

# MP Industrial Development Corporation Ltd., Bhopal

No.02/2023/

dated 31.03.2023

## ADVERTISEMENT

Application are invited from eligible candidates for recruitment of the Post of **Junior Engineer** in MP Industrial Development Corporation Ltd., Bhopal (MPIDC), a company of Government of MP, Department of Industrial Policy & Investment Promotion.

**Pay Scale** - Pay Matrix Level 09 (36200-114800) (7<sup>th</sup> Pay revision) with admissible Dearness Allowance, approved from time to time.

### 1. Post Description :-

#### (A) General Recruitment

Category	Total	Open	Horizontal Reservation for women	Horizontal Reservation of 20% to contractual appointee of MPIDC only	Horizontal Reservation for Ex-Serviceman (MP Domicile only)
	10			02	01
UR	03	02	01	Selected candidate shall be placed in the respective category to which he belongs.	Selected candidate shall be placed in the respective category to which he belongs.
ST	02	01	01		
SC	01	01	00		
OBC (Non Creamy Layer)	03	02	01		
EWS	01	01	00		

#### (B) Backlog Recruitment

Category	Total	Open	Horizontal Reservation for women
ST	01	01	00

### 2. Basic Information :-

- Post of Junior Engineer MPIDC opens to MP Domicile & Non-Domicile both.
- Number of post under unreserved and vertical, horizontal reservation may change under any legitimate circumstances.
- All the categories of Non Domicile Candidates shall be treated as UR Category Candidates.
- Age Relaxation shall be given to the candidates as per their category of reservation, belonging to MP (MP Domicile) only.

  
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- v) Horizontal Reservation in number of post are allotted for Women candidate (MP Domicile) only.
- vi) Horizontal Reservation for Contract employee of MPIDC shall be assigned to the category he belongs, example SC, ST, OBC, UR, EWS.
- vii) Horizontal Reservation for Ex-Serviceman (MP Domicile) shall be assigned to the category he belongs, example SC, ST, OBC, UR, EWS.
- viii) The MPIDC reserves the right to fill or not to fill any of the vacancies. Mere appearance in the selection list does not give any right to the candidate for appointment.
- ix) Age relaxation upto 05 years other than the normal upper age 30 years shall also be available to candidates already serving with state of MP or it's Corporation/Board or similar entities as a regular employee.
- x) Upper age relaxation for Contractual employee of MPIDC shall be upto less than 62 years.
- xi) Final selection result of this advertisement shall be subject to final outcome on various petitions pending before the Hon'ble Madhya Pradesh, High Court in the context of reservation to OBC. During the pendency of such petition selection result may be declared in accordance with GAD guidelines dated 29.09.2022 or any other such instruction in the subject matter.
- xii) Any necessary change in the context of this advertisement to comply with relevant instructions/ guidelines of the Government of MP or Board of the corporation shall be immediately notified in the portal of MPIDC and MPONLINE. Further change in exam schedule/centre list or any other important information. If any, shall also be notified in the portal at the appropriate time.

### 3. Required Qualification Descriptions :-

Name of Post	Minimum Qualification
Junior Engineer	B.E./B Tech or Diploma in Civil Engineering

### 4. Age limit:-

The age of candidates as on 01 January 2023 must be as under:-

Post Name	Minimum age for all	Maximum age (Who are not eligible for any age relaxation)	Maximum Age for those who are eligible for age relaxation under vertical and horizontal reservation policies of state and for serving employee of state or it's Corporation/board or similar entities as a regular employee
Junior Engineer	21	30 yrs	35 yrs

  
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- i) Candidates belonging to SC/ ST/ OBC (Non Creamy Layer) categories and women candidates, an Ex Serviceman having M.P. domicile shall get relaxation in upper age limit to an extent of five (5) years only.
- ii) Upper age relaxation for Contractual employee of MPIDC shall be upto less than 62 years.
- iii) OBC (Creamy Layer) category Candidates shall be considered in UR Category.
- iv) Age Relaxation shall be given to the candidates as per their category of reservation only, belonging to MP (MP Domicile).
- v) Age relaxation shall also be available to serving regular employee of state or it's corporation/board or similar entities.

However, maximum age limit including all age relaxation shall be upto 35 years only except for Contractual employee MPIDC.

#### 5. Reservation:-

- i) The provisions of vertical and horizontal reservation shall be applicable as per prevailing rules of Government of Madhya Pradesh.
- ii) The reservation of position shall be applicable only for the candidates having MP Domicile.
- iii) Caste certificate to be submitted in relevant cases issued by competent authority of State of Madhya Pradesh only shall be treated as valid.
- iv) The candidates of OBC category (Non-creamy layer) shall have to submit declaration that they do not come under "Creamy layer" as per the as on date bench mark standards set and notified by the Government of Madhya Pradesh. Following format should be used for "Declaration." (**Annexure-"One"**)
- v) Candidates belonging to EWS category shall have to submit the certificate to that effect issued by the competent authority of State of Madhya Pradesh in format prescribed by the Govt. Of M.P.
- vi) 20% Horizontal reservation against the total post shall be given to contractual appointee of MPIDC only and shall be assigned the category he actual belongs.
- vii) 10 % Horizontal reservation shall be given to Ex Serviceman and shall be assigned the category he actual belongs.

  
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## 6. How to apply:-

The candidates may apply through MP online portal only ([www.mponline.gov.in](http://www.mponline.gov.in)) or using the link provided on MPIDC Bhopal website "[www.invest.mp.gov.in](http://www.invest.mp.gov.in)". The scanned copy of following documents shall be uploaded by the applicant:-

- i) High School certificate/mark sheet in support of Date of Birth.
- ii) Higher Secondary/ Diploma certificate.
- iii) Certificate or Mark sheet of Graduation Degree from recognized university.
- iv) Caste certificate, in case of candidates belonging reserved category, issued by competent officer (Sub Divisional Officer) of Government of MP Only in prescribed format/Digital Certificate.
- v) Domicile Certificate in case of candidate seeking reservation & age relaxation.
- vi) In case of EWS candidate, a valid certificate issued by competent officer of Government of M.P. for being in category of "Economic Weaker Section."
- vii) Declaration of being a "Non Creamy Layer" OBC candidate.
- viii) Declaration that the candidate is regular employee of Government of M.P. or it's Corporation/Board or similar entities. If seeking age relaxation.
- ix) In case of Contractual appointee of MPIDC, a certificate to this extent issued by MPIDC or it's Regional Office.
- x) In case of Ex Serviceman , a declaration and a valid proof of being Ex Serviceman.

## 7. Application fee and other charges:-

- i) The recruitment shall be done through On-line exam meant for applicant's who will submit their online application.
- ii) Portal fee including taxes Rs 510+GST per candidate shall be payable to MPONLINE through electronic mode.
- iii) Payment of application fee for MPONLINE can also be made in cash in MP Online KIOSK.
- iv) No Extra charges shall be payable for scanning of photographs etc. to the KIOSK apart from the portal charges.

  
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- v) After payment, one time edit facility shall be available to the candidates for which portal charges of Rs 50+GST shall be payable to MP ONLINE through electronic mode.
- vi) Objection calling fee of Rs 50+GST shall be payable to MP ONLINE through electronic mode.

## 8. Selection Procedure:-

- i) The online academic assessment test shall be conducted by MP Online at various test centres of Bhopal, Gwalior, Jabalpur, Indore, Ujjain and Satna only.
- ii) The number of cities for online academic assessment test can be increased or decreased depending upon number of candidates or due to any other urgent issue, with best possible allocation of centre nearest to their postal address within State.
- iii) Category wise Merit List for the selection purpose shall be prepared by MP Online on the basis of online test score.
- iv) In case Candidates having same score in examination, then shall prefer Date of Birth (DOB) of candidates; elder candidates shall get upper rank.
- v) In case Score and DOB of candidates comes to be same then shall prefer to 10<sup>th</sup> passing year, earliest candidates shall get upper rank.
- vi) The recruitment shall be based on online examination to be conducted by MPONLINE and there shall be 100 objective type questions (4 marks each) with total 400 Marks, 1 (one) negative marking for each wrong answers shall be assigned.
- vii) Time duration of online examination shall be 2 hours (120 minutes).
- viii) A category wise minimum cutoff marks may be fixed by MPIDC in the larger interest of MPIDC to ensure quality & efficiency of human resource to be recruited.
- ix) Final selection list shall be subject to final verdict of Hon'ble Madhya Pradesh High Court, Jabalpur in the various petitions in the matter of OBC reservation. Till the pendency of such petition main and provisional part of selection result shall be as per guideline of letter no F-07-46/2021/GAD/one dated 29.09.2022 issued by Government of Madhya Pradesh, Department of General Administration Department.
- x) This selection process shall be governed by the "Corporation's Service Rule 2017."
- xi) OBC candidate "non creamy layer" shall be required to submit the declaration in the format prescribed by the state that they fulfil all the criterion decided by the Government in latest notification.

  
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- xii) Appointment to candidates on probation may be offered as per final selection list. MPIDC reserves the right to issue or not to issue the appointments as per his legitimate convenience.

### 9. Syllabus (Graduate Level) :-

S.no	Post Name	Syllabus
1	Junior Engineer	<p><b>Section-01</b> :- Technical (Surveying, Applied Mechanics &amp; Bending Moments in Beams, Foundation Design &amp; Construction, General Masonry Structures Design &amp; Construction, Reinforced Cement Concrete &amp; Reinforced Brickwork Building Materials, Water Supply, Drainage &amp; Sewerage, House Disposal Works, Roads and Highways, Cement Concrete Roads, Bridges &amp; Culverts, Estimating &amp; Quantities) - 75 Questions</p> <p><b>Section-02</b> :- Mathematics or Quantitative Section - 08 Questions</p> <p><b>Section-03</b> :- English and Verbal Section -05 Questions</p> <p><b>Section-04</b> :- Analytical Reasoning Section - 05 Questions</p> <p><b>Section-05</b> :- Computer knowledge and General Knowledge Section- 07 Questions</p> <p>Detailed syllabus is as per Annexure-“Two”</p>

### 10. Important Dates :-

S.No	Activity	Dates
1	Issue of Advertisement	05.04.2023
2	Start Date of Application filling	06.04.2023 to 05.05.2023
3	Edit Application Live	02.05.2023 to 06.05.2023
4	Commencement of Online downloading of Admit Card	12.05.2023 to 20.05.2023
5	Online Exam	20.05.2023, ,
6	Uploading of model answer key & Objection calling live	25.05.2023 to 28.05.2023
7	Resolution of objection raised	Till 10.06.2023
8	Result Declaration	As per completion of the result processing, candidates shall get notification about result.

**Note:-** (A) The dates are subject to changes in unavoidable circumstances. However, In case of any change in dates it shall be notified on the website of MPIDC and MPONLINE Portal at the appropriate time.

(B) If you are graduate in Civil Engineering and have applied for the post of Manager MPIDC, you may write your application number of Manager post, in the online application used for the post of Junior Engineer.

  
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## 11. General conditions :-

- i) The Candidates should be an Indian National.
- ii) Candidates working in the Government/Semi-Government/Public Sector, satisfying the eligibility criteria of education and age shall have to produce N.O.C. from their present employer at the time of appointment/joining and MPIDC reserves the right to verify document submitted by the applicant. If any of the information given by the applicant is found incorrect, his/her candidature shall be cancelled at any stage of selection /appointment process and thereafter.
- iii) Upper age relaxation for all eligible categories as per prevailing rules of Government of M.P. shall be up to 5 years. However maximum age limit in all such cases shall be 35 years except for Contractual appointee of MPIDC which shall be less than 62 years.
- iv) The reserve category candidates selected in merit, availing relax standard shall be considered against vacancy of the respective category.
- v) The appointment letter to the candidates shall be issued on the basis of final merit list subject to verification of original documents.
- vi) Disqualification for appointment to the post shall be in accordance with the prevailing provisions of Government of M.P.
- vii) On selection, initial intimation letter may be sent to the candidates through email on their registered email id in application.
- viii) As per the final selection list based on merit, candidates shall be given appointment order as a probationer and they shall be given at least 30 days time to join at the place of posting, failing which their appointment shall stand cancelled and waiting list shall be operated. Candidate shall be allowed to join at respective place only after verification of his/her original document, submission of medical fitness certificate & affidavit in prescribed format in the context of character verification of police in that office.
- ix) Candidates shall not be given reimbursement for to and fro journey for test, interview, verification of documents or joining at the respective place of posting.
- x) Any dispute arising out of the selection process shall be dealt within the jurisdiction of M.P. High Court Jabalpur.
- xi) During the entire selection process, if any computer/clerical errors are observed, MPIDC reserves the right for legitimate correction at any stage.

  
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xii) No RTI application shall be entertained during the entire selection process i.e. till issuance of appointment order.

xiii) The information made available/displayed on the portal in the context of this selection process shall not be given under RTI application.

  
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**//Declaration//**

(To be submitted by Non Creamy Layer OBC candidate)

I \_\_\_\_\_ any submitting an application for the post of Junior Engineer MPIDC under the advertisement no.2/2023 dated \_\_\_\_\_ .2023.

I hereby declare that :-

(i) I \_\_\_\_\_ son/daughter of Shri \_\_\_\_\_ resident of \_\_\_\_\_ District \_\_\_\_\_ Madhya Pradesh. I declare that I am a member of \_\_\_\_\_ caste that has been notified by the Government of Madhya Pradesh enabling the eligibility for reservation in services.

(ii) I do hereby solemnly declare that I do not fall under "Creamy Layer Category" in accordance with the bench mark standards defined in the letter circulars of Government of Madhya Pradesh, Department of General Administration Department.

Signature

Place:-

Name:-

Dated:-

Application Number :-

  
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## SYLLABUS FOR JUNIOR ENGINEER (CIVIL)

### 1. Technical Section 75 Questions

#### **SURVEYING :-**

- ❖ Principles of surveying, measurement of distance, chain surveying, working of prismatic compass, compass traversing, bearings, local attraction, plane table surveying, theodolite traversing, adjustment of theodolite, Leveling - Definition of terms used in levelling, contouring, curvature and refraction corrections, temporary and permanent adjustments of dumpy level, methods of contouring, uses of contour map, tachometer survey, curve setting, earthwork calculation, advanced surveying equipment.

#### **APPLIED MECHANICS & BENDING MOMENTS IN BEAMS:-**

- ❖ Definition of terms like Stress, Strain, Tensile Strength, Elasticity, Young's Modulus, Shear Modulus, Poisson's Ratio, Modulus of Rupture, Yield Point, Fatigue, Impact, Lateral Restraint, Moment of Inertia, Effective Span. General Formulae for the Flexure of Beams. Formulae for working out areas of beam & columns.

#### **FOUNDATION DESIGN & CONSTRUCTION :-**

- ❖ **Soils and sub-soils:-** Constituents of Soils, Types of Soils, Characteristic of Soils. General Properties of Soils Materials, Classification and Identification of Soils, Particle-Size Analysis of Soils, Textural Classification of Soils.
- ❖ **Soil Test:-** Proctor Compaction Test, Moisture Content Determination, Consolidation and Density Test, Liquid and Plastic Limit Tests, Shea Box and Triaxial Test, Bearing test, vane tests, penetration tests, C.B.R. Test.

#### **GENERAL MASONRY STRUCTURES DESIGN & CONSTRUCTION:-**

- ❖ **Safe Permissible Load on Masonry:-** Damp-proofing and Water proofing, Treatment of Foundation on Bad Soils, Treatment of Floors, Walls, Basements, Efflorescence, Remedial Measures of Dampness in Old Structures, Cement Paints. Plastering and Pointing, White-washing, Color - washing & Distempering, Stabilized Soil for Building Construction, Flooring, Lightning Conductors, Water Storage Tanks and Dams, Stone Masonry - General Specifications, General Specifications for Brickwork, Lime Concrete, Glossary of Terms.

  
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## REINFORCED CEMENT CONCRETE & REINFORCED BRICKWORK:-

- ❖ Theory of Reinforcing Concrete, Methods of Design, Properties and Steel, Tests on Concrete, Working Stresses of Concretes and Steels, Shear, Bond and Anchorage, Cutting and Bending Bars, Concrete Coverings Outside Steel. General Design Principles for RC Slabs and Beams.

## BUILDING MATERIALS:-

- ❖ **Bricks:-** Standard Sizes of Bricks, General Physical Characteristics, Test for Good Clay for Bricks, Strength of Bricks, Breeze Fixing Bricks, Fire Bricks, Terra-cotta, Brick-ballast, Hollow Clay Blocks, Earthenware and Stoneware. Sand, Surkhi, Pozzolana or Pozzolana, **Limes:-** Fate Lime, Hydraulic Lime, Shell Lime, Burning of Lime, Methods of Slaking, Test for Freshness, Suitability of Limes, Test for Strength of Mortars, Grinding and Mixing lime Mortars. **Plaster of Paris:-** Barium Plaster, Kankar.

## WATER SUPPLY:-

- ❖ **Drinking water Qualities:-** Impurities in Water, Potable, Contaminated and Polluted Waters, Simple Test for Detecting Dangerous Matters in Water, Description of Common Impurities, their Effects and Remedial Measures. Plants and Living Organisms, Algae, Iron, Colour, Odour and Taste, Alkalinity and Acidity, Hard and Soft Waters, Water Softening.
- ❖ **Water Purification and Treatment:-** Measurements of Velocity of Ground Waters, Discharge from Wells, Test for Yield of a Well. Construction of Tube-wells-Methods of Boring, Strainers, House-hold, Tube-wells, open Wells, Curbs, Stenings, Preparation of Project Estimates for Water Supply Schemes, Miscellaneous.

## DRAINAGE & SEWERAGE:-

- ❖ **Surface Drainage and Run-off:-** Design of Town Drains and Sewers, Systems of Drainage, Combined and Separate Systems, Open Drains in Small Towns, Shape of Street Drains, Size of Sewers for Different Systems, Volume of Sewage for Design, Discharge Calculations, Size of Sewers, Storm-overflow, Rainfall for Design, Self-Cleansing Velocities, Domestic Drains, Flushing of Drains and Sewers.
- ❖ **House Disposal Works:-** Septic Tanks, Disposal of Effluent from Septic Tanks, Cesspools and Seepage Pits.

  
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## ROADS AND HIGHWAYS:-

- ❖ Glossary of Highway Engineering Terms, Road Structure the Sub-grade (Formation), Foundation — Soling or Bottoming, The Base, The Surfacing, Causes of Disintegration of Roads in India, Sub-soil Drainage and Moisture Control, Road Rollers, Cylindrical, Sheeps-foot, Pneumatic-tyred, Working and Care of Rollers, Rolling Methods of Rolling, Output of Rollers, Preparation of Sub-Grade, Construction of Bases and Sub-Bases, Preparation of Base for Laying Bituminous Courses, Soling or Bottoming, Selection of Stone Metal, Water-Bound Macadam Roads, Size and Grading of Aggregates, Screenings, Binding and test of Materials.

## CEMENT CONCRETE ROADS:-

- ❖ Concrete Pavements, Properties of Aggregates, Base and Slab Thickness, Reinforcements, Joints, Laying Slabs.

## BRIDGES & CULVERTS :-

- ❖ Run-off Intensity of Rainfall, Run-off from Catchments, Critical Intensity, Heaviest Rainfall for Important Places in India, Time of Concentration, Impermeability Factor of Surfaces. Rules for Construction of Pipe Culverts under Deep Fills, Loads on Pipes under Heavy Fills River Training Works.

## ESTIMATING & QUANTITIES:-

- ❖ Earthwork and Excavation, Mortars, Concretes Breaking brick and stone metal Reinforced Concrete. Brickwork, Stone Masonry, Flooring, Pointing, Plastering, White-Washing and Distempering. Wood-work for Doors and Windows, Painting Roofing Water Assessment for Building Operations Lime-Stone Burning, Brick Burning (Brick Kiln). Surkhi Burning, Charcoal Burning, Blasting, Carriage of Building Materials, Preparation of Project Estimates.

## 2. Mathematics or Quantitative Section - 08 Questions

- ❖ HCF & LCM.
- ❖ Averages.
- ❖ Mensuration.
- ❖ Profit and Loss.
- ❖ Time Speed Distance.
- ❖ Ratios and Proportion.
- ❖ Number system.
- ❖ Work and time.
- ❖ Percentage.

  
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### 3. English and Verbal Section - 05 Questions

- ❖ Fill in the blanks.
- ❖ Verbal reasoning.
- ❖ Sentence completion.
- ❖ Grammar.
- ❖ Syllogisms.
- ❖ Jumbled paragraphs.
- ❖ Para Completion and inference.
- ❖ Contextual usage.
- ❖ Foreign language words used in English.
- ❖ Reading comprehension.
- ❖ Analogies.
- ❖ Sentence correction.
- ❖ Verbal logic.
- ❖ Different usage of same word.
- ❖ Idioms.
- ❖ Para Jumbles.
- ❖ Antonyms.
- ❖ One word substitution.

### 4. Analytical Reasoning Section - 05 Questions

- ❖ Blood relations.
- ❖ Series.
- ❖ Proposition.
- ❖ Direction sense.
- ❖ Coding Decoding.
- ❖ Assumptions.
- ❖ Puzzles.
- ❖ Clocks and calendars.
- ❖ Statements.
- ❖ Data arrangement.
- ❖ Family tree.
- ❖ Binary logics.
- ❖ Seating arrangements.
- ❖ Venn diagram.
- ❖ Sets.

  
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## 5. Computer Knowledge & General Knowledge - 07 Questions

- ❖ Current Events and of such matter of everyday observation as may be expected of an educated person. The test will also include questions relating to elementary level history, Polity, Constitution, Sports, Art & Culture, Geography, Economics, Everyday Science, Scientific Research, National/ International Organizations /Institutions etc & Basic of computers, MS Office, MS Excel, CAD.

  
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