

NORTH CENTRAL RAILWAY

Headquarters Office,
Prayagraj-211015.

No.797-E/Gaz/Gr. 'B' Sele./CBT-Spl./Elect./70%/NCR

Dated: 10.01.2024.

Principal Chief Electrical Engineer,
CEDE, CESE, CELE, CEE/EEM, CEGE, SDGM, FA&CAO/EG, GM/CORE, CAO/Const., CEE/Const.,
CEE/Const.-II, CWMs: JHS & STLI Workshop, CWM/RCNK/JHS, CWM/Refub/CMLRW/JHS, DRMs: PRYJ,
AGC & JHS, Sr. DEEs, Sr. DPOs, Sr. DSOs, Sr. EDPMs: PRYJ, AGC & JHS, ED/CAMTECH/GWL, Dy.
CPOs: Gaz., HQ, Const. & IR, Dy. CVO/Elect., Dy. CTM/CNB, DEEs: PRYJ, AGC & JHS, SPOs & SEEs:
JHS & STLI Workshop, Principals: ETC/CNB, CETA/CNB & STC/JHS, Sr. Statistical Officer/NCR,
AEEs/ADEEs/AXEENs: PRYJ, AGC & JHS, APOs: HQ, IR, PRYJ, AGC, JHS, JHS & STLI Workshop,
CMLRW/JHS.

NOTIFICATION

Sub: Selection for promotion from Group 'C' to Group 'B' to the post of
AEE/ADEE/AXEEN against 70% PQ selection for Electrical Department in Pay
Matrix Level-8, through Centralized Computer Based Objective Type
Examination (CBT) - Special drive to fill up vacancies.

Ref: Railway Board's letter No. E(GP)2022/2/4 dated 14.12.2023.

1. In reference to above, Board has decided that a special Group 'B' selection drive shall be carried out to fill up the Gazetted vacancies prevailing on the Railways. Accordingly, it has been decided to fill up these vacancies by holding another round of 70% PQ Selection and 30% LDCE through centralized CBT for promotion to Group 'B' posts by NAIR. Examination (CBT) against 70% PQ selection to be conducted on 25.02.2024 by NAIR/BRC. There shall be no supplementary examination for this special 70% PQ selection.

The break-up of vacancies assessed for the Group 'B' post of AEE/ADEE/AXEEN against 70% PQ selection for Electrical Department are as under:-

Mode	UR	SC	ST	Total	Vacancy reserved for PwBD
70% PQ selection	03	03	02	08	01

Instructions regarding reservation with benchmark disabilities (PwBDs) issued by DoPT vide their OM No. 36012/1/2020-Estt.(Res.-II) dated 17.05.2022, circulated by Railway Board vide letter No. E(GP)2022/2/20 dated 18.08.2022 is being followed in the selections/LDCEs.

2. Eligibility:-

In terms of Railway Board's letter No. E(GP)2019/2/25 dated 27.12.2019, (RBE No. 216/2019), for Group 'B' selections (70% quota), Group 'C' employees working in Level-6 and above in Pay Matrix with 3 years of non-fortuitous service in Level-6 and above in Pay Matrix (including non-fortuitous service rendered in the corresponding pre-revised grade pay) will be eligible. The cut-off date for assessment of eligibility of candidates of this extra round of examination shall be retained as 01.01.2023.

The above is strictly based on integrated seniority list enclosed herewith as Annexure 'A' (Main List) & Annexure 'B' (Reserved List).

A provisional integrated seniority list of eligible employees of Electrical Department of this Railway, who are eligible to appear in the selection is enclosed as Annexure 'A' (Main List) and as Annexure 'B' (Reserved List). The employees in the Reserved List (Annexure 'B') may please note that they will be considered only to the extent of number of employees from the main list, who expressed unwillingness to attend the selection.

Eligible and willing employees (Annexure 'A' & 'B') must submit their application in prescribed Proforma in Annexure-'C' duly forwarded by immediate supervisor/Officer through proper channel to their respective Personnel Branch Officers concerned indicating their clear willingness / unwillingness to appear in the selection on or before 17.01.2024 and acknowledgement may be obtained. Applications received after 17.01.2024 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.

3. Scrutiny:

The Controlling officers/respective Personnel officers are advised to verify details of the employees of Annexure 'A' & 'B' submitted by them in Annexure 'C' 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-'D' (in hard copy as well as in soft copy, in excel sheet) together with the individual applications, should be forwarded by the concerned Controlling officers/respective Personnel Officer to Gazetted Section, PCPO's Office/NCR/HQ on or before 19.01.2024.

In case a candidate is found ineligible for the above selection at any stage, his/her candidature will be summarily rejected. The application of the candidates working over head quarter should be submitted through APO/HQ/NCR/PRYJ and candidates working under Construction Organization should be submitted through Dy.CPO/Const./NCR/HQ/PRYJ.

It may be noted that those employees in the main list and reserved list who fail to express their Willingness / Unwillingness on or before 17.01.2024 will be presumed to be Unwilling to take part in the selection and subsequent claim, if any, in this regard will not be entertained under any circumstances.

It is not necessary that all the employees appearing in Annexure 'A' & 'B' from whom Willingness / Unwillingness and twice failed position has been sought will be eligible to be called in the selection. It will totally depend on their position in the final integrated seniority

list because employees will be called in the selection as per the sliding scale keeping in view the vacancies available. The final eligible list will be issued keeping in view the willingness/unwillingness and twice failed position given by the employees.

4. Pre-Selection Training to SC & ST employees:

The SC & ST candidates shown in Annexure-'A' & 'B' are required to be given pre-selection coaching / training to be organised by the concerned department as per extant instruction contained in Railway Board's letter No. E(GP)2010/2/39 dated 28.08.2019 (RBE No. 142/2019). It is not necessary that all SC & ST candidates shown in Annexure 'A' & 'B' who will be imparted pre-selection training will be called in the selection. Calling them in the selection will depend upon their position in the integrated seniority list.

Dy. CEEs/Sr.DEEs/DEEs/SEEs/AEEs/ADEEs/AXEENs/Officers-in-charge will be personally responsible to spare the staff for pre-selection coaching/training well in time. In case any SC & ST candidate is not interested for pre-selection coaching/training, his/her written refusal may be obtained and sent to this office in original through special messenger before the date of written examination (CBT). All care has been taken to indicate SC & ST status by this office.

However, it may also be checked at your end and ensured that no SC & ST candidate is left out from pre-selection coaching/training and same may be advised to this office.

On completion of the Coaching/Training a certificate to this effect and schedule of pre-selection coaching containing date, time, venue, name of the lecturer, topics/subjects & attendance sheet of eligible SC & ST employees must be sent to this office. Proforma for sending the information is enclosed herewith as Annexure 'E'.

5. Syllabus:

A copy of the syllabus for 70% PQ selection for promotion to Group 'B' posts of AEE/ADEE /AXEEN in Electrical Department, circulated by Railway Board vide letter E(GP)2022/2/4 dated 07.11.2022 is attached as Annexure-'F'.

6. Scheme of Examination:

In terms of Railway board's letter No. E(GP)2022/2/4 dated 07.10.2022, the examination through CBT shall comprise of one paper which shall have 100% Objective type Multiple Choice Questions only. The paper will be of 100 marks and the distribution will be as under-

a	Professional Subject including optional questions of 10 Marks on Official language policy & Rules	:	70 Marks
b	Establishment and financial Rules	:	30 Marks
c	Qualifying marks	:	60 marks with relaxation as per extant rules
d	Duration/ Time	:	Two Hours
e	There shall be negative marking for incorrect answers. One third of the marks allotted for each question will be deducted for every wrong answer (In terms of Para 4.3 of RBE No. 53/2019 dated 19.03.2019)		

7. Written and Viva-Voce:

This selection will comprise of Written/CBT examination followed by viva-voce test. Only those qualify in the Written/CBT examination and pass the prescribed standard of medical examination, as detailed in Railway Board's letters No. E(GP)80/2/8 dated 31/10/91, letter No. 99/H/5/3 dated 21.05.1999, & 18.12.2000, will be called for the Viva-voce test and without medical fitness certificate candidates will not be eligible for attending viva-voce test. In this regard provisions laid down in paras 529 and 530 read with para 503 of IRMM/Volume-I, 3rd Edition 2000, are relevant.

Sr. DPOs, Dy. CPOs, DPOs, SPOs, APOs & controlling officers of the employees may personally ensure that this notification has been communicated to the employees enlisted at Annexure- 'A' & 'B', without fail. Displaying of this notification in the prominent Notice Boards of the respective offices of HQ/Divisions/Workshops/Units may also be ensured.

The notification is also available on this Railway's website – www.ncr.indianrailways.gov.in

(About us → Department → Personnel → NCR Gazetted Section → CBT)

Receipt of this notification may please be acknowledged.

DA: As above.


(Rajesh Kumar Sharma)
Dy. CPO/Gaz
for General Manager (P)

Copy forwarded for kind information to:-

1. Secy. to GM
2. Secy., Estt. (GP), Railway Board, New Delhi
3. PS-I to PCEE.
4. PCPO, CPO/Admn, PCMD
5. CMSs: PRYJ, AGC, JHS & CNB
6. CPRO

Main List - Based on provisional inter-se-seniority list of Group 'C' employees of Electrical Department published / circulated vide letter No. 797-E/Elect./Inter-se-seniority/2023-24 dated 10.01.2024 for selection to the post of AEE/ADEE/AXEEN against 70% PQ selection, special drive to fill up vacancies for Electrical Department.

SN	NAME(S/Sh.)	FATHER'S NAME	CATG	DESIGN	Divn./ WS	STN
1	SATYA PRAKASH SACHAN	CHHOTY LAL	UR	CLI	PRYJ	CNB
2	SANJAY KUMAR AGARWAL (DR)	RAJENDRA PRASAD AGARWAL	UR	SSE	PRYJ	TRD/ PRYJ
3	NARESH KUMAR GOSWAMI	KAILASH CHAND	UR	Ch.LI	AGC	AGC
4	NEERAJ UPADHYAY	VISHWANATH UPADHYAY	UR	Ch.LI	AGC	AGC
5	PRAVEEN KUMAR SONI	PREM NATH SONI	UR	LPM	AGC	DHO
6	TARUN KUMAR SINHGAL	SATISH CHAND GUPTA	UR	SSE	AGC	AGC
7	RAVENDRA SINGH	SAHDEV SINGH	SC	Ch.LI	AGC	AGC
8	RADHEY SHYAM	BHIKAM SINGH	SC	Ch.LI	AGC	AGC
9	RAJEEV KUMAR	GOPAL SHARMA	UR	LPM	AGC	MTJ
10	RAJESH KUMAR SHARMA	R.C.SHARMA	UR	LP/P	AGC	MTJ
11	RAM SINGH JAT	RATAN SINGH KILEDAR	UR	LPP	AGC	DHO
12	SUNIL KUMAR PATHAK	SHIVA KUMAR PATHAK	UR	LP/M	AGC	AGC
13	PRAVEEN KUMAR SHARMA	D.L.SHARMA	UR	Ch.LI	AGC	AGC
14	BABU LAL MEENA (ST)	S.L.MEENA	ST	SSE	PRYJ	CNB
15	PARSHU RAM	RAMDIN	SC	LP/M	JHS	JHS
16	MAHMOOD KHAN	SHAMSHER KHAN	UR.	LI	JHS	JHS
17	PRATAP SINGH	MOHAR SINGH	SC	LI	JHS	JHS
18	RAM BHADUR	REVATI RAM	SC	Ch.LI	AGC	AGC
19	MOTI SINGH	K.P.SINGH	UR	LPM	AGC	AGC
20	AKHILESH KUMAR	MADAN LAL SHARMA	UR	LPM	AGC	AGC
21	DEVENDRA KUMAR GOYAL	S.K.GOYAL	UR	Ch.LI	AGC	MTJ
22	SHAILESH BANSAL	S.C.BANSAL	UR	Ch.LI	AGC	AGC
23	SHAILENDRA KISHORE	KISHORI LAL	SC	LP/M	JHS	JHS
24	RAKESH KUMAR PATHAK	PARMA NAND PATHAK	UR	LPM	AGC	AGC



Main List - Based on provisional inter-se-seniority list of Group 'C' employees of Electrical Department published / circulated vide letter No. 797-E/Elect./Inter-se-seniority/2023-24 dated 10.01.2024 for selection to the post of AEE/ADEE/AXEEN against 70% PQ selection, special drive to fill up vacancies for Electrical Department.

SN	NAME(S/Sh.)	FATHER'S NAME	CATG	DESIGN	Divn./WS	STN
1	M C MISHRA	G C MISHRA	UR	CLI	PRYJ	TDL
2	P K SRIVASTAVA	RAMA PRADAD	UR	CLI	PRYJ	CNB
3	OM PAL SHARMA	MAL KHAN SHARMA	UR	LPM	AGC	MTJ
4	R.K.SINGH	RADHA KISHAN	SC	LI	JHS	JHS
5	UDAI SHANKAR	SHEETAL PD	SC	LI	JHS	BNDA
6	MANOJ KR. SAXENA	RAJENDRA KUMAR	UR	LI	JHS	JHS
7	AJAY SEHGAL	M.L.SEHGAL	UR	LI	JHS	JHS
8	RAVINDRA K. GUPTA	GOVIND DASS	UR	LI	JHS	JHS
9	MANOJ K.SINGH KUSHWAH	BHANWAR SINGH	UR	LI	JHS	JHS
10	S.K.CHAUBEY	O.P.CHOBEY	UR	LI	JHS	JHS
11	SUDHIR K. SHRIVASTAVA	R.M.LAL SHRIVASTAVA	UR	LI	JHS	JHS
12	RAKESH TRIPATHI	SHABHAPATI	UR	LI	JHS	JHS
13	R.R.YADAV	BRIJ LAL YADAV	UR	LI	JHS	JHS
14	R.S.SHRIVAS	CHOTTEY LAL	SC	LI	JHS	JHS
15	SUDHANSU .K.SHRIVASTAVA	DINESH PD	UR	LI	JHS	JHS
16	RAJEEV AGRAWAL	HARISH CHAND	UR	LI	JHS	JHS
17	DEVENDRA K. VIDHYARTHI	GANESH PD	SC	LI	JHS	BNDA
18	A.S.YADAV	CHANDAN SINGH	UR	LI	JHS	JHS
19	SURESH SINGH	RAM JAG SINGH	UR	LI	JHS	JHS
20	V.K. BHATT	MATA PD BHATT	UR	LI	JHS	JHS
21	VIMAL VIJAY	M.L.VIJAY	UR	LI	JHS	JHS
22	PRAKASH CHANDRA	KARAN SINGH	SC	LI	JHS	GWL
23	AJAZ HASAN	M.HASAN	UR	LI	JHS	JHS
24	R.K.SHRIVASTAVA	VISHNU KUMAR	UR	LI	JHS	JHS
25	ASHOK TIWARI	P.D.TIWARI	UR	LI	JHS	JHS
26	R K KUSHWAHA	H P KUSHWAHA	UR	LI	JHS	JHS
27	B P S CHANDEL	H N S CHANDEL	UR	LI	JHS	JHS
28	ASHOK GAUTAM	B L GAUTAM	UR	LI	JHS	GWL
29	ASHOK KUMAR DIXIT	RAM SAHAI DIXIT	UR	LI	JHS	JHS
30	VINOD KUMAR KANNOJIA	SOBARAN LAL	SC	LI	JHS	JHS
31	MOHD ARIF	SAYED MOHD	UR	LI	JHS	JHS
32	RAVINDRA KUMAR TIWARI	RAMESH PD. TIWARI	UR	LI	JHS	JHS
33	JASVINDER SINGH	INDER SINGH	UR	LI	JHS	JHS
34	PARSU RAM SINGH	RAM CHARAN SINGH	UR	LI	JHS	JHS
35	SUBODH KUMAR GUPTA	BABU RAM GUPTA	UR	LI	JHS	JHS



SN	NAME(S/Sh.)	FATHER'S NAME	CATG	DESIGN	Divn./ WS	STN
36	ABARAR HASAN	M.M.HASAN	UR	LI	JHS	JHS
37	DINESH KUMAR GAUTMI	SITA RAM GAUTMI	SC	LI	JHS	JHS
38	RANJEET SINGH	S.D.SINGH	UR	LP/M	JHS	JHS
39	M.K.PRABHAKAR	K.C.PRABHAKAR	UR	LP/M	JHS	JHS
40	ARVIND SRIVASTAVA	M.D.SRIVASTAVA	UR	LP/M	JHS	JHS
41	INDRAJEET SINGH	C.SINGH	UR	LP/M	JHS	JHS
42	ANIL KUMAR TRIPATHI	GIRISH TIWARI	UR	LP/M	JHS	GWL
43	P.D.SHARMA	R.S.SHARMA	UR	LP/M	JHS	JHS
44	R.K.CHATURVEDI	NAND KISHORE	UR	LP/M	JHS	JHS
45	V.K.PARASHAR	R.S.PARASHAR	UR	LP/M	JHS	JHS
46	V.S.DANGI	KUNWAR SINGH DANGI	UR	LP/M	JHS	JHS
47	ALI HASSAN	Z.H.JAFARI	UR	LP/M	JHS	JHS
48	BHAGWAT PRASAD	PURAN LAL	UR	LP/M	JHS	JHS
49	SANJAY KUMAR JAIN	SATENDRA JAIN	UR	LP/M	JHS	JUI
50	M.K.BHATNAGAR	PRITRITHVI S.BHATNAGAR	UR	LP/M	JHS	JHS
51	RAVI KANT SINGH	THAKUR DAS	UR	LP/M	JHS	JHS
52	D.R.SINDHI	HARI RAM SINDHI	UR	LP/M	JHS	JHS
53	SHISHU KANT DWIVEDI	S.R.DWIVEDI	UR	LP/M	JHS	JHS
54	N.C.SRIVASTAVA	S.P.SRIVASTAVA	UR	LP/M	JHS	JHS
55	PRAKASH SAHU	RAM DAS SAHU	UR	LP/M	JHS	JHS
56	M.S.YADAV	MURLI DHAR S.YADAV	UR	LP/M	JHS	JHS
57	A.K.RATRA	VISHAM DAS	UR	LP/M	JHS	JHS
58	H.L.SINGH	SANTA SINGH	UR	LP/M	JHS	JHS
59	VIPIN KUMAR SRIVASTAVA	PREM KISHORE	UR	LP/M	JHS	GWL
60	J.K.CHOKRA	K.K.CHOKRA	UR	LP/M	JHS	JHS
61	PANKAJ AGRAWAL	GOPAL KISHORE	UR	LP/M	JHS	JHS
62	K.K.YOGI	CHHIDAMI LAL	UR	LP/M	JHS	JHS
63	NAZMUL HASSAN	WASIRULHASSAN	UR	LP/M	JHS	JHS
64	R.K.SRIVASTAVA 'C'	BRIJ KISHORE SRIVASTAVA	UR	LP/M	JHS	JHS
65	B.K.UPADHYA	H.N.UPADHAYA	UR	LP/M	JHS	JHS
66	D.K.DUBEY	B.P.DUBEY	UR	LP/M	JHS	JHS
67	V.K.PANDEY	RAJA RAM PANDEY	UR	LP/M	JHS	JHS
68	J.P.RAI	KANHAIYALAL RAI	UR	LP/M	JHS	JHS
69	U.K.YADAV	DINESH KR.YADAV	UR	LP/M	JHS	JHS
70	P.K.SRIVASTAVA	P.C.SRIVASTAVA	UR	LP/M	JHS	JHS
71	HAR CHARAN SINGH	BALWANT SINGH	UR	LP/M	JHS	JHS
72	AVDHESH SINGH	GULAB SINGH	UR	LP/M	JHS	JHS
73	JAMESH GABRIAL	GABRIAL	UR	LP/M	JHS	JHS
74	AJAY DUBEY	RAM SARAN DUBEY	UR	LP/M	JHS	JHS
75	KULDEEP TRIPATHI	RAM PRAKASH TRIPATHI	UR	LP/M	JHS	JHS

SN	NAME(S/Sh.)	FATHER'S NAME	CATG	DESIGN	Divn./ WS	STN
76	T.M.SHARMA	DEVENDRA PD.SHARMA	UR	LP/M	JHS	JHS
77	R.K.SRIVASTAVA D	GIRRAJ SARAN SHRIVASTAVA	UR	LPM	JHS	JHS
78	R.K.PACHAURI	DEVI DAYAL PACHAURI	UR	LP/M	JHS	JHS
79	M.S.U.KHAN		UR	LPM	JHS	JHS
80	S.K.DEORA	ASHA RAM SINGH	UR	LPM	JHS	GWL
81	K.K.MAHORE	B.L.MAHORE	SC	LPM	JHS	GWL
82	RAJ KUMAR DWIVEDI	A.P.DWIVEDI	UR	LPM	JHS	JUI
83	PRADEEP KUMAR KHARE	S.K.SHRIVASTAVA	UR	LPM	JHS	JUI
84	JITENDRA KUMAR	SHIV NARAYAN LAL	UR	LPM	JHS	JUI
85	R.K.KHOEYA	VILASI DASS	SC	LPM	JHS	JHS
86	J.S.VERMA	BACHCHI LAL VERMA	SC	LPM	JHS	JHS
87	R.K.SHRIVASTAVA B	BABU RAM SHRIVASTAVA	UR	LPM	JHS	JHS
88	SATVINDER SINGH	S.DARSHAN SINGH	UR	LPM	JHS	JHS
89	A.K.AGARWAL	C.G.AGARWAL	UR	LPM	JHS	JHS
90	A.K.PATHAK	R.S.PATHAK	UR	LPM	JHS	JHS
91	R.K.GUPTA – B	THAKUR DAS GUPTA	UR	LPM	JHS	JHS
92	RAJENDER KUMAR SAHU	BABU LAL SAHU	UR	LPM	JHS	GWL
93	V.P.SINGH	HAR PAL SINGH	UR	LPM	JHS	JHS
94	K.K.CHOPRA	S.K.CHOPRA	UR	LPM	JHS	JHS
95	TOSHAN KUMAR SHARMA	K.L.SHARMA	UR	LPM	JHS	JHS
96	VIKAS NIGAM	RAJENDRA KU. NIGAM	UR	LPM	JHS	JHS
97	J.K.CHANDWANI	H.L.CHANDWANI	UR	LI	JHS	JHS
98	UJJAWAL RAJAN	G.P.SHRIVASTAVA	UR	LPM	JHS	JHS
99	SANJAY KUMAR TYAGI	J.P.TYAGI	UR	Ch.LI	AGC	AGC

B✓

Declaration to appear in selection to the post of AEE/ADEE/AXEEN (Gr. -'B') against 70% PQ selection,
Special drive to fill up vacancies for Electrical Department.

(It is mandatory to fill each and every column with correct information)

1	I _____ (Name of employee) S/O Shri _____ appearing at Serial No. _____ in Annexure _____ declare that:-			
2	I am _____ (WILLING / UNWILLING) to appear in the written test (CBT) for selection to the post of AEE/ADEE/AXEEN against 70% PQ selection vide notification No. 797-E/Gaz/Gr. 'B' Sele./CBT-Spl./Mech./70%/NCR dated .01.2024.			
3	I PAS number (11 digit employee ID)			
4	HRMS ID			
5	Designation			
6	Mobile No.			
7	e-mail ID			
8	Place of posting			
9	Division/workshop/unit			
10	Controlling officer			
11	DOB (DD/MM/YYYY)			
12	Community (UR/SC/ST)			
13	PwBD or not (Yes / No)			
14	If yes, PwBD category			
15	If PwBD, whether entitled to scribe (Yes/No)			
16	I had earlier appeared in Written Examination of AEE/ADEE/AXEEN Group 'B' against 70% PQ selection for which details are as under:-			
	SN	Date of written examination appeared earlier	Pass (Yes/No)	Fail (Yes/No)
	a)			
	b)			
	c)			
17	I am aware that giving willingness does not entitle me to be compulsorily called in the Written Test (CBT), as it totally depends upon my position in the final inter-se-seniority as well as after finalisation of zone of consideration in terms of Para 3 of notification No. 797-E/Gaz/Gr. 'B' Sele./CBT-Spl./Mech./70%/NCR dated .01.2024.			
18	I hereby declare that all the information given above are true, complete and correct to the best of my knowledge and belief. I understand that in the event of any information given herein, if found false or incorrect or concealed, my candidature will liable to be terminated and D&AR action can be taken against me for this.			

Affix recent passport
size colour
photograph of the
employee duly
attested

(Signature of the employee with date)

Name: _____

File No. _____

Dated: _____

Information furnished in the above table by the employee has been verified & found correct. Forwarded to Dy. CPO/Gaz/NCR/HQ/PRYJ for necessary action.

Signature of Personnel officer/ Controlling officer (with date & office seal)

Annexure - 'E'

Statement of pre-selection coaching of SC/ST employees for selection to the post of AEE/ADEE/AXEEN

(Group 'B') against 70% PQ selection, special drive to fill up vacancies for Electrical Mechanical

Department held from _____ to _____

DATE	Duration/Time		Name of Officer/Lecturer	Venue	Subjects taught
	From	To			

Number of SC/ST candidates who attended pre selection training/coaching : _____

Number of SC/ST candidates who have given refusal to attend pre selection training/coaching : _____.

Number of SC/ST candidates who remained absent during pre selection training/coaching: _____

Syllabus for 70% Selections for promotion to Group 'B' posts of AEE in Electrical Department.

A. Professional Subjects:

Part I: General Electrical Engg.

1. Electrical Circuits: Electrical Circuit Elements (Resistance, Inductance and capacitance), Voltage and Current Sources, Ohm's law, Kirchoff's Voltage and Current Laws, DC & AC circuit analysis.
2. Electronic Devices & Analog Electronics: Semiconductor Diodes, Diode Rectifiers, Bipolar Junction Transistor, JFET, MOSFET, Transistor Biasing Circuits.
3. Power Electronics: Characteristics and comparison of Power Diodes, BJTs, Thyristors, SCR, GTO, IGBT and Power MOSFET. One phase and Three phase uncontrolled and controlled rectifiers, Features and working of Variable Voltage Variable Frequency (VVVF) drives and its applications.
4. Electrical Engg. Materials: Properties & applications of Electrical insulating materials, Magnetic materials, Conducting materials & Semiconducting materials.
5. Electrical Machines: DC Machines, Induction Machines and Synchronous Machines. Losses in rotating machines. Single phase and three phase transformers. Losses and efficiency of transformers, Machine Drives.
6. Renewable Energy Sources: Climate change, Global warming, Various sources of Renewable energy- Resources and applications, Solar Cells, Rooftop solar and land based solar plants- Concepts of Basic Design, construction and maintenance, Off grid and Grid connected solar plants, Wind turbines, Net Zero carbon emission, ECBC, Round the clock green energy, Energy Storage systems, Policies and regulations , Net and Gross metering, Business model, tendering.
7. Power System and Protection: Basic concepts of electrical power generation and various equipment. Concepts of transmission lines, cables, Series and shunt compensation, Electric field distribution and insulators, Distribution systems, Per-unit quantities, Circuit breakers, Concept of protection.

Part II: Railways Electrical Engg.

1. General Services:

- a. Power Supply arrangement: Radial distribution system, Looped(Ring Main)
- b. distribution systems. Layout & Equipment at Distribution sub-station. Operation & Maintenance of sub-station, Various testing at sub-station, overhead & underground distribution, protective devices & their coordination. Construction, erection & commissioning of new sub-station and distribution lines. Basic features of PVC and
- c. XLPE cables. Cable rating and derating, Cable laying. Concept of average

demand, peak demand, load factor & electrical billing. Power factor improvement, Electrical & fire safety, Safety auditing of sub-station, concept of energy audit, Functions of Electrical Inspector to Government (EIG) in Railways. Power line crossing, Electricity Act-2003, CEA Regulations, SCADA and Substation automation. Earthing arrangement.

- d. Building Electrification: Types of various wiring methods, metering & safety measures. Wire, switchgears & fittings used for wiring, Energy efficient appliances, scale of fittings as per policy in various types of quarters, various types of Tariffs, commercial connection, concept of prepaid and postpaid metering, concept of smart meters. Safety coordination, Electrical accidents and prevention.
- e. Illumination & Lighting: Various parameters related to illumination, Different types of illumination sources, lighting methods, classification of lux levels at various types of stations, yard lighting & street lighting. Passenger amenities at Railway stations.
- f. Water supply: Types of water supply system, Pumping system, Classification of pumps, Comparison of various pumps, fluid theory, discharge calculations. Centrifugal pump, turbine pump, Submersible pumps, characteristic curve of pumps, efficiency. Cavitations & priming of pumps, necessity of multistage pumping, storage capacity and purification of water. Installation, maintenance & troubleshooting of pumps, Starter & drives of pumps, automation of pumps.
- g. Lift & Escalator: Working of Lift & Escalator, Installation of Lift and Escalator. Maintenance, various safety devices, control panels & Safety aspects.
- h. Air Conditioning & Refrigeration: Theory of air conditioning, refrigeration cycles, various types of refrigerants, window/split/package AC unit. Central air conditioning plant, VRF system, air cooling systems, planning for capacity and drives for refrigeration plant, Maintenance and troubleshooting.
- i. Energy Conservation: Need of conservation of energy, Various measures being taken by railways to conserve energy in the field of Electrical General Services. Necessity and implementation of Open Access in Indian Railways. Energy conservation Act.

2. Traction distribution:

- a. OHE: Basic design concepts of TRD system of conventional and 2x25kV system. Types of overhead equipment. Sectioning principles of OHE. Various parts of OHE. Foot Patrolling, current collection, Tower wagons, seasonal & cyclic checks, maintenance Schedule, Preventive maintenance Tools, failure investigation of OHE, earthing and bonding. Railway Electrification and process of construction. Power Blocks & Procedure to obtain it.
- b. PSI: Schematics of 1x25kV and 2x25kV traction substation with names/ratings of various equipment, protection scheme for TSS. Fixed and dynamic PF correction, Feeding stations, SSP & SPs, 132 kV transmission lines, PSI equipment.

Maintenance and failure investigation of PSI equipment.

- c. SCADA and Miscellaneous items: Operation and maintenance of remote control, traction power control organization, permit to work, emergency arrangements, coordination with operating and other departments. Liaison with supply authorities, maintenance and failure investigation of SCADA equipment.
- d. NDT techniques, Open Access, safety precautions for electrified sections, Latest development in TRD, MSG meetings. Instructions issued by Railway Board, RDSO's TI/MI, TCs, IRSOD & ACTM.

3. Train Lighting and AC Coaches:

Systems of Train Lighting and Air conditioning on coaches, Self Generating Coaches, ICF TL/AC Coach Generation system. Equipment, circuits and protection in ICF TL/AC coaches. Emergency feed extension in coaches. EOG and HOG systems in coaches - Hotel Load converter and Interlocking panel. Equipment, power circuits and protection systems in LHB TL/AC coaches, Power car and Pantry car. Air Conditioning in ICF/LHB coaches, Heat Load Calculation, Precooling, Pulldown and Dynodrive tests. Maintenance schedules of ICF and LHB coaches. Duties of ACCM/ACCA. Pre-cooling of AC Coaches. Fire causes and prevention measures in coaches. SMIs, Modification Sheets and Technical circulars issued by RDSO and instructions by Railway Board and RDSO.

4. Electric Locos:

Organizational structure and duties of officers & staff. Conventional AC & 3 phase locomotives on IR. Equipment in locomotives, their functioning / operations, maintenance / overhauling and testing parameters & maintenance schedules. Reliability & safety action plans. Traction Power Circuit, Auxiliary Circuit, Control Circuits and Pneumatic Circuits. Different types of braking arrangements. Locomotive maintenance schedules & various tests to be carried out. Working of Electric Loco Shed & Electric Loco Workshop. Safety items and safety checks involved in safe locomotive operation. Relevant paras of ACTM, Accident Manual, G&SR, IR SOD and Instructions issued by Railway Board, RDSO and CLW. Latest developments in the field of electric locomotives.

5. EMU and MEMU/Metros:

Concept of EMU/MEMU/Metro trains, various types of EMU/MEMU stock, Conventional & 3 phase EMUs & their salient features. Different types of brakes used in EMU/MEMU/Metros. Power circuits, auxiliary, control circuits. Mechanical components and its functions. Different electrical equipment and its functions. Inspection/Maintenance/Overhauling schedules of EMUs/MEMU/Metros. Safety precautions and fire prevention in EMU/MEMU/Metros. Train Control Management System(TCMS). Recent developments in EMU/MEMU/Metros.

6. Electric Loco and EMU Operation:

Organizational structure and duties of officers & staff. Crew management – Training, Monitoring & Counseling. Crew & loco links. HOER & Duty Rules. Loco utilization. SPAD (Signal Passing At Danger). Management of Crew lobby, running room, trips shed & TLC / Power controller office. Working of CMS & FOIS. Safe, punctual & efficient loco / EMU operation with online troubleshooting of locomotive / EMU failures. Relevant paras of ACTM, Accident Manual, G&SR, Instructions issued by Railway Board & RDSO. Latest developments in the field of electric locomotives / EMU operations.

7. Store Matters:

Procedure related to procurement of stock items and non-stock items, distribution and accountal of stores. Receipt and custody of stores. Sale of surplus stores. Inventory management, ABC Analysis. Procurement through GeM, IREPS. Schedule of powers under stores matters.

8. Tenders and Contracts:

Work proposals, Types of estimates & estimation stages. Type of tenders, earnest money, Performance guarantee, security deposit, technical & financial eligibility criteria, Merits and demerits of EPC tender. IRPMS. Procedure and stages of e-tendering through IREPS, General Condition of Contract (GCC) for works and service contracts, various provisions in Schedule of Power (SOP) under works matters, Basic principles of Project management, quality control in electrical works.

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, Canons 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