

रेल पहिया कारखाना
RAIL WHEEL FACTORY
(रेल मंत्रालय/Ministry of Railways)

महाप्रबंधक का कार्यालय/General Manager's Office,
कार्मिक विभाग/Personnel Department.
यलहंका, बेंगलूरु/Yelahanka, Bangalore-560 064.

NOTIFICATION

Sub: Formation of the panel for the post of Junior Engineer in Level -6 of RS(RP) Rules' 2016 in the Mechanical department.

It is proposed to conduct selection for formation of a panel in the post of Junior Engineer in level -6 of RS(RP) Rules'2016 against the 25% promotional quota in the various seniority units of Mechanical department.

The vacancies in each seniority unit with break-up of reservation for filling up the above posts in various seniority units of Mechanical department is as under:

Seniority Unit	SC	ST	UR	Total No. of vacancies
Wheel Unit	NIL	1	4	5
Axle Unit	NIL	1	2	3
Maintenance unit	1	NIL	2	3

The above selection will consist of a written test and perusal of records. The written test will be held on 12.12.2018 (Wednesday) at 14.00 hrs, in the Technical Training Centre /RWF/YNK.

WHEEL UNIT:

The following Senior Technicians/Wheel Unit Operators in level -6 of RS(RP) Rules'2016 of Mechanical department are eligible to appear in the above selection. :-

Sl. No	Staff No.	Name (S/Shri/Ms.)	Place of Working
1	073576	Mahaboob Saheb D	MR
2	068101	Nataraja N.K. (ST) against reserved post	MR
3	074253	Sekar P	WFPS
4	073701	Shivanapur Ganesh Raghavendra	MR
5	073795	Kalyan Kumar Tripathi	MR
6	068128	Krishnamurthy L (ST) against reserved post	WFPS
7	074384	Shailendra A	MR
8	073664	Paramashivaiah	PCO
9	074034	Vasuki K	SMS
10	074018	Sudhakaran V.K.	SMS
11	073736	Ashok M. Mathapathi	MR
12	075133	Koothan P (SC)	MR
13	074368	Moulali Saheb Mulla	WFPS
14	073752	Rajaraman J	MR
15	068275	Dattatreya (ST) against reserved post	MR

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For
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AXLE UNIT:

The following Senior Technicians/Axle Unit Operators in level -6 of RS(RP) Rules'2016 of Mechanical department are eligible appear in the above selection:-

Sl. No	Staff No.	Name (S/Shri/Ms.)	Place of Working
1	071829	Abdul Khuddus	Axle Assy.
2	071790	Seetharamaiah	AFS
3	071351	Basanagouda Patil	AFS
4	071327	Shivanna Y	AFS
5	071378	Manishankar Das	AFS
6	072055	Pandian K (SC)	PCO
7	075571	Shantha Kumar (ST) against reserved post	AFS
8	079468	Rohitlokesha (ST) against reserved post	AMS
9	069542	Rajashekara B.M. (ST) against reserved post	Axle Assy.

MAINTENANCE UNIT:

The following Senior Technicians of combined seniority of Fitter Maintenance, Machinist and MMV in level -6 of RS(RP) Rules'2016 of Mechanical department are eligible appear in the above selection. :-

Sl. No	Staff No.	Name (S/Shri/Ms.)	Place of Working
1	072311	Chandrasekharan V	Machinist/WFPS
2	072354	Sham Vasanthrao Mahindrakar	FM/ASM
3	071407	Dhruva Rajendra N.D.	FM/ASM
4	072418	Jeyaraju V	MMV/RTS
5	075432	Ramaiah K (ST)	Machinist/WFPS
6	072506	Raghavendra K Kulkarni	FM/WSM
7	073007	Sundararajan G (SC) against reserved post	FM/MWFPS
8	074982	Jagatheeswaran T.R (SC) against reserved post	FM/WSM
9	076347	Devaprasad H.K. (SC) against reserved post	MMV/RTS

The above field of candidates in each of the seniority units has been constituted based on the entry of the said employees in the category of Technician Gr.I in the pre-revised scale Rs.4500-7000 (i.e. Level -5 of RS(RP) Rules 2016), prior to 22.02.2005, keeping in view the instructions contained in Railway Board's letter No. E(NG)I/99/PM7/3 Dated 22.02.05.

The qualifying marks for the above selection is prescribed as under:

Factors/Heading	Maximum Marks	Qualifying Marks
(i) Professional ability	50	30
(ii) Record of Service	30	-
(iii) Seniority	20	-
	100	60

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Candidates must obtain a minimum of 60% marks in professional ability and 60% marks of the aggregate for being placed on panel. Usual relaxation for SC/ST candidates in the qualifying marks SC/ST is applicable.

The names of selected candidates will be arranged in order of seniority but those securing a total of 80% or more marks will be classified as outstanding and placed in the panel appropriately in order of their seniority allowing them to supersede not more than 50% of total field of eligibility.

In terms of Railway Board's letter No. E(MPP) 2013/3/22 dated 26.09.2014, the Junior Engineers selected against promotional quota should undergo 13 weeks training. The training module will constitute of 8 weeks of Theoretical training at STC and 4 weeks of Practical training - one week each each at Production Unit/POH Workshop and two weeks on the job in the parent unit. The last one week of training will be at STC for exam/viva etc.

A supplementary written test will be conducted, in terms of Para 223 of Indian Railway Establishment Manual Vol.I under the following circumstances.

- (a) Summons for written test being received too late by the candidates making it difficult for him/her to reach the place of written test.
- (b) Administration's failure to relieve him in time for written test.
- (c) Sickness of the candidate or other reason over which the employee has no control. Sickness should be covered by a specific certificate from the Railway Medical Officer.

Candidates have the option to answer in Hindi or in English in the written test. In case, the candidates are willing to answer in Hindi, this office may please be advised in advance, but not later than **23.11.2018**.

If any of the above employees are unwilling to appear for the selection, their clear and unconditional unwillingness may please be obtained in the proforma enclosed and forwarded to this office on or before **23.11.2018**. In case, no unwillingness is received by 23.11.2018, it will be presumed that all the above the candidates are willing to appear in the selection.

The Syllabus for the written examination for the post of Junior Engineer/Mechanical is enclosed as Annexure-I. Part A i.e. General Subjects will be common to all the seniority units and Part B i.e. Technical Subjects, separately for Wheel Unit, Axle Unit and Maintenance Units.

If any candidate/s indicated above are on long leave, training, deputation, placed on sick list etc. intimation regarding this notification should be sent to their personal address and their acknowledgement obtained and forwarded to this office. The responsibility of sending intimation to their personal address rest with the controlling officers.

 12/11/18
सहायक कार्मिक अधिकारी-I

Encl: as above.

ASSISTANT PERSONNEL OFFICER -I

NO. RWF/PM-36/761 Dated 12.11.2018.

Copy for information to:-

PCME, CME/Planning, CWE/W, CWE/A/RWF/YNK.

All Dy.CMEs/Mech. Dept. Dy.CPM/RWF/YNK

All WMs/Mech.

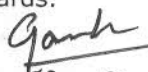
All AWMs/Mech/RWF/YNK.

SSEs Concerned/RWF/YNK.

Employees concerned, through their respective controlling Officer/s.

SEE/TTC/RWF/YNK. It is required to make necessary seating arrangements in connection with the above written test, on the above mentioned date.

All Notice Boards.

 12/11/18
कृते प्रधान मुख्य कार्मिक अधिकारी

for PRINCIPAL CHIEF PERSONNEL OFFICER.

Syllabus for the post of Junior Engineer/Mechanical in Level -6 RS(RP) Rules'2016 of Mechanical department.

PART-I GENERAL SUBJECTS:-

1. Factories Act.
2. Leave Rules.
3. Pass Rules.
4. Discipline and appeal Rules.
5. Railway service conduct rules.
6. Industrial safety.
7. Time Management.
8. Procedure Order for opening and closing of work orders.
9. Procedure Order for labour accountal system.
10. Procedure Order for booking of idle time.
11. Salient features of Employees Compensation Act.
12. Official language policy.
13. Integrated Management System (IMS) and 5-S.

PART-II - TECHNICAL SUBJECTS- WHEEL UNIT.

1. Details of Melting practices, Moulding Room area Practices and Cleaning Room area Practices
2. Layout of various areas of the wheel shop including major equipment detail and their working.
3. Type of defects on wheel attributable to melting area, Moulding area and Cleaning area.
4. The remedies/solutions for rectifying the various type of defects attributed to each area.
5. Details of the various process operation in Melting, Moulding and Cleaning area.
6. Heat Treatment procedures for Wheel with special reference to cast steel wheels.
7. Details of specification of the various production consumables used in melting, Moulding and Cleaning areas, including those used in Mould Repair Shop.
8. Standards of Inspections of Wheels in Cleaning Room.

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PART-II TECHNICAL SUBJECTS- AXLE UNIT

(i) Axle Forge/Machine Shop :

1. Type and procedure of testing of samples for the BG/MG Loco/Carriage/Wagon axles in Laboratory before machining.
2. Type of inserts used in Axle Machine Shop for machining various types of axles.
3. Types of conveyors in Machine Shop.
4. Coolant used and their properties in Machine Shop.
5. Use of jigs and fixtures and their advantages.
6. Operation details in Machine Shop at various stations.
7. Change over sequences adopted for conversion from one type of Axle to another at various Stations.
8. Defects found in the MPT Stations as well as in UT Stations and the reasons thereof.
9. Layout of Machine Shop.
10. Type of equipment used in Axle Forge Shop and its layout.
11. Precautions and method of starting the furnaces.
12. Importance of raising furnace temperature and reason thereof. Rate of heating and cooling furnaces, after they are shut down - reasons.
13. Forging ratio and the effects of forging on the structure.
14. Types of heat treatment carried out at Axle Forge Shop with examples and flow details with timings.
15. Forging sequence for different types of Axles.
16. Heat treatment sequence for different types of Axles.
17. Machining sequence of different types of Axles in the Axle Machine Shop.
18. Different checks adopted at individual Stations to ensure the finished quality of the Axle is good.
19. Knowledge of drawing dimensions, forging dimensions, tolerance ranges and machining allowances in respect of common types of Axles.

(ii) Assembly Shop :

1. Layout of Assembly Shop.
2. Defects and remedies adopted in mounting press
3. Procedure for reclamation of high tonnage/low tonnage Axles adopted at RWF.
4. Inspection and quality control.
5. Reasons for deviations in mounting pressures and their remedy.

PART-II TECHNICAL SUBJECTS- MAINTENANCE UNIT

1. Necessity of pollution control devices for pollution control, monitoring of pollution control.
2. Requirement and application of production control system in industries of various types/application and importance thereof.
3. Importance of inspection, inspection on a selective basis and 100% inspection. Precaution to be taken during of inspection of tools and the periodicity of calibration of inspection tools.
4. Incentive scheme, Rate fixing and application .
5. Preventive Maintenance Schedules, break-down maintenance.
6. Lubricants – selection of lubricants and how these are applied.
7. Rules for inspection of wire ropes, chain, lifting tackles.
8. Machining of graphite – importance of tooling for graphite machining along with specific problems of handling and machining graphite.
9. Transportation and movement with in workshop premises for material handling equipment including maintenance of road vehicles and specific problems to road vehicles maintenance
10. Bearing – Types – Selection , Maintenance lubrication procedures.
11. Repair Welding : Advantages – Methods -Special type of electrodes – procedures -precautions to be observed .
12. Furnance maintenance : Types of furnances -Burner type and their disadvantage – Refractories – different types, their application and maintenance. Temp. Control and their maintenance.
13. Machine Tool : Types of machine tools and their sub -system. Alignment and levelling procedures. Accuracy Checks, maintenance of tracer system. Maintenance of clutches, breaks and gear -boxes .
14. Machanical Drives- Maintenance of gear boxes, chain drives, Alignment procedures, inspection and periodical maintenance procedures, service limits for backlash, chain and sprocket wear, belt tensions, lubrication.
15. Conveyor systems : Type of Conveyor systems and their usage. Maintenance procedures for each.
16. Hydraulic and pneumatic systems (substitute for item 15):principles of operation and application. Trouble shooting of Hydraulic/pneumatic systems. Types of valves, pumps and actuators. Their principles of operation and maintenance procedures. Hydraulic – fluids their selection and maintenance .
17. Cranes : Types of cranes, methods of operation, Drive system - types of brakes. Maintenance of drives and brakes.
18. Compressors : Type of Compressors - their advatages and disadvgantages. Maintenance of procedures.
19. Pumps and water systems : Type of pumps , their selection and application. Maintenance procedures for different type of pumps .

PROFORMA FOR UNWILLINGNESS FOR SELECTION TO THE POST OF JUNIOR ENGINEER/
MECHANICAL IN LEVEL -6 OF RS(RP) RULES'2016 AGAINST 25% PROMOTIONAL QUOTA.

I hereby express my unwillingness to appear for selection to the post of Junior Engineer/
Mechanical in Level 6 against 25% promotional quota notified vide Notification No. RWF/ PM-
36/761 Dated 12.11.2018.

Signature of the employee :

Name :

Staff No:

Designation :

Shop:

रेल पहिया कारखाना
RAIL WHEEL FACTORY
(रेल मंत्रालय/Ministry of Railways)

महाप्रबंधक का कार्यालय/**General Manager's Office,**
कार्मिक विभाग/**Personnel Department.**
यलहंका, बेंगलूरु/**Yelahanka, Bangalore-560 064.**

NOTIFICATION

Sub: Formation of the panel for the post of Junior Engineer in Level -6 of RS(RP) Rules' 2016 in the Electrical department.

It is proposed to conduct selection for formation a panel in the post of Junior Engineer in level -6 of RS(RP) Rules'2016 against the 25% promotional quota in the various seniority units of Electrical department.

The vacancies in each seniority unit with break-up of reservation for filling up the above posts in various seniority units of Electrical department is as under:

Seniority Unit	SC	ST	UR	Total No. of vacancies
Power Group	1	NIL	NIL	1
Control Group	1	NIL	1	2

The above selection will consist of a written test and perusal of records. The written test will be held on 14.12.2018 (friday) at 14.00 hrs, in the Technical Training Centre /RWF/YNK.

POWER GROUP:

The following Senior Technicians/Power Group in in level -6 of RS(RP) Rules'2016 of Electrical department are eligible appear in the above selection :-

Sl. No	Staff No.	Name (S/Shri/Ms.)	Place of Working
1	036273	Sharanappa S Kallur (SC) Against reserved post.	AFS
2	035932	Annappa K (SC) Against reserved post.	MRS(DG)
3	036388	Lakshminarayana(SC) Against reserved post.	AP

CONTROL GROUP:

The following Senior Technicians/Control Group in level -6 of RS(RP) Rules'2016 of Electrical department are eligible appear in the above selection :-

Sl. No	Staff No.	Name (S/Shri/Ms.)	Place of Working
1	035967	Shankarappa Y	WSC
2	035941	Lakkasetty M.M.	WSC
3	035975	Shashikant Joshi	WSC
4	036679	Suresh Kumar D (SC) Against reserved post.	ASC
5	037073	Chandrashekaraiah T.R. (SC) Against reserved post.	ASC
6	062199	Mani V (SC) Against reserved post.	WSC

The above field of candidates has been constituted based on the entry of the said employees in the category of Technician Gr.I in scale Rs.4500-7000 (i.e. Level -5 of RS(RP) Rules 2016), prior to 22.02.2005, keeping in view the instructions contained in Railway Board's letter No. E(NG)I/99/PM7/3 Dated 22.02.05.

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The qualifying marks for the above selection is prescribed as under:

Factors/Heading	Maximum Marks	Qualifying Marks
(i) Professional ability	50	30
(ii) Record of Service	30	-
(iii) Seniority	20	-
	100	60

Candidates must obtain a minimum of 60% marks in professional ability and 60% marks of the aggregate for being placed on panel. Usual relaxation for SC/ST candidates in the qualifying marks is applicable.

The names of selected candidates will be arranged in order of seniority but those securing a total of 80% or more marks will be classified as outstanding and placed in the panel appropriately in order of their seniority allowing them to supersede not more than 50% of total field of eligibility.

In terms of Railway Board's letter No. E(MPP) 2013/3/22 dated 26.09.2014, the Junior Engineers selected against promotional quota should undergo 13 weeks training. The training module will constitute of 8 weeks of Theoretical training at STC and 4 weeks of Practical training - one week each each at Production Unit/POH Workshop and two weeks on the job in the parent unit. The last one week of training will be at STC for exam/viva etc.

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- Administration's failure to relieve him in time for written test.
- Sickness of the candidate or other reason over which the employee has no control. Sickness should be covered by a specific certificate from the Railway Medical Officer.

Candidates have the option to to answer in Hindi or in English in the written test. In case, the candidates are willing to answer in Hindi, this office may pleased be advised in advance, but not later than **23.11.2018**.

If any of the above employees are unwilling to appear for the selection, their clear and unconditionnal unwillingness may please be obtained in the proforma enclosed and forwarded to this office on or before **23.11.2018**. In case, no unwillingness is received by 23.11.2018, it will be presumed that all the above the candidates are willing to apper in the selection.

The Syllabus for the written examination for the post of Junior Engineer/Electrical for Power group and Control groups are enclosed as Annexure.

If any candidate/s indicated above are on long leave, training, deputation, placed on sick list etc. intimation regarding this notification should be sent to their personal address and their acknowledgement obtained and forwarded to this office. The responsiblity of sending intimation to their personal adress rest with the controlling officers.

सहायक कार्मिक अधिकारी-I

ASSISTANT PERSONNEL OFFICER -I

NO. RWF/PM-35/760 Dated 12.11.2018.

Copy for information to:-

PCME, PCEE, CME/Planning, CWE/W, CWE/A/RWF/YNK.

Dy.CPM/Elec. Dept, Dy.CMEs/WSM, ASM,Mech. Dept./RWF/YNK

All SEEs/Elec/RWF/YNK.

All AEEs/Elec/RWF/YNK.

SSEs/Elec. Concerned/RWF/YNK.

Employees concerned, through their respective controlling Officer/s.

SEE/TTC/RWF/YNK. It is required to make necessary seating arrangements in connection with the above written test, on the above mentioned date.

All Notice Boards

कृते प्रधान मुख्य कार्मिक अधिकारी

for PRINCIPAL CHIEF PERSONNEL OFFICER.

Encl: as above.

SYLLABUS FOR WRITTEN TEST FOR DEPARTMENTAL PROMOTION AGAINST 25% VACANCIES OF JUNIOR ENGINEER/POWER GROUP/ELECTRICAL DEPARTMENT.

PART-I

1. **ELECTRICAL CIRCUITS :**
 - a) Basic Laws of Electricity.
 - b) Basic circuit analysis.
2. **ELECTRICAL MACHINES (OPERATION AND MAINTENANCE)**
 - a) Induction Motors.
 - b) Transformers
 - c) D.C. Machines
3. **ELECTRICAL SYSTEMS AND COMPONENTS :**
 - a) Cables
 - b) Fuses
 - c) Protection and Relays
 - d) Switch gears.
 - e) Batteries
 - f) Insulation Co-ordination
4. **MEASUREMENTS AND MEASURING INSTRUMENTS :**
 - a) Basic Principles of Measurements
 - b) Units and Standards.
 - c) Various types of Meters and Measuring instruments.
 - d) Fundamentals of digital measurements.
5. **BASIC ELECTRONIC DEVICES AND CIRCUITS.**

PART-II

1. **POWER SYSTEM AND PROTECTION.**
 - a) Transformers operation, Maintenance protections and protection schematics.
 - b) Isolators, circuit breakers and other switch gears operation and maintenance.
 - c) Diesel Generating sets.
 - d) Operation and Maintenance of different types of substations.
2. Lighting – Industrial and Domestic.
3. Basic Principles of Air-conditioning and Refrigeration.
4. Various types of Electricity tariff, maximum Demand, Power factor improvement.
2. **UTILITIES.**

Pumps, Lifts and Compressors.
3. **SPECIFIC APPLICATION IN SHOP AREA.**
 - a) HT & LT Layout of Main Receiving Station.
 - b) Protections and controls used in DG set, HT transformer and onload tap changers.
 - c) Various types of trouble shooting in EOT Cranes.
 - d) Single line diagram of Ring Main System.
 - e) UPS and Centralised Air-conditioning System for EDP Centre.

PART- III/GENERAL

1. Salient features of Factories Act 1948, Employees Compensation Act, Minimum Wages Act, Industrial Safety.
2. Leave Rules, Pass Rules, D&AR Rules, Railway Service Conduct Rules.
3. Basic Stores procedures and material accounting.
4. First Aid and Fire fighting.
5. Official Language - Policy.
6. Integrated Management System (IMS) and 5-S.

SYLLABUS FOR WRITTEN TEST FOR DEPARTMENTAL PROMOTION AGAINST 25% VACANCIES OF JUNIOR ENGINEER/CONTROL GROUP/ELECTRICAL DEPARTMENT.

PART-I

1. ELECTRICAL CIRCUITS :

- a) Basic Laws of Electricity.
- b) Basic circuit analysis.

2. ELECTRICAL MACHINES (OPERATION AND MAINTENANCE)

- a) Induction Motors.
- b) Transformers
- c) D.C. Machines

3. ELECTRICAL SYSTEMS AND COMPONENTS :

- a) Cables
- b) Fuses
- c) Protection and Relays
- d) Switch gears.
- e) Batteries
- f) Insulation Co-ordination

4. MEASUREMENTS AND MEASURING INSTRUMENTS :

- a) Basic Principles of Measurements
- b) Units and Standards.
- c) Various types of Meters and Measuring instruments.
- d) Fundamentals of digital measurements.

5. BASIC ELECTRONIC DEVICES AND CIRCUITS.

PART-II

1. BASIC PRINCIPLES AND FUNCTIONS OF THE FOLLOWING :

- a) PLCs
- b) Thyristor Controls
- c) Relay Logic Automatic Control.

2. ELECTRONICS

- a) Diodes, Transistors, SCR, ICs etc.
- b) Basics of rectifier, Amplifier and Oscillator
- c) Digital gates and circuits.
- d) Fundamentals of Micro processor.

Cont.2..

3. INSTRUMENTATION :

- a) Various types of controllers, Recorders, Voltage to current converters, EP activators, Flow Transmitter and pressure transmitter etc.
- b) Transducers - thermocouples, RTD, Thermistors etc.

4. SPECIFIC APPLICATION IN SHOP AREAS :

- a) Simple block schematic of temperature controls of Axle Shop and Wheel Shop furnaces.
- b) Operation and controls of EOT Cranes (including Thyristor Controls in cranes.)
- c) Basic protections for motors.
- d) Controls used in important machines like Arc Furnace, Wheel Borer, Forging M/c and Wheel Casting.

PART- III/GENERAL

- 1. Salient features of Factory Act, Employees Compensation Act, Minimum Wages Act, Industrial Safety.
- 2. Leave Rules, Pass Rules, DAR Rules, Railway Service Conduct Rules.
- 3. Basic Stores procedures and material accounting.
- 4. First Aid and Fire fighting.
- 5. Official Language - Policy.
- 6. Integrated Management System (IMS) and 5-S.

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PROFORMA FOR UNWILLINGNESS FOR SELECTION TO THE POST OF JUNIOR ENGINEER/
ELECTRICAL IN LEVEL -6 OF RS(RP) RULES'2016 AGAINST 25% PROMOTIONAL QUOTA.

I hereby express my unwillingness to appear for selection to the post of Junior Engineer/
Electrical _____ Group in Level 6 against 25% promotional quota notified vide Notification
No. RWF/ PM-35/760 Dated 12.11.2018.

Signature of the employee :

Name :

Staff No:

Designation :

Shop: