

भारत सरकार/Government of India
रेल मंत्रालय/Ministry of Railways
मध्य रेल, सोलापुर मंडल/Central Railway, Solapur Division
मंडल रेल प्रबंधक कार्यालय, कार्मिक विभाग, सोलापुर 413001-
Divisional Railway Manager's Office, Personnel Department, Solapur Division

No. SUR/P/Engg/15%/JE(W)/LDCE

Dated.13/03/2024

NOTIFICATION

Sub: Selection for filling up of vacancies of Junior Engineer (Works) in Level-6
against 15% LDCE/Rankers quota in Civil Engineering Department.

It is proposed to conduct the Selection for the post of JE/Works in Matrix Level-6 against 15% LDCE quota in Civil Engineering Department of Solapur Division.

The assessment is as under;

SC	ST	UR	Total
01	01	05	07

1) Eligibility conditions to volunteer for the selection:-

- i) **Staff eligible for the selection:** Staff should be from the category of skilled grades in Works Branch and Artisan (Helper) in Level-1 working in works cadre having experience of 3 years. Training period will not be counted towards the minimum 03 (three) years period except technical qualification and have undergone 06 months training. Those who are working in an ex-cadre post but have a lien at Technician/Civil Engineering Department will be eligible, provided they satisfy the other conditions.
- ii) **Length of Service:** Should have been working on the works side and have completed 03 years of Railway service as skilled grades in Works Branch as on notification.
- iii) **Educational qualifications:** Should be should be in possession of educational qualification of ITI/Act apprenticeship pass or 10+2 in Science Stream RBE 93/2022) or its equivalent with any of the Science subjects (or) Degree or Diploma in Civil Engineering or its sub stream (**Educational qualifications must be counted as per Service Register**).
- iv) **Age:** Should be below 47 years for General Category (UR) employees and below 52 years with relaxation of 5 years for SC/ST employees (RBE. 92/2023 Dtd. 18.07.2023) as on the date of the notification.
- v) Application are therefore invited in the prescribed format enclosed as **Annexure- A** from the eligible regular employees working in works wing of Civil department who fulfils the eligibility criteria as prescribed in this Notification including age and educational qualification.

2) Procedure for written examination:-

- i) The selection process consists of written exam of 100 marks question by perusal of Service records and **medical exam in B-I (Bee One) standard**. Only those employees who qualify in the written test will be considered for subsequent stages of the selection. **The panel will be declared purely in the order of the merit on aggregate only**. No relaxation for SC/ST employees as this is a safety category.
- ii) The Question paper will be 100 Objective Type.10 optional questions pertaining to Rajbhasha option basis (Total 110 questions for 2 hours). All the questions will be multiple choices only. Employees should attempt 100 questions will be evaluated.
- iii) There shall be negative marking for each incorrect answers, 1/3 of marks allotted for each question will be deducted for wrong answer as per Rly. Bd's Ir. No. E(NG)I/2018/PM1/4 dtd.14.11.2019 RBE No. 194/2019.

- iv) **The selection comprises of written test either through “CBT OMR or Pen & Paper” Mode depending on availability.**
- v) As per RBE No. 196/2018 dated 14/12/2018, cutting, overwriting, erasing or alteration of any type in the answer will not be accepted. Zero mark will be given for the answer having correction/overwriting. There shall be negative marking for incorrect answer. One third of the marks allowed for each question will be deducted for wrong answer. The written examination will be conducted on OMR sheet. Answering should be done by way of bubbling in supplied OMR sheet with ball point pen only (No gel pen is allowed).
- vi) To ensure authenticity of the answers, cutting, over-writing, erasing or alterations, double bubbling of any type in the answer will be considered as wrong answer and negative marks will be deducted.
- vii) The question paper will be in English & Hindi languages only.

3) Scheme of Examination: The scheme of selection comprises of Written Examination only. Those who have secure 60% marks and above in the written examination will alone be considered for further empanelment process of the securing of 60% in aggregate i.e. written test and record of service is the criteria for placing on the panel subject to the extent of vacancy notified. Empanelment is purely on the basis of merit. There is no relaxation for employees belonging to the reserved community since the post is classified as safety post.

The Tentative program for selection is as under;

	Description	Tentative Date
i	Date of issue of notification	13/03/2024
ii	Date by which applications to be submitted to Depot In charges / Officer in charge of Depot.	04/04/2024
iii	Date of submission of applications received at Depot to be forwarded by the Depot In charge/ Officer in charge to this Office in one lot.	10/04/2024
iv	Date of publication of eligibility list after scrutiny of applications received.	30/04/2024
v	Pre- Selection coaching / training to SC/ST employees	02/05/2024 to 24/05/2024
vi	Date of Written Test	28/05/2024
vi	Date of result of written test.	28/06/2024
vi	Date of publication of panel	15/07/2024

The Written Examination for the above Selection will be held on **28/05/2024 at 10:00 hrs** in DRM's Office P/Branch Solapur.

The staff concerned may be advised regarding the above Selection accordingly, the employee should report at 09:30 hrs on the date without fail with the proper bearer letter along with photograph duly attested by the Controlling Officer. Depot In charge leave of any kind not to be granted to the employees on the date of written test. If any employee is on leave sick list he should be specifically informed regarding the above test at his address by deputing a special messenger and acknowledgement obtained in writing.

The scheduled time of the above examination is as under;

Reporting time for examination	09 : 30 hrs
Time of last entry of candidates for exam	10 : 30 hrs
Examination Time	11 : 00 to 13 : 00 hrs.

“ After last entry time no candidates will be allowed in the examination hall.”

The employee who remained absent on written test will be allowed in Supplementary Written Test with valid reasons (if under Sick of Railway Doctor). The concerned Officer/Incharge should ensure that all the eligible employees are directed for written test on date in time and with proper bearer letter.

The syllabus for written examination for the above suitability is enclosed as **Annexure ‘B’** for ready reference.

4) Pre-Selection Training (PPT):

- Branch officer shall arrange for Pre-selection coaching to the eligible reserved category employees for the period of 3-4 weeks (21 working days), training must cover the Syllabus of the exam to be conducted. Pre selection coaching will be imparted at the nominated training centers or any other method. The schedule for which will be notified separately.
- the nominated training centers or any other method.
- After completion of Pre-selection training, a certificate is to be issued by the controlling officer to the effect that all eligible SC/ST employees have been imparted Pre-selection training for a period of 21 working days.
- In case any reserved category employee is unwilling to undergo PPT then, a written undertaking in this regard shall be obtained and sent to this office.

5) Additional information for guidance to the staff: In terms of this office letter No. SUR/P//Con/Selection/ Publishing Answer-Key/2023 dated. 22.11.2023 it is hereby advised to incorporate the following instructions/clarification issued for all departmental /LDCE selection.

- As per HQ letter No. P/HQ/Ruling /0/803 dated.07.10.2022 the ‘**Answer key**’ or ‘**Revised Answer Key**’ if any will be upload in Rail Net website <http://cr.indianrailways.gov.in/> any representation(s) against the questions/ options, to be uploaded by the examinees with proper clarification (**only candidate who appeared**) on email id (srdposur@gmail.com) **only (not through DAK)** and the examinees will be given only 07 days (including intervening holidays) from the day next to date of publishing of Answer key.
- As per Railway Board;s Letter no. E(NG)I-2023/E(NG)I/9 dated 08.06.2023, total marks secured by all the candidates who have been evaluated after qualifying the written examination and the marks secured in the written test in case of the remaining candidates will be uploaded in Rail Net website <http://cr.indianrailways.gov.in/> after finalization of the panel.
- As per Railway Board’s letter No.2010/E(RRB)/25/27/Pt. dated 09.06.2011 stipulates that wherever any question(s) in the question paper(s) is found to be incorrect, the question(s) may be omitted from the scope of evaluation instead of giving grace mark(s) and raw score may be assessed on percentage basis.

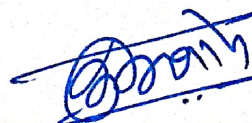
Accordingly, in terms of Railway Board vide letter No.(E(NG) I/2018/PM1/4 dated 07.11.2023, In case some of the question(s)/answer therein are incorrect, the procedure as prescribed in above Railway Board’s letter dated 09.06.2011 will be adopted only for those candidates who have attempted that/those incorrect question or questions with wrong answer(s). This will be applicable to question paper(s) involving optional question(s).

6) Notifying to the staff:

The controlling officer/supervisor shall give wide publicity of the notification to all the eligible staff of Engg. Department of SUR Division and notification should be displayed at notice boards and conspicuous place. It is the responsibility of controlling officer/supervisor to circulate the notification among the staff concerned.

In terms of Railway Board's letter No. E(NG)I-72/PM1/166, dated 26.06.1972, the Senior Subordinate/Supervisor concerned has to furnish a certificate that the eligible candidates were duly notified of the holding of the test and asked to submit their applications duly giving their willingness" and forward the same to DRM(P)SUR. It should be the personal responsibility of the Senior Subordinate/Supervisor to complete the formality in this respect. It is further advised that any other communication received in respect of the selection should invariably be intimated to all the eligible employees. In case of non receipt of any communication the same may be obtained from the Personnel department or from the Controlling Officer. **Any laxity in this regard will be viewed seriously.**


- 7) The syllabus for the Written examination is enclosed as **Annexure "B"**
- 8) The panel will be format strictly in order of merit from amongst all the employees who are adjudged suitable by the committee, to the extent of vacancies notified duly observing reservations.
- 9) The volunteers should be in readiness to appear for the written exam at a short notice treating this notification as alert notice.
- 10) Willing employees who fulfils the above eligibility conditions may submit their application in the proforma **Annexure "A"** on or **before 04/04/2024 to their respective depot in charges** who may forward the applications duly verified to **DRM (P) SUR before 10/04/2024**. Even if no application is received from the employees by the cut-off date i.e. **04/04/2024**, a **"NIL"** report should be furnished to this office by ADENs concerned, so as to avoid back references.
- 11) Applications received from the employees directly at Sr.DPO's Office/ incomplete applications/ applications received without certification by the concern Depot In-charge with ADENs Office /applications received the due date and also without copies of education Technical qualification certificates will be summarily rejected without further notice.
- 12) Those who are eventually considered for the posts as JE (Wks) have to undergo 12 months training. During the period of training, they will enjoy the same privilege and status of category from which they are selected or to fix their pay on the stipendiary scale. There will be no supplementary written examination for the above post.
- 13) The notification is provisional and subject to the outcome of any court case pending before. Any Court of law regarding reservation matters.
- 14) The notification should be given wide publicity for information of all the employees concerned. Employees may visit Solapur Division website **Notification is also published on Web page on address cr.indianrailways.gov.in/about us/division/Solapur/personnel.**
- 15) Applications received after due target date, will not be entertained under any circumstances.



Note: Railway Board vide letter dated 10/09/2014 have instructed that wherever the vacancies remain unfilled in promotion quota the same will be carried forward to LDCE/GDCE quota if any and the unfilled vacancies of LDCE/GDCE will be carried forward to direct recruitment quota to next year selection. In case there is no LDCE/GDCE for the post the unfilled vacancies may be diverted to direct recruitment quota of the upcoming year.

Please acknowledge the receipt.

DA: As above


- 13/3/2024 -
(S L Khot)

कृते मंडल रेल प्रबंधक(कार्मिक)
सोलापुर.

- प्रत - 1) SDGM/VIG/CSMT for inf. Please.
2) वरिष्ठ मंडल अभियंता (समन्वय), सोलापुर.
3) वरिष्ठ मंडल अभियंता (उत्तर) (दक्षिण), मंडल अभियंता (मध्य), सोलापुर.
4) सहायक मंडल अभियंता, सोलापुर/ अहमदनगर/पंढरपुर/कुईवाडी/कलबुर्गी/लातूर.
5) मुख्य कार्यालय अधीक्षक, गोपनीय (कार्मिक विभाग), सोलापुर
6) DS/ CRMS, NRMU, AISCSTREA & AIOBCREA
7) DBS for information & nec. Action in uploading the notification on Divisional Official website.

PROFORMA

Annexure "A"

Photo with
attestation of
Controlling
Officer

Application for the Post of JE/Works in Engineering Department, Level-6 against
15% LDCE Quota. Ref. Notification dated. **13/03/2024**.

(Application should be forwarded only after verifying & certifying the particulars)

1	Name of employee in Block letters	:	
2	Father's name	:	
3	PF Account No./NPS No. HRMS ID	:	
4	Date of Birth	:	
5	Present Designation, Unit & Wing	:	
6	Pay Matrix Level(Regular)	:	
7	Place of working	:	
8	Length of Service in works side	:	
9	If belongs to SC/ST community (Enclosed attested copy of Caste Certificate)	:	
10	Mode of Appointment	:	
11	Length of service in Skilled grade (Wks)	:	
12	Academic and Technical qualification as entered in Service Register (Attested copies in support of Educational qualification are to be enclosed)	:	
13	Age as on date of Notification i.e. 13/03/2024 .	:	
14	Mobile Number	:	
15	E-Mail address. If any	:	

Encl:

Station:

Date:

Applicant's Signature

Forwarded to DRM (P)SUR for further action The applicant is working in works wing for the
past---- years and has completed 03 years of service in Works wing as on the date of
notification i.e. **13/03/2024**.

The applicant is free from DAR/SPE/Vig. Cases.

Station:

Date:

Signature of Depot In-charge
(With stamp & Name)

Signature of the Controlling Officer & Design.
(With stamp & Name)

Syllabus for selection to the post of JE/Works in level-6 of 7th PC Pay Matrix, against 15% LDCE quota

1. Duties of JE/Works.
2. Specification and quality control for items of works commonly in Building and Bridges Work-
Brick Works- RCC, PSC, Plumbing Work, White washing/Colour washing, painting etc.
3. Schedule of Rates-Scope & Coverage in general
4. Inspection and maintenance of Building, Roads, Structures, Water Supply and Sanitary arrangements
5. Levelling and setting out of works
6. Earth works in Railway Projects
7. Estimating quantities for building works
8. Passenger Amenities at categories of stations and minimum essential amenities.
9. Recording of measurements and processing contractors' bills for payment
10. Zonal contract and work orders.
11. Schedule of Dimensions-specifically with reference to clearance to structures in PF/Station and overall moving dimension
12. Organizational set up of Zonal Railway & Divisions and functions of various Departments.
13. Types of staff/Officer's quarters and maintenance aspects of quarters and colony
14. Water supply requirement, quality and treatment, storage and distribution
15. Hours of Employment Regulations
16. Payment of Wages Act
17. Passenger Amenities
18. General Knowledge -15 Marks
19. Question in Official Language to the extent of 10 marks.

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Wandh

Question Bank for JE (Works)

1. The horizontal tunnels constructed at shallow depths along the banks of a river to intercept the ground water table are called
a) Canals b) Infiltration galleries c) springs d) Lakes
2. A pipe sunk into the ground to tap the underground water is called
a) Open well b) tube well c) artesian well d) infiltration well.
3. The water bearing strata i.e. layers of sand gravel etc is called
a) An aquifer b) an aquiclude c) an aquifuge d) zone of saturation
4. Runoff is the water which flows
a) In infiltration galleries
b) In sewer pipes
c) Due to leakage of pipes
d) In rivers
5. The yield of a underground source may be obtained by
a) Pumping test
b) Recuperating test
c) Both a and b
d) None of these
6. The amount of water collected in a reservoir is divided into three portions and their order of existence from bottom to the top is
a) Useful storage, surcharge storage, dead storage
b) Useful storage, dead storage, surcharge storage
c) Dead storage, useful storage, surcharge storage
d) None of the above.
7. In India as per Indian standards, water consumption per capita per day for domestic purpose is
a) 85 lit b) 100 lit c) 115 lit d) 135 lit
8. Which of the following formula is used for computing the quantity of water for fire demand
a) Freeman's formula
b) Kuichling formula
c) Buston's formula
d) All of these.
9. The design period for a water supply project is taken as
a) 5 to 10 years
b) 10 to 15 years
c) 15 to 20 years
d) 20 to 30 years
10. For large cities, the suitable method for forecasting population is
a) Arithmetical increase method
b) Graphical method

- c) Geometrical increase method
- d) Comparative method.

11. The presence of bacteria in water causes
a) Hardness b) Alkalinity c) Diseases d) Bad taste.
12. The finely divided dispersion of solid particles which are not visible to the naked eye and cannot be removed by ordinary filters are known as
a) Suspended impurities
b) Dissolved impurities
c) Colloidal impurities
d) None of these.
13. The presence of sodium chloride in water
a) Causes bad taste
b) Softens the water
c) Increase hardness of water
d) Stops epidemic
14. Turbidity of water is expressed in terms of
a) Silica scale
b) Platinum cobalt scale
c) Ph value
d) None of these
15. The maximum permissible chloride content in water for domestic supplies should not exceed
a) 250 ppm b) 350 ppm c) 450 ppm d) 550 ppm
16. The maximum permissible chloride content for public supplies should be between
a) 0.1 to 0.2 ppm
b) 0.3 to 0.4 ppm
c) 1.2 to 4 ppm
d) 6.5 to 8 ppm
17. The bacteria which require oxygen for their survival is known as
a) Anaerobic bacteria
b) Pathogenic bacteria
c) Aerobic bacteria
d) Non pathogenic bacteria
18. Bio chemical oxygen demand (BOD) of safe drinking water must be
a) 0 b) 10 c) 50 d) 100
19. In plain sedimentation tank, under normal conditions, impurities are removed upto
a) 50% b) 60% c) 70% d) 80%
20. The most common coagulant is
a) Magnesium sulphate b) alum c) chlorine d) bleaching powder

21. Slow sand filter is efficient to remove the bacteria from the raw water to an extent of a) 50% b) 70% c) 85% d) 99%
22. The yield of a rapid sand filter is ----- to that of slow sand filter a) 10 times b) 15 times c) 20 times d) 30 times
23. The apparatus used for feeding chlorine into water is called
a) Chlorine tank
b) Aeration foundation
c) Chlorinator
d) None of these.
24. When the chlorine is added beyond the break point, the process of treating the water is known as
a) Plain chlorination
b) Post chlorination
c) Dechlorination
d) Super chlorination
25. The percentage of chlorine in fresh bleaching powder is
a) 20 to 25% b) 25 to 30% c) 30 to 35% d) 35 to 40%
26. The minimum size of a fire hydrant is
a) 5 cm b) 10 cm c) 15cm d) 20 cm
27. The valve which allows the water to flow in one direction but prevents its flow in the reverse direction is known as
a) Sluice valve
b) Reflux valve
c) Air relief valve
d) Pressure relief valve
28. For the sewers of diameter less than 600 m the type of joint prepared is
a) spigot and socket joint
b) collar joint
c) bandage joint
d) mechanical joint
29. The minimum dia of a manhole cover should be
a) 25cm b) 50cm c) 75cm d) 100cm
30. The minimum dissolved oxygen required in water to save the aquatic life is a)
1 ppm b) 2 ppm c) 4 ppm d) 8 ppm
31. In preliminary treatment of sewage, the operation which takes place, is
a) Removal of fine suspended particles
b) Removal of fine dissolved organic matter
c) Removal of lighter floating material
d) Removal of harmful bacteria and other organisms
32. The sewage is treated by aerobic bacteria action in
a) settling tank b) trickling filter c) oxidation pond d) all of these
33. A drop manhole is provided if

- a) A sewer drop from a height
- b) A branch sewer discharges into a main sewer at a higher level
- c) Both a and b
- d) None of these

34. A pipe used to carry discharge from sanitary fittings like bathrooms, kitchens etc is called

- a) waste pipe
- b) soil pipe
- c) vent pipe
- d) Anti siphonage pipe

35. For large sewers, the maximum distance between manholes should be a) 75m b) 150m c) 200m d) 300m

36. The fundamental principle of surveying is to work from the

- a) Whole to the part
- b) Part to the whole
- c) Lower level to higher level
- d) Higher level to lower level

37. The representative fraction 1/2500 means that the scale is

- a) 1 cm = 0.25 m
- b) 1 cm = 2.5 m
- c) 1 cm = 25 m
- d) 1 cm = 250 m

38. The instrument attached to the wheel of a vehicle in order to measure the distance travelled is called

- a) Passometer
- b) Pedometer
- c) Odometer
- d) speedometer

39. The error in measured length due to sag in chain or tape is known as

- a) Positive error
- b) Negative error
- c) Compensating error
- d) Instrumental error

40. A line joining the apex of a triangle to some fixed point on the opposite side is called a

- a) Check line
- b) Tie line
- c) Base line
- d) None of these

41. The optical square is used to measure angles by

- a) Refraction
- b) Reflection
- c) Double refraction
- d) Double reflection