JAMMU & KASHMIR PUBLIC SERVICE COMMISSION

Resham Ghar Colony,Bakshi Nagar Jammu-180001

(www.jkpsc.nic.in)

NOTIFICATION NO : 01- PSC (DR-P) OF 2 0 1 5

D A T E D : 05. 01 .2015

Applications on prescribed form are invited from the permanent residents of Jammu & Kashmir State possessing the prescribed academic qualification and age for the posts of **Assistant Engineer (Civil)** in Public Works (R&B) Department as per the category-wise break-up tabulated below. The posts carry the pay scale of Rs. 9300 – 34800 Grade Pay=5200 plus Allowances as admissible under rules. The applications complete in all respects and accompanied with the documents detailed hereinafter should reach the office of the J&K Public Service Commission Solina, Srinagar /Resham Garh Colony Bakshi Nagar Jammu by or on **05.02.2015.** In case it is declared a public holiday the last date for receipt of Application Forms shall be following working day.

Note : **A Screening Test for short-listing of candidates shall be held, if required, for which syllabus is enclosed as Annexure-'A'.**

1. Discipline-wise/category-wise break-up of posts.

Item No.	Name of the Discipline	OM	RBA	SC	ST	ALC	SLC	TOTAL
215	**Assistant Engineer (Civil) Public Works (R&B) Department**	20	07	02	03	02	1	35

Note: One post is earmarked for selection of Physically challenged candidates through Horizontal reservation in terms of SRO 294 dated: 21.10.2005, Government Order No. 62-SW of 2001 dated 13.03.2001 read with Government Order No. 231-SW of 2011 dated:22.12.2011 and Government Order No. 108-SW of 2013 dated 01.04.2013.

2. Prescribed Qualification

Bachelor's Degree in Civil Engineering or AMIE Section (A & B) India (Civil Engineering).

3. Having Age as on 1st January 2015 not:-

(i) below 18 years; and

(ii) above

(a) 40 years in case of Open merit.
(b) 43 years in case of SC/ST/RBA/ALC/SLC candidates.
(c) 42 years in case of physically challenged candidates.
(d) 48 years in case of Ex-Servicemen.
(e) 40 years in case of candidates already in Government Service.

Note: In terms of the Government Order No. 102-GAD of 2007 dated 27.01.2007, the Contractual appointees shall be deemed to be in-service candidates so far as the upper age limit for direct recruitment to Government Service is concerned provided they subsist in contractual appointment as on the date of issue of advertisement.

Note: Over-aged candidates having exceptional qualification relevant to the concerned subject may also apply at their own risk and responsibility without prejudice to the right of the Commission to reject their Application Form:

Provided that over-aged candidates, shall not be considered when other eligible candidates are otherwise available.

4. Application Forms:

(a) Application Forms can be obtained from the office of the J&K Public Service Commission, Solina Srinagar/Resham Ghar Colony, Bakshi Nagar, Jammu on cash payment of ₹500/- (excluding processing charges of Rs.10/) in respect of General Category candidates and ₹250/- (excluding processing charges of ₹10/-)in respect of Category candidates **through the counters of J&K Bank opened in the offices of J&K Public Service Commission at Solina, Srinagar/Resham Ghar Colony, Bakshi Nagar, Jammu from 9:30 am to 3:00 pm on all working days.**

(b) The OMR Application Forms should be filled up neatly, correctly and completely. A copy of passport size photograph duly attested by the Gazetted Officer should be pasted at the relevant place/space in the Application Form.

(c) The Application Form complete in all respects should be photo-copied. The photocopies of the certificates/testimonials be attached with photocopy of the Application Form. The OMR Application Form together with the photocopy of the Application Form and enclosures be submitted to the Commission office in the envelope provided by the Commission along with the Application Form.
Please note that the application form on which correction fluid is applied shall be rejected outrightly.

(d) The Application Forms complete in all respects must reach the Secretary, J&K Public Service Commission, Solina, Srinagar/Resham Ghar Colony, Bakshi Nagar, Jammu on or before the last date i.e **05.02.2015** in an envelope provided by the Commission alongwith the Application Form.

(e) The Commission will, in no case, be responsible for non-receipt of their Application Forms or any delay in receipt thereof on any account whatsoever. No applications received after **05.02.2015** will be entertained under any circumstances and all the late applications shall be deemed to have been rejected. Applicants should, therefore, ensure that their applications reach the Commission office on or before **05.02.2015.**

(f) The in-service candidates shall have the certificate from the Head of the Office recorded in the format given at the end of the Scanable Application Form and submit the application form in the Commission office by or on the last date prescribed viz. **05.02.2015**. A photocopy of the said application form shall be routed through their appointing authority.

5. CERTIFICATES TO BE ATTACHED WITH THE PHOTOCOPY OF THE APPLICATION FORM

Attested photo copies of the following certificates need be attached with the photo copy of the Application Form:-

i. Date of Birth Certificate.
ii. Permanent Resident Certificate.
iii. Educational Qualification Certificates Prescribed for the Post.
iv. Certificate of Higher Qualification, if any.
v. Marks certificate of all semesters of prescribed qualification.
vi. Category certificate as per SRO 294 dated 21.10.2005 as amended from time to time read with other relevant SRO's which must be valid on the cut off date (viz. last date for receipt of application forms).
vii. Disability Certificate on the prescribed format.

6. CERTIFICATES/TESTIMONIALS TO CLAIM WEIGHTAGE:-

The candidates in possession of the following certificates/testimonials should attach the photo-copies of the same along with the Application Form for claiming the benefit of weightage authorized under Rule 51 of J&K PSC (Business & Procedure) Rules, 1980.

a. Grade 'C' Certificate in NCC.
b. Certificate of an Outstanding Sports Person certified by the Secretary, J&K Sports Council in terms of J&K (Appointment of Outstanding Sports Persons) Rules, 1998.
c. **Experience against the post in a Govt./Govt. recognized institution including the institutions authorized by MCI/DCI/ICAR/ICVR/AICTE/Bar Council of India(Certified by the Head of Institution and in case of private institutions to be countersigned by the District/Divisional/State authority of the concerned Government Department and/or Director College Development Council/authorized officer of the university granting affiliation, as the case may be). The weightage shall be calculated at 0.25 points for every completed three months.**

The last date for receipt of applications as indicated above i.e **05.02.2015** shall, for all purposes be the cut off date for determining the eligibility. Experience/improvement in the qualification/marks/additional qualification/distinction in sports/Games/NCC, if any, acquired by the candidate after the last date fixed for receipt of applications, shall not be taken into account nor given any credit.

7. OTHER INFORMATION/INSTRUCTIONS

All applicants must fulfill the essential requirements of the post and other conditions stipulated in the advertisement. They are advised to satisfy themselves before applying that they possess the essential qualifications prescribed for the post. No enquiry for advice as to the eligibility will be entertained.

i. The prescribed qualifications are minimum and mere possession of the same does not entitle the candidates to be called for interview. Further, the summoning of candidates

for interview shall convey no assurance, whatsoever, that they will be selected. Appointment order of the selected candidates will be issued by the Government in accordance with the availability of vacancies.

ii. Save as otherwise provided, in any other Act, Rules, or Regulations in force, where the Commission considers that the number of candidates who have applied for the post to be filled by direct recruitment, on the basis of interview, is large and it is not convenient, or possible, for the Commission to interview all the candidates, the Commission may restrict the number of candidates to be called for interview, to a reasonable limit as provided in rule 40 of J&K Public Service Commission (Business & Procedure Rules) 1980 by short listing in the manner as indicated below:

a) <u>Short listing through a written Screening Test</u>

Where the number of applicants exceeds 350 against posts not exceeding 100 and where the number of applicants is more than 3 times against vacancies exceeding 100, the short listing in the proportion of 1 (post) : 3 (applicants) shall be done through a Written Screening Test.

b) <u>Short listing by other methods</u>

When the number of applicants for posts upto 100 is 350 or less, the short listing shall be done in the proportion indicated in the sub joined table on the basis of:

(i) Percentage of marks secured in the qualifying examination; and

(ii) Higher qualification, if any, in the relevant subject.

i	For 1-5 post	Five times the number of posts
ii	For 6-10 posts	Four times the number of posts subject to a minimum of 25.
iii	For 11 –100 posts	Three times subject to a minimum of 40.

Provided that the candidate (s) who have secured marks equal to those secured by the last candidate, shall also be called for the Interview over and above the number of candidates short listed according to ii(a) and ii(b) above.

In a situation, when a reserved category candidate secures, merit equal to or above the cut off merit, in open category, such candidates shall also be called for interview in the respective category.

In the shortlisting carried out in the manner indicated at 'b' above the weightage for merit in the qualifying examination shall be 90% and for higher qualification in the relevant subject up to 10%

(iii) The marks secured by the candidates in the screening test shall not be taken into account for determining the final order of merit.

(iv) The place of interview/centre for screening test once chosen by the candidate shall not be changed.

(v) Selection of the candidates shortlisted for the interview shall be made in accordance with rule 51 of J&K Public Service Commission.

(vi) The summoning of candidates for interview conveys no assurance, whatsoever that they will be selected. Appointment orders to selected candidates will be issued by the Government.

(vii) The candidate must be healthy and physically fit. If selected he/she shall be prepared to undergo such medical examination and satisfy such medical authority as the Government may require.

(viii) Candidates will be informed of the result of their applications in due course of time and any interim enquiries about the result are, therefore, unnecessary and will not be attended to. The Commission shall not enter into any correspondence with the candidates about reasons for their non-selection for interview/appointment.

(ix) Canvassing, in any form, shall disqualify a candidate.

8. <u>ACTION AGAINST CANDIDATES FOUND GUILTY OF MISCONDUCT</u>

Candidates are warned that they should not furnish any particulars that are false or suppress any material information while filling up the Application Form. Candidates are also warned that they should, in no case, alter or otherwise tamper with any entry in a document or its attested/certified copy submitted by them, nor should they submit a tampered/fabricated document. If there is any inaccuracy or any discrepancy between two or more such documents or their attested/certified copies, an explanation regarding this discrepancy should be furnished.

A candidate who is or has been declared by the Commission, to be guilty of:

i. obtaining support of his/her candidature by any means, or
ii. impersonating, or
iii. procuring impersonation by any person, or
iv. submitting fabricated documents or documents 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/her candidature for the selection, or
vii. using unfair means during the test, or
viii. writing irrelevant matter including obscene language or pornographic matter, in the script(s), or
ix. misbehaving in any manner in the examination hall, or
X. harassing or doing bodily harm to the staff employed by the Commission for the conduct of their test, or
xi. 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/herself liable to criminal prosecution, be liable:
   a. to be disqualified by the Commission from selection for which he/she is a candidate, and/or
   b. to be debarred either permanently or for a specified period: -
      i. By the Commission from any examination or selection held by them.
      ii. By the State Government from any employment under them, and
   c. if he/she is already in the service under Government, disciplinary action under the rules.

IMPORTANT

1. Candidate must read the detailed instructions before filling up of the form. He/She must fill the form strictly according to the instructions.
2. Candidates must ensure that no column is left blank or wrongly filled, as information furnished therein would be used for deciding the eligibility and suitability of the candidate for being called for the interview. Application not filled correctly and as per the instructions is liable to be rejected and the responsibility of such rejection would be on the candidate himself/herself. The Commission will not entertain any claim in respect of such rejection.
3. Copies of the certificates should be attached in support of the information given in the form, where necessary. Any information contained in the attached certificates shall not be considered unless it is claimed in the Application Form.
4. Fee amount is payable in the shape of Bank Draft drawn from J&K Bank Limited only or by cash at J&K Bank counters opened in P.S.C Offices both at Jammu/Srinagar. No other mode of payment is acceptable.
5. Applications should be sent/delivered to the Secretary J&K Public Service Commission Reshamghar Colony, Bakshi Nagar, Jammu /Polo Ground Srinagar.
6. For any query visit the Commission's Website (***www. jkpsc.nic.in)***.
7. Moreover, in case of clarification, the candidates should mention the Notification No., Item No. and Bar Code No. of the Application Form along with specific information to be sought.

Sd/-
(Shakeel Ul Rehman), KAS
Secretary
J&K Public Service Commission

No: PSC/DR/PWD(R&B)/Civil Engg/2015 Dated:-05.01.2015.

Annexure- 'A'

SYLLABUS FOR THE SCREENING TEST OF ASSISTANT ENGINEER (CIVIL)

Engineering Mechanics: Statics; unit and dimensions SI units, vectors, coplanar and noncoplanar force systems, equations of equilibrium, free body diagrams, static friction, virtual. work, distributed force systems, first and second moments of area, mass moment of Inertia.

Kinematics and Dynamics: Velocity and acceleration in Cartesian and curvilinear coordinate systems, equations of motion and their integration, principles of conservation of energy and momentum, collision of elastic bodies, rotation of rigid bodies about fixed axis, simple harmonic motion.

Strength of Materials: elastic, isotropic and homogeneous materials, stress and strain, elastic constants, relation among elastic constants, axially loaded determinate and indeterminated members, shear force and bending moment diagrams, theory of simple bending, shear stress distribution, stitched beams.

Deflection of Beams: Macaulay method, Mohr theorems, Conjugate beam method, torsion, torsion of circular shafts, combined bending, torsion and axial thrust, close coiled helical springs Strain Energy, strain energy in direct stress, sheer stress, bending and torsion.

Thin and thick cylinders, columns and struts, Euler and Rankine loads, principal stresses and strains in two dimensions - Mohr circle-theories of elastic failure. Structural Analysis: indeterminate beams, propped, fixed and continuous beams, shear force and bending moment diagrams, deflections, three hindged and two hindged arches, rib shortening, temperature effects, influence lines.

Trusses: Method of joints and method of sections, deflections of plane pin jointed trusses.

Rigid Frames: Analysis of rigid frames and continuous beams by theorem of three moments, moments distribution method, slope deflection method, Kani method
and column analogy method, matrix analysis; Rolling loads and influence lines for beams and pin-jointed girders.

Soil Mechanics: Classification and identification of soils, phase relationships; surface tension and apillary phenomena in soils, laboratory and field determination of co-efficient of permeability; seepage forces, flow nets, critical hydraulic gradient, permeability of stratified deposits; Theory of compaction, compaction control, total and effective stresses, pore pressure coefficient, shear strength parameters in terms of total and effective stress, Mohr-Coulomb theory; total and effective stress analysis of soil slopes; active and passive pressures, Rankine and Coulomb theories of earth pressure, pressure, distribution on trench sheeting, retaining walls, sheet pile walls: soil consolidation, Terzaghione-dimensional theory of consolidation, primary and secondary settlement.

Foundation Engineering: Exploratory program for sub-surface investigations, common types of boring and sampling, field test and their interpretation, water level of observations;. Stress distribution beneath loaded areas by Boussinesq and Steinbrenner methods, use of influence charts, contact pressure distribution determination of ultimate bearing capacity by Terzaghi, Skempton and Hansen's methods; allowable bearing pressure beneath footings and rafts; settlement criteria, design aspects of footings and rafts; bearing capactiy of piles and pile groups, pile load tests, underreamed piles for swelling soil; Well foundations, conditions of statical equilibrium, vibration analysis of single degree freedom system, general considerations for design of machine foundations; earthquake effects on soil foundation systems, liquefaction.

Fluid Mechanics: Fluid properties, fluid statics, forces on plane and curved surfaces. Stability of floating and submerged bodies

Kinematics: Velocity streamlines, continuity equation, accelerations, irrotational and rotational flow, velocity potential and stream functions, flow net, separation and stagnation.

Dynamics: Euler's equation along stream line, energy and momentum equations, Bernoulli's theorem, applications to pipe flow and free surface flows, free and forced vortices.

Dimensional Analysis and similitude: Buckingham's Pi theorem, dimensionless, parameters, similarities, undistorted and distorted models.
Boundary layer on a flat plate, drag and lift on bodies.

Laminar and Turbulent flows: Laminar flow through pipe and between parallel plates, transition to turbulent flow, turbulent flow through pipes, friction factor variation, energy loss in expansions, contraction and other non-uniformities, energy grade line and hydraulic grade line, pipe networks, water hammer.

Compressible flow: Isothermal and isentropic flows, velocity of propogation of pressure wave, Mach number, subsonic and supersonic flows, shock waves.

Openchannel flow: Uniform and non-uniform flows, specific energy and specific force, critical depth, flow in contracting transitions, free overall, wires, hydraulic jump, surges, gradually varied flow equation and its integration, surface profiles.

Surveying: General principles; sign conventions, chain surveying, principles of plane table surveying, two point problem, three point problem, compass surveying, traversing ; bearings local, attraction, traverse computations, corrections.

Levelling: Temporary and permanent adjustments; fly- levels, reciprocal levelling, contour levelling; volume computations, refraction and curvature corrections.

Theodolite: Adjustments traversing, heights and distances, tacheometric surveying.

Curve setting by chain and by theodolite; horizontal and vertical curves.

Triangulation and base-line measurements; Satellite stations, trigonometric levelling, astronomical surveying, celestial co-ordinates, solution of spherical triangles, determination of azimuth, latitude, longitude and time.

Principles of aerial photogrammetry, hydrographic surveying.

Sd/-
Secretary
J&K Public Service Commission.