

दक्षिण पूर्व मध्य रेलवे
South East Central Railway
कार्मिक विभाग, मंडल रेल प्रबंधक कार्यालय, बिलासपुर
Personnel Department, Divisional Railway Manager Office, Bilaspur

No-E/SA/Engg/Sel/Suit./JE(P.Way)20%DPQ

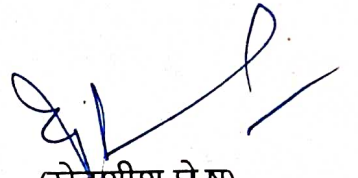
Date:- 01-03-2023

शुद्धिपत्र

अभियांत्रिकी विभाग संबंधित निम्नलिखित त्वरित प्रभावी आदेश जारी किया जाता है:-

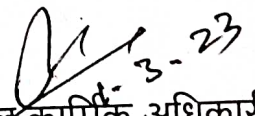
इस कार्यालय द्वारा जारी अधिसूचना 15/2023, दिनांक: 01-03-2023 में संलग्न Annexure-A के सरल क्रमांक 5 में श्री कृष्ण कुमार (भ.नि.सं.39207975030), टीएम-1 की शैक्षणिक योग्यता त्रुटि वश 8th दर्शाया गया है जिसे सुधारकर 12th तथा अधिसूचना के पैरा 4 (ख) में ऊर्मीद्वारे की संख्या 20 दर्शाया गया है जिसे सुधारकर 21 पढ़ा जाए।

उक्त ~~अधिसूचना~~ की अन्य नियम एवं शर्तें यथावत रहेगी।


(सुशील घोष)
सहायक कार्मिक अधिकारी
दिनांक: 01-03-2023

प्रतिलिपि सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

वरि.मंडल अभियंता(समन्वय)/बिलासपुर, उप मुख्य कार्मिक अधिकारी(निर्माण)/बिलासपुर, संबंधित सहायक मंडल अभियंता, संबंधित व.अनुभाग अभियंता(रेलपथ), डीसी/एसईसीआरएमसी, डीएस/एआईएससीएसटीआरईए, डीएस/एआईओबीसीईए, नेटिस बेर्ड।


कृते वरि.मंडल कार्मिक अधिकारी

दक्षिण पूर्व मध्य रेल्वे

South East Central Railway

कार्मिक विभाग, मंडल रेल प्रबंधक कार्यालय, विलासपुर

Personnel Department, Divisional Railway Manager Office, Bilaspur

अधिसूचना:- 15/2023 कनिष्ठ अभियंता(रेलपथ) पद पर पदोन्नति हेतु उपयुक्तता के लिए।

Notification No. 15/2023 :- Suitability test for Promotion to the post of JE(P.Way)

Sub: In order to filling the vacancy of JE(P.Way) Safety category of Engg. Deptt. the competent authority has decided to conduct the suitability test (Written examination). The details are as under:-

विलासपुर मंडल के अभियांत्रिकी विभाग में कनिष्ठ अभियंता(रेलपथ), लेवल -06 पद हेतु योग्यता जांच (लिखित परीक्षा) आयोजित की जानी है, समुदाय अनुसार रिक्तियों का विवरण निम्नानुसार है :

पद / Post	कुल/Total	समुदाय / Category		
		अना./UR	अ.जा./ SC	अ.ज.जा./ST
कनिष्ठ अभियंता (रेलपथ)/ JE(P.Way)	11	09	01	01

(1) कर्मचारियों की योग्यता और सेवा की शर्तें :

कर्मचारियों की शैक्षणिक योग्यता 10 वी पास अथवा ITI तथा ट्रेकमैटनर ग्रेड-I, ग्रेड पे -2800/-, लेवल-05 में 2 वर्ष की सेवा पूर्ण कर चुका हों, वे ही कर्मचारी वरियता के आधार (Seniority Cum Suitability) पर कनिष्ठ अभियंता (रेलपथ) पे बैंड -2, ग्रेड पे- 4200/- लेवल-06 ही योग्यता जांच (लिखित परीक्षा) के लिए पात्र होंगे।

(Authority: PCPO/SECR/BSP's Estt.Srl.No. 273/05, 204/2014, 359/2018 एवं प्र.मु.का.अधि. के पत्र संख्या - का मुख्य ./अरा.संवर्ग/519/विविध/इंजी.-19 /2043 दिनांक 23-03-2018.

(2) उपयुक्त परीक्षा की प्रक्रिया :

(क) कनिष्ठ अभियंता (रेलपथ), लेवल-06 (जीपी 4200) के पद पर पदोन्नति के लिए वरिष्ठता सह उपयुक्तता परीक्षण (लिखित परीक्षा) पूर्व में विभागीय कोटा के लिए कनिष्ठ अभियंता (रेलपथ) पद हेतु 1:1 कर्मचारियों को लिखित परीक्षा के लिए आमंत्रित किया जाता था, परंतु उपयुक्तता (Suitability Test) लिखित परीक्षा में सफल कर्मचारी न मिल पाने के कारण कनिष्ठ अभियंता (रेलपथ) का पद रिक्त रह जाता था। स्थापना क्रमांक 262/67 के अनुसार उपयुक्त कर्मचारी नहीं मिलने पर निरंतरता उपयुक्तता परीक्षण (लिखित परीक्षा) 06 माह के अंदर करानी है। इस संबंध में सक्षम अधिकारी (वरिष्ठ मंडल कार्मिक अधिकारी) के निर्णयानुसार समय संचय हेतु 06 माह में दोबारा परीक्षा आयोजित न करके कर्मचारी को Suitability Test (लिखित परीक्षा) के लिए 1:3 वरियता के आधार पर आमंत्रित किया जाता है, तथा पैनल Suitability Test (लिखित परीक्षा) में सफल उम्मीदवारों के वरियता के आधार पर तैयार किया जाएगा।

ख) लिखित परीक्षा का पाठ्यक्रम (Syllabus) संलग्न है। लिखित परीक्षा के सभी प्रश्न राजभाषा सहित बहुविकल्पीय (द्विभाषीय) होंगे। लिखित परीक्षा कम्प्यूटर आधारित (CBT) होंगी।

ग) वरि.मंडल अभियंता/समन्वय से निवेदन है अ.जा./अ.ज.जा.कर्मचारियों को 3 से 4 सप्ताह के लिए प्री सिलेक्शन कोचिंग की व्यवस्था करें तथा कोचिंग की प्रमाण पत्र इस कार्यालय को लिखित परीक्षा के पहले प्रस्तुत करने की व्यवस्था करें। लिखित परीक्षा की तिथि ब.द.मे.निर्धारित कर सूचित किया जाएगा।

घ) प्रधान मुख्य कार्मिक अधिकारी/विलासपुर के पत्र क्रमांक के अनुसार सफल कर्मचारियों को उच्चतम ग्रेड में पदोन्नति/पदस्थापित करने के पहले प्रमोशनल कोर्स ट्रेनिंग सफलता पूर्वक पूर्ण करना है।

(3) आरक्षण का प्रावधान:

माननीय नवेंद्र न्यायलय द्वारा निर्धारित शर्तों का अनुपालन निम्नानुसार किया गया है

The Suitability is provisional subject to final outcome of the contempt Petitioner (Civil) No. 30621/2011 dt.26-09-2018 in the matter of Jamail Singh & others Vs Lachhmi Narain Gupta & Others at Hon'ble Supreme Court

POPOSSP's Estt. Rule No. 150/2015, 66/21, 123/22 & 155/22 and Letter No.F-HQ/Rd/1052(E-663559) dt.03-02-2023

न्यूनतम नियम नं. 54/2019 एवं 168/2022 अनुसार कनिष्ठ अभियंत (रेलपथ) पद PWBDs श्रेणी हेतु आरक्षित नहीं है।

(4) योग्य उम्मीदवारों की सूची:

क) अनुसूची-A (Main list) में 11 पदों के लिए कुल 33 पत्र कर्मचारियों का नाम है।

ख) अनुसूची-B (Stand by) में कुल 20 पत्र कर्मचारियों का नाम है।

ग) अनुसूची-C में अपत्र कर्मचारियों का नाम है।

संलग्न पत्र सूची एवं प्रतीक्ष सूची में दर्ज योग्य उम्मीदवार दिए गए प्रारूप (Annexure-D) में अपनी इच्छा/अनिच्छा सहित पूर्ण रूप से भरकर उचित मध्यम द्वारा वरिष्ठ मंडल अभियंता/समन्वय कार्यालय में प्रस्तुत करें। तदनुसार कर्मचारियों को वरीयता के आधार पर लिखित परीक्षा के लिए बुलाया जाएगा।

(5) कर्मचारियों के संबंध में सूचना:

वरिष्ठ मंडल अभियंता(समन्वय)/बिलासपुर से निवेदन है अपने अधीनस्थ इकाई पर्वेक्षकों को निर्देशित करें की उक्त अधिनूचन को योग्य उम्मीदवारों के मध्य व्यापक प्रचार प्रसार किया जाए तथा संबंधित इकाई के नोटिस बोर्ड में चस्पा किया जाए जो पूर्णतः वरिष्ठ अनुभाग अभियंत (रेलपथ) के जिम्मेदारी में रहेगा।

(6) अभ्यावेदन/आपत्ति प्रस्तुत करने की अंतिम तिथि (यदि कोई हो)

क) वरिष्ठ मंडल अभियंता(समन्वय)/बिलासपुर कृपया उम्मीदवारों से अनुरोध है कि इच्छा/अनिच्छा एवं अभ्यावेदन/आपत्ति को एक सप्ताह में प्रारम्भ पत्र के मध्य दिनांक 15-03-2023 तक या उससे पूर्व इस कार्यालय को प्रेषित करें। प्रतीक्ष सूची में दर्ज उम्मीदवारों के नाम पर विचार पत्र उम्मीदवारों द्वारा अनिच्छा प्रस्तुत करने पर वरीयता/समुदाय अनुसार किया जाएगा।

ख) उक्त तिथि के पश्चात किसी भी अभ्यावेदन/आपत्ति पर कोई विचार नहीं किया जाएगा।

ग) उक्त अधिनूचन दक्षिण पूर्व मध्य रेलवे के वेबसाइट <http://www.secr.indianrailways.gov.in> में देखी जा सकती है।

Link of the Home page./ Div of SECR → Divisions → Bilaspur →Personnel →Notifications

(सह शीष घेष)
सहायक कार्मिक अधिकारी
कृते, वरिष्ठ मंडल कार्मिक अधिकारी
1.9

प्रतिलिपि: मुख्य कार्यालय अधीक्षक/विलस-III एवं एपीएआर को सलह दी जाती है की सर्व संबंधित पत्र कर्मचारियों की वार्षिक गोपनीय रिपोर्ट सेव अभिलेख पुरस्कार संबंधी विवरण एवं एस.पी.ई./विजिलेंस/डी.ए. क्लियरेंस निश्चित रूप से तैयार रखे।

Eligible staff (Main list)

Annexure-A

Sl.No.	Name(Sri/Smt)	PFNo./NPS No.	Desig	Comm.	STN	Seniority No	Edu. Qualification	Remarks
1	RAMPRASAD DHRUW	39207970742	TM-I	ST	CPH	2	10th	All details as per Service record
2	MOHITRAM	39207550431	TM-I	ST	RIG	5	11th	
3	CHETRAM KHUTE	39207968152	TM-I	SC	BSP	8	12th	
4	CHANDRA KUMAR	39207966600	TM-I	ST	PND	9	10th	
5	KRISHNA KUMAR	39207975030	TM-I	SC	BUA	15	8th	
6	PRADEEP CHANDRA BHOI	39207520724	TM-I	ST	BRJN	16	10th	
7	VIDYA CHARAN URAON	39207968395	TM-I	ST	RIG	17	10th	
8	MANOHAR LAL JANGADE	39207974980	TM-I	SC	BUA	18	11th + ITI	
9	SHANKAR PRASAD SAHU	39207970274	TM-I	UR	BRH	21	10th	
10	VIJAY KUMAR SAHU	39207970171	TM-I	UR	BRH	26	10th	
11	SURENDRA KUMAR VISHWAKARMA	39207970377	TM-I	UR	BRH	27	10th	
12	JWALA PRASAD TANDON	39207968127	TM-I	SC	KGS	30	12th	
13	SUNEEL KUMAR	39207970640	TM-I	SC	CPH	32	B.A.	
14	REMSON PRATAP MINJ	39207970390	TM-I	ST	BRH	33	12th	
15	TAMDHUJ PATLE	39207973251	TM-I	SC	KRBA	34	B.A. +ITI	
16	RAM KUMAR TELI	39207973767	TM-I	OBC	RIG	35	11th	
17	JAYANT KUMAR CHAUHAN	39207977086	TM-I	OBC	MDGR	36	B.A.+ITI	
18	GIRWAR SINGH	39207977116	TM-I	ST	BJRI	37	12th	
19	SANJEEV KUMAR NETAM	39207973342	TM-I	ST	BSP	38	B.A.	
20	BUDHRAM KEWART	39207975351	TM-I	OBC	KRBA	39	B.A.	
21	RAVENDRA SINGH MARAVI	39207976549	TM-I	ST	BRS	40	10th	
22	TAMESHWAR PRASAD MARBAL	39207975363	TM-I	SC	KRBA	41	12th + ITI	
23	ARUN KUMAR RAJWADE	39207977130	TM-I	UR	BRH	42	10th	
24	ARUN PRASAD RAJWADE	39204AB0152	TM-I	OBC	BRH	43	10th	
25	PRAMOD KUMAR	39204AB0521	TM-I	OBC	BRH	44	M.A.+ITI	
26	RAMNATH PATLE	39204AB0578	TM-I	SC	MDGR	45	M.A.	
27	DASHRATH LAL KAMAL	39204AB0580	TM-I	SC	BJRI	46	10th	
28	RAJA RAM VASTRAKAR	39207555155	TM-I	SC	KGS	48	12th	
29	MANAKOO RAM DIWAKER	39207971515	TM-I	SC	KRBA	49	12th +ITI	
30	CHANDRAMA PRASAD MEERE	39207969302	TM-I	SC	KGS	51	10th	
31	BHARAT SINGH PAIKRA	39207972830	TM-I	ST	KGS	53	B.A.	
32	LAVKUSH	39207974942	TM-I	OBC	BUA	54	12th	
33	RAMESH KUMAR SIDAR	39207974115	TM-I	SC	BUA	55	12th	




Stand by list

(Annexure-B)

Sl.No.	Name(Sri/Smt)	PFNo./NPS No.	Desig	Comm.	STN	Seniority No	Edu. Qualification	Remarks
1	DAMODAR PRASAD KANWAR	39207975387	TM-I	ST	KRBA	56	12th + ITI	All details as per Service record
2	PUSPENDRA KUMAR YADAW	39207975946	TM-I	OBC	BUA	57	12th	
3	SITARAM MARAVI	39207976768	TM-I	ST	CPH	62	12th	
4	VIJAY KUMAR MIRI	39207973214	TM-I	SC	KRBA	64	12th	
5	PAWAN KUMAR	39207968620	TM-I	ST	KRBA	67	12th	
6	SHIV PRASAD MIRI	39207973792	TM-I	SC	KRBA	70	12th	
7	SHOBHIT RAM LAHRE	39207976422	TM-I	SC	BUA	71	12th	
8	DASHRATH PRASAD	39207980875	TM-I	OBC	BUA	72	11th + ITI	
9	UMEND RAM KEWAT	39207970961	TM-I	OBC	KGS	73	10th	
10	SANTOSH KUMAR SHRIVAS	39207973858	TM-I	OBC	KGS	74	B.A.	
11	RAJ KUMAR MAHDEVA	39207970134	TM-I	SC	MDGR	76	B.A.	
12	FAGURAM SONWANI	39204AB0416	TM-I	SC	UMR	77	10th	
13	KAILASH CHHADIYAA	39207968115	TM-I	SC	APR	78	10th	
14	BRIDHI CHANDER MINJ	39207974139	TM-I	ST	RIG	83	M.A.	
15	PRAPHUL TETE	39204AB0186	TM-I	ST	BRJN	86	B.A.	
16	DINDAYAL MAITRY	39204AB0233	TM-I	OBC	RIG	87	M.A.	
17	JITENDRA KUMAR	39207AB1046	TM-I	OBC	RIG	88	B.Sc.	
18	ARUN KUMAR	39207AB1107	TM-I	SC	BRS	89	12th	
19	GIRVARDHAN MARBAL	39207966015	TM-I	SC	CPH	90	12th	
20	RAJENDRA KUMAR KARSH	39207972933	TM-I	OBC	CPH	91	12th	
21	RAVI KUMAR KAUSHIK	39209781729	TM-I	OBC	BSP	93	12th	

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Ineligible Staff

Annexre-C								
Sl.No.	Name(Sri/Smt)	PFNo./NPS No.	Desig	Comm.	STN	Seniority No	Edu. Qualification	Remarks
1	BAHADUR SINGH	39207555325	TM-I	UR	BSP	1	5th	All details as per Service record
2	DAYARAM	39207551769	TM-I	UR	BRH	3	8th	
3	LAXMAN LAL	39207551915	TM-I	UR	BRH	4	8th	
4	KAILASH	39207551277	TM-I	UR	RIG	6	Nil	
5	ANAND RAM	39207554679	TM-I	OBC	BRJN	7	8th	
6	RAM CHARAN	39207518912	TM-I	ST	APR	10	Nil	
7	GHANSHYAM	39207555787	TM-I	SC	BRH	11	Nil	
8	PYARELAL	39207970328	TM-I	UR	BRH	12	7th	
9	HEMRAJ RATHOUR	39207553808	TM-I	OBC	PND	13	2nd	
10	RAMJIT	39207556690	TM-I	ST	BRH	14	Nil	
11	RAM CHARAN	39206030002	TM-I	UR	MDGR	19	Nil	
12	BABU RAM	39207510664	TM-I	UR	BJRI	20	Nil	
13	YADAVRAM	39207970330	TM-I	UR	BRH	22	8th	
14	MANMOHAN SINGH	39207970353	TM-I	ST	BRH	23	5th	
15	RAMDAYAL	39207556937	TM-I	OBC	APR	24	Nil	
16	KOSHISH LAL	39207970195	TM-I	UR	BRH	25	6th	
17	RAMAYAN	39207517087	TM-I	OBC	KGS	28	4th	
18	GOPAL	39207551514	TM-I	OBC	PND	29	4th	
19	BRIJENDRA LAL	39207970183	TM-I	UR	MDGR	31	5th	
20	KAMLESH PRASAD DAHAYAT	39204AB0402	TM-I	SC	BRS	47	8th	
21	RAMBHAKT	39207969156	TM-I	OBC	KGS	50	8th	
22	DEWARI LAL YADAW	39207973410	TM-I	OBC	BRJN	52	10th Fail	
23	DINESH KUMAR	39207976896	TM-I	OBC	BRJN	58	8th	
24	JAWAHAR LAL	39207554000	TM-I	ST	PND	59	8th Fail	
25	KRISHNA DHAN	39207970663	TM-I	ST	CPH	60	8th	
26	DASARATH BAG	39207973380	TM-I	ST	BRJN	61	6th	
27	SUKHI RAM YADAV	39207548965	TM-I	OBC	SDL	63	8th	
28	SANTOSH KUMAR KAUSHIK	39207975405	TM-I	OBC	KRBA	65	8th+ITI	
29	HANS RAM	39207968371	TM-I	ST	RIG	66	8th	
30	SHIV PRASAD	39207976252	TM-I	SC	KRBA	68	8th	
31	BHUWANLAL	39207555258	TM-I	OBC	BUA	69	Nil	
32	RAM KRISHANA	39207979083	TM-I	ST	KGS	75	9th	
33	HARIDAS CHARMAKAR	39207976471	TM-I	SC	APR	79	8th	
34	KESHAV PRASAD BELDAR	39204AB0388	TM-I	SC	SDL	80	8th	
35	ABHAYRAM RATHIA	39207965874	TM-I	ST	RIG	81	8th	
36	DILIP KUMAR DANSENA	39207972969	TM-I	OBC	RIG	82	8th	
37	KUBER SA	39207976288	TM-I	ST	BRJN	84	7th	
38	NAROTTAM GANDHA	39207979745	TM-I	SC	BRJN	85	10th Fail	
39	SALIKRAM	39207976434	TM-I	OBC	CPH	92	8th	

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**APPLICATION FOR SUITABILITY (WRITEEN TEST EXAM) FOR THE POST OF JE(P.Way) IN PAY MATRIX
LEVEL-6 AGAINST 20% DPQ OF ENGINEERING DEPARTMENT.**

1. Name of the Employees :
2. PF NO. :
3. Designation/Station :
4. Date of Birth :
5. Community (UR/SC/ST/OBC) :
6. Date of Appointment :
7. Date of Promotion in TM-I :
8. Educational Qualification :
9. Technical Qualification with Trade :
10. Willingness/Unwillingness :

Declaration : I hereby declare that the particulars furnished are true, complete and correct to the best of my knowledge and belief. I understand that, if at any stage it is found that the information furnished is false or incorrect or I do not satisfy/fulfill the eligibility criteria, my candidature/appointment on promotion is liable to be cancelled besides disciplinary action as per rules. I have read the content of the notification and agree to abide by the Rules, regulation and procedure prescribed for promotion to the post of JE(P.Way).

Date:

Signature of the Employee:

Name:

Design./Stn

Mob:

It is certificate that the particulars furnished by the employee are verified with the records available in this office and found to be correct. He/She fulfils the eligibility criteria as stipulated in the notification.

Date:

Signature of the Unit Supervisor

Station:

Name

Design:

Office Seal

Syllabus for Promotional Examination of JE/P. Way against 20% DPQ

ORGANIZATION OF RAILWAYS, DUTIES OF P. WAY STAFF

1 Overview of organization of Railways.
2 Brief introduction to Track and its components particularly related with inspection.

RAILS & JOINTS

1 Rail, Evaluation of Weight and its relation to axle loads.
2 Standard sections, grade, UTS & service life, classification, Rolling marks.
3 Careful loading, unloading, stacking & handling of rails. special precautions for high UTS/ FH rails.

4 Corrosion, Anticorrosion treatment.

5 Wear & its causes.

6 Joints, Types, fish-plate, fish-bolts, anti-sabotage fish-bolts. Combination fish-plates, Skinned fish-plates. Chamfering of bolt holes. expansion/contraction of rails. requirement and provision of gap at joints. gapless/machined joints. Relation to rail temperature.

7 Fracture, codification, Restoration of traffic, how to report.

8 Preservation and testing of fractured rails.

9 USFD: Ultrasonic flaw detection, fundamentals of ultrasonic waves, defect detection, need based concept of USFD, components tested, frequency of testing, marking of defects, action to be taken, brief description of various types of USFD machines and probes used, calibration and sensitivity checking, defect codification, limitations of USFD, SPURT Car.

SLEEPERS & FASTENINGS

1 Concrete sleepers, Mono-block pre-stressed General aspects, Instructions for usability of different sleepers on different routes, main lines and long welded rails, Spl sleepers for L Xings, turnout, SEJ, bridges approach and sharp curves.

2 Precaution for handling of PSC sleepers.

3 Fastenings for PSC sleepers: Malleable cast iron inserts, Elastic Rail Clips, various types, toe load and its measurement, criteria for fastening renewal, Rubber pads, Liners, Anti sabotage arrangements for various sleepers. Creep anchors, method for fixing, Box anchoring, Greasing and anti-corrosive measures.

4 Sleepers at joints & their spacing for concrete sleeper track.

FORMATION & BALLAST

1 Typical sections of track on banks and cuttings for single/double lines on all gauges.

2 Drainage, Slope on top of formation, side and catch water drains.

3 Ballast sections on different routes for straight and curves on single/double lines, On different gauges for fish plated track, SWR and I.WR, Sections for branch lines, Loop and sidings.

4 Quantities for different sections.

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5	Specification for track ballast.
Railway track & track Structure-I	
1	Different Gauges
2	Classification of Routes
TRACK STRUCTURE IN YARDS	
1	Track Structure (yards) Simple layouts, loops, gathering neck, overrun line, shunting neck, hot axle/fuel/stabling siding.
2	Isolation derailing switch, Scotch block, Hay's derail, Sand hump, dead ends, Catch & slip siding, Fouling marks, Restriction in use of 1 in 8½ turnouts on passenger lines.
3	Restrictions regarding change of grade on approaches of turnout.
TURNOUTS - INTRODUCTION	
1	Standard types, Ordinary built-up and high manganese crossings, straight switches, Curved switches, Thick web switches, Derailing, switches, Spring points, other crossing types.
2	Permissible speeds, Restriction on use of 1 in 8½ T/out on passenger running lines, symmetrical split.
TURNOUTS - ASSEMBLY & LAYING	
1	Method of assembling all turnouts, Main dimensions and off sets of lead curve for setting out.
2	Contrary and similar flexure turnouts: Definition.
3	Methods of assembly
4	Main dimensions for setting out, Laying & Maintenance of fan shaped turnouts, Maintenance of Turn outs with reference to CMS crossing.
DIVERSIONS	
1	Definition, Types of diversions.
2	Standard for laying diversions.
3	Calculating length of diversions.
TRACK STRUCTURE -II	
PJEPRI13 LEVEL CROSSINGS 80	
1	Features of track at and in approaches of level crossings, Annual overhauling, Maintenance of road surface and approach track, Check rails- types, correct clearances, Visibility.
2	Requirement Checking of equipments and knowledge of rules of gatemen.
3	Inspection of L-xing, Duties of gatekeeper, Hot axle train parting.
4	Speed breakers, Road sign Boards, Provision of new I.C, Manning, Demanning, interlocking and replacement with ROB, closure, shifting and replacement with limited height subways/ RUBs, Elimination Specification.
BRIDGES & TRACK STRUCTURE ON BRIDGES	
1	Bridges: Track Structure on girder Bridges, ballasted decks, arch bridges, tunnels, provision of guard rails.
2	Importance of maintaining correct gauge, Alignment and tight fastenings, Preparation.
3	Attention to approach track & strengthening, Cleaning of waterway, Checking guard rails.

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Ballast Depot, Training out ballast. DMT operation	
WELDED RAILS	
SHORT WELDED RAILS (SWR)	
1	Conditions of laying. Maintenance of SWR.
2	Gap survey & adjustment of gap.
LONG WELDED RAILS (LWR)	
1	Permitted locations for laying. Track Structure. Laying of LWR.
2	De-stressing - with and without rail tensors.
3	Repairs of Rail fracture.
4	Repairs of buckling.
5	Maintenance precautions. Overhauling. Deep screening. Renewal.
6	Determination of stress free temperature.
7	Inspection of LWR and remedial actions for correction of gaps at SEJ. Hysteresis loop.
8	Competency level to carry out various works in LWR track. Dos & Don'ts.
WELDING OF RAILS	
1	SPW. Wider gap Welding. compressed air preheating. 3 piece mould AT welding technique.
2	Precautions to be observed during AT weld for good quality.
3	Tolerances for finished A.T. welds & FB Welds.
MAINTENANCE	
1	Approved systems. Systematic Maintenance conventional through packing. directed track maintenance and 3-tier system of maintenance.
2	Record of Gang work, Gang chart/diary, Keyman's diary, Mate's diary. 20 Record of work of Artisans and other workmen.
REGULAR MAINTENANCE OPERATIONS	
1	Maintenance of concrete sleeper track.
2	Deep screening.
3	Lubrication of joints and lubrication of rails in straight and on curves. maintenance of rail joints.
4	Incidental works: Creep. Importance of joint gaps. Gap surveys.
5	Buckling.
6	Lifting and lowering of track: Undesirability of lowering maximum lifting/lowering at one time. Provision of ramps at ends. Adequate ballast cushion and drainage after lowering.
7	Overhauling. Maximum wear of xing making up wear by welding. Welding of joints on turnouts. gapless joints for crossing joints.
8	Maintenance in electrified territories. maintenance of track circuited sections. use of insulated trolleys. Gauges and other tools maintenance of insulated joints. glued joints. Felling/Cutting/pruning of trees obstructing view or very close to OHE.
PROTECTION, RESTRICTIONS & INDICATIONS	
1	Hand signals in day and night. Hand flags. Hand lamps. Banner flags. Detonators & fusee, life of detonators, testing. fog signals/fuse.

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| 2 | Engineering, Indicators, Temporary and permanent. |
| 3 | Works of short and long duration, Protection during emergency Caution order. |

PATROLLING

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| 1 | Necessity of patrolling, 10 |
| 2 | Kinds of patrolling i.e. Key men's daily patrol, Gang patrol, Monsoon security, Hot and cold weather patrolling, Watch at vulnerable points, Weather warnings, Single and double frequency patrolling. |
| 3 | Patrol charts, Patrol books and equipments, Selection and duties of patrolmen. |
| 4 | Night checks & Inspections. |
| 5 | Felling/Cutting/pruning of trees obstructing view, very close to OHE. |

MECHANIZED MAINTENANCE

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| 1 | 3 tiers system of track maintenance, Working of MMUs. |
| 2 | Small track machines: types, use in maintenance, spot attention with off track tampers, Troubleshooting and system of repairs & maintenance. |
| 3 | Pre-requisites to tamping and other machine working, Pre & Post and during attentions for tamping and other machine working. |
| 4 | Design mode tamping: survey and procedure of tamping. |

TOOLS & EQUIPMENTS

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| 1 | Measuring tools. |
| 2 | Regular Maintenance Tools. |

TROLLEY/LORRY/DOLLY WORKING

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| 1 | Distinction between Trolley, Lorry & motor Trolley. |
| 2 | Protection, Working of rail dolly and its protection. |

RECONDITIONING OF MATERIALS AND TOOLS

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| 1 | Reconditioning of worn out crossings and switches, type of electrodes used. |
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SAFETY**CURVES****HORIZONTAL CURVES**

- | | |
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| 1 | Degree of curve, Types of curves, Relation between degree, Radius, Chord and versine, Standard chords to be used for stringing. |
| 2 | Record in SE/P.Way's curve register checking of alignment after derailments and for turn in and turnout curves. |
| 3 | Super elevation / equilibrium cant, Maximum cant for normal and high speed trains, Cant deficiency and cant excess, Formula for safe speed on curves, Equilibrium speed, Calculation of cant to be provided and permissible speed, Transition length, Maximum cant gradient, Rates of running out of cant and cant deficiency. |
| 4 | Types of curves, Setting out of curves, Cubic parabola off sets for setting out transition curve, Shift calculations for setting out complete curve with theodolite. |
| 5 | Miscellaneous - Running out cant on transitioned curves, Gradient rail, Laying of rails on curves, Mid stagger joints and on sharp curves, Curve |

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	markers and cant boards. Lubrication on curves.
6	Widening of gauge on curves. Extra clearance on curves. Minimum length of straight between reverse curves.
7	Curves with similar and contrary flexure. Calculation of cant to be provided and permissible speed. Curve with X-over and diamonds.

VERTICAL CURVES

1	Calculations and setting out a vertical curve. Level pegs for accurate maintenance.
2	Vertical curves on LWR.

REALIGNMENT OF CURVES

1	Re-alignment of curves. String lining of curves. Need for curve Adjustment.
2	Calculations of slews by double summation method.
3	Slewing to revised versine. Local adjustment.
4	Optimization method of curve realignment.

TRACK RENEWALS

1	Casual renewals. Complete track renewals. Through rail renewals. Through Sleeper renewals. Through fitting renewal and through ballast renewal.
2	Criteria for unserviceability for casual renewals.
3	Criteria for various track renewal works.
4	Methods of renewals. Preparation. Labour Organisation. Tools. Ballast.
5	Careful handling of materials. Speed restrictions and post relaying attention
6	Picking of released materials. Classification & disposal. Relaying with PQRS equipment. Record of relaying. Track relaying train. Relaying of turnout with T-28. New track laying standards. Handing over/Taking over of new track.

INSPECTIONS, TRACK RECORDING & MONITORING

1	Riding quality. TGI. Track geometry. Condition of track structure. Correct methods of work. Testing knowledge of rules.
2	Inspection of Points & Crossings. Curves & other special Structure and their frequency of inspection.
3	2 Method of Inspection: Push trolley. Motor trolley. Foot inspection. Engine & Rear van Inspection. Amsler car. TRRC. Oscillograph car. OMS.
4	Inspection of track geometry. inspection of Gang's work: quality, methods, progress, tools and equipments. knowledge of rules. attendance. Gang chart and diary. inspection of finished work. Inspection of bad riding spots. spots identified by TRC for urgent maintenance. Systematic measurement and investigation of defect.

ACCIDENTS & DISASTER MANAGEMENT

1	Duties of JE-II/P. Way in disaster management.
2	Sounding of hooters & classification of accidents.
3	Action to be taken on reaching site. First aid. preservation of clues. Assessment of men and materials for restoration. Recording site and track particulars. Preparation of a sketch. Expeditious restoration.
4	Drivers report on bad riding. Branches & its types. Prevention & action during breach. Vigilance on Railway Affecting tanks

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TMS

- 1 Track Management System: Introduction to TMS, purpose, advantages, main features.

CONTRACT MANAGEMENT

- 1 Various registers to be maintained for progress, Quality, safety of contractors persons, Safety measures at work site.
- 2 Preparation of Contractor's On-Account/Running & Final Bills, Material Statements, Maintenance Period.
- 3 Hiring of tools and plants to Contractors.
- 4 Duties towards payment to contractor's labour and maintenance of records as per labour laws.

LAND MANAGEMENT

- 1 Demarcation of land boundaries.
- 2 Type of encroachments and PPE Act.

OFFICE & STORES

- 1 Procuring of office stationary and stores, Procuring of P. Way stores for maintenance and for special works, Classification of stores, Accountal of stores, Stock verification reports, Disposal of scrap & surplus stores, Overhauling of stores, Numerical ledgers & inventory control, Section register of SE/P. Way.
- 2 Classification of stores, Stock verification, Stock sheet, Submission of returns, Inventory control, Maintenance of DMTR and ledgers, Submission of store returns in time, Materials at site register, Imprest Store, T&P Store.
- 3 Functioning of divisional Stores Depots and Track Depot, Requirement of materials for casual renewal and sanctioned renewals, Working out list for track materials, Proper care & upkeep of store.

PERSONNEL

- 1 Wage period, Bill preparation, Filling up of TA & OT Journals, Witnessing of payment, unpaid wages.
- 2 Passes and leave.
- 3 Establishment Records in SSE/ JE P Way office.
- 4 Settlement:- PF, Pension, Gratuity, Leave Encashment: Filling up of Pension Booklet.
- 5 Railway Services (Conduct) Rules, D&A Rules.
- 6 Categories of staff under Hours of Employment Regulations.
- 7 Labour Laws- overview: Display of Statutory Notices, Inspection by Labour Enforcement Officer.
- 8 Payment of Wages Act, Minimum Wages Act, Contract Labour Act.
- 9 Workmen's Compensation Act, Action in case of injury on duty, Ex- Gratia Payment.

RAJBHASHA

- 1 Directives in use of Raj Bhasha in day-to-day working.

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