दक्षिणप्वरेलवे/SOUTH EASTERN RAILWAY

मुख्यालय/Headquarters कार्मिकविभाग/Personnel Department, 11, गार्डनरीचरोड/11, Garden Reach Rd, <u>कोलकाता-43/Kolkata-700043</u>

संख्या/No. SER/P-HQ/EM/JE(DE)/DPQ/Syllabus/2025

दिनांक/Dated: 23.01.2025

To,

The Sr. Divisional Personnel Officer, South Eastern Railway/KGP/CKP/RNC/ADA.

To,
The Workshop Personnel Officer,
South Eastern Railway/KGPW

Sub:

Uniform Syllabus for the post of JE(DE) against 25%DPQ in Mechanical Department over S.E.Rly

In order to Standardize the Syllabus for conduction the Selection through CCBT, the Syllabus as enclosed in Annexure-'A', has been prepared for probable candidates of the category of JE(DE), L-6 against 25% DPQ of Mechanical Department over South Eastern Railway. This may be circulated to all concerned so as to enable all the probable candidates to prepare themselves for the forthcoming examinations.

This has the approval of the Concerned HOD.

You are therefore requested for wide circulation of the same and it is also available on the website- www.ser.indianrailways.gov.in.

Encl: Annexure-'A'.

(P.Bhaskar Rao)

Asstt. Personnel Officer (HRMS) कृतेप्रधानमुख्यकार्मिकअधिकारी

for Pr. Chief Personnel Officer

Copy forwarded for information to the:

- 1) Secy. to GM for kind information of GM.
- 2) Secy. to PCME for kind information of PCME.
- 3) PS to PCPO for kind information of PCPO.
- 4) CMPE/GRC.
- 5) Sr. DME/KGP/CKP/ADA/RNC
- 6) APO(HQ).
- 7) APO(Ruling).
- 8) OS/HRMS for uploading in the official website.

Uniform Syllabus for the post of JE(DE) against 25% DPQ in Mechanical Department over S.E.RLY

S.N. 1.	SUBJECT General Abilities			
				a,
		b.	Current Affairs- sports, place and person in news, politics, economics, current national issues.	
	c.	General Knowledge related to Indian Railways- History of IR, trains running between important station, basic information about zonal and divisional Railways, ideas on hierarchy of Indian Railways.		
2.	Professional knowledge on Diesel Electric Locomotives.			
	a.	General information of HHP locomotives.		
	b.	Maintenance practice of traction alternator, traction motor and auxiliary power units, Overhauling of TA, TM. Drop test, ovality check, commuter cable connection, TA deflection, Rectifier, TAV, TAAI		
	c.	Maintenance practices of control and power side of diesel electric locomotives, Meggar test, Relays functionality, contactors (EM and pneumatics), wire connections, master controller fitment and testing, light circuits, protection devices, shunt, resistors.		
	, d.	Basic knowledge of MEP and MCBG, their schedule maintenance practices and periodicity, control cards, ADB, RDBs, sensors, VCDs, Input channels, output channels, Alternator unit, PRS box, MCBG – MEP communication.		
	e.	Maintenance practices of various small motors, CCEM, FPM, Dust exhaust blower motors frequency, voltage and rpm test.		
	f.	Recent modifications of electrical side of diesel electric locomotives, roof mounted grid blower, hatch type grids, rectifier mounted TA, REMMLOT, Woodward Governor to MCBG Governor		
	g.	Various Maintenance schedules of HHP locos.		
	h.	Different types of braking arrangement of HHP locos.		
	i.	Reliability and safety action plan of HHP locos.		
	j.	Starting circuit of HHP locomotives.		
	k.	Load testing, objective of load testing and remedial measures based on observation.		
	1.	Dynamic braking principle.		
	m.	Multiple Unit operation and their testing in Air Brake.		

	1.	Dynamic braking principle.
	m	Multiple Unit operation and their testing in Air Brake.
	n,	Working and attention of Wood ward Governor.
	0.	
	Profe	ssional knowledge on Electric Locomotives.
	a.	Conventional AC & 3 phase Locomotives on IR
	b.	Equipments in locomotives, their functioning / operations, maintenance / overhauling &
		testing parameters & maintenance schedules.
	c.	Traction Power circuit, auxiliary circuit, control circuits and Pneumatic circuits.
	d.	High voltage equipments.
	e.	Safety during working in Electric locomotives.
	f.	Basic Electricity.
	g.	Procedure of isolation of OHE.
	h.	Reliability and safety action plan.
	i.	Different types of Braking arrangement.
	j.	Schedule overhauling and testing of Relay, Contactors, Safety Relays.
	k.	Bogie frame, CBC, Wheels, U / Gear Components, Parameters checking.
	l.	Safety and fire prevention precautions in locomotives.
	m.	Study of circuit diagram, loco testing and trouble shooting.
	Establ	ishment rules
	a.	HOER
	b.	Leave rules, Encashment of leave.
	c.	Pass rules
	d.	D & A rules
-	e.	Medical De-categorization and absorption Medically de-categorized staff
	Stores	Matter and Financial rules
\dashv	Knowl	edge of Rajbhasa