Official Language Policy, Act, Rules, Incentive Schemes etc



ANNEXURE "C"**PROFORMA for ASTE/ADSTE 30% LDCE (S&T Department)**

(To be verified & attested from available records)

1 Sr. No	2 Name	3 Present Designatio n/Station	4 Lien	5 Communit y (UR /SC/ ST)	6 DOB	7 Date of appointmen t & designation, grade to which appointed	8 I-Pass No. (11 Digit)	9 Qualific ation

10 HRMS-ID	11 Present Grade/ Scale GP Rs.4200/-, or GP Rs.4600/-	12 Date of Regular promotion in scale GP Rs.4200/-	13 Date of Regular promotion/ appointment in scale Rs. 6500-10500/- (5 th PC) (pre-revised)/ GP-4600/- (6 th th PC) / Level-7 (7 th PC)

14 MOBILE NO.	15 EMAIL-ID	16 Whether belongs PwBD and requiring SCRIBE (Please indicate only those PwBD staff /employee who are entitled to facility of scribe and additional time).	17 Remarks Eligible/ Not eligible
		Yes / No.	

(*) The above information to be provided to GAZ/CONF/Section, HQ/SECR/BSP in soft copy also. (Pen drive)

Signature of controlling officer/
Concerned Personnel Officer

South East Central Railway

ANNEXURE-'D'

1. This is to certify that the Notification No. P-HQ/CON/452/S&T-30%/e-65074/8/....., Dated 11/11/2022, is circulated to all the candidates who are working on Deputation to other units having lien in this Division or HQ of this Railway well in advance.
2. All the candidates who are on medical sick are also informed through concerned units for their information about the selection to the post of ASTE/ADSTE against 30% LDCE QUOTA.

Signature and name with official stamp of
Controlling Officer i.e. Personnel Officer
of concerned Divn./ Unit

