

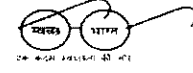


दक्षिण पूर्व मध्य रेलवे

South East Central Railway

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

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



No. P-HQ/CON/452/1/EL/ 01

Dated 02. 01.2020

AGM, SECRETARY TO GM/SECR, PCEE, CAO Con. SDGM /SECR
CEDE, CELE, CECE, SDGM/SECR,
CSO, CAO (Con), CEE (Con), CPO (A)/SECR.
DRM/BSP, R, NGP, CWM/WRS/R & CWM/WS MIB.
Dy CPO (Con). /BSP, SPO/HQ.
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 (7th cycle) of Electrical department in SEC Rly.**

1. It is proposed to conduct a selection for formation of a panel to fill up 13 (UR: 09, SC: 02, ST: 02) Group "B" vacancies of ADEE/AXEE against 70% DPQ (7th Cycle), PB 2 Rs.9300-34800, Grade Pay Rs. 4800 (VI-PC)/ (Pay Matrix Level-08 of VII PC) from willing and eligible Senior Supervisors (Technical) of Electrical department, having lien in South East Central 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.

Eligibility Criteria:

For Group 'B' selections (70% quota), Group "C" technical senior supervisors, including running staffs of Electrical department (including running staff of combined seniority in Electrical / Mechanical department) working in grade PB-2 Rs. 9300- 34800/- with Grade pay of Rs.4200 /- and above grades with 03 (three) years of non-fortuitous service in the grade (including non-fortuitous service rendered in the corresponding pre-revised grades) as on 05.12.2019 are eligible to appear in the selection .

2 A combined provisional integrated seniority list, including Running Staff (i.e Loco Pilots , Mail Exp/Good 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 (duly taking in to account the respective community) 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. In case of any dispute vis-à-vis the lists, requisite representation may be submitted, through their controlling officer and respective Personnel unit, to this office in the proforma prescribed in **Annexure "C"**, latest by the closing date of this notification. Controlling officers / respective Personnel officers are advised to verify details of the employees, with their clear willingness/ unwillingness and certify their correctness while forwarding them to this office. The consolidated statement in respect of such candidates as per the format in Annexure "C", together with the individual applications, should be forwarded by the concerned Personnel Officers to this office as per the time limit prescribed in Para (4) below. In case a 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.

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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 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 ~~23~~ 21.01.2020 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 'C' by the concerned Personnel Officer to the office of PCPO/Gaz/Bilaspur on or before 27.01.2020 along with the individual applications.

5. In terms of Para 8.9 of Master Circular No.68, 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 reserved list 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 extant rules. As regards vacancies reserved for SC/ ST, in case adequate number of SC/ST candidates, i.e. three times the number of vacancies reserved for them, are not found in the normal zone of consideration, the same may be extended for SC or ST or both to five times the total number of vacancies reserved for them.

7. It may be noted that for those in scale Rs. 6500-10500 (V PC)/ PB2 Rs. 9300-34800 Grade Pay Rs. 4600 (VI PC)/ (Pay Matrix level-07 of VII PC); seniority in grade Rs.6500-10500 (V PC)/PB2 Rs. 9300-34800 Grade Pay Rs.4600 (VI PC)/ Pay Matrix Level-7 VII PC) will be reckoned in terms of extant rules. The final list of candidates to be called for the written exam will be prepared basing on the willingness received from the employees.

6. The pre-selection coaching for a period of 3-4 weeks to the reserved community candidates (SC/ST) should be arranged by the Executive side i.e. PCEE/SECR. This training is treated as mandatory and refusal, if any, should be taken in writing. On completion of pre-selection coaching, requisite completion report should invariably be sent to the PCPO (Gaz)/SECR.

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 7th Cycle of (Gazetted) Group "B" Selection for Electrical department being notified in South East Central Railway. It is made clear that employees concerned should clearly satisfy

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themselves regarding their eligibility, in terms of grade, length of non-fortuitous service and holding lien in S.E.C. Railway. 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, 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

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 test (Only medically fit candidates will be allowed to appear the viva-voce test)

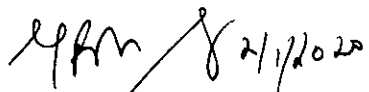
Viva-voce	Maximum marks	Qualifying marks
1. Record of Service	25	30 marks (including minimum 15 marks in Record of service)
2. Viva-voce	25	

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

12. The syllabus for the post of ADEE/AXEE (Group "B") of Professional subject, Establishment and Finance Rules for written test is enclosed in **Annexure "D"** which may be circulated widely to all concerned. This syllabus is indicative & not necessarily exhaustive.

The notification is also available in this Railway's website- <http://www.secr.indianrailways.gov.in>.

Kindly acknowledge receipt
Encl: As above


(M. Babu Abdul Khadeer)
Sr. Personnel Officer (HQ)
for Principal Chief Personnel Officer

No. P-HQ/CON/452/1/E /01

Date. 02.01.2020

Copy forwarded for information and necessary action to:

- 1. Sr. DPO/DPO/BSP, R & NGP, APO(Bills)/HQ
- 2. Sr. DEE (OP)/ 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 REVISED INTEGRATED SENIORITY LIST OF SR SUPERVISORS GP 4600/- INCLUDING LOCO PILOTS GP4200/-ARE EQUATED WITH GRADE PAY 4600/- OF ELECTRICAL DEPARTMENT

S N	NAME (SHRI/SMT)	COMM	DESIGN	STN	DOB	DOA.	Present Scale	DOP 8000/ GP4200	DOP 5000-10500/ GP4600	6500- of eligibility grade of Running staff GP 4200/- equated with GP	Date
1	RAHUL PRADAN	UR	CLI	BIA	19-03-1967	20-03-1985	GP-4600	15-07-1990	15-07-1990	15-07-1990	15-07-1990
2	SHYAM LAL GANGBER	UR	CLI	KRBA	04-01-1965	18-03-1986	GP-4600	21-08-1990	21-08-1990	21-08-1990	21-08-1990
3	A.N.PATHAK	UR	SSE(TL)	NGP	02-01-1960	18-12-1982	GP-4600	07-02-1984	08-01-1993		
4	S. K. TRIPATHI	UR	CLI	BIA	05-07-1966	15-02-1988	GP-4600	16-04-1991	16-04-1991	16-04-1991	16-04-1991
5	SUNIL RAGHUNATH MARDIKAR	UR	CLI	KRBA	26-12-1965	28-10-1988	GP-4600	03-05-1995	03-05-1995	22-08-1997	22-08-1997
6	D D S SAMAD	ST	LPM	BSP	01-11-1966	15-09-1987	GP-4200	06-05-1994	06-05-1994	06-05-1994	06-05-1994
7	B.SURIN	ST	LPM	BSP	31-03-1964	17-09-1987	GP-4200	06-05-1994	06-05-1994	06-05-1994	06-05-1994
8	D.K BAG	SC	LPM	BSP	08-11-1964	09-07-1988	GP-4200	06-05-1994	06-05-1994	06-05-1994	06-05-1994
9	BECHEY LAL	SC	LPM	BSP	15-12-1959	15-09-1988	GP-4200	06-05-1994	06-05-1994	06-05-1994	06-05-1994
10	SOUMITRA PECHAK	UR	St.SE	BSP	15-07-1962	27-04-1987	GP-4600		27-07-1994		
11	V K VERMA	UR	LPM	NGP	26-03-1966	13-07-1988	GP4200	15-09-1994		15-09-1994	15-09-1994
12	M. K. YADAV	UR	CLI	NGP	15-03-1966	07-07-1988	GP-4600	13-09-1994	13-09-1994	13-09-1994	13-09-1994
13	B.P.SINGH	UR	CLI	NGP	28-09-1964	21-07-1988	GP-4600	01-10-1994	01-10-1994	01-10-1994	01-10-1994
14	A K DESHMUKH	UR	LPM	NGP	21-06-1964	12-07-1988	GP4200	16-10-1994		16-10-1994	16-10-1994
15	S. K. CHINNAPPA	ST	CLI	R	28-11-1963	02-09-1985	GP-4600	26-11-1994	26-11-1994	26-11-1994	26-11-1994
16	M M IQBAL	UR	LPM	BSP	06-07-1964	09-02-1975	GP-4200	09-02-1995	09-02-1995	09-02-1995	09-02-1995
17	R. P. SINGH	UR	LPM	NGP	18-01-1965	16-07-1988	GP-4200	18-01-1995	18-01-1995	18-01-1995	18-01-1995
18	PRABHU RAUT	ST	LPM	BSP	15-01-1964	21-09-1987	GP-4200	09-02-1995	09-02-1995	09-02-1995	09-02-1995
19	P.K PADHI	UR	LPM	BSP	18-06-1968	26-04-1988	GP-4200	16-02-1995	16-02-1995	16-02-1995	16-02-1995
20	S K KUTTY	UR	LPM	NGP	12-12-1964	20-07-1988	GP-4200	18-08-1995	18-08-1995	18-08-1995	18-08-1995
21	A K CHANDRAKAR	UR	LPM	NGP	25-03-1964	21-07-1988	GP-4200	18-08-1995	18-08-1995	18-08-1995	18-08-1995
22	MUKESH CHAND YADAV	UR	LPM	NGP	01-07-1965	20-07-1988	GP-4200	20-08-1995	20-08-1995	20-08-1995	20-08-1995
23	K C PRADHAN	UR	LPM	NGP	15-06-1966	14-12-1988	GP-4200	28-08-1995	28-08-1995	28-08-1995	28-08-1995
24	D K MISHRA	UR	LPM	NGP	28-06-1964	15-07-1988	GP-4200	16-10-1995	16-10-1995	16-10-1995	16-10-1995
25	K D BANERJEE	UR	SSE	CONST	20-04-1960	11-01-1988	GP-4600	11-01-1988	21-12-1995		
26	RAM BAHADUR	SC	SEE	R	08-07-1961	24-12-1982	GP-4600	06-02-1996			
27	B.K DAS	UR	CLI	BSP	07-01-1966	27-03-1989	GP-4600	11-02-1996	11-02-1996	11-02-1996	11-02-1996
28	RAM LAL SINGH	ST	LPM	SDL	26-05-1961	27-05-1981	GP-4200	17-05-1996	17-05-1996	17-05-1996	17-05-1996
29	J P SONI	UR	SSE	CONST	11-07-1971	27-05-1996	GP-4600		27-05-1996		
30	G GOVIND RAO	ST	CLI	BSP	24-12-1967	04-06-1990	GP-4600	06-09-1996			06-09-1996
31	PLACIDIUS MINZ	ST	SSE	MDGR	09-05-1968	13-10-1995	GP-4600		13-10-1996		

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32	NIRANJAN SAHU	UR	CLI	RIG	07-02-1965	09-12-1988	GP-4600	01-11-1996	01-11-1996	01-11-1996
33	RAJU. A	UR	LP/M-E	R	01-06-1963	09-05-1988	GP-4200	16-11-1996	16-11-1996	16-11-1996
34	SANDEEP KUMAR	UR	CLI	BSP	18-08-1962	28-09-1988	GP-4600	18-11-1996	18-11-1996	18-11-1996
35	SIRIGIRI TEJO SRINIVASAN	UR	CLI	BSP	21-06-1965	29-08-1987	GP-4600	20-11-1996	20-11-1996	21-08-1990
36	P.K.SAHOO	UR	CLI	BSP	23-05-1964	09-10-1988	GP-4600	20-11-1996	20-11-1996	20-11-1996
37	A.V.BAPAT	UR	CLI	BSP	15-05-1967	06-07-1988	GP-4600	22-11-1996	22-11-1996	22-11-1996
38	AJIT KUMAR VERMA	UR	CLI	R	16-05-1965	10-02-1988	GP-4600	26-12-1996	26-12-1996	26-12-1996
39	BRINDABAN DAS	ST	LP/M-E	R	25-06-1961	29-03-1980	GP-4200	30-01-1997	30-01-1997	30-01-1997
40	SANDESH KR SHARMA	UR	SSE/TPC	NGP	24-10-1970	20-05-1996	GP-4600		20-05-1997	
41	A.R.BHARGAV	SC	CLI	BSP	08-10-1964	24-01-1992	GP-4600	02-07-1997	02-07-1997	02-07-1997
42	P. V. SRINIVAS	UR	LPP-II	BSP	18-03-1966	19-03-1987	GP-4200	08-08-1997	08-08-1997	08-08-1997
43	S. DHARAM RAO	UR	LPM	BSP	15-12-1964	15-02-1988	GP-4200	08-08-1997	08-08-1997	08-08-1997
44	R K SRIVAS	UR	LPM	BSP	17-04-1966	18-02-1988	GP-4200	08-08-1997	08-08-1997	08-08-1997
45	P.K.ROUTRAY	UR	LPM	BSP	06-01-1964	09-07-1988	GP-4200	08-08-1997	08-08-1997	08-08-1997
	STANDBY LIST								ANNEXURE-B	
1	P MOHANTA	UR	LPM	BSP	07-10-1965	09-12-1988	GP-4200	08-08-1997	08-08-1997	08-08-1997
2	P.K CHOUDHARY	UR	LPM	BSP	05-10-1966	09-12-1988	GP-4200	08-08-1997	08-08-1997	08-08-1997
3	BALABHADRA SAHOO	UR	LPM	RIG	30-07-1966	13-09-1988	GP-4200	08-08-1997	08-08-1997	08-08-1997
4	V.K.SABU	UR	LPM	BSP	05-05-1968	13-09-1988	GP-4200	08-08-1997	08-08-1997	08-08-1997
5	RAJU B	UR	LPM	BSP	17-04-1966	18-02-1988	GP-4200	08-08-1997	08-08-1997	08-08-1997
6	RANJAN SHUKLA	UR	LPM	BSP	06-09-1965	02-05-1988	GP-4200	08-08-1997	08-08-1997	08-08-1997
7	P.RANJAN	UR	LPM	BSP	05-06-1964	17-09-1988	GP-4200	08-08-1997	08-08-1997	08-08-1997
8	RAVINDRA KUMAR	UR	LPP-II	BSP	11-08-1965	25-05-1989	GP-4200	08-08-1997	08-08-1997	08-08-1997
9	S.K.PATNAIK	UR	LPP-II	BSP	06-01-1964	16-08-1989	GP-4200	08-08-1997	08-08-1997	08-08-1997
10	S.K.ACHARYA	UR	LPG-I	BSP	07-03-1966	16-08-1989	GP-4200	08-08-1997	08-08-1997	08-08-1997
11	MANAND RAO	UR	LPP-II	BSP	25-05-1969	16-08-1989	GP-4200	08-08-1997	08-08-1997	08-08-1997
12	S.BANDOPADHYA	UR	LPG-I	BSP	01-04-1966	17-08-1989	GP-4200	08-08-1997	08-08-1997	08-08-1997
13	M.SANYASI	UR	LPP-II	BSP	22-05-1965	18-08-1989	GP-4200	08-08-1997	08-08-1997	08-08-1997
14	G.RAJENDRA JENA	UR	LPG-I	BSP	16-05-1965	19-08-1989	GP-4200	08-08-1997	08-08-1997	08-08-1997
15	N.K.PRASAD	UR	LPG-I	BSP	02-01-1967	19-08-1989	GP-4200	08-08-1997	08-08-1997	08-08-1997
16	P K SENAPATI	UR	LPP-II	RIG	02-04-1966	23-08-1989	GP-4200	08-08-1997	08-08-1997	08-08-1997
17	SUNIL KUMAR SAHU	UR	LPG-I	BSP	06-03-1970	26-08-1989	GP-4200	08-08-1997	08-08-1997	08-08-1997
18	M. K. JHA	UR	LPM	BSP	04-05-1964	13-10-1989	GP-4200	08-08-1997	08-08-1997	08-08-1997
19	A.S.BAGHEL	UR	LPP-II	BSP	11-10-1964	13-10-1989	GP-4200	08-08-1997	08-08-1997	08-08-1997
20	H.L.DAS	UR	LPP-II	BSP	01-01-1965	13-10-1989	GP-4200	08-08-1997	08-08-1997	08-08-1997
21	CHHOTE LAL	UR	LPP-II	BSP	15-02-1965	13-10-1989	GP-4200	08-08-1997	08-08-1997	08-08-1997
22	JAYAN G	UR	LPP-II	BSP	25-05-1965	13-10-1989	GP-4200	08-08-1997	08-08-1997	08-08-1997
23	R. K. BAJPAI	UR	LPM	BSP	25-12-1965	13-10-1989	GP-4200	08-08-1997	08-08-1997	08-08-1997

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24	BRAHAM DUTT	UR	LPP-II	BSP	07-01-1966	13-10-1989	GP-4200	08-08-1997	08-08-1997	08-08-1997
25	K.N.PANDEY	UR	LPM	BSP	04-10-1966	13-10-1989	GP-4200	08-08-1997	08-08-1997	08-08-1997
26	S CHAKRABORTY	UR	LPP-II	BSP	03-10-1969	04-04-1990	GP-4200	08-08-1997	08-08-1997	08-08-1997
27	MANIK CHAND KHAIRWAR	UR	LPP-II	RIG	10-02-1967	03-07-1990	GP-4200	08-08-1997	08-08-1997	08-08-1997
28	G.V.K. VISWNADHAM	UR	LPM	BSP	03-10-1971	08-05-1991	GP-4200	08-08-1997	08-08-1997	08-08-1997
29	BINOD KUMAR GUPTA	UR	LPP-II	BSP	19-12-1969	10-07-1991	GP-4200	08-08-1997	08-08-1997	08-08-1997
30	KAMALKANT	SC	LPG-I	SDL	24-11-1965	25-03-1992	GP-4200	08-08-1997	08-08-1997	08-08-1997
31	L P GAIKWAD	SC	LPM	BSP	07-01-1967	23-04-1993	GP-4200	08-08-1997	08-08-1997	08-08-1997
32	BIJAY KUMAR SAHA	UR	CLI	BIA	12-03-1967	15-09-1988	GP-4600	15-08-1997	15-08-1997	15-08-1997
33	B.O.BILUNG	ST	SSE	BRH	30-06-1964	05-06-1996	GP-4600	15-08-1997	15-08-1997	15-08-1997
34	SISIRA KUMAR DAS	UR	CLI	BSP	07-05-1966	16-08-1989	GP-4600	22-08-1997	22-08-1997	20-11-1996
35	G PRABHAKAR RAO	UR	LPM	BSP	11-12-1970	30-06-1992	GP-4200	18-08-1997	18-08-1997	18-08-1997
36	PAWAN KHARE	UR	CLI	BSP	07-07-1966	21-08-1989	GP-4600	22-08-1997	22-08-1997	22-08-1997
37	MANOJ KUMAR PANDABA	UR	CLI	BSP	24-03-1968	20-02-1990	GP-4600	22-08-1997	22-08-1997	22-08-1997
38	AJAY KUMAR	UR	CLI	BSP	03-01-1969	17-03-1992	GP-4600	23-08-1997	23-08-1997	23-08-1997
39	SUNIL KUMAR SUMAN	SC	CLI	SDL	02-09-1969	23-03-1992	GP-4600	22-08-1997	22-08-1997	06-10-2005
40	B. VENKATESHWARULU	UR	CLI	BSP	29-11-1965	08-12-1989	GP-4600	27-08-1997	27-08-1997	27-08-1997
41	SANTOSH KUMAR TRIPHATY	UR	CLI	BSP	05-12-1967	16-08-1989	GP-4600	28-08-1997	28-08-1997	28-08-1997
42	BHASKAR SAHOO	UR	CLI	BSP	27-11-1965	17-08-1989	GP-4600	29-08-1997	29-08-1997	29-08-1997
43	B. K. BURMAN	SC	LP/M-E	R	02-11-1961	03-12-1986	GP-4200	05-09-1997	05-09-1997	05-09-1997
44	A V TRINADA RAO	UR	CLI	BSP	18-01-1965	08-11-1989	GP-4600	07-09-1997	07-09-1997	07-09-1997
45	P.SATYANARAYANA	ST	SSE	R	04-03-1971	30-04-1996	GP-4600	19-09-1997	19-09-1997	

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PROFORMA**ANNEXURE "C"**

1	2	3	4	5	6	7	8
Sr.No	Name	Designation/S tation	Lien	Community (UR/SC/ST)	Date of birth	Date of appointment	P F No
9	10	11	12	13	14	15	
Qualific ation	Presen t grade/ scale	Date of regular promotion in scale GP 4200/-	Date of regular promotion in scale GP 4600/-	Present grade Regular/ Ad-hoc	Remarks Willing/ un-willing	Signature of candidates	

Signature of Controlling Officer/Personnel Officer

ACKNOWLEDGEMENT

I have received the notification No.P-HQ/CON/452/1/EL/01 dated 02.01.2020 for selection to the post of AEE/AXEE (Gr "B) against 70% vacancies of Electrical department.

Signature

Name-

Design/STN/Unit

Date-

ANNEXURE "D"

**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 recoupsments.
- 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.)
