

**DELHI URBAN SHELTER IMPROVEMENT BOARD  
PUNERVAS BHAWAN, I.P. ESTATE,  
NEW DELHI-110002**

**NOTICE**

**ASSISTANT ENGINEER (Civil), DUSIB  
DEPARTMENTAL EXAMINATION - 2021**

New Delhi, the.....10/2/2021

**F.NO. F/10796/SE(E&M)/DUSIB/2016-17** /D-251

1. A Departmental Competitive Examination for promotion of Junior Engineers (Civil) to the post of Assistant Engineers (Civil) in DUSIB will be held on **05.03.2021** at **Conference Hall, DUSIB, Punarwas Bhawan, I P Estate, New Delhi**, in accordance with the Recruitment Rules of the post of Assistant Engineer (Civil) in DUSIB.
2. The approximate number of vacancies to be filled on the results of the examination is as follows:

Category	CIVIL
Unreserved	16
SC	02
ST	01
<b>TOTAL</b>	<b>19</b>

3. Regularly appointed Junior Engineer (Civil) of DUSIB who have joined on or before **01.01.2016** as Junior Engineers in the Department and have a minimum of five years qualifying service as on 1-1-2021 shall be eligible to appear in the examination. However, after the examination, merit list based on aggregate marks finally awarded to each candidate will be prepared separately in the respective categories and discipline (i.e. SC/ST/Others & Civil).

Cut-off date in respect of date of joining for the eligibility of a candidate for becoming due for consideration for the vacancies of the particular year will be 1<sup>st</sup> January 2021.

**NOTE (I):** Candidates should indicate clearly in their application the Grade i.e. Assistant Engineer (Civil) for which they wish to compete.

4. A candidate seeking admission to the examination must apply in the online application form on the website of DUSIB.

**NOTE (I):** Candidate should see carefully the Annexure-'A' (Instructions to the candidate) and Examination Rules (Annexure 'B') before filling the application form.

5. The selections and appointments to be made on the basis of Departmental Exam -


  
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2021 will be subject to the final decision in the court matter in case pending if any.

6. **Closing Date:** The closing date of application is **Friday, 15<sup>th</sup> Feb, 2021 ( 6.00 PM)**.

The portal shall be closed after the due date and time.

**APPLICATION NOT COMPLYING WITH THE ABOVE REQUIREMENT WILL  
BE SUMMARILY REJECTED.**

  
Controller of Exam/  
Director  
Administration  
DUSIB

## ANNEXURE-'A'

### Instruction to Candidates

1. Before filling in the application form, the candidates should consult the Notice and the Rules carefully to see if they are eligible. The conditions prescribed cannot be relaxed.
2. The application form must be complete in all respect. An application, which is incomplete or is wrongly/incomplete filled in, will be rejected.
3. Candidates should further note that no correspondence/queries would be entertained from them to change any of the entries made in the application form. They should, therefore, take special care to fill up the application form correctly.
4. **ONLINE APPLICATION:**

**Candidates are required to apply ONLINE by visit in <https://delhishelterboard.in>**

Detailed instructions for filling up ONLINE applications are on the website:

1. Candidates are required to log on to the website <https://delhishelterboard.in> for filling ONLINE application for ASSISTANT ENGINEER (Civil/Electrical), DUSIB DEPARTMENTAL COMPETITIVE EXAMINATION – 2021 and fill up the personal details/Bio-data etc. carefully.

**NOTE :** Candidates should ensure that their name, father's name, date of birth etc. exactly match as recorded in service record.

2. Applicant has to submit only one application against the notice as per his/her eligibility.

**NOTE-I:** Candidates are advised to indicate their REGISTERED MOBILE NUMBER and valid e-mail ID in the ONLINE application and keep it active during the entire process. After submission of ONLINE application candidates shall receive their Admit Card on their mail.

**NOTE-II:** Candidates are advised in their own interest to submit ONLINE application much before the closing date to avoid possible inability/failure to log on to the website on account of heavy load on the internet or website jam during the last few days.

**NOTE-III** This office does not accept any responsibility for the candidates not being able to submit their application within the last day on account of aforesaid reasons or any other reason.

**NOTE-IV:** Candidate need not send any application print outs or certificates or copies to this Office by post. Candidates' information shall be sent on their SMS/e-mail.



**NOTE-V: Candidates are advised to take print out of Admit Card which is required to be produced at the time of Departmental Exam.**

5. SCANNED PHOTOGRAPH/SOFT COPY OF PHOTOGRAPH

Candidates are required to upload their colour photograph (size 4.5cmx3.5cm, which should not be older than three months from the date of application in color, JPG/JPEG format, size of the file should be between 50-100 kb with clear front view of the candidate **without cap and sunglasses**. Candidates may note that if it is not proper, at any stage; reject the applications for uploading old/unclear photograph or for any significant variations between photograph uploaded in the Application Form and the actual physical appearance of the candidate. Candidates are advised to keep two additional copies of the same photograph ready with them for bringing at the time of Departmental Exam.

6. SCANNED SIGNATURE/SOFT COPY OF IMAGE OF SIGNATURE

Candidates are also required to upload their signature (size 3.5 cm x 2.5 cm, JPG/JPEG format, size of the file should be between 10 kb-20 kb).

7. DOCUMENTS TO BE PRODUCED ON DEMAND

. Candidates are required to produce the following documents :

- A. **CERTIFICATE of verification of entries: To be filled in by the Head of the Office in which the candidate is working to be uploaded.**
- B. Admit Card (attached with the Application form) duly filled in.
- C. Original appointment letter, caste certificates and Age proof.

**NB: Candidates are cautioned that if an application not supported/uploaded with the documents mentioned under paragraph 3, 4 and 5 above, the application will be rejected and no appeal against its rejection will be entertained.**

8. Candidates are warned that they should not furnish any particulars that are false or suppress any material information in filling in the application form.
9. The filling of an application form does not *ipso facto* make the applicant eligible for admission to the examination.
10. Every application filled by an intending candidate shall be scrutinized and Admit Card with Roll Number will be issued to the eligible candidates. If a candidate does not receive Roll Number by **15<sup>th</sup> March, 2021**, he should at once contact the Controller of Exam, Director (Admn.), DUSIB.

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PUNERVAS BHAWAN, I.P. ESTATE,  
NEW DELHI-110002**

**RULES**

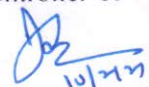
**ANNEXURE B**

New Delhi...10/2/2021

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The rules for a department competitive examination for promotion from the Grade of Junior Engineer (Civil) to the Grade of Assistant Engineer (Civil) in the DUSIB to be held in 2021 are published for general information.

1. The number of vacancies to be filled on the results of the examination is as specified in the Notice issued. Reservations shall be made for candidates belonging to the Scheduled Castes and the Scheduled Tribe in respect of vacancies as may be fixed by the Government.
2. The examination will be conducted in the manner prescribed in the Appendix to these Rules.
3. Regularly appointed officers of the Grade of Junior Engineer (Civil) of the DUSIB who have completed a minimum of FIVE years qualifying service as on 1<sup>st</sup> January, 2021 shall be eligible to appear in the examination. However, after the examination, merit list based on aggregate marks finally awarded to each candidate will be prepared separately in the respective categories and discipline (i.e. SC/ST/Others & Civil/Electrical).
4. The decision of the CEO, DUSIB as to the eligibility or otherwise of a candidate for admission to the examination shall be final.
5. No candidate will be admitted to the examination unless he holds a valid Admit Card issued by Controller of Exam, Director, (Admin.), DUSIB.
6. A candidate who is or has been declared by the CEO, DUSIB
  - (i) Obtaining support for his candidature by any means, or
  - (ii) Impersonating, or
  - (iii) Procuring impersonation by any person, or
  - (iv) Submitting fabricated document(s) which have been tampered with, or
  - (v) Making statements which are incorrect or false, or suppressing material information, or
  - (vi) Resorting to any other irregular or improper means in connection with his candidature for the examination, or
  - (vii) Using unfair means during the examination, or
  - (viii) Writing irrelevant matter, including obscene language or pornographic matter, in the script(s); or
  - (ix) Misbehaving in any other manner in the examination hall; or
  - (x) Harassing or doing bodily harm to the staff employed by the Controller of Exam, Director (Admin) for the conduct of their examination; or

  
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- (xi) Violating any of the instructions issued to candidates along with their Admit Card permitting them to take the examination; or
- (xii) Attempting to commit or as the case may be, abetting the commission of all or any of the acts specified in the foregoing clauses.

may in addition to rendering himself liable to criminal prosecution, be liable :-

- (a) to be disqualified by the CEO, DUSIB from the examination for which he is a candidate; and or
- (b) to be debarred either permanently or for a specified period—
  - (i) by the CEO, DUSIB from any examination or selection held by him.
  - (ii) by the Government, from any employment under them; and
  - (iii) to disciplinary action under the appropriate rules.

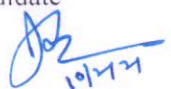
Provided that no penalty under this rule shall be imposed except after:

- i. giving the candidate an opportunity of making such representation in writing as he may wish to make in that behalf; and
  - ii. taking the representation, if any, submitted by the candidate, within the period allowed to him also into consideration;
7. The Administration Branch will seek VCR in respect of all candidates who apply for departmental exam and on the closing date of application shall be mandatory for qualifying for promotion.
8. After the examination, candidates will be arranged in the order of merit based on the aggregate marks finally awarded to each candidate; (such order of merit will be prepared separately for categories and discipline i.e. SC/ST/Others & Civil) and in that order so many candidates as are found to be qualified by the examination shall be recommended for promotion up to the required number.

**NOTE :** Candidates should clearly understand that this is a competitive and not a qualifying examination. The number of persons to be promoted on the results of the examination is entirely within the competence of CEO, DUSIB to decide. No candidate will therefore have any claim for promotion on the basis of his performance in this examination, as a matter of right.

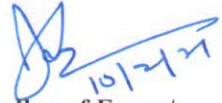
9. All the candidates will be informed overall marks only obtained by them. No request for revaluation of papers will be entertained. However, request for recounting of marks may be entertained upto five days of the declaration of the result.
10. Success in the examination confers no right to promotion unless DUSIB is satisfied after such enquiry as may be considered necessary, that the candidate, having regard to his conduct in service, is eligible and suitable in all respects for promotion.

Provided that the decision as to ineligibility for promotion in the case of any candidate

  
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recommended for promotion shall be taken in consultation with Committee formed for this purpose.

11. A candidate who after applying for admission to the examination or after appearing at it, resigns his appointment or otherwise quits the service or severs his connection with it or whose services are terminated by his Department or who is appointed to an ex-cadre post or to another Service on 'transfer' and does not have a lien in the grade of Junior Engineer (Civil/Electrical) in the DUSIB will not be eligible for appointment on the results of this examination.



**Controller of Exam/  
Director  
Administration  
DUSIB**

## APPENDIX

1. The examination shall be conducted according to the following plan:-

**PART I - Written examination** which will be job-oriented carrying a Maximum of 100 marks in the subjects as shown in para-2 below.

2. The subjects, in which the candidates competing for grades of Assistant Engineer (Civil) will be required to take the written examination, will be as follows:

S.No.	Grade of service	Subject
1.	Assistant Engineer (Civil)	1) Engineering Design & Construction Practice (Civil) 2) General Engineering(Civil)

**N.B. The papers will have theoretical content.**

The question papers will be so designed as to assess the ability of the candidates to apply their technical knowledge to the solution of problems.

The paper will carry a maximum of 100 marks and will be of 2 hours duration.

3. **Syllabus for the examination will be as shown in the Schedule.**
4. Question Papers will be set in English.
5. Candidates must write the papers in their own hand. In no circumstances they will be allowed the help of a scribe to write answers for them.
6. The minimum passing marks shall be 50%.
7. The Controller of Exam, shall have the discretion to fix qualifying marks in any or all the subjects of the examination.
8. Deduction up to five per cent of the maximum marks in the written subjects will be made for illegible handwriting.
9. Credit will be given for orderly, effective and exact expression, combined with due economy of words in all subjects of the examination.
10. In the question papers, wherever necessary, such as in numerical questions, the questions would be set in both the units i.e. Metric as also S.I. units of measures and weights. The candidates would not be permitted to change the system used in the same question.
11. Candidates should use only International form of Indian numerals (e.g. 1, 2, 3, 4, 5, 6 etc.) while answering question papers.
12. Candidates are permitted to bring and use battery operated pocket calculators (non-programmable) for conventional (essay) type papers. Loaning or inter-changing of



calculators in the Examination Hall is not permitted.

13. Any dispute shall be brought before the CEO, DUSIB and his decision shall be final and binding upon all concerned.

## Schedule

**Paper-I: ENGINEERING DESIGN AND CONSTRUCTION PRACTICE (CIVIL) : 50 Marks**

### **Part-A Strength of Material and Theory of Structures**

Stress-Strain relation—Hooke's Law.

Determination of forces in members of trusses pin-jointed frames Bending Moments and shear forces. Theory of simple bending.

Continuous beam and simple portals—Determination of bending moment and shear forces—method of analysis.

### **Part-B Design Principles**

Determinations of dead, live and wind, seismic loads — relevant I.S. Codes, Factor of Safety and Load Factor

### **Part-C Steel Design**

Design of simple Beams and plate Girders according to Indian Standards.

Design of single and built-up columns, column base connections.

Design of Steel Roof Trusses

### **Part—D Reinforced Concrete**

Basic principles of reinforced concrete, shear, bond and diagonal tension, location of reinforcement.

Design of singly and doubly reinforced beams, one way and two way slabs.

Theory and design of reinforced concrete columns with uni-directional bending only.

Design of cantilever and simple counter fort retaining wall

### **Part-E Construction Practice**

General details of Building construction including foundations, flooring, masonry and different type of roofs. Safety during construction, durability.

General properties, standard requirements and tests for common building material such as bricks, stones, sand and aggregate, cement, lime, timber and steel. Tests for fresh and hardened concrete.

Central PWD Specifications for building works, sanitary and water supply works and road works including modes of measurements.

**Paper II :GENERAL ENGINEERING (CIVIL) :**

**50 Marks**

### **Part—A Surveying**

Use and adjustment of Surveying Instruments: Chain, Plane table and accessories

magnetic compass, level and theodolite.  
Use of Compass and Theodolite: Alignments and adjustments.  
Levelling: Methods of leveling and reduced level calculations.  
Contour Survey : Methods of contouring, properties of contours,  
Curves and alignment: Setting out of simple, reverse and transition curves using different methods, Vertical curves.

**Part — B Highway Engineering**

Road alignment in hills and plains, minimum standards for National highways.  
Principles of design of urban roads, their cross-sectional requirements and interactions, road drainage and maintenance. House paths, approach roads and service lanes.

**Part- C Public Health Engineering**

Water Supply: Quality and quantity of water required for public water supplies.  
Water purification processes. Water distribution systems valves and fittings testing.  
Sanitation: Orientation, ventilation and damp proofing of buildings. Sanitary appliances Construction and testing of house drains.  
Sewage disposal - Sewerage system: - Construction and maintenance. Types of sewage treatment — Oxidation ponds — simple sedimentation, re-circulation and filtration—plant, contact beds-percolating filters. Septic tanks.

**Part—D Soil Mechanics and Foundation Engineering:**

Properties of soils, classification, soil explorations, methods of determining bearing capacity.  
Foundation Engineering: Principles of selection of type of foundation for a structure, shallow and deep foundations.  
Compaction ; Laboratory and field methods, optimum moisture content, soil stabilization.