

दक्षिण पूर्व मध्य रेल्वे
South East Central Railway

कार्मिक विभाग, मंडल रेल प्रबंधक कार्यालय, बिलासपुर
Personnel Department, Divisional Railway Manager Office, Bilaspur

अधिसूचना:- 17/2024 कनिष्ठ अभियंता(रेलपथ) पद पर पदोन्नति हेतु उपयुक्तता के लिए।
Notification No. 17/2024 :- 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:-

बिलासपुर 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)	01	01	00	00

(1) कर्मचारियों की योग्यता और सेवा की शर्तें :

(क) कर्मचारियों की शैक्षणिक योग्यता 10 वी पास अथवा ITI तथा ट्रेकमैन्टनर 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. 273/2005, 204/2014, 359/2018 एवं प्र.मु.का.अधि. के पत्र संख्या-P-HQ/RUL/105/3/ E/6969 दिनांक 23-08-2017).

(ख) कनिष्ठ अभियंता (रेलपथ) पद संरक्षा श्रेणी के अंतर्गत आने के कारण अनुसूचित जाति/अनुसूचित जनजाति समुदाय के उम्मीदवारों के लिए कोई छूट की अनुमति नहीं है। उन्हें लिखित परीक्षा में 60% अंक प्राप्त करने अनिवार्य होंगे।

(Authority: PCPO/SECR/BSP's Estt.Srl.No. 266/1999),

(ग) अनिवार्य पदोन्नति प्रशिक्षण में उत्तीर्ण सफल उम्मीदवारों को ही कनिष्ठ अभियंता (रेलपथ) के पद पर पदोन्नति प्रभावित होंगी। इसलिए प्रशिक्षण से पहले सेवानिवृत्त होने वाले कर्मचारियों को पदोन्नति नहीं किया जा सकता है।

(प्र.मु.का.अधि. के पत्र संख्या-P-HQ/RUL/105/3/ E/6944, दिनांक 03-01-2020)

(2) उपयुक्तता 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 266/99 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। लिखित परीक्षा की तिथि बाद में निर्धारित कर सूचित किया जाएगा।

[Handwritten signature and date 16/12]

ग) अनुसूचित जाति/अनुसूचित जनजाति की रिक्ति नहीं होने के कारण के वरिष्ठता के अनुसार अनुसूचित जाति/अनुसूचित जनजाति के उम्मीदवारों को पदोन्नति-पूर्व प्रशिक्षण देना अनिवार्य नहीं है।

(प्र.मु.का.अधि. के पत्र संख्या-P-HQ/RUL/105/2, दिनांक 13-07-2023)

ड) कनिष्ठ अभियंता (रेलपथ) पद संरक्षा श्रेणी का होने के कारण लिखित परीक्षा में सफल उम्मीदवारों को चिकित्सा श्रेणी (Medical classification) A 3 पास होना अनिवार्य है तथा पैनल में सफल उम्मीदवारों को उच्चतम ग्रेड में पदोन्नति/पदस्थापित करने के पहले प्रमोशनल कोर्स ट्रेनिंग सफलता पूर्वक पूर्ण करना है।

(3) आरक्षण का प्रावधान:

माननीय सर्वोच्च न्यायालय 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 Jarnail Singh & others Vs Lachhmi Narain Gupta & Others at Hon'ble Supreme Court

(PCPO/BSP's Estt. Rule No. 150/2016, 66/21,123/22 & 165/22 and Letter No.P-HQ/Rul/105/2(E-86359) dt.03-02-2023)

स्थापना नियम संख्या 54/2019 एवं 168/2022 अनुसार कनिष्ठ अभियंता(रेलपथ) पद PWBDs श्रेणी हेतु आरक्षित नहीं है।

(4) योग्य उम्मीदवारों की सूची :

क) अनुलग्नक -A (Main list) में 01 पदों के लिए कुल 03 पात्र कर्मचारियों का नाम है।

ख) अनुलग्नक -B (Stand by) में कुल 12 पात्र कर्मचारियों का नाम है।

ग) अनुलग्नक -C में अपात्र कर्मचारियों का नाम है।

संलग्न पात्र सूची एवं प्रतीक्षा सूची में दर्ज योग्य उम्मीदवार दिये गए प्रारूप (Annexure-D) में अपनी इच्छा/अनिच्छा सहित पूर्ण रूप से भरकर उचित माध्यम द्वारा वरि.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 :

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

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

क) वरि.मंडल अभियंता(समन्वय)/बिलासपुर कृपया उम्मीदवारों द्वारा प्राप्त इच्छा/अनिच्छा एवं अभ्यावेदन/आपत्ति को एक समूह में प्रावरण पत्र के साथ दिनांक 29-02-2024 तक या उससे पूर्व इस कार्यालय को प्रेषित करें। प्रतीक्षा सूची में दर्ज उम्मीदवारों के नाम पर विचार पात्र 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 अधिसूचना 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

(सधेवेंद्र सिंह)

सहायक कार्मिक अधिकारी
कृते, वरिष्ठ मंडल कार्मिक अधिकारी

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

Annexure-D

APPLICATION FOR SUITABILITY (WRITTEN 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 :
(Copy enclosed)
9. Technical Qualification with Trade :
(Copy enclosed):
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

Handwritten signature in blue ink.

Eligible staff (Main list)

Annexure-A

No.	Name(Sri/Smt)	PFNo./NPS No.	Desig	Comm.	STN	Seniority No	Edu. Qualification	Remarks
1	MOHITRAM	39207550431	TM-I	ST	RIG	5	11th	All details as per Service record
2	CHETRAM KHUTE	39207968152	TM-I	SC	BSP	7	12th	
3	CHANDRA KUMAR	39207966600	TM-I	ST	BHTK	8	10th	

Eligible staff (Stand by list)

Annexure-B

Sl.No.	Name(Sri/Smt)	PFNo./NPS No.	Desig	Comm.	STN	Seniority No	Edu. Qualification	Remarks
1	PRADEEP CHANDRA BHOI	39207520724	TM-I	ST	BRJN	13	10th	All details as per Service record
2	VIDYA CHARAN URAON	39207968395	TM-I	ST	JMG	14	10th	
3	SHANKAR PRASAD SAHU	39207970274	TM-I	UR	BRH	15	10th	
4	VIJAY KUMAR SAHU	39207970171	TM-I	UR	SJQ	20	10th	
5	SURENDRA KUMAR VISHWAKARMA	39207970377	TM-I	UR	KJZ	21	10th	
6	SUNEEL KUMAR	39207970640	TM-I	SC	GTW	26	B.A.	
7	RAM KUMAR TELI	39207973767	TM-I	OBC	RIG	29	11TH	
8	ARUN KUMAR RAJWADE	39207977130	TM-I	OBC	BRH	36	10th	
9	ARUN PRASAD RAJWADE	39204AB0152	TM-I	OBC	BSPR	37	10th	
10	PRAMOD KUMAR	39204AB0521	TM-I	OBC	NGE	38	M.A.+ITI	
11	RAMNATH PATLE	39204AB0578	TM-I	SC	MDGR	39	M.A.	
12	DASHRATH LAL KAMAL	39204AB0580	TM-I	SC	HRV	40	10th	

1629

Ineligible Staff

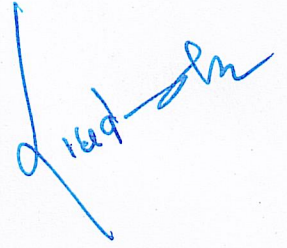
Annexre-C

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	Due to Qualification
2	DAYARAM	39207551769	TM-I	UR	BRH	3	8th	
3	LAXMAN LAL	39207551915	TM-I	UR	BRH	4	8th	
5	ANAND RAM	39207554679	TM-I	OBC	BRJN	6	8th	Due to Qualification
6	RAM CHARAN	39207518912	TM-I	ST	APR	9	Nil	
7	PYARELAL	39207970328	TM-I	UR	BRH	10	7th	
8	HEMRAJ RATHOUR	39207553808	TM-I	OBC	PND	11	2nd	
9	RAMJIT	39207556690	TM-I	ST	BRH	12	Nil	
10	YADAVRAM	39207970330	TM-I	UR	BRH	16	8th	
11	MANMOHAN SINGH	39207970353	TM-I	ST	BRH	17	5th	
12	RAMDAYAL	39207556937	TM-I	OBC	APR	18	Nil	
13	KOSHISH LAL	39207970195	TM-I	UR	BRH	19	6th	
14	RAMAYAN	39207517087	TM-I	OBC	KGS	22	4th	
15	GOPAL	39207551514	TM-I	OBC	PND	23	4th	
16	BRIJENDRA LAL	39207970183	TM-I	UR	MDGR	25	5th	

NOTE:

(i) All details as per Service

(ii) Sl.No.2, 24, 27, 28, 30, 31, 32, 33, 34 & 35 are already empanlled vide this office memorandum no 400/2023, dt.18-05-2023. for the post of JE(P.Way) & under training.



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.
- 3 Duties of JE/P-Way and inspection schedule of JE/P-Way.

RAILS & JOINTS

- 1 Rail, Evaluation of Weight and its relation to axle loads.
- 2 Standard section, grade, UTS & service life, classification, Rolling marks.
- 3 Careful loading, unloading, stacking & handling of rails, special precautions for high UTS/HH rails.
- 4 Corrosion, Anticorrosion treatment.
- 5 Wear & its causes. Wear limits of different rail section.
- 6 Joints, Types, fish-plate, fish-bolts, anti-sabotage, fish-bolts, Combination fish-plates, Skimmed 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, type of defects & action to be taken, brief description of various types of USFD machines and probes used, calibration and sensitivity 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/Wide base PSC sleeper 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 of different routes for straights and curves on single/double lines. On different gauges for fish plated track. SWR and LWR. Sections for branch lines, Loop and sidings. Requirement Ballast Cushion required for various routes.
- 4 Quantities for different sections.
- 5 Specification for track ballast.

Railway Track & Track Structure-I	
1	Different Gauge
2	Classification of Routes
TRACK STRUCTURE IN YARDS	
1	Track Structure(Yards), Simple layouts, loops, gathering lines, overrun line, shunting neck, hot axle/fuel stabling siding.
2	Isolation derailing switch, Scotch block, Sand hump, dead ends, Catch & slip siding. Fouling marks. Restriction in use of 1 in 8.5 turnouts on passenger lines.
3	Restrictions regarding change of grade on approaches of turnouts.
TURNOUTS – INTRODUCTION	
1	Standard types, ordinary built-up and Cast manganese crossings, Straight switches. Curved switches, Thick web Switches, Derailing switches, Spring points, Other crossing types. Permissible wear limits of crossing and tongue rail, Turn in/ Turnout curve.
2	Permissible speeds, Restrictions on use of 1 in 8.5 Turnout on Passenger Running Lines, Symmetrical split.
TURNOUTS- ASSEMBLY & LAYING	
1	Method of Assembling all Turn Outs, 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 and 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	
LEVEL CROSSINGS	
1	Features of track at and in approaches of level crossings, Annual overhauling, maintenance of road surface and approach track, Check Rails-types, correct clearance, , Visibility, Classification of LC
2	Requirement Checking of equipments and knowledge of rules of Gatemen.
3	Inspection of L-Xing, Duties of Gate Keeper, Hot axle train parting.
4	Speed breakers, Road sign Boards, Provision of new LCs, Manning, De-Manning, Interlocking & replacement with ROB, closure, shifting and replacement with limited height subway/RUBs, Elimination Specification.
BRIDGES AND 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 & tight fastenings, preparation.
3	Attention to approach track and strengthening, Cleaning of water way, Checking guard rails

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 fractures.
- 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 pre heating, 3 piece mould AT welding technique.
- 2 Precautions to be observed during AT welding for good quality.
- 3 Tolerance for finished AT welds and 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, Record of work of Artisans and other workmen.

REGULAR MAINTENANCE OPERATIONS

- 1 Maintenance of concrete sleeper track.
- 2 Deep Screening.
- 3 Lubrication of joints & 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 & 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 of xing joints.
- 8 Maintenance in electrified territories, maintenance of track circulated 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 & ENGINEERING INDICATORS

- 1 Hand signals in day and night, Hand flags, Hand lamps, Banner flags, Detonators & Fuse, Life of detonators, testing, fog signals/fuse.
- 2 Engineering, Indicators, Fixing of Engineering Indicator for various works. Temporary and Permanent Speed restrictions. Speed restrictions for various works.
- 3 Works of short and long duration, Protection during emergency Caution order.

PATROLLING

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

MECHANIZED MAINTENANCE

- 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 of plain track & turnout tamping and other machine working like BCM, PQRS, TRT, T-28, etc. Pre & Post and during attentions for tamping and other machine working.
- 4 Design mode tamping : Survey and procedure of tamping.

TOOLS & EQUIPMENTS

- 1 Measuring tools.
- 2 Regular Maintenance Tools.

TROLLY/LORRY/DOLLY WORKING

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

RECONDITIONING OF MATERIALS AND TOOLS

- 1 Reconditioning of worn-out crossings and switches, type of electrodes used.

SAFETY**CURVES****HORIZONTAL CURVES**

- 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 on sharp curves, Curve 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 und 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.

SAFETY EQUIPMENTS & TRAINING

1. Detonator and its life.
2. Training of Mate, Keyman & Trackman.
3. Category of Medical Examination.
4. Authorized level of supervision for various track works.

SCHEDULE OF DIMENSION-2022

1. Standard Dimension for new/existing work(Chapter-I)
2. Standard Dimension related to Station Yards(Chapter-II)
3. Standard clearance for various structures pertaining to track.

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, TRC, Oscillography 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, Frequency of TRC/OMS, Systematic measurement and investigation of defect.

ACCIDENTS & DISASTER MANAGEMENT

- 1 Duties of JE/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, Breaches & its types, Prevention & action during breach, Vigilance on Railway Affecting tanks.

CE-MIS (TMS)	
TMS	
1	Track Management System: Introduction to TMS, purpose, advantages, main feature.
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 stationery 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.
2	Rajbhasha Act 1963 & Rajbhasha Rules-1976