



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/EL-70%/e-66114/ **513**.

Dated:04/07/2022

AGM, SECRETARY TO GM/SECR, PCEE, CAO/Con, SDGM /SECR
CEDE, CELE, CEGE, SDGM/SECR,
CSO, CAO (Con), CEE (Con), CPO (A)/SECR.
DRM/BSP, R, NGP, CWM/WRS/R & CWM/WS/MIB.
Dy CPO (HQ), Dy CPO (Con). /BSP
GM (P) SER/GRC, GM (P) ECoR /BBS, GM (P) CORE/ALD

Sub:- Selection for formation of a panel of ADEE/AXEE (Gr 'B') against
70% DPQ (8th cycle) of Electrical department in SEC Rly.

It is proposed to conduct a selection for formation of panel to fill up 07 (seven) Group "B" vacancies of ADEE/AXEE against 70% DPQ (8th Cycle), PB 2 Rs.9300-34800, Grade Pay Rs.4800 (VI-PC)/ (Pay Matrix Level-08 of VII PC) from staff having lien in SEC Railway, who may submit their clear written willingness / unwillingness to participate in the above selection. The final zone of consideration and exact date of written test will be intimated later.

Post	Vacancies			
	UR	SC	ST	Total
ADEE/AXEE (Gr "B")	07	00	00	07

1. **Eligibility Criteria:** For Group-B ADEE/AXEE (Gr 'B') against 70% DPQ, Group-C employees i.e. Senior Supervisors (Technical), including running staff of Electrical Department (including running staff of combined seniority in Electrical / Mechanical department) working in grade /scale Rs.5000-8000 (V-PC)/ PB-2 Rs. 9300-34800/- with Grade Pay Rs. 4200 (VI PC) / in Level 6 of VII PC & above in pay matrix (including non-fortuitous service rendered in the corresponding pre-revised grade pay) with 03 years of non-fortuitous service, as on **26/04/2022** are eligible to appear in the Selection, in terms of (RBE No.46/2010), circulated under SECR's Estt. Rule No. 55/2010 and R.B.E. No. 216/2019, circulated under SECR's Estt Rule No. 359/2019.

2 A provisional integrated seniority list, Senior Supervisors (Technical) including Running staff (i.e. Loco Pilots, Mail Exp./ Goods Drivers) of eligible senior subordinates of Electrical department of this Railway, who are eligible to appear in the selection is enclosed as **Annexure-"A" (Main List)**. A standby list, in the order of seniority, is also

enclosed as **Annexure-"B"**, which will be considered based on unwillingness submitted of those eligible candidates who are included in **Annexure "A"**, if any. Prospective candidates are advised to peruse the lists carefully. The eligible candidates are directed to provide relevant information as mentioned in **Annexure-C**, duly certified by the controlling officer and forwarded by concerned Personnel Officer after verifying the same. Further whose name is not included in the said list may also represent through respective controlling officer and concerned personnel officer as per columns indicated in the format as in **Annexure "C"**. While forwarding the names Controlling officers/ respective Personnel officers should ensure that particulars mentioned are verified and certified as correct. The consolidated statement as per **Annexure-D** of such candidates along with the individual applications should be forwarded by the concerned Personnel Officers to this office as per the time limit prescribed in Para (4) of this letter. In case any candidate is found ineligible for the above selection at any stage, his candidature will be summarily rejected. It may be ensured that the applications of candidates working under Construction Organization should be submitted through Dy.CPO/Con/Bilaspur.

3. 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 or inform to the authority under whom he is working or the medical authority /home address, as the case may be, and obtain clear acknowledgement to this effect.

4. In terms of extant instructions, eligible candidates whose names are borne in the provisional integrated seniority list should submit their willingness or unwillingness by 28.07.2022 to the concerned Personnel Officer as per the entries in **Annexure 'C'** and the same should be sent in a consolidated statement as per proforma enclosed in **Annexure 'D'** by the concerned Personnel Officer to the office of PCPO/Gaz/Bilaspur on or before 04/08/2022 along with the individual applications. **It may be noted that for those in scale of Rs.6500-10500/- (Vth PC)/ G.P. Rs.4600/- (VIth PC) / Level-7 (7th PC) and above, seniority in grade Rs.6500-10500/- (Vth PC) will be counted, in terms of extant rules based on willingness received, final zone of consideration list of candidates to be called for the written examination will be prepared.**

5. In terms of Para 8.8 of Master Circular No.68, Date: 08/07/2019, employees constituting the field should be advised individually of the proposed selection with the clear stipulation, that they should on receipt of the notice, submit their clear written willingness /un-willingness to take up the selection. For this purpose, each individual notice should have a counterfoil, which should be returned by the employees within a week of receipt indicating clear willingness or un-willingness to take the selection. The notice should carry a clear indication that it is the employee's responsibility to submit his/ her willingness / un-willingness to take up the selection, and any failure to respond to the same and in providing the required intimation within the time prescribed therefore will be treated as un-willingness on his/ her part to take up the selection. Depending on the position of un-willingness reported or non receipt of any intimation, employees from the **standby list (Annexure-B)** would be called to the extent necessary for taking up the selection.



6. It shall be the duty of the concerned Personnel Officers to cross verify the authenticity of the entries made in the application by the employees before consolidating and forwarding the applications to this office. Where employees figuring in enclosed list have not indicated clear willingness or unwillingness to appear in the selection, suitable remarks accordingly may be indicated against such employees while forwarding the consolidated list to this office. The final zone of consideration will be decided on the basis of 3 X formula (i.e. three times the number of vacancies) in order of seniority amongst the willing & eligible candidates from out of lists in Annexure "A" and "B", which may be further extended to the extent of number of such candidates in the normal zone of consideration who have failed twice in earlier selections as per the extent rules.

7. The concerned controlling officers/ Personnel officer should ensure that the ACRs/APARs for the last five years, complete in all respects, duly updated Service Records and Personal File of the candidates appearing in the selection are kept ready so as to ensure their prompt submission to PCPO (Gaz)/SECR as and when called for.

8. This is the 8th Cycle of (Gazetted) Group "B" Selection for Electrical Department being notified in S.E.C.Railway. It is made clear that employees concerned should clearly satisfy themselves regarding their eligibility, in terms of grade, length of non-fortuitous service and holding lien in S.E.C.R. Provisional consideration of selection based on available records will not preclude summary debarring/ disqualification of ineligible candidates at any later stage.

9. It may be noted that this post (ADEE/AXEE) is a safety category post, and accordingly candidates are required to qualify the prescribed medical fitness before appearing in viva-voce. Without medical fitness certificate, candidates will not be eligible for attending viva- voce.

10. Objective and scheme of Examination: The examination aims at comprehensive assessment of knowledge of the candidates and is essentially aimed at testing their professional ability. The examination will consist of - (i) Written Examination, and (ii) Viva-voce (with prior Medical fitness test). The scheme of written examination as contained in Railway Board's letter No. E(GP)2018/2/31 Dated 19.03.2019 (RBE No. 53/2019) are mentioned below, in brief.

10.1 As per the scheme introduced vide Board's RBE No. 53/2019 and Master circular No.68, Date:08/07/2019, the written examination shall comprise of one paper which shall have 100 % Objective type Multi choice Questions, only. The paper will be of 100 marks and the distribution will be as under:-

- | | |
|---|------------|
| a) Technical Subject including Official Language policy | : 70 marks |
| b) Establishment and financial rules | : 30 marks |
| c) Qualifying marks | : 60 marks |

NOTE: There shall be negative marking for incorrect answers. One third of the marks allotted for each question will be deducted for every wrong answer.



10.2 Candidates qualifying in the written examination will be subjected to viva-voce test, which shall have following distribution of marks against various heads :

Viva-voce	Maximum marks	Qualifying marks
1. Record of Service	25	30 marks (including minimum 15 marks in Record of service)
2. Viva-voce	25	

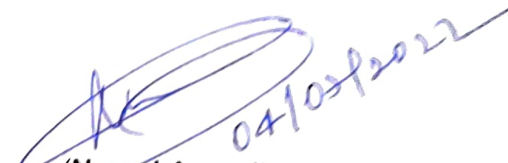
However, the candidates qualifying for viva-voce will have to pass the prescribed medical examination before appearing in the viva-voce.

11. In terms of para 10.5 of Master circular No.68, Date:08/07/2019, no syllabus has been prescribed for the Group-B 70% DPQ written examination. However, an indicative syllabus for the post of ADEE/AXEE (Group-B) 70% of professional subject, establishment and Finance rules etc. for written test is enclosed in **Annexure-E**, which may be circulated widely to all concerned.

12. The notification is also available in this Railway's website- <http://www.secr.indianrailways.gov.in/Recruitment-HQ-Gazetted> Section. All unit-Incharge and concerned Personnel Officers shall ensure that the notification is given wide publicity and also pasted in the Notice board.

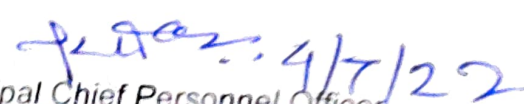
Kindly acknowledge receipt.

Encl: As above


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

Copy forwarded for information and necessary action to:

1. Sr.DPO/DPO/BSP,R &NGP, APO(Bills)/HQ
2. Sr. DEE (OP), GENL., TRD, TRS/ BSP, R, NGP
3. All Personnel Department Officers/ HQ/SECR
4. GS/DPMRMC/BSP, GS/AISC-ST/Association/BSP.
5. NOTICE BOARD


for Principal Chief Personnel Officer

MAIN LIST (ANNEXURE-A)

PROVISIONAL INTEGRATED SENIORITY LIST/ ELIGIBILITY LIST OF SR.SUPERVISOR IN (L-7) INCLUDING RUNNING STAFF

WHOSE GRADE OF GP-4200/- EQUATED WITH GP-4600/-

S/N	Name(Sri/Smt)	Comm.	Designation	Divn /UNIT	DOB	DOA	DOP 5000-8000 & GP-4200/-	DOP 6500-10500 IN GP-4600/-	DATE OF ELIGIBILITY GRADE OF RUNNING STAFF GP-4200/- EQUATED WITH GP-4600/-
1	MANOJ KUMAR DEWANGAN	UR	LPM/ML/ELECT	BSP	11/09/1967	20/03/1986	11/04/1991	-	11/04/1991
2	S R MARDIKAR	UR	CLI/ELECT	BSP	26/12/1965	28/10/1988	05/09/1991	02-06-2010	05/09/1991
3	RAHUL PRADHAN	UR	CLI	R	19-03-1967	20-03-1986	08/12/1992	11/01/2003	08/12/1992
4	Bhanu Pratap Singh	UR	CLI/NGP	NGP	22/09/1964	21/07/1988	10/01/1994	26/03/2007	10/01/1994
5	D.K BAG	SC	LPM/ML/ELECT	BSP	11/08/1964	07/09/1988	06/05/1994	-	06/05/1994
6	Mukesh Kumar Yadav	UR	CLI/NGP	NGP	15/03/1966	07/07/1988	30/09/1994	26/05/2007	30/09/1994
7	Mohd- Saleem Arif	UR	CLI/NGP	NGP	07/11/1966	15/07/1988	16/10/1994	05/12/2006	16/10/1994
8	Akhilesh Kumar Saxena	UR	CLI/NGP	NGP	01/05/1964	15/07/1988	16/10/1994	06/12/2006	16/10/1994
9	S.K.PADHI	UR	SSE(D&D)	R	23/08/1965	10/10/1994	-	10/10/1995	10/10/1995
10	S K TRIPATHI	UR	CLI	R	07/05/1966	15-02-1988	01/01/1996	11/01/2003	01/01/1996
11	SHYAM LAL GANGBER	UR	CLI	R	04/01/1965	18-03-1986	01/01/1996	23-06-2009	01/01/1996
12	G.V.K.VISWNADHAM	UR	LPM/ML/ELECT	BSP	10/03/1971	05/08/1991	27/07/1996	-	27/07/1996
13	PLACIDIUS MINZ	ST	SSE/ELS	BSP	05/09/1968	13-10-1995	-	13/10/1996	13/10/1996
14	SHIV KUMAR GUPTA	UR	CLI/ELECT	RIG	13/03/1964	21/04/1989	29/10/1996	03-12-2013	29/10/1996
15	P.K.ROUTRAY	UR	LPM/ML/ELECT	BSP	01/06/1964	07/09/1988	29/10/1996	-	29/10/1996
16	NIRANJAN SAHU	UR	CLI/ELECT	RIG	02/07/1965	12/09/1988	01-11-1996	29/10/2004	01-11-1996
17	RAJU A	UR	LPM	R	06/01/1963	05/09/1988	16-11-1996	-	16-11-1996
18	P.RANJAN	UR	LPM/ML/ELECT	BSP	06/05/1964	17/09/1988	18/11/1996	-	18/11/1996
19	SIRIGIRI TEJO SRINIVASAN	UR	CLI/ELECT	BSP	02/06/1965	29/08/1987	20-11-1996	29/10/2004	20/11/1996
20	B.K DAS	UR	CLI/ELECT	BSP	01/07/1966	27/03/1989	20-11-1996	29/10/2004	20/11/1996

MAIN LIST (ANNEXURE-A)

**PROVISIONAL INTEGRATED SENIORITY LIST/ ELIGIBILITY LIST OF SR.SUPERVISOR IN (L-7) INCLUDING RUNNING STAFF
WHOSE GRADE OF GP-4200/- EQUATED WITH GP-4600/-**

S/N	Name(Sri/Smt)	Comm.	Designation	Divn /UNIT	DOB	DOA	DOP 5000- 8000 & GP- 4200/-	DOP 6500- 10500 IN GP- 4600/-	DATE OF ELIGIBILITY GRADE OF RUNNING STAFF GP- 4200/- EQUATED WITH GP- 4600/-
21	CHHOTE LAL	UR	LPM/ML/ELECT	BSP	15/02/1965	13/10/1989	27/11/1996	-	27/11/1996
22	BALABHADRA SAHOO	UR	LPM/ML/ELECT	BSP	30/07/1966	13/09/1988	03/12/1996	-	03/12/1996
23	AJIT KUMAR VERMA	UR	CLI	R	16-05-1965	02/10/1988	26-12-1996	25-01-2005	26-12-1996
24	ZAHID PARVESH	UR	CLI	R	29-09-1966	09/06/1990	10/03/1997	25-01-2005	10/03/1997
25	Sandesh Kr- Sharma	UR	SSE/NGP/TPC	NGP	24/10/1970	20/05/1996	20/05/1997	20/05/1997	20/05/1997
26	B.O.BILUNG	ST	SSE	BSP	30-06-1964	05/06/1996	-	05/06/1997	05/06/1997
27	ASHISH VASANT BAPAT	UR	CLI/ELECT	BSP	15/05/1967	07/06/1988	08-08-1997	18-12-2006	08/08/1997
28	P.K.SAHOO	UR	CLI/ELECT	BSP	23/05/1964	10/09/1988	08-08-1997	18-12-2006	08/08/1997

STANDBY LIST (ANNEXURE-B)

**PROVISIONAL INTEGRATED SENIORITY LIST/ ELIGIBILITY LIST OF SR.SUPERVISOR IN (L-7) INCLUDING RUNNING STAFF
WHOSE GRADE OF GP-4200/- EQUATED WITH GP-4600/-**

S/N	Name(Sri/Smt)	Comm.	Designation	Divn /UNIT	DOB	DOA	DOP 5000- 8000 & GP- 4200/-	DOP 6500- 10500 IN GP- 4600/-	DATE OF ELIGIBILITY GRADE OF RUNNING STAFF GP- 4200/- EQUATED WITH GP- 4600/-
1	SANDEEP KUMAR	UR	CLI/ELECT	BSP	18/08/1962	28/09/1988	08-08-1997	18-12-2006	08/08/1997
2	RAVINDRA KUMAR	UR	LPM/ML/ELECT	BSP	08/11/1965	25/05/1989	08/08/1997	-	08/08/1997
3	A.S.BAGHEL	UR	LPM/ML/ELECT	BSP	10/11/1964	13/10/1989	08/08/1997	-	08/08/1997
4	MANIK CHAND KHAIRWAR	UR	LPM/ML/ELECT	BSP	02/10/1967	07/03/1990	08/08/1997	-	08/08/1997
5	S CHAKRABORTY	UR	LPM/ML/ELECT	BSP	10/03/1969	04/04/1990	08/08/1997	-	08/08/1997
6	BINOD KUMAR GUPTA	UR	LPM/ML/ELECT	BSP	19/12/1969	07/10/1991	08/08/1997	-	08/08/1997
7	SISIRA KUMAR DAS	UR	CLI/ELECT	BSP	05/07/1966	16/08/1989	14-08-1997	20-02-2007	14/08/1997
8	S K TRIPATHY	UR	CLI/ELECT	BSP	12/05/1967	16/08/1989	14-08-1997	20-02-2007	14/08/1997
9	PAVAN KHARE	UR	CLI/ELECT	BSP	07/07/1966	21/08/1989	14-08-1997	20-02-2007	14/08/1997
10	MANOJ KUMAR PANDABA	UR	CLI/ELECT	BSP	24/03/1968	28/08/1989	14-08-1997	20-02-2007	14/08/1997
11	AJAY KUMAR	UR	CLI/ELECT	BSP	01/03/1969	17/03/1992	14-08-1997	20-02-2007	14/08/1997
12	BIJAY KUMAR SAHA	UR	CLI	R	03/12/1967	15-09-1988	15-08-1997	25-01-2005	15-08-1997
13	SUNIL KUMAR SAHU	UR	LPM/ML/ELECT	BSP	06/03/1970	26/08/1989	29/08/1997	-	29/08/1997
14	P SATYANARAYANA	ST	SSE/Raipur	R	04/03/1971	30/04/1996		19/09/1997	19/09/1997
15	N N SHRIRAM	ST	SSE/HQ	HQ	06/08/1965	29/01/1990	-	12/07/1998	12/07/1998
16	SANJAY AGRAWAL	UR	SSE/ELS/BIA/R	ELS	07/01/1969	15/09/1997	-	15/09/1998	15/09/1998
17	D. K. GUPTA	UR	LPM/ML/ELECT	BSP	30/06/1969	09/12/1991	23/12/1998	23/12/1998	23/12/1998
18	J.S SENGARA	UR	LPM/ML/ELECT	BSP	28/10/1969	10/12/1991	23/12/1998	23/12/1998	23/12/1998
19	G GOVIND RAO	ST	CLI/ELECT	BSP	24/12/1967	04/06/1990	23/12/1998	10-07-2008	23/12/1998
20	P.K.SHRIVASTAVA	UR	CLI/ELECT	BSP	10/10/1969	09/12/1991	23/12/1998	10-07-2008	23/12/1998

STANDBY LIST (ANNEXURE-B)**PROVISIONAL INTEGRATED SENIORITY LIST/ ELIGIBILITY LIST OF SR.SUPERVISOR IN (L-7) INCLUDING RUNNING STAFF
WHOSE GRADE OF GP-4200/- EQUATED WITH GP-4600/-**

S/N	Name(Sri/Smt)	Comm.	Designation	Divn /UNIT	DOB	DOA	DOP 5000- 8000 & GP- 4200/-	DOP 6500- 10500 IN GP- 4600/-	DATE OF ELIGIBILITY GRADE OF RUNNING STAFF GP- 4200/- EQUATED WITH GP- 4600/-
21	ADYA PRASAD	UR	CLI/ELECT	BSP	07/04/1971	10/12/1991	23/12/1998	02-06-2010	23/12/1998
22	A.N.PANDEY	UR	CLI/ELECT	BSP	15/05/1971	10/12/1991	23/12/1998	03-12-2013	23/12/1998
23	S.C.MAURYA	UR	CLI/ELECT	BRJN	01/12/1969	17/12/1991	23/12/1998	12-10-2017	23/12/1998
24	H.S BHADAURIA	UR	LPM/ML/ELECT	BSP	20/06/1969	10/12/1991	23/12/1998	-	23/12/1998
25	I.P SINGH	UR	LPM/ML/ELECT	BSP	08/06/1970	20/12/1991	23/12/1998	-	23/12/1998
26	RAJENDRA SHUKLA	UR	LPM/ML/ELECT	USL	12-071969	10.12.1991	23/12/1998	-	23/12/1998
27	J K SHARMA	UR	LPM	R	24-12-1965	03/08/1990	28-12-1998	-	28-12-1998
28	BALESWAR PAHAN	ST	LPM	R	12/10/1966	15-06-1992	28-12-1998	-	28-12-1998

South East Central Railway

ANNEXURE-'C'

PROFORMA for AEE/AXEE/ADEE 70% DPQ

Paste a
photograph
duly attested

1	Name	
2	Father's Name	
3	Present Designation/Station/ Unit	
4	Community (UR/SC/ST)	
5	Lien holding Railway	
6	Date of Birth	
7	Date of appointment	
8	Designation in which initially appointed and scale (Rs.)	
9	PF NO	
10	Present scale (Vth PC) / Grade Pay (VIth PC) / Pay Level (7 th PC)	
11	Date of Regular Promotion or appointment 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)	
12	Date of Regular Promotion or appointment in scale Rs. 6500-10500 (5 th PC), PB-2 Rs. 9300-34800, with GP Rs. 4600/- (6 th PC)/ Pay Level 7 of (7 th PC)	
13	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 26/04/2022 or 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 26/04/2022	Year.....Month.....Days.....
14	Remarks Willing/ Un-willing	
15	Any DAR case is pending or otherwise	
16	Mobile No.:	

Signature of the candidates

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

Forwarded to controlling officer

Signature of Controlling Officer with seal

Forwarded to Headquarter

Forwarded to Dy.CPO(GAZ)/SECR/BSP. The particulars given by the employee against column No.1 to 16 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 AEE/AXEE/ADEE (Gr.B) against 70% quota in Electrical Department and it is certified that no Adhoc or fortuitous service has been taken in to account for computing the eligibility as on **26/04/2022**. 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 "D"**PROFORMA -70% (ADEE/ AXEE)**

1	2	3	4	5	6	7	8	9
Sr.No	Name	Present Designation /Station	Lien	Community (UR /SC/ ST)	Date of birth	Date of appointment & designation, grade to which appointed	P F No	Qualification

10	11	12	13	14	15	16
Present Grade/ Scale	Date of regular promotion in present Grade /scale	Regular promotion in scale GP Rs.2400/-, GP Rs.4200/-, GP Rs.4600/-, Should be equated with as given below (NOTE)	Regular promotion/ appointment in scale Rs. 6500-10500/- (5 th PC) (pre-revised)/ GP-4600/- (6 th PC) Level-7 (7 th PC)	Present grade Regular/ Ad-hoc	Remarks Eligible/ Not eligible	Willing/ Unwilling

Signature of controlling officer/
Concerned Personnel Officer

NOTE: Comparison of grades of running staff with those of stationary staff for the purpose of promotion/ selection to Group- 'B' posts, in terms of Estt. Rule No.133/2015, circulated vide Board's letter No. E(GP) 2005/2/87, RBE No. 92/2015, Date:18.08.2015, may strictly be followed while forwarding the applications of employees.

Designation	Scale of Pay Applicable (VI CPC)	Scale of Stationary Post to which should be equated (VI CPC)
Loco Pilot (Mail/Exp.)	PB-2 + GP Rs. 4200+ 1000 addl. allowance	PB-2 + GP Rs 4600
Loco Pilot (Passenger)	PB-2 + GP Rs. 4200 + 500 addl. allowance	PB-2 + GP Rs. 4600
Loco Pilot (Goods)	PB-2 + GP Rs. 4200	PB-2 + GP Rs. 4600
Loco Pilot (Shunting) I (NF)	PB-2 + GP Rs. 4200	PB-2 + GP Rs. 4200
Loco Pilot (Shunting) II	PB-1 + GP Rs. 2400	PB-2 + GP Rs. 4200
Sr. Asstt. Loco Pilot (NF) (80%)	PB-1 + GP Rs. 2400	PB-1 + GP Rs. 2400
Asstt. Loco Pilot (20%)	PB-1 + GP Rs. 1900	PB-1 + GP Rs. 2400

SYLLABUS FOR WRITTEN TEST FOR SELECTION FOR FORMATION OF A PANEL OF
AEE/AXEE (GROUP-B) AGAINST 70% VACANCIES

- 1.0 **Electrical- General Services:**
- 1.1.0 **Train lighting and air-conditioning**
- 1.1.1 Design, Construction, Principles of working, Maintenance schedule, POH and Schematic Circuit diagrams of train lighting equipment used in the simplified train lighting system. Details of wiring in coaches and associated safety device in case of fire in trains and the reasons thereof. Problems of train lighting in day-to-day operation.
- 1.1.2 Principle of working and schematic diagram of TL alternator with Flat as well as V belts and automatic voltage regulators, Lead and batteries, their characteristic on charge and discharge, care and maintenance of batteries, battery charging plants, Sealed maintenance free batteries.
- 1.1.3 Schematic arrangement for the refrigeration cycle of A.C. coaches and maintenance schedules.
- 1.1.4 AC coaches with RMPUs and under sling equipments & schematic diagram.
- 1.1.5 Board out lines of refrigeration and air-condition equipment used for air-conditioning of buildings covering window models package type plants, split type air-conditioners and central plants, planning installation and maintenance of air-condition equipment, refrigerators, water-coolers.
- 1.2.0 **Energy conservation in General Services**
Energy conservation measures, including non-conventional sources, power factor improvement by use of synchronous motors and capacitor banks.
- 1.30 **Electrical lighting of buildings, yards and water supply arrangement.**
- 1.3.1 Systems of wiring layouts, regulations governing the electrical equipment of buildings, contract specifications testing of installations, lighting of yards by point lights, flood lights etc, Standard of illumination for various applications and different form of light fittings suitable for special purposes.
- 1.3.2 Principles of working of various types of pumps in use on the Railways- selection of pumps and pumping installations and maintenance thereof along with their specifications. Assessment of water supply requirements in various Railway installations in terms of way and work manual.
- 1.4.0 **Power House, Sub-stations, HT & LT distribution systems.**
- 1.4.1 Specification and layout of diesel generator, Principles of working of Diesel Engine, alternator and maintenance thereof, Specific fuel consumption, synchronization and parallel operation.
- 1.4.2 Sub-Station layout, specifications etc of transformers, switchgear, protective equipment, metering equipment, erection and testing of relays, testing of transformer oil, distilled water and earth resistance, Parallel operation of transformers, Maintenance & operation of sub-stations.



- 1.4.3 Laying of underground cables- cable jointing location of faults in cables and equipments used for the fault finding, repairs of faulty cables, testing.
- 1.4.4 Earthing arrangements, Neutral earthing, testing earth screen.
- 1.5.0 **Rules, Regulations etc for General Services.**
- 1.5.1 Principle of working safety, maintenance & operation lifts. Types of motors, ratings, temperature rise, types of control & starters protective devices and safety features.
- 1.5.2 Indian Electricity Rules, 1956 and Indian Electricity Act 2003 as applicable to Railway installations, safety precautions to be taken for electrical installations.
- 1.5.3 Duties and qualifications for the electrical Inspector in terms of Indian Electricity Rules, Rules for inspection of electrical installations by the Electrical Inspector.
- 1.5.4 Broad details of AC, Traction, Manual applicable to general services. Safety precautions near 25 KV AC OHE, Modification to LT lines consequent of introduction of 25 KV AC traction.
- 1.5.5 Rules governing transmission line crossing and underground cables across the Railway tracks.
- 1.5.6 Electricity tariffs charged by the various Boards and optimization of electricity bill and power factor.
- 1.5.7 Board principles and terms and condition of power supply agreement with the supply Authorities for electrical general services.
- 1.5.8 Procedure to be followed for EIG sanction.
- 1.5.9 Preparation of estimates for minor and major works detailed and working estimates etc layout plans and contract specifications, drawing office procedures.
- 1.5.10 Difference between capital and other stores and method of recoupments.

2.0 Electric Rolling Stock:

- 2.1.1 AC Locomotives, AC EMUs and AC MEMUs main features, main equipments, general layout and major equipment ratings.
- 2.1.2 Elements of train resistance, tractive force calculation and adhesion, Types of suspension and transmission, power conditioning GTO/IGBT and protective equipment.
- 2.1.3 Maintenance practices adopted for AC locos, EMUs and MEMUs.
- 2.1.4 Air Compressors, vacuum exhausters, auxiliary motors and brake systems employed on electric rolling stock.
- 2.1.5 Rheostatic braking
- 2.1.6 Requirements of facilities for IOH shed and POH shops for repairs of locomotives/EMUs/MEMUs.
- 2.1.7 Features for operation of AC electric locomotives/EMUs/MEMUs as single or multiple units.
- 2.1.8 Safety features to be followed in the operation of electric locomotive, EMUs and MEMUs and statistical calculations thereof.
- 2.1.9 Preparation of engine links and driver links, Link working calculation of crew and loco requirement figures.

- 2.1.10 Utilization of locos, traction loco control organization.
- 2.1.11 Rotating machines, rewinding shops practice and organization and various types of insulating materials employed.
- 2.1.12 Ball, roller and suspension bearings, how clearances are ensured/measured.
- 2.1.13 Familiarity with the ACTM and its provisions pertaining to AC electric locos/EMUs/MEMUs and items of safety checks for moving vehicles with respect of loco/EMUs/MEMUs and P way awareness of general values for wheel profiles, accidents, derailments.
- 2.1.14 Knowledge of factors affecting smooth current collection pantograph and factors likely to cause panto entanglements, preventive cause thereof.
- 2.1.15 Ability to perform simple calculations regarding HP, KWH Hrs, Tractive effort intones and torque/speed relationship for AC electric locomotives/EMUs/MEMUs.
- 2.1.16 Yardstick for maintenance sheds, sources for filling vacancies trade tests and effecting promotions against vacancies.
- 3.0 Electrical Traction Distribution and power supply installation:**
 - 3.1.1 System of Traction, Planning and execution of Projects- Advantages of different system, Advantages of electric traction over other modes of traction.
 - 3.2.0 Maintenance and Operation of OHE.**
 - 3.2.1 Principles of OHE layout plans sectioning diagrams.
 - 3.2.2 Maintenance schedules for OHE and Tower Wagons as per ACTM.
 - 3.2.3 Various types of OHE break-downs and their causes and remedial action.
 - 3.2.4 Accident/break-downs normalization procedures.
 - 3.2.5 Criterion for usage of various types of foundations, masts/portals, span lengths, droppering schedule, regulated/unregulated OHE, PTFE/sort neutral section/conventional neutral sections.
 - 3.2.6 Applications of Indian Electricity Act 2003 and Indian Electricity Rules 1956 as applicable to TRD installations, schedule of dimensions, Code of bonding and earthing for 25 KV AC traction, regulation for electrical crossing of Railway track, rules for movement of ODCs in electrified track, rules/procedures for working by other departments in electrified sections.
 - 3.2.7 2x25 Kv AC OHE system.
 - 3.3.0 Maintenance and operating of PSI system.**
 - 3.3.1 Various types of switching posts including traction sub-stations, equipment layout therein maintenance/operation procedures for PSI equipments.
 - 3.3.2 Relative merits of SF6 and vacuum circuit breakers, interruptors over all type of breakers/interruptors.



- 3.3.3 Capacitor Banks-static shunt and thyristor of switched type their relative merits, maintenance and operation procedures.
- 3.3.4 Type of breakdowns/failures of PSI equipments causes and remedial actions.
- 3.4.0 Remote Control equipments, maintenance and operation.**
- 3.4.1 General principles of working of remote control equipments and their maintenance schedules.
- 3.4.2 Merits of SCADA type remote control system over stagger type remote control system.
- 3.4.3 Failure of remote control equipments, causes and remedial action.
- 3.4.4 Maximum demand control- role of TPC and Traction Loco Controllers.
- 3.4.5 Availing direct power supply from NTPC/PGCIL etc., transmission lines.
- 3.5 General topics:**
- 3.5.1 Specific energy consumption, energy conservation measures as applicable for electric tractions.
- 3.5.2 Tariff for electric traction and various types –their relative merits.
- 3.5.3 Safety measures to be adopted for working of OHE/PSI installations including procedures for obtaining power and traffic blocks.
- 3.5.4 Electrical accidents as applicable for traction installations, Reporting of such accidents to EIG.
- 3.5.5 Communication in electrified section.
- 4.0 Establishment**
- 4.1.1 Recruitment, selection and induction, staff training and development, Staff cadres and channel of promotions in same class or from one class to another, selection Boards, efficiency bars, selection and non-selection posts, trade tests.
- 4.1.2 Discipline and appeal rules, Railway Servants conduct rules, Termination of service, discharge, dismissal, re-employment rules.
- 4.1.3 Maintenance of Annual confidential Reports.
- 4.1.4 Leave, Pass and Traveling Allowance Rules- Preparation of Pay sheets and Master Sheets- Method of payment- Box systems of payment- Dearness, Compensatory, House Rent and other allowances- Overtime, Medical attendance rules, Rent rules.
- 4.1.5 Departmental Procedure in regard to:
- i) Payment of Wages Act.
 - ii) Hours of employment regulations- Adjudicator's Award- Duty rosters.
 - iii) Workman's Compensation Act.
 - iv) Indian Factory Act.
- 4.1.6 Manpower Planning, Zero based review and rightsizing, human resources development, motivation and productivity.
- 4.1.7 Role of manager, managerial skill, decision making- technique and process.
- 4.1.8 Managing Industrial relations, union & management workers participation in the management.
- 5.0 Finance:**
- 5.1.1 Principles of financial scrutiny, financial justifications of proposals involving

expenditure related to:

- i) Ordinary working expenses
- ii) Works expenditure
- iii) Manufacture
- iv) Stores

5.1.2

Procedure for preparation of Railway Budget in respect of :

- (i) Ordinary working expenses
- (ii) Works expenditure
- (iii) Manufacture
- (iv) Stores

5.1.3

Control over expenditure on works:

- i) Work registers, their maintenance, review and reconciliation with general books.
- ii) Estimates of various types, their certifications by Accounts.
- iii) Tenders- type of tenders, procedure for calling, consideration and acceptance tenders, and association of accounts.
- iv) Progress reports, financial reviews, publicity expenditure, imprest cash.
- v) Rules for grouping works, competency of sanctions.
- vi) Deposit works, Incidence of expenditure of works for other departments.

6.0

Stores and material management:

6.1.1

- i) Legal aspects of purchasing and ethics in buying.
- ii) Material management outlines and essential principles of the purchasing function.
- iii) Procedure for drawl of stock items including disposal of various foils.
- iv) Custody stores
- v) Scrap disposal

6.1.2

- i) Inventory control
- ii) ABC analysis
- iii) Stock & non-stock items, procedure for procurement of non-stock items, PAC items etc.
- iv) Rules for entering into supplying contracts and technical scrutiny of offers.

7.0

Information Management Computers-

Role of computers in management, introduction to computers, personal computer and its uses MIS.

8.0

Rajbhasha

- i) Constitutional provisions regarding official language.
- ii) Official Language Act, 1963
- iii) The official language rules, 1976.
- iv) Official language implementation Committee
- v) Use of bi-lingual software/hardware for bi-scriptural use of computers.

(Ten percent of the total marks allotted for question on official language policy and rules.)

