



FLUID CONTROL RESEARCH INSTITUTE

(Under Government of India, Ministry of Heavy Industries)

Kanjikode West, Palakkad, Kerala – 678 623

Notification No. FCRI/P&A/2026-27/Scientific Staff-001/RE-JRE

22.07.2026

DIRECT RECRUITMENT FOR

RESEARCH ENGINEERS & JUNIOR RESEARCH ENGINEERS

FCRI is an ISO 9001:2015 certified premier research institute in the domain of fluid flow measurement & control providing specialized scientific services, testing & calibration, research & development, training & consultancy, etc. Applications are invited from Indian Nationals for the following posts:

Name of Post & Pay in Pay Matrix	Educational & Experience Criteria	Category & No. of Posts	Age Limit (years) [#]
Research Engineer Level 10 in Pay Matrix as per 7 th CPC (Rs.56100 - 177500)	Graduate in Mechanical Engineering with: (i) 5 years relevant* experience OR (ii) Post Graduate in Mechanical Engg. and 3 years relevant* experience. <i>*Refer detailed notification at www.fcricriindia.com for information on relevant Specialisation & experience.</i>	UR: 2 OBC: 1 SC: 1	UR: 35 OBC: 38 SC: 40
Junior Research Engineer Level 8 in Pay Matrix as per 7 th CPC (Rs.47600 - 151100)	Graduate in Mechanical Engineering	UR: 4 OBC: 2 SC: 1 ST: 1	UR: 30 OBC: 33 SC: 35 ST: 35 EWS: 30
	Graduate in Civil Engineering	UR: 1 SC: 1	
	Graduate in Electrical Engineering/ Electrical & Electronics Engineering	UR: 1	
	Graduate in Instrumentation Engineering / Applied Electronics & Instrumentation / Instrumentation & Control Engineering / Electronics & Instrumentation	UR: 2 OBC: 1 EWS: 1	

Start date of Online Applications: **24.07.2026**

Closing date for Applications: **24.08.2026**.

Interested candidates are advised to visit the Institute website www.fcricriindia.com/career for full details including application criteria. Age Limits[#] mentioned are as on closing date of applications. Any amendments / corrigendum to this advertisement will be notified only in Institute website.



फ्लुइड कंट्रोल रिसर्च इंस्टीट्यूट
(भारत सरकार, भारी उद्योग मंत्रालय के अधीन)
कंजिकोड़ पश्चिम, पालक्काड, केरल – 678 623

अधिसूचना संख्या FCRI/P&A/2026-27/Scientific Staff-001/RE-JRE

22.07.2026

अनुसंधान अभियंता और कनिष्ठ अनुसंधान अभियंता पदों के लिए सीधी भर्ती

एफसीआरआई एक आईएसओ 9001:2015 मान्यता प्राप्त प्रमुख अनुसंधान संस्थान है जो द्रव प्रवाह मापन एवं नियंत्रण के क्षेत्र में विशिष्ट वैज्ञानिक सेवाएं, परीक्षण एवं अंशांकन, अनुसंधान एवं विकास, प्रशिक्षण एवं परामर्श आदि प्रदान करता है। भारतीय नागरिकों से निम्नलिखित पदों के लिए आवेदन आमंत्रित किए जाते हैं:

पद का नाम एवं वेतन	शैक्षिक और अनुभव मानदंड	श्रेणी और पदों की संख्या	आयु सीमा (वर्ष) #
अनुसंधान अभियंता 7वें सीपीसी के अनुसार वेतन मैट्रिक्स में लेवल 10 (₹.56100 - 177500)	मैकेनिकल इंजीनियरिंग में स्नातक साथ में (i) 5 वर्ष का प्रासंगिक* अनुभव या (ii) मैकेनिकल इंजीनियरिंग में स्नातकोत्तर डिग्री और 3 वर्ष का प्रासंगिक* अनुभव। *विशेषज्ञता और प्रासंगिक अनुभव संबंधी जानकारी के लिए www.fcridia.com पर विस्तृत अधिसूचना देखें।	अनारक्षित: 2 ओबीसी: 1 एससी: 1	अनारक्षित: 35 ओबीसी: 38 एससी: 40
कनिष्ठ अनुसंधान अभियंता 7वें सीपीसी के अनुसार वेतन मैट्रिक्स में लेवल 8 (₹.47600 - 151100)	मैकेनिकल इंजीनियरिंग में स्नातक	अनारक्षित: 4 ओबीसी: 2 एससी: 1 एसटी: 1	अनारक्षित: 30 ओबीसी: 33 एससी: 35 एसटी: 35
	सिविल इंजीनियरिंग में स्नातक	अनारक्षित: 1 एससी: 1	ईडब्ल्यूएस: 30
	इलेक्ट्रिकल इंजीनियरिंग / इलेक्ट्रिकल और इलेक्ट्रॉनिक्स इंजीनियरिंग में स्नातक	अनारक्षित: 1	
	इंस्ट्रुमेंटेशन इंजीनियरिंग / एप्लाइड इलेक्ट्रॉनिक्स और इंस्ट्रुमेंटेशन / इंस्ट्रुमेंटेशन और कंट्रोल इंजीनियरिंग / इलेक्ट्रॉनिक्स और इंस्ट्रुमेंटेशन इंजीनियरिंग में स्नातक	अनारक्षित: 2 ओबीसी: 1 ईडब्ल्यूएस: 1	

ऑनलाइन आवेदन शुरू होने की तिथि: **24.07.2026**

आवेदन जमा करने की अंतिम तिथि: **24.08.2026**

इच्छुक उम्मीदवार आवेदन प्रक्रिया सहित पूरी जानकारी के लिए संस्थान की वेबसाइट www.fcridia.com/career पर जाएं।

#आयु सीमा आवेदन जमा करने की अंतिम तिथि के अनुसार है।

इस विज्ञापन में किसी भी प्रकार का संशोधन/सुधार केवल संस्थान की वेबसाइट पर ही सूचित किया जाएगा।

**NOTIFICATION FOR RECRUITMENT TO POSTS OF
JUNIOR RESEARCH ENGINEER, RESEARCH ENGINEER**

**DIRECT RECRUITMENT FOR
RESEARCH ENGINEERS & JUNIOR RESEARCH ENGINEERS**

**A. ESSENTIAL QUALIFICATION & EXPERIENCE CRITERIA for the Post of
RESEARCH ENGINEER:**

1. MECHANICAL (Multiphase Flow)

POST CODE: RE-ME-MPF-001

B. E / B. Tech. or equivalent in Mechanical Engineering with 5 year experience in Two-phase flow / Multi-phase flow research and experimental testing;

OR

M. E / M. Tech or equivalent in Mechanical Engineering with 3 year experience in two phase flow/multiphase flow research and experimental testing. The B.E or equivalent degree shall be in Mechanical Engineering.

2. MECHANICAL (CFD/Thermal & Fluid Engineering) POST CODE: RE-ME-CFD-002

B. E / B. Tech. or equivalent in Mechanical Engineering with 5 year experience in Computational Fluid Dynamics (CFD) in Thermal & Fluids Engineering;

OR

M. E / M. Tech or equivalent in Mechanical Engineering (Specialization: Thermal & Fluid Engineering / Fluid Mechanics & Thermal Engineering) and 3 year experience in CFD in Thermal and Fluid Engineering. The B. E/B. Tech or equivalent degree shall be in Mechanical Engineering.

3. MECHANICAL (Valves/ Thermal & Fluid Engineering) POST CODE: RE-ME-VTF-003

B. E / B. Tech. or equivalent in Mechanical Engineering with 5 year experience in design and testing of valves;

OR

M. E / M. Tech or equivalent in Mechanical Engineering (Specialization in Thermal & Fluids Engineering / Fluid Mechanics & Thermal Engineering) and 3 year experience in design and testing of valves and with B. E/B. Tech or equivalent degree in Mechanical Engineering.

4. MECHANICAL (Fluid Flow Research)

POST CODE: RE-ME-FFR-004

B. E / B. Tech or equivalent in Mechanical Engineering with 5 year relevant experience in fluid flow research as cited below;

OR

M. E/M. Tech or equivalent in Mechanical Engineering with 3 year relevant experience in fluid flow research as cited below. The B. E/B. Tech or equivalent degree shall be in Mechanical Engineering.

Desirable Qualification: PhD.

Essential Experience: The research experience shall be in Industrial design section or Research Institute or Science and Technology Organisation, in the domains of fluid flow measurement / engineering preferably of nature of experimental testing, characterization, validation studies. Candidate shall have hands on experience in CFD / FEA / Multi-physics involving design and performance analysis / investigations of hydraulic turbines / pumps / valves / flowmeters, etc. CFD experience including performance characteristics, analysis of various unsteady phenomena, prediction and analysis of cavitation, determination of losses, etc.. Research experience may also be in measurement of noise & vibration, design / testing of hydraulic machinery (pumps, turbines), design of hydro-power / pneumatic actuator systems, etc.

PROOF OF ESSENTIAL EXPERIENCE for RESEARCH ENGINEERS:

- i The candidate shall submit proof of relevant post qualification experience from the employer in his/her online application. Proforma for Experience Certificate is as in **Annexure-B**.

**NOTIFICATION FOR RECRUITMENT TO POSTS OF
JUNIOR RESEARCH ENGINEER, RESEARCH ENGINEER**

- ii For the Research Engineer openings [post codes **RE-ME-MPF-001** and **RE-ME-FFR-004**], the research experience shall be evidenced by publications in peer reviewed journals of repute, especially after the last qualifying degree B. E or M. Tech degree as applicable.

B. EDUCATIONAL QUALIFICATION CRITERIA for the Post of JUNIOR RESEARCH ENGINEER:

POST CODE	Education: B.E/B.Tech or equivalent in the below Discipline
JRE-ME-001	Mechanical Engineering
JRE-CE-002	Civil Engineering
JRE-EE-003	Electrical Engineering Electrical & Electronics Engineering
JRE-IN-004	Instrumentation Engineering Applied Electronics & Instrumentation Instrumentation & Control Engineering Electronics & Instrumentation Engineering

Note: Freshers may apply for the post of Junior Research Engineer.

C. DETAILED INFORMATION TO ALL CANDIDATES:

- i Only Indian Nationals need apply.
- ii To apply online, follow the instructions for candidate registration and filling up of application including uploading of relevant documents.
- iii Application Fee for each Post: **Rupees One Thousand One Hundred and Eighty only (Rs 1180/-)** [Rs. 1000/- plus applicable 18% GST] to be paid through online payment gateway at the application portal. No other modes of payments are envisaged.
- iv No Application Fee for Women, SC / ST and PwBD categories of candidates.

C1. Information to All Candidates regarding EDUCATIONAL QUALIFICATIONS AND OTHER CRITERIA:

- a. All applicants for the post of Research Engineers and Junior Research Engineers shall have passed as on closing date of applications, Four-year Bachelor's Degree in Engineering (B. E or B. Tech) in the respective discipline as cited above with 65% marks. Bachelor's degree in Engineering/Technology shall be either 4 years programme after 10+2, or lateral entry 3 years programme after Diploma in Engineering/Technology in the relevant discipline.
- b. For the Post of Junior Research Engineer, candidates awaiting final results of qualifying degree may also apply, provided the candidates have to:
- i upload the Final Marksheets and Degree Certificate of qualifying examination on or before 31 August 2026.
- ii Submit an Undertaking in the online application form, that their candidature will be cancelled automatically in case they fail to upload the marksheet and certificates of qualifying degree on or before 31 August 2026. Also, their candidature will be cancelled in case they do not meet the minimum qualifying marks mentioned in this notification.
- iii The online portal will remain open for such candidates to facilitate upload of qualifying degree marksheet and degree certificate upto 31 August 2026 only.
- c. Applicants for the post of Research Engineers with Post Graduate Degree (M. E or M. Tech), need to have secured minimum 65% marks.
- d. The Qualifying degrees shall be full time Regular courses from UGC recognized Indian University / UGC recognized Indian Deemed University / AICTE approved course from Autonomous Indian Institutions as relevant.

**NOTIFICATION FOR RECRUITMENT TO POSTS OF
JUNIOR RESEARCH ENGINEER, RESEARCH ENGINEER**

- e. Relaxed minimum percentage of marks in educational qualification in respect of Posts reserved for SC/ST category candidates is 60%. Candidates belonging to SC/ST category should produce their caste certificate in the prescribed format issued by Competent Authority as prescribed by Government of India in support of their claim. Refer **[Annexure-C1]**.
- f. However, SC/ST category candidates applying against Unreserved (General) posts shall be considered ONLY under general standard of merit and there is no relaxation in minimum qualifying percentage of marks in education qualifications for the Posts.
- g. Candidates belonging to OBC (Non-Creamy Layer) category should produce their caste certificate in the prescribed format applicable for purpose of reservation in appointment to posts under Government of India/Central Government Public Sector Undertaking as contained in DOPT OM No. 36036/2/2013- Estt. (Res.) dated 30-05-2014 from a competent authority issued in the year of advertisement as per National Commission for Backward Classes (NCBC) as per **[Annexure-C2]**.
- h. Candidates from EWS category shall submit the relevant certificate in the prescribed format applicable for reservation under Economically Weaker Sections. **[Annexure-C3]**.
- i. Wherever CGPA/OGPA/CPI or letter grade in a Degree is awarded, equivalent percentage of marks should be indicated in the application as per norms adopted by University/Institute. Candidate is required to upload a certificate to this effect from the University/Institute, in the online application. Further, they shall produce the original certificate during document verification stage failing which their candidature will be rejected.
- j. AGE LIMIT: The upper age limit for the Posts as mentioned in the Notification Table shall be as on the closing date of Application submission as mentioned.
- k. Relaxation in age limit up to 5 years is allowed for the regular employees from Government / Central Autonomous bodies / Public sector undertakings. It is essential that the candidate is a regular employee working in the government sector until the date of his/her joining FCRI if shortlisted, if availing the benefit of age relaxation.
- l. Furnishing of wrong / false / incomplete information in the Application will lead to disqualification of the candidate and FCRI will not be responsible for any of the consequences of furnishing such wrong / false / incomplete information.
- m. The candidates should ensure that they fulfill all eligibility criteria and other conditions as specified and that the particulars furnished in the Application are correct in all respects. Mere submission of Application Form does not imply that FCRI has been satisfied about the candidate's eligibility.
- n. In case it is detected at any stage of the selection process that a candidate does not fulfill any of the eligibility criteria, and/ or that he / she has furnished any incorrect information or has suppressed any material fact(s), his / her candidature will stand cancelled. If any of these shortcomings(s) is / are detected even after appointment, his / her services will be terminated.
- o. No correspondence whatsoever will be entertained from any candidate regarding the reason(s) for not being called for interview or regarding outcome of the test / interview. Candidates are advised to visit the Institute website (www.fcriindia.com/career) regularly for updates.
- p. No correspondence whatsoever will be entertained from any candidate or his/her representative seeking information on status of applications, status of results at any stages of the selection process. Candidates are advised to visit the Institute website (www.fcriindia.com/career) regularly for updates.
- q. Any dispute with regard to recruitment against this advertisement will be settled within the jurisdiction of Palakkad Court only.
- r. Applicants for the post of Research Engineers shall mandatorily submit Experience Certificate in prescribed Proforma from their employer **[Annexure-B]**. Applications without experience certificate in prescribed Proforma from the Employer will not be entertained. Publications in peer reviewed journals for the post codes mentioned shall also be submitted.

C2. POSTING & BENEFITS:

**NOTIFICATION FOR RECRUITMENT TO POSTS OF
JUNIOR RESEARCH ENGINEER, RESEARCH ENGINEER**

C2.1 The posts of Research Engineers and Junior Research Engineers carry the following emoluments / benefits:

- i) Minimum Basic Pay on Entry for Research Engineers (RE) is Rs. 56100/-, and that for Junior Research Engineer (JRE) is Rs.47600/-. Various allowances like Dearness Allowance, House Rent Allowance, and Transport allowance at the prevailing rates would be admissible on the Basic Pay. Minimum gross pay admissible to RE and JRE would be around Rs. 1,01,130/- and Rs. 83,800/- respectively.
- ii) In addition, all employees are entitled for National Pension System (NPS), gratuity, medical reimbursement, travelling allowance / daily allowance on tours, leave benefits, etc. as per policy of the Institute.

C2.2 The person selected may be posted at FCRI or **anywhere in India** in the interest of the Organization.

C3. HOW TO APPLY:

1. Please visit FCRI website **www.fcriindia.com** and follow the instructions before applying online. Candidates are advised to keep ready the documents/details mentioned in (3) below before filling up the online applications.
2. **CHECK LIST** to be followed for filling up of Application by online mode:
Please keep scanned copies of following documents ready, for uploading to the portal. **Please follow all instructions as mentioned in the online application portal.**
 - i) Passport size photograph (in JPG format)
 - ii) Scanned copy of Signature (in JPG format)
 - iii) Certificate from competent authority for availing Reservation Category (If applicable) (in PDF format) in relevant Proforma **[Annexure-C]** to be submitted.
 - iv) Certificates in proof of having acquired Education Qualifications for Class X, Class XII, Bachelor's Degree, Post Graduate Degree (if applicable) and others as mentioned in the eligibility criteria of this notification.
 - v) Mark-sheets for the Educational Qualifications for B. E/ B. Tech., M. E / M. Tech.
 - vi) Certificate(s) from respective Employer(s) regarding the professional Experience(s) as in **[Annexure-B]**. If more than one certificate of experience, please combine into single PDF File.
 - vii) Details of Research Experience (including papers published) in relevant areas as cited in the Notification shall be uploaded as mentioned in the online application.
 - viii) Class X / SSLC Certificate for Proof of Age.
 - ix) A valid Photo-ID Card [eg. Aadhaar Card, Indian Passport or Election Commission ID Card].
 - x) Persons in Government / Autonomous bodies, Research Institutes / Public sector undertakings shall provide undertaking on submission of No Objection Certificate from present employer. The applicant, if shortlisted, he/she shall also submit duly attested list of major / minor penalties, vigilance clearance certificate and certified copies of APAR for the last 5 years at the time of Certificate Verification which will be informed in due course.
 - xi) Ensure the applicant mentions correct and relevant code for the Post applied for as per eligibility criteria.
3. Each candidate need to submit Only one application Form in the application portal. Tick only the post for which the candidate is eligible. Submission of multiple application forms from a single candidate will result in rejection of his / her candidature.
4. Candidates are advised to check their spam folders in case of non-receipt of email communications pertaining to the selection process. If the mail goes to spam, mark it as not spam and important.

D. METHOD OF SELECTION

The selection process will be done in three stages.

1. Screening of Applications.

**NOTIFICATION FOR RECRUITMENT TO POSTS OF
JUNIOR RESEARCH ENGINEER, RESEARCH ENGINEER**

- i) The online applications will be screened based on educational qualifications, experience criteria (if applicable), age, etc. and submission of Application Fee as applicable. Candidates are advised to submit their applications with all relevant information correctly.
 - ii) The details of provisionally qualified candidates after screening will be put up on Institute website for further stages of selection process.
- 2. Written Test (for the posts of Junior Research Engineer)**
- i) The candidates shortlisted will be required to appear for online examination which will be held at Test Centres at Coimbatore and/or Kochi. The availability of a Test Centre City will depend on factors including number of shortlisted candidates. FCRI reserves the right to conduct / not to conduct the written examination at a Test Centre City mentioned in the Notification.
 - ii) The examination will be held online, will be of Multiple Choice Questions type (MCQ) in bilingual mode (Hindi /English) with the following scheme:
 - a. Number of Questions: **100**; Duration of Test: **120** minutes
 - b. Maximum Marks: **400**;
 - c. Marks: **FOUR Marks** for **correct** answer and **minus ONE** for **incorrect** answer;
ZERO Marks for **unattempted**.
 - d. The **Examination Syllabus** is given at **Annexure A** to this Notification.
 - iii) No TA/DA is payable for attending Test/interview.
- 3. Personal Interview**
- i) The provisionally shortlisted candidates will be called for Personal Interview, only after they have completed the document verification stage. All requisite documents as mentioned in the notification including original documents in proof of age, identity, qualification, marks, relevant experience (as applicable), reservation category, etc. shall be submitted for verification.
 - ii) Persons in Government /Autonomous bodies / Research Institutes /Public sector undertakings, if shortlisted, shall mandatorily bring for verification No Objection Certificate (NOC), duly attested list of major / minor penalties, vigilance clearance certificate and certified copies of APAR for the last 5 years from their present employer at the time of Document verification process, failing which his / her candidature will be rejected and no further correspondence will be considered later.
 - iii) The details regarding date, time and venue for Document verification and Interview will be informed to shortlisted candidates in their registered email, as well as published at the Institute website. All documents including those uploaded during online application process shall be brought for verification.
 - iv) Candidates who do not submit their original documents for verification will be summarily rejected and will not be allowed to appear for Interview.
 - v) Mere fulfillment of minimum requirements as laid down in the advertisement does not qualify a candidate to be called for test/interview.
 - vi) Interviews shall be conducted at FCRI, Palakkad, Kerala or at any other City as approved by competent authority.

E. SPECIAL INSTRUCTIONS to Candidates:

- i) On completion of each stage, the details of candidates who qualify to next stage will be notified in the Institute website.
- ii) **Junior Research Engineer:** The final rank list will be based on weightage for marks in the written test and Interview in the ratio 80 : 20.
- iii) **Research Engineers:** Selection will be based on Interview. However, FCRI reserves the right to include additional stages of assessment, if needed. The details will be published at Institute website. The short-listed candidates shall check the website periodically for any updates.

**NOTIFICATION FOR RECRUITMENT TO POSTS OF
JUNIOR RESEARCH ENGINEER, RESEARCH ENGINEER**

- iv **Requests from candidates for postponement or change in venue/ location of written Test / Interview will NOT be allowed or entertained under any circumstance.**
- v **Any revision, clarification, addendum, corrigendum, time extension, etc.** with reference to this notification / advertisement **will be hosted at Institute website ONLY and no separate notification will be issued in the press.** Candidates are requested to visit the Institute website regularly to keep themselves updated.
- vi FCRI reserves the right to reject any / all applications at any stage of the selection process.
- vii The selected candidates shall undergo medical examination [as per medical standards] and verification of character & antecedents from appropriate authorities. Only candidates found fit will be offered appointment.

F. ADDITIONAL INSTRUCTIONS:

- i Candidates are advised in their own interest that they should not furnish any particulars that are false, tampered or, fabricated.
- ii Candidates shall NOT suppress or misrepresent any material information.
- iii Misconducts of following nature will render a candidate ineligible / unfit:
 - Using unfair means during the examination.
 - Impersonating or procuring impersonation by any person.
 - Misbehaving in the examination hall.
 - Resorting to any irregular means in connection with his/her candidature during Selection process
 - Obtaining support for his/her candidature by any means
 - Coming to test / interview in inebriated condition or under influence of substances.
 - Bringing electronic devices, smart watches, wireless / transmitters/ transceivers, mobile-phones, photographic devices, videography devices, etc. into the examination / interview venue.
 - Videography / photography, use of social media / news media at or near the Test Centre or venue of interview.
- iv Candidates who tamper / furnish incorrect information or resort to any misconducts shall be liable for prosecution in addition to following actions:
 - Will be disqualified from the examination hall
 - Will be debarred either permanently or for a specified period from any examination / recruitment at FCRI, Offices / organizations of Govt. of India or under the Ministry of Heavy Industries / Govt. of India.
- v Candidates are informed that any type of canvassing will invite disqualification. Candidates shall not send any copy of the application or letters pertaining to the applications or points of concern with regard to the Notification/Recruitment to any other official / employee of the Institute / Ministry or third party.
- vi Candidates to beware of touts, job racketeers or such agents claiming to assist or represent the institute or Ministry and trying to deceive by false promises of securing job either through influence or by use of unfair and unethical means. Please beware of unscrupulous elements and do not fall in their trap.
- vii In case of any clarifications in technical words or descriptions in the Hindi version of Notification, then please refer the Notification in English version. In case of any ambiguity, the English version shall prevail.

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**NOTIFICATION FOR RECRUITMENT TO POSTS OF
JUNIOR RESEARCH ENGINEER, RESEARCH ENGINEER**

ANNEXURE-A

SYLLABUS for Written Test for Junior Research Engineer

Sl. No.	Part	No. of Questions	Coverage / Syllabus
1	Part-A	15	Common to All disciplines [Civil, Mechanical, Electrical, Instrumentation]
	Reasoning & Numerical Ability Section	15	Number System: Number System, LCM & HCF, Divisibility, Numbers & Decimal Fractions; Mensuration: Geometry, Area, Shapes & Perimeter; Arithmetic Ability: Percentages, Mixtures, Ratios & Proportion, Work & Time, Speed, Time and Distance, Profit & Loss, Averages, Equations, Ages, Series and Progressions; Elementary Statistics: Mean, Median, Mode, Variance, Standard Deviation; Data Interpretation: Pie Charts, Tabular & Graphical Data Interpretation; Reasoning: Analogy, Odd one out, logical reasoning, decision making, passage & conclusions, pattern matching & alphabet / alphanumeric series, syllogism (deductive reasoning), etc
2	Part-B	15	Common to All disciplines [Civil, Mechanical, Electrical, Instrumentation]
a	Probability, Statistics & Numerical Methods	6	Sampling theorems, conditional probability, mean, median, mode, standard deviation and variance; random variables: discrete and continuous distributions: normal, Poisson and binomial distributions. Matrix inversion, solutions of non-linear algebraic equations, iterative methods for solving differential equations, numerical integration, regression and correlation analysis.
b	Data science & programming	4	Programming fundamentals, data structures and algorithms, Python programming with NumPy, pandas, matplotlib; Python conditional statements: if, if-else, if-elif-else; Loops, functions, modules, classes & objects in Python; machine learning concepts, supervised learning: regression, classification, unsupervised learning: clustering, dimensionality reduction, fundamentals of neural networks & deep learning, reinforcement learning.
c	Measurement Principles	5	Calibration and adjustment of instrument, measurement standards, measurement traceability, uncertainty in measurement, bias, repeatability, reproducibility, error, linearity, SI units, systematic and random errors in measurement, accuracy and precision, propagation of errors, linear and weighted regression, etc.
2	Part-C	70	Specific to the Engineering Discipline
		70	As per Part-C syllabus for specific disciplines given below.

**NOTIFICATION FOR RECRUITMENT TO POSTS OF
JUNIOR RESEARCH ENGINEER, RESEARCH ENGINEER**

Part-C: Engineering Discipline

(One of the following Disciplines as per Qualifying Degree)

1. Mechanical Engineering

Engineering Mechanics: Free-body diagrams and equilibrium; friction and its applications including rolling friction, belt-pulley, brakes, clutches, screw jack, wedge, vehicles, etc.; trusses and frames; virtual work; kinematics and dynamics of rigid bodies in plane motion; impulse and momentum (linear and angular) and energy formulations; Lagrange's equation.

Mechanics of Materials: Stress and strain, elastic constants, Poisson's ratio; Mohr's circle for plane stress and plane strain; thin cylinders; shear force and bending moment diagrams; bending and shear stresses; concept of shear centre; deflection of beams; torsion of circular shafts; Euler's theory of columns; energy methods; thermal stresses; strain gauges and rosettes; testing of materials with universal testing machine; testing of hardness and impact strength.

Theory of Machines: Displacement, velocity and acceleration analysis of plane mechanisms; dynamic analysis of linkages; cams; gears and gear trains; flywheels and governors; balancing of reciprocating and rotating masses; gyroscope.

Vibrations: Free and forced vibration of single degree of freedom systems, effect of damping; vibration isolation; resonance; critical speeds of shafts.

Machine Design: Design for static and dynamic loading; failure theories; fatigue strength and the S-N diagram; principles of the design of machine elements such as bolted, riveted and welded joints; shafts, gears, rolling and sliding contact bearings, brakes and clutches, springs.

Fluid Mechanics: Fluid properties; fluid statics, forces on submerged bodies, stability of floating bodies; control-volume analysis of mass, momentum and energy; fluid acceleration; differential equations of continuity and momentum; Bernoulli's equation; dimensional analysis; viscous flow of incompressible fluids, boundary layer, elementary turbulent flow, flow through pipes, head losses in pipes, bends and fittings; basics of compressible fluid flow.

Flow Measurement principles: Principles of design and working of flowmeters: Orifice, Venturi, electromagnetic flowmeter, rotameter, coriolis flowmeter, vortex flowmeter, etc.; Fundamental principle of operation of rotating component flowmeters: turbine flowmeter, positive displacement flowmeter, etc.

Metrology and Inspection: Limits, fits and tolerances; linear and angular measurements; comparators; interferometry; form and finish measurement; alignment and testing methods; tolerance analysis in manufacturing and assembly; concepts of coordinate-measuring machine (CMM).

Machining and Machine Tool Operations: Mechanics of machining; basic machine tools; single and multi-point cutting tools, tool geometry and materials, tool life and wear; economics of machining; principles of non-traditional machining processes; principles of work holding, jigs and fixtures; abrasive machining processes; NC/CNC machines and CNC programming.

Operations Research: Linear programming, simplex method, transportation, assignment, network flow models, simple queuing models, PERT and CPM.

Computer Integrated Manufacturing: Basic concepts of CAD/CAM and their integration tools; additive manufacturing.

Turbomachinery: Impulse and reaction principles, velocity diagrams, Pelton-wheel, Francis and Kaplan turbines; steam and gas turbines.

Heat-Transfer: Modes of heat transfer; one dimensional heat conduction, resistance concept and electrical analogy, heat transfer through fins; unsteady heat conduction, lumped parameter system, Heisler's charts; thermal boundary layer, dimensionless parameters in free and forced convective heat transfer, heat transfer correlations for flow over flat plates and through pipes, effect of turbulence; heat exchanger performance, radiative heat transfer, Stefan- Boltzmann law, Wien's displacement law, black and grey surfaces, view factors, etc.

**NOTIFICATION FOR RECRUITMENT TO POSTS OF
JUNIOR RESEARCH ENGINEER, RESEARCH ENGINEER**

Thermodynamics: Thermodynamic systems and processes; properties of pure substances, behavior of ideal and real gases; zeroth and first laws of thermodynamics, calculation of work and heat in various processes; second law of thermodynamics; thermodynamic property charts and tables, availability and irreversibility; thermodynamic relations.

Power Engineering: Air and gas compressors; vapour and gas power cycles, concepts of regeneration and reheat. *I.C. Engines*: Air-standard Otto, Diesel and dual cycles.

Refrigeration and air-conditioning: Vapour and gas refrigeration and heat pump cycles; properties of moist air, psychrometric chart, basic psychrometric processes.

Engineering Materials: Structure and properties of engineering materials, phase diagrams, heat treatment, stress-strain diagrams for engineering materials.

Casting, Forming and Joining Processes: Different types of castings, design of patterns, moulds and cores; solidification and cooling; riser and gating design. Plastic deformation and yield criteria; fundamentals of hot and cold working processes; load estimation for bulk (forging, rolling, extrusion, drawing) and sheet (shearing, deep drawing, bending) metal forming processes; principles of powder metallurgy. Principles of welding, brazing, soldering and adhesive bonding.

2. Instrumentation Engineering

Control Systems: Feedback principles, signal flow graphs, transient response, steady-state-errors, Bode plot, phase and gain margins, Routh and Nyquist criteria, root loci, design of lead, lag and lead-lag compensators, state-space representation of systems; time-delay systems; mechanical, hydraulic and pneumatic system components, synchro pair, servo and stepper motors, servo valves; on-off, P, PI, PID, cascade, feed forward, and ratio controllers, tuning of PID controllers and sizing of control valves.

Analog Electronics: Characteristics and applications of diode, Zener diode, BJT and MOSFET; small signal analysis of transistor circuits, feedback amplifiers. Characteristics of ideal and practical operational amplifiers; applications of OPAMPS: adder, subtractor, integrator, differentiator, difference amplifier, instrumentation amplifier, precision rectifier, active filters, oscillators, signal generators, voltage controlled oscillators and phase locked loop, sources and effects of noise and interference in electronic circuits.

Digital Electronics: Combinational logic circuits, minimization of Boolean functions. IC families: TTL and CMOS. Arithmetic circuits, comparators, Schmitt trigger, multi-vibrators, sequential circuits, flip-flops, shift registers, timers and counters; sample-and-hold circuit, multiplexer, analog-to-digital (successive approximation, integrating, flash and sigma-delta) and digital-to-analog converters (weighted R, R-2R ladder and current steering logic). Characteristics of ADC and DAC (resolution, quantization, significant bits, conversion/settling time); basics of number systems,

Embedded Systems: Microprocessor and microcontroller applications, memory and input-output interfacing; Internet of Things (IoT); basics of data acquisition systems, basics of distributed control systems (DCS) and programmable logic controllers (PLC).

Flow Measurement principles: Principles of design and working of flowmeters: Orifice, Venturi, electromagnetic flowmeter, rotameter, coriolis flowmeter, thermal mass-flowmeter, vortex flowmeter, etc.; Fundamental principle of operation of rotating component flowmeters: turbine flowmeter, positive displacement flowmeter, etc.

Measurements: Bridges: Wheatstone, Kelvin, Megohm, Maxwell, Anderson, Schering and Wien for measurement of R, L, C and frequency, Q-meter. Measurement of voltage, current and power in single and three phase circuits; ac and dc current probes; true rms meters, voltage and current scaling, instrument transformers, timer/counter, time, phase and frequency measurements, digital voltmeter, digital multimeter; oscilloscope, shielding and grounding.

Sensors and Industrial Instrumentation: Resistive-, capacitive-, inductive-, piezoelectric-, Hall effect sensors and associated signal conditioning circuits; transducers for industrial instrumentation:

**NOTIFICATION FOR RECRUITMENT TO POSTS OF
JUNIOR RESEARCH ENGINEER, RESEARCH ENGINEER**

displacement (linear and angular), velocity, acceleration, force, torque, vibration, shock, pressure (including low pressure), flow (variable head, variable area, electromagnetic, ultrasonic, turbine and open channel flow meters) temperature (thermocouple, bolometer, RTD (3 & 4 wire), thermistor, pyrometer and semiconductor); liquid level, pH, conductivity and viscosity measurement. 4-20 mA two-wire transmitter.

Communication and Optical Instrumentation: Amplitude- and frequency modulation and demodulation; Shannon's sampling theorem, pulse code modulation; frequency and time division multiplexing, amplitude-, phase-, frequency-, quadrature amplitude, pulse shift keying for digital modulation; optical sources and detectors: LED, laser, photo-diode, light dependent resistor, square law detectors and their characteristics; interferometer: applications in metrology; basics of fiber optic sensing. UV-VIS Spectrophotometers, Mass spectrometer.

Electric circuits and Network elements: ideal voltage and current sources, dependent sources, R, L, C, M elements; Network solution methods: KCL, KVL, Node and Mesh analysis; Network Theorems: Thevenin's, Norton's, Superposition and Maximum Power Transfer theorem;

Signals and Systems: Periodic, aperiodic and impulse signals; Laplace, Fourier and z-transforms; transfer function, frequency response of first and second order linear time invariant systems, impulse response of systems; convolution, correlation. Discrete time system: impulse response, frequency response, pulse transfer function; DFT and FFT; basics of IIR and FIR filters.

3. Electrical Engineering

Electric circuits and Network elements: ideal voltage and current sources, dependent sources, R, L, C, M elements; Network solution methods: KCL, KVL, Node and Mesh analysis; Network Theorems: Thevenin's, Norton's, Superposition and Maximum Power Transfer theorem;

Electricity and Magnetism: Coulomb's Law, Electric Field Intensity, Electric Flux Density, Gauss's Law, Divergence, Electric field and potential due to point, line, plane and spherical charge distributions, Effect of dielectric medium, Capacitance of simple configurations, Biot-Savart's law, Ampere's law, Curl, Faraday's law, Lorentz force, Inductance, Magneto-motive force, Reluctance, Magnetic circuits, Self and Mutual inductance of simple configurations.

Electrical Machines: Single phase transformer: equivalent circuit, phasor diagram, open circuit and short circuit tests, regulation and efficiency; Three-phase transformers: connections, vector groups, parallel operation; Auto-transformer, Electromechanical energy conversion principles; DC machines: separately excited, series and shunt, motoring and generating mode of operation and their characteristics, speed control of dc motors; Three-phase induction machines: principle of operation, types, performance, torque-speed characteristics, no-load and blocked-rotor tests, equivalent circuit, starting and speed control; Operating principle of single-phase induction motors; Synchronous machines: cylindrical and salient pole machines, performance and characteristics, regulation and parallel operation of generators, starting of synchronous motors; Types of losses and efficiency calculations of electric machines

Measurements: Bridges: Wheatstone, Kelvin, Megohm, Maxwell, Anderson, Schering and Wien for measurement of R, L, C and frequency, Q-meter. Measurement of voltage, current and power in single and three phase circuits; ac and dc current probes; true rms meters, voltage and current scaling, instrument transformers, timer/counter, time, phase and frequency measurements, digital voltmeter, digital multimeter; oscilloscope, shielding and grounding.

Analog and Digital Electronics: Simple diode circuits: clipping, clamping, rectifiers; Amplifiers: biasing, equivalent circuit and frequency response; oscillators and feedback amplifiers; operational amplifiers: characteristics and applications; single stage active filters, Active Filters: Sallen Key, Butterworth, VCOs and timers, combinatorial and sequential logic circuits, multiplexers, demultiplexers, Schmitt triggers, sample and hold circuits, A/D and D/A converters, Microprocessor and microcontroller applications,

**NOTIFICATION FOR RECRUITMENT TO POSTS OF
JUNIOR RESEARCH ENGINEER, RESEARCH ENGINEER**

memory and input-output interfacing; pulse / frequency outputs using counters, flip flops, counters, PWM; Internet of Things (IoT).

Signals and Systems: Representation of continuous and discrete time signals, shifting and scaling properties, linear time invariant and causal systems, Fourier series representation of continuous and discrete time periodic signals, sampling theorem, Applications of Fourier Transform for continuous and discrete time signals, Laplace Transform and Z transform. R.M.S. value, average value calculation for any general periodic waveform

Power Systems: Basic concepts of electrical power generation, ac and dc transmission concepts, Models and performance of transmission lines and cables, Economic Load Dispatch (with and without considering transmission losses), Series and shunt compensation, Electric field distribution and insulators, Distribution systems, Per-unit quantities, Bus admittance matrix, Gauss-Seidel and Newton-Raphson load flow methods, Voltage and Frequency control, Power factor correction, Symmetrical components, Symmetrical and unsymmetrical fault analysis, Principles of over-current, differential, directional and distance protection; Circuit breakers, System stability concepts, Equal area criterion.

Control Systems: Mathematical modelling and representation of systems, Feedback principle, transfer function, Block diagrams and Signal flow graphs, Transient and Steady-state analysis of linear time invariant systems, Stability analysis using Routh-Hurwitz and Nyquist criteria, Bode plots, Root loci, Lag, Lead and Lead-Lag compensators; P, PI and PID controllers; State space model, Solution of state equations of LTI systems

Power Electronics: Static V-I characteristics and firing/gating circuits for Thyristor, MOSFET, IGBT; DC to DC conversion: Buck, Boost and Buck-Boost Converters; Single and three-phase configuration of uncontrolled rectifiers; Voltage and Current commutated Thyristor based converters; Bidirectional ac to dc voltage source converters; Magnitude and Phase of line current harmonics for uncontrolled and thyristor based converters; Power factor and Distortion Factor of ac to dc converters; Single-phase and three-phase voltage and current source inverters, sinusoidal pulse width modulation.

4. Civil Engineering

Engineering Mechanics: System of forces, free-body diagrams, equilibrium equations; Internal forces in structures; Frictions and its applications; Centre of mass; Free Vibrations of undamped SDOF system.

Solid Mechanics: Bending moment and shear force in statically determinate beams; Simple stress and strain relationships; Simple bending theory, flexural and shear stresses, shear centre; Uniform torsion, Transformation of stress; buckling of column, combined and direct bending stresses.

Structural Analysis: Statically determinate and indeterminate structures by force/ energy methods; Method of superposition; Analysis of trusses, arches, beams, cables and frames; Displacement methods: Slope deflection and moment distribution methods; Influence lines; Stiffness and flexibility methods of structural analysis.

Fluid Mechanics: Properties of fluids, fluid statics; Continuity, momentum and energy equations and their applications; Potential flow, Laminar and turbulent flow; Flow in pipes, pipe networks; Concept of boundary layer and its growth; Concept of lift and drag.

Hydraulics and flow measurement: Forces on immersed bodies; Flow measurement in channels and pipes; Dimensional analysis and hydraulic similitude; Channel Hydraulics - Energy-depth relationships, specific energy, critical flow, hydraulic jump, uniform flow, gradually varied flow and water surface profiles. Principles of design and working of differential pressure based flowmeters: Orifice, Venturi; velocity-area approach for flow measurement; effect of velocity profile distortions on flow measurement;

Construction Materials and Management: Construction Materials: Structural Steel – Composition, material properties and behaviour; Concrete - Constituents, mix design, short-term and long-term properties. Construction Management: Types of construction projects; Project planning and network analysis - PERT and CPM; Cost estimation.

**NOTIFICATION FOR RECRUITMENT TO POSTS OF
JUNIOR RESEARCH ENGINEER, RESEARCH ENGINEER**

Concrete Structures: Working stress and Limit state design concepts; Design of beams, slabs, columns; Bond and development length; Pre-stressed concrete beams.

Steel Structures: Working stress and Limit state design concepts; Design of tension and compression members, beams and beam- columns, column bases; Connections - simple and eccentric, beam-column connections, plate girders and trusses; Concept of plastic analysis -beams and frames.

Soil Mechanics: Three-phase system and phase relationships, index properties; Unified and Indian standard soil classification system; Permeability - one dimensional flow, Seepage through soils – two - dimensional flow, flow nets, uplift pressure, piping, capillarity, seepage force; Principle of effective stress and quicksand condition; Compaction of soils; One- dimensional consolidation, time rate of consolidation; Shear Strength, Mohr's circle, effective and total shear strength parameters, Stress-Strain characteristics of clays and sand; Stress paths.

Foundation Engineering: Sub-surface investigations - Drilling bore holes, sampling, plate load test, standard penetration and cone penetration tests; Earth pressure theories - Rankine and Coulomb; Stability of slopes – Finite and infinite slopes, Bishop's method; Stress distribution in soils – Boussinesq's theory; Pressure bulbs, Shallow foundations – Terzaghi's and Meyerhoff's bearing capacity theories, effect of water table; Combined footing and raft foundation; Contact pressure; Settlement analysis in sands and clays; Deep foundations – dynamic and static formulae, Axial load capacity of piles in sands and clays, pile load test, pile under lateral loading, pile group efficiency, negative skin friction.

Hydrology: Hydrologic cycle, precipitation, evaporation, evapo-transpiration, watershed, infiltration, unit hydrographs, hydrograph analysis, reservoir capacity, flood estimation and routing, surface run-off models, ground water hydrology - steady state well hydraulics and aquifers; Application of Darcy's Law. Principles of surveying: Errors and their adjustment; Maps - scale, coordinate system; Distance and angle measurement - Levelling and trigonometric levelling; Traversing and triangulation survey; Total station; Horizontal and vertical curves.

Photogrammetry and Remote Sensing: Scale, flying height; Basics of remote sensing and GIS.

**NOTIFICATION FOR RECRUITMENT TO POSTS OF
JUNIOR RESEARCH ENGINEER, RESEARCH ENGINEER**

ANNEXURE-B

**Proforma for Experience Certificate from Employer for candidates applying to the Post of
Research Engineers at FCRI.**

EXPERIENCE CERTIFICATE

This is to certify that Mr./ Ms./ Dr. S/O / D/O Mr./ Ms./ is at present working as(Designation) at our organisation(Name & location) from to

Certified that Mr./ Ms./ Dr. was actively engaged in the below research / design & testing activities during last three/five[#] years at our organisation is provided herein.
#strike out whichever not applicable

Sl. No.	Designation	From	To	Nature of project or activity*	Specific role of candidate in the project

**attach additional sheet giving executive summary of the specific experience of the candidate*

It is also certified that he/she was reporting to Mr./ Ms./ Dr.,(Designation), of section/department during the above period, whose reference is given below: Email ID: Mobile/Phone.....

The details of publications generated through the research work at our organisation in which the candidate played an active role and is co-author are as below:

Sl. No.	Title of Research Paper	Names of Authors	Name of Journal	DOI identifier to the journal paper	Date of Publication

Details of Conference Papers presented

Sl. No.	Title of Conference Paper	Names of Authors	Name of Conference & Date	Organiser of Conference

We certify that the information provided here is true and provides accurate description of nature of primary duties assigned to the employee during the period.

Name & Signature of Authorised Authority
to issue the certificate with Office Seal

Date
Place

**NOTIFICATION FOR RECRUITMENT TO POSTS OF
JUNIOR RESEARCH ENGINEER, RESEARCH ENGINEER**

ANNEXURE-C1 [FORM-SC/ST]

FORM OF CASTE CERTIFICATE FOR SC/ST

This is to certify that Shri*/Shrimati/Kumari _____ Son/Daughter
of _____ Village/Town _____ District/Division*
_____ of the _____ State/Union Territory belongs to
the _____ Caste*/Tribe which is recognised as a Scheduled Caste/Tribe under:

*The Constitution Scheduled Castes Order, 1950.

*The Constitution Scheduled Tribes Order, 1950.

*The Constitution (Scheduled Castes) (Union Territories) (Part C States) Order, 1951;

*The Constitution (Scheduled Tribes) (Union Territories) (Part C States) Order, 1951;

[As amended by the Scheduled Castes and Scheduled Tribes List (Modification Order, 1956, the Bombay Reorganisation Act, 1960, the Punjab Reorganisation Act, 1966, the State of Himachal Pradesh Act, 1970, the North Eastern Areas (Reorganisation) Act, 1971 and the Scheduled Castes and Scheduled Tribes Orders (Amendment) Act, 1976.]

The Constitution (Jammu and Kashmir) Scheduled Castes Orders, 1956.

*The Constitution (Andaman and Nicobar Islands)

* Scheduled Tribes Order, 1959, as amended by the Scheduled Castes and Scheduled Tribes Orders (Amendment) Act, 1976

The Constitution (Dadra and Nagar Haveli) Scheduled Castes Order, 1962.

The Constitution (Dadra and Nagar Haveli) Scheduled Tribes Order, 1962.

*The Constitution (Pondicherry) Scheduled Castes Order, 1964.

*The Constitution (Uttar Pradesh) Scheduled Tribes Order, 1967.

*The Constitution (Goa, Daman and Diu) Scheduled Castes Order, 1968.

*The Constitution (Goa, Daman and Diu) Scheduled Tribes Order, 1968.

*The Constitution (Nagaland) Scheduled Tribes Order, 1970.

*The Constitution (Sikkim) Scheduled Castes Order, 1978

*The Constitution (Sikkim) Scheduled Tribes Order, 1978

*The Constitution (Jammu & Kashmir) Scheduled Tribes Order, 1989.

*The Constitution (SC) Orders (Amendment) Act, 1990.

*The Constitution (ST) Orders (Amendment) Ordinance Act, 1991.

*The Constitution (ST) Orders (Amendment) Ordinance Act, 1996.

*The Constitution (Scheduled Castes) Orders (Amendment) Act, 2002.

*The Constitution (Scheduled Castes) Orders (Second Amendment) Act, 2002.

*The Scheduled Castes and Scheduled Tribes Orders (Amendment) Act, 2002.

2. Applicable in the case of Scheduled Castes/Scheduled Tribes persons who have migrated from one State/Union Territory Administration.

This certificate is issued on the basis of the Scheduled Castes/Scheduled Tribes Certificate issued to Shri/Shrimati* _____ father/mother* _____ of Shri/Shrimati/Kumari _____ of Village/Town* _____ in /District/Division* _____ of the State/Union Territory* _____ who belongs to the _____ Caste*/Tribe which is recognised as a Scheduled Caste/Scheduled Tribe in the State/Union Territory* issued by the _____ dated _____.

3. Shri/Shrimati/Kumari* and /or* his/her* family ordinarily reside(s) in Village/Town* _____ District/Division* of the State/Union Territory * of _____.

Place _____

Signature _____

Date _____

Designation _____

(with seal of Office)

State/Union Territory _____

* Please delete the words, which are not applicable.

@ Please quote specific Presidential Order

% Delete the Paragraph, which is not applicable

Note : (a) The term 'ordinarily reside'(s) used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950.

The following Officers are authorised to issue caste certificates :

1. District Magistrate/ Additional District Magistrate/ Collector/ Deputy Commissioner/ Additional Deputy Commissioner/ Deputy Collector/ 1st Class Stipendary Magistrate/ Sub Divisional Magistrate/ Taluka Magistrate/ Executive Magistrate/ Extra Assistant Commissioner.

**NOTIFICATION FOR RECRUITMENT TO POSTS OF
JUNIOR RESEARCH ENGINEER, RESEARCH ENGINEER**

2. Chief Presidency Magistrate/Additional Chief Presidency Magistrate/Presidency Magistrate.
 3. Revenue Officer not below the rank of Tehsildar.
 4. Sub-Divisional Officer of the area where the candidate and/or his family normally resides.
 5. Certificates issued by Gazetted Officers of the Central or of a State Government countersigned by the District Magistrate concerned.
 6. Administrator/Secretary to Administrator (Laccadive, Minicoy and Amindivi Islands).
 7. ST candidates belonging to Tamil Nadu state should submit caste certificate ONLY FROM THE REVENUE DIVISIONAL OFFICER.
-

**NOTIFICATION FOR RECRUITMENT TO POSTS OF
JUNIOR RESEARCH ENGINEER, RESEARCH ENGINEER**

ANNEXURE-C2 [FORM-OBC]

**FORM OF CERTIFICATE TO BE PRODUCED BY
OTHER BACKWARD CLASSES (NCL) FOR APPLYING TO
GOVERNMENT OF INDIA**

This is to certify that Shri/Smt./Kum* _____ Son/ Daughter* of Shri/Smt.*
_____ of _____ Village/ _____ Town*
District/Division* _____
_____ in _____ the _____ State/ _____ Union _____ Territory
belongs to the _____ community that is recognized as a backward class
under Government of India**, Ministry of Social Justice and Empowerment's Resolution
No. _____ dated _____ ***

Shri/Smt./Kum _____ and/or his/her family ordinarily reside(s) in the
District/Division _____ of the _____ State/Union Territory. This
is also to **certify that he/she does NOT belong to the persons/sections (Creamy Layer)** mentioned in
Column 3 of the Schedule to the Government of India, Department of Personnel & Training O.M. No.
36012/22/93- Estt. (SCT) dated 08/09/93 which is modified vide OM No. 36033/3/2004 Estt.(Res.) dated
09/03/2004, further modified vide OM No. 36033/3/2004-Estt. (Res.) dated 14/10/2008, and OM
No.36036/2/2013-Estt (Res) dtd. 30/05/2014.

District Magistrate / Deputy Commissioner
/ Any other Competent Authority

Dated: _____

Seal

* **Please delete the word(s) which are not applicable.**

** **As listed in the Annexure (for FORM-OBC-NCL)**

*** **The authority issuing the certificate needs to mention the details of Resolution
of Government of India, in which the caste of the candidate is mentioned as
OBC.**

NOTE:

(a) The term 'Ordinarily resides' used here will have the same meaning as in Section
20 of the Representation of the People Act, 1950.

(b) The authorities competent to issue Caste Certificates are indicated below:

(i) District Magistrate/ Additional Magistrate/ Collector/ Deputy Commissioner/ Additional
Deputy Commissioner/ Deputy Collector/ Ist Class Stipendiary Magistrate/ Sub-
Divisional magistrate/ Taluka Magistrate/ Executive Magistrate/ Extra Assistant
Commissioner (not below the rank of Ist Class Stipendiary Magistrate).

(ii) Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency
Magistrate. (iii) Revenue Officer not below the rank of Tehsildar' and

(iv) Sub-Divisional Officer of the area where the candidate and/or his family resides

**NOTIFICATION FOR RECRUITMENT TO POSTS OF
JUNIOR RESEARCH ENGINEER, RESEARCH ENGINEER**

ANNEXURE-C3 [FORM-GEN-EWS]

Government of
(Name & Address of the authority issuing the certificate)

**INCOME & ASSET CERTIFICATE TO BE PRODUCED BY ECONOMICALLY
WEAKER SECTIONS**

Certificate No. _____ Date: _____

VALID FOR THE YEAR 2026

1. This is to certify that Shri/Smt./Kumari _____ son/daughter/wife of _____, a permanent resident of _____ Village/Street _____ Post Office _____ District _____ in the State/Union Territory _____ Pin Code _____ whose photograph in attested below belongs to Economically Weaker Sections, since the gross annual income* of his/her “**family**”*** is below Rs. 8 lakh (Rupees Eight Lakh only) for the financial year _____. His/her family does not own or possess any of the following assets***:
- I. 5 acres of agricultural land and above;
 - II. Residential flat of 1000 sq. ft. and above;
 - III. Residential plot of 100 sq. yards and above in notified municipalities;
 - IV. Residential plot of 200 sq. yards and above in areas other than the notified municipalities.
2. Shri/Smt./Kumari _____ belongs to the _____ caste which is not recognized as a Schedule Caste, Schedule Tribe and Other Backward Classes (Central List).

Signature with seal of Officer

Name

Designation

Recent Passport size
attested photograph of
the applicant

The income and assets of the families as mentioned would be required to be certified by an officer not below the rank of Tehsildar in the States/UTs.

*** Note1:** Income covered all sources i.e. salary, agricultural, business, profession, etc.

**** Note2:** The term “**Family**” for this purpose include the person, who seeks benefit of reservation, his/her parents are siblings below the age of 18 years as also his/her spouse and children below the age of 18 years.

***** Note3:** The property held by a “**Family**” in different locations or different places/cities have been clubbed while applying the land or property holding test to determine EWS status.