



भारत सरकार,  
कार्मिक, लोक शिकायत तथा पेंशन मंत्रालय,  
कार्मिक एवं प्रशिक्षण विभाग,  
कर्मचारी चयन आयोग,  
ब्लॉक सं-12, केन्द्रीय कार्यालय परिसर,  
लोधी रोड, नई दिल्ली-110003.

Government of India,  
Ministry of Personnel, Public Grievances &  
Pensions,  
Department of Personnel and Training,  
Staff Selection Commission,  
Block No. 12, CGO Complex, Lodhi Road,  
New Delhi - 110003.

(To be uploaded on the website of the Commission (<https://ssc.nic.in>) on 12.08.2022)

## Notice

### **JUNIOR ENGINEER (CIVIL, MECHANICAL, ELECTRICAL AND QUANTITY SURVEYING & CONTRACTS) EXAMINATION, 2022**

Dates for submission of online applications	12.08.2022 to 02.09.2022
Last date and time for receipt of online applications	02.09.2022 (2300 hours)
Last date and time for generation of offline Challan	02.09.2022 (2300 hours)
Last date and time for making online fee payment	03.09.2022 (2300 hours)
Last date for payment through Challan (during working hours of Bank)	03.09.2022
Date of 'Window for Application Form Correction' and online payment of Correction Charges.	04.09.2022 (2300 hours)
Schedule of Computer Based Examination	November, 2022
Schedule of Paper-II (conventional)	To be notified later

**“GOVERNMENT STRIVES TO HAVE A WORKFORCE WHICH REFLECTS GENDER BALANCE AND WOMAN CANDIDATES ARE ENCOURAGED TO APPLY”**

**HQ-PPII03(2)/2/2022-PP II:** Staff Selection Commission will hold an open competitive Examination for recruitment of Junior Engineers (Civil, Mechanical, Electrical and Quantity Surveying & Contracts) for various Ministries/Departments/Organizations in the Government of India. The posts are Group 'B' (Non-Gazetted), in Level-6 (Rs 35400-112400/-) of pay matrix of 7<sup>th</sup> Central Pay Commission.

2. **Details of Posts:** Following are the likely posts that will be filled up through this examination:

S. No.	Organization	Post
1	Border Roads Organization (BRO)	Junior Engineer (Civil)
		Junior Engineer (Electrical & Mechanical)
2	Central Public Works Department (CPWD)	Junior Engineer (Civil)
		Junior Engineer (Electrical)
3	Central Water and Power Research Station	Junior Engineer (Civil)
		Junior Engineer (Electrical)
		Junior Engineer (Mechanical)

4	Central Water Commission	Junior Engineer (Civil)
		Junior Engineer (Mechanical)
5	Directorate of Quality Assurance (Naval)	Junior Engineer (Mechanical)
		Junior Engineer (Electrical)
6	Farakka Barrage Project (FBP)	Junior Engineer (Civil)
		Junior Engineer (Electrical)
		Junior Engineer (Mechanical)
7	Military Engineer Services (MES)	Junior Engineer (Civil)
		Junior Engineer (Electrical & Mechanical)
8	National Technical Research Organization (NTRO)	Junior Engineer (Civil)
		Junior Engineer (Electrical)
		Junior Engineer (Mechanical)
9	Ministry of Ports, Shipping & Waterways (Andaman Lakshadweep Harbour Works)	Junior Engineer (Civil)
		Junior Engineer (Electrical)
		Junior Engineer (Mechanical)

3. **Vacancies:** Vacancies will be determined in due course. Updated vacancy position will be uploaded on the website of the Commission (<https://ssc.nic.in> >Candidate's Corner > Tentative Vacancy).

4. **Reservation and suitability of posts for Persons with Disabilities:**

4.1 Reservation for Scheduled Castes (SC)/Scheduled Tribes (ST)/Other Backward Classes (OBC)/Economically Weaker Sections (EWS) and Persons with Disabilities (PwD), etc would be as determined and communicated by the Indenting Ministries/Departments/Organizations, as per extant Government Orders.

4.2 The Commission makes selection of candidates pursuant to the vacancies reported by the concerned User Departments / Organizations for various posts. The Commission does not have any role in deciding the number of vacancies of any User Department / Organization. Implementation of reservation policy, maintaining reservation roster and earmarking of vacancies for different categories comes under the domain of the User Departments / Organizations.

4.3 Junior Engineer being a Group 'B' post, there is no reservation for Ex-Servicemen (ESM) category. The guidelines / rules relating to reservation for ESM category included in this Notice have to be read in the light of this stipulation. However, benefit of age-relaxation will be admissible to ESM candidates, as per extant Government Orders.

5. **Permissible disabilities for PwD candidates:**

5.1 The posts are not identified suitable for VH persons.

5.2 Except for the Border Roads Organization (BRO), the post of Junior Engineer (Civil) have been identified suitable for following disabilities, which is as per Notification No. 38-16/2020-DDIII dated 04.01.2021 issued by Department of Empowerment of Persons with Disabilities (Divyangjan), M/o Social Justice and Empowerment:

Name of Post	Functional	Suitable	Category	of	Benchmark
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	Requirement	Disability
Junior Engineer (Civil)	S, ST, W, BN, L, KC, MF, RW, SE, H, C	a) D, HH b) OA, OL, CP, LC, Dw, AAV c) SLD, MI d) MD involving (a) to (c) above

Abbreviation used:

FUNCTIONAL REQUIREMENT: S=Sitting, ST=Standing, W=Walking, BN=Bending, L=Lifting, KC=Kneeling & Crouching, MF=Manipulation with Fingers, RW=Reading & Writing, SE=Seeing, H=Hearing, C=Communication.

NATURE OF PHYSICAL DISABILITIES: D=Deaf, HH= Hard of Hearing, OA=One Arm, OL=One Leg, CP=Cerebral Palsy, LC=Leprosy Cured, Dw=Dwarfism, AAV=Acid Attack Victims, SLD= Specific Learning Disability, MI= Mental Illness, MD=Multiple Disabilities.

**Note:- The suitability of posts for Persons with Benchmark Disability (PwBD) indicated in the table above shall be subject to exemption, if any, obtained by indenting Ministry/Department/Organization.**

5.3 Those PwD candidates who are applying for the post of Junior Engineer (Electrical) and Junior Engineer (Mechanical) may note that the 'Rights of Persons with Disabilities Act, 2016' has come into force with effect from 19.04.2017 and new categories of disabilities such as Autism, Dwarfism, Acid Attack victims, Muscular Dystrophy, Intellectual Disability, Specific Learning Disability, Mental Illness and Multiple Disabilities, etc have been included in the list of disabilities eligible for reservation. Therefore, the candidates with such disabilities may also apply giving details of their disabilities in the online Application Form. However, their selection will be subject to identification of posts suitable for these categories as well as reporting of vacancies by the Indenting Ministries/Departments.

5.4 Requirement of Physical Standard, Physical Efficiency Tests and Medical Standards for the posts of Junior Engineers in BRO is available at **Annexure-XV**. Candidates may ensure that they fulfill all the required standards before opting for the post of Junior Engineers in BRO. Posts once allocated as per merit-cum-preference given by the candidates will not be changed subsequently due to failure of the candidates to qualify in these Standards.

5.5 **Only male candidates are eligible for the posts of Junior Engineers in the Border Roads Organization (BRO).**

6. **Nationality/Citizenship:**

6.1 A candidate must be either:

- (a) a citizen of India, or
- (b) a subject of Nepal, or
- (c) a subject of Bhutan, or
- (d) a Tibetan refugee who came over to India before the 1<sup>st</sup> January 1962 with the intention of permanently settling in India, or
- (e) a person of Indian origin who has migrated from Pakistan, Burma, Sri Lanka, East African countries of Kenya, Uganda, the

United Republic of Tanzania (formerly Tanganyika and Zanzibar), Zambia, Malawi, Zaire, Ethiopia and Vietnam with the intention of permanently setting in India.

6.2 Provided that a candidate belonging to categories (b), (c), (d) and (e) above shall be a person in whose favour a certificate of eligibility has been issued by the Government of India.

6.3 A candidate in whose case a certificate of eligibility is necessary may be admitted to the examination but the offer of appointment will be given only after the necessary eligibility certificate has been issued to him/her by the Government of India.

**7. Age Limit as on 01.01.2022:**

7.1 Age limit for the various posts of Junior Engineers in various Ministries/Departments/Organizations as on **01.01.2022** is as under:

<b>S. No.</b>	<b>Organization</b>	<b>Post</b>	<b>Age limit</b>
1	Border Roads Organization	Junior Engineer (Civil)	Up to 30 years
		Junior Engineer (Electrical & Mechanical)	Up to 30 years
2	Central Public Works Department (CPWD)	Junior Engineer (Civil)	Up to 32 years
		Junior Engineer (Electrical)	Up to 32 years
3	Central Water and Power Research Station	Junior Engineer (Civil)	Up to 30 years
		Junior Engineer (Electrical)	Up to 30 years
		Junior Engineer (Mechanical)	Up to 30 years
4	Central Water Commission	Junior Engineer (Civil)	Up to 32 years
		Junior Engineer (Mechanical)	Up to 32 years
5	Directorate of Quality Assurance (Naval)	Junior Engineer (Mechanical)	Up to 30 years
		Junior Engineer (Electrical)	Up to 30 years
6	Farakka Barrage Project (FBP)	Junior Engineer (Civil)	Up to 30 years
		Junior Engineer (Electrical)	Up to 30 years
		Junior Engineer (Mechanical)	Up to 30 years
7	Military Engineer Services (MES)	Junior Engineer (Civil)	Up to 30 years
		Junior Engineer (Electrical and Mechanical)	Up to 30 years
8	National Technical Research Organization (NTRO)	Junior Engineer (Civil)	Up to 30 years
		Junior Engineer (Electrical)	Up to 30 years

		Junior Engineer (Mechanical)	Up to 30 years
9	Ministry of Ports, Shipping & Waterways (Andaman Lakshadweep Harbour Works)	Junior Engineer (Civil)	Up to 30 years
		Junior Engineer (Electrical)	Up to 30 years
		Junior Engineer (Mechanical)	Up to 30 years

7.2 Permissible relaxation in upper age limit prescribed under **para 7.1** above are as follows:

Code	Category	Age-relaxation permissible beyond the upper age limit
01	SC/ST	5 years
02	OBC	3 years
03	PwD (Unreserved)	10 years
04	PwD (OBC)	13 years
05	PwD (SC/ST)	15 years
06	Ex-Servicemen (ESM)	3 years after deduction of the military service rendered from the actual age.
08	Defence Personnel disabled in operation during hostilities with any foreign country or in a disturbed area and released as a consequence thereof.	3 years
09	Defence Personnel disabled in operation during hostilities with any foreign country or in a disturbed area and released as a consequence thereof (SC/ST).	8 years

7.3 Date of Birth filled by the candidate in the online application form and the same recorded in the Matriculation/Secondary Examination Certificate will be accepted by the Commission for determining the age and no subsequent request for change will be considered or granted.

7.4 Ex-Servicemen (ESM) who have already secured employment in civil side under Central Government in Group 'C' & 'D' posts on regular basis after availing of the benefits of reservation given to ESM for their re-employment are not eligible for reservation in ESM category and fee concession. However, he/she can avail of the benefit of reservation as ex-serviceman for subsequent employment if he/she immediately after joining civil employment, gives self-declaration/undertaking to the concerned employer about the date-wise details of applications for various vacancies for which he/she had applied for before joining the initial civil employment as mentioned in the OM No. 36034/1/2014-Estt (Res) dated 14<sup>th</sup> August 2014 issued by DoP&T.

7.5 The period of "Call up Service" of an Ex-Serviceman in the Armed Forces shall also be treated as service rendered in the Armed Forces for purpose of age relaxation, as per rules.

7.6 For any serviceman of the three Armed Forces of the Union to be treated as Ex-Serviceman for the purpose of securing the benefits of reservation, he/she must have already acquired, at the relevant time of submitting his application for the Post/Service the status of Ex-Servicemen otherwise than by way of 'dismissal or discharge on account of misconduct or inefficiency' or be in a position to establish his acquired entitlement by documentary evidence from the competent authority that he/she would complete specified term of engagement from the Armed Forces within the stipulated period of one year from the closing date for receipt of applications. Such candidates must also acquire the status of an Ex-Serviceman within the stipulated period of one year from the closing date of receipt of applications.

7.7 **Explanation: An Ex-Serviceman means a person:**

- (i) who has served in any rank whether as a combatant or noncombatant in the Regular Army, Navy and Air Force of the Indian Union, and
  - (a) who either has been retired or relieved or discharged from such service whether at his own request or being relieved by the employer after earning his or her pension,  
or
  - (b) who has been relieved from such service on medical grounds attributable to military service or circumstances beyond his control and awarded medical or other disability pension:  
or
  - (c) who has been released from such service as a result of reduction in establishment.  
or
- (ii) Who has been released from such service after completing the specific period of engagement, otherwise than at his own request, or by way of dismissal, or discharge on account of misconduct or inefficiency and has been given a gratuity, and includes personnel of the Territorial Army, namely pension holders for continuous embodied service or broken spells of qualifying service.  
or
- (iii) Personnel of the Army Postal Service who are part of Regular Army and retired from the Army Postal Service without reversion to their parent service with pension, or are released from the Army Postal Service on medical grounds attributable to or aggravated by military service or circumstances beyond their control and awarded medical or other disability pension.  
or
- (iv) Personnel, who were on deputation in Army Postal Service for more than six months prior to the 14<sup>th</sup> April, 1987.  
or
- (v) Gallantry award winners of the Armed forces including personnel of Territorial Army.  
or
- (vi) Ex-recruits boarded out or relieved on medical ground and granted

medical disability pension.

- 7.8 Age relaxation is not admissible to sons, daughters and dependents of Ex-Servicemen. Therefore, such candidates should not indicate their category as Ex-Servicemen.

**8 Process of certification and format of certificates:**

- 8.1 Candidates who wish to be considered against reserved vacancies or seek age-relaxation must submit requisite certificate from the competent authority, in the prescribed format when such certificates are sought by concerned Indenting Departments/Organizations at the time of document verification. Otherwise, their claim for SC/ST/OBC/EWS/PwD/ESM etc. will not be entertained and their candidature will be cancelled. The formats of the certificates are **annexed**. Certificates in any other format are liable to be rejected.
- 8.2 A person seeking appointment on the basis of reservation to OBCs must ensure that he/she possesses the caste/community certificate and does not fall in creamy layer on the crucial date. The crucial date for this purpose will be the closing date for receipt of applications.
- 8.3 Candidates may also note that their candidature will remain provisional until the veracity of the certificates/documents relating to the Educational Qualifications, Caste/Category, etc. is verified and found satisfactory by the Appointing Authority. Candidates are cautioned that they will be debarred from the examinations conducted by the Commission in case they fraudulently claim the status of SC/ST/OBC/EWS/PwD/ESM.
- 8.4 Crucial date for claim of SC/ST/OBC/EWS/PwD, etc. status or any other benefit, *viz.*, fee concession, reservation, age-relaxation, etc, where not specified otherwise, will be the closing date for receipt of online applications.

**9. Essential Educational Qualifications/Experience (as on 02.09.2022):**

- 9.1 Essential Educational Qualification and experience, etc required for the various posts are as follows:

<b>S. No.</b>	<b>Post</b>	<b>Educational and Other Qualification</b>
1	Junior Engineer (Civil), Border Roads Organization, Ministry of Defence.	Degree in Civil Engineering from a recognized University/Institute or (a) Three years Diploma in Civil Engineering from a recognized University/ Institute/ Board; and (b) Two years working experience in Planning/ Execution/ Maintenance of Civil Engineering works.
2	Junior Engineer (Electrical & Mechanical), Border Roads Organization, Ministry of Defence.	Degree in Electrical or Mechanical Engineering from a recognized University/ Institute; or (a) Three years Diploma in Electrical/ Automobile/ Mechanical Engineering from a recognized University/ Institute/ Board; and (b) Two years' experience in Planning/

		Execution/ Maintenance of Electrical or Mechanical Engineering works.
3	Junior Engineer (Civil), CPWD	Diploma in Civil Engineering from a recognized University or Institute.
4	Junior Engineer (Electrical), CPWD	Diploma in Electrical or Mechanical Engineering from a recognized University or Institute.
5	Junior Engineer (Civil), Central Water Power Research Station.	Diploma in Civil Engineering from a recognized Institute.
6	Junior Engineer (Electrical), Central Water Power Research Station.	Diploma in Electrical Engineering from a recognized Institute.
7	Junior Engineer (Mechanical), Central Water Power Research Station.	Diploma in Mechanical Engineering from a recognized Institute.
8	Junior Engineer (Civil), Central Water Commission.	Degree or Diploma in Civil Engineering from a recognized University or Institution.
9	Junior Engineer (Mechanical), Central Water Commission.	Degree or Diploma in Mechanical Engineering from a recognized University or Institution.
10	Junior Engineer (Mechanical), Directorate of Quality Assurance, (Naval).	Degree in Mechanical Engineering from a recognized Institute; or (a) Three years Diploma in Mechanical Engineering from a recognized University or Institution plus (b) Two years' experience in the respective field.
11	Junior Engineer (Electrical), Directorate of Quality Assurance, (Naval).	Degree in Electrical Engineering from a recognized University; or (a) Three years Diploma in Electrical Engineering from a recognized University or Institution plus (b) Two years' experience in the respective field.
12	Junior Engineer (Civil), Farakka Barrage Project.	Diploma in Civil Engineering from a recognized University or Institute or Board.
13	Junior Engineer(Electrical), Farakka Barrage Project.	Diploma in Electrical Engineering from a recognized University or Institute or Board.
14	Junior Engineer (Mechanical), Farakka Barrage Project.	Diploma in Mechanical Engineering from a recognized University or Institute or Board.
15	Junior Engineer (Civil), Military Engineer Services (MES)	Degree in Civil Engineering from a recognized University or (a) Three years Diploma in Civil Engineering from a recognized Institute or University or Board; and (b) Two years' experience in Planning, Execution and Maintenance of Civil Engineering works.



16	Junior Engineer (Electrical & Mechanical),  Military Engineer Services (MES)	Degree in Electrical or Mechanical Engineering from a recognized University; or (a) Three years diploma in Electrical or Mechanical Engineering from a recognized Institute or University or Board; and (b) Two years' experience in Planning, Execution and Maintenance of Electrical or Mechanical Engineering works.
17	Junior Engineer (Civil), National Technical Research Organization.	Diploma in Civil Engineering from a recognized University/Institution.
18	Junior Engineer (Electrical), National Technical Research Organization.	Diploma in Electrical Engineering from a recognized University/Institution.
19	Junior Engineer(Mechanical) National Technical Research Organization.	Diploma in Mechanical Engineering from a recognized University/Institution
20	Junior Engineer (Civil), Ministry of Ports, Shipping & Waterways (Andaman Lakshadweep Harbour Works)	Diploma in Civil Engineering from a recognized Institution.
21	Junior Engineer (Electrical), Ministry of Ports, Shipping & Waterways (Andaman Lakshadweep Harbour Works)	Diploma in Electrical Engineering from a recognized Institution.
22	Junior Engineer (Mechanical), Ministry of Ports, Shipping & Waterways (Andaman Lakshadweep Harbour Works)	Diploma in Mechanical Engineering from a recognized Institution.

- 9.2 The posts where experience is required, such experience must be acquired by the candidates after completing the requisite Educational Qualifications (EQs) as specified for the concerned post. Further, internship, training, research experience, etc. gained in the course of acquiring an educational qualification will not be counted as experience.
- 9.3 As per University Grants Commission (UGC) (Open and Distance Learning) Regulations, 2017 published in official Gazette on 23-06-2017, under Part-III (8) (v), the programmes in engineering, medicine, dental, nursing, pharmacy, architecture and physiotherapy etc are not permitted to be offered under Open and Distance Learning mode. However, pursuant to the Hon'ble Supreme Court Order dated 11-03-2019 in MA No. 3092/2018 in W.P. (C) No. 382/2018 titled Mukul Kumar Sharma & others vs AICTE and others, B. Tech. degree/diploma in Engineering awarded by IGNOU to the students who were enrolled up to academic year 2009-10 shall be treated as valid, wherever applicable.
- 9.4 All candidates who are called for documents verification will be required to produce the relevant certificates in original such as Mark Sheets, Provisional Degree/Diploma Certificate, etc. as proof of having acquired the minimum

educational qualifications/experience on or before **02.09.2022** failing which the candidature of such candidates will be cancelled. The candidates who are able to prove, by documentary evidence that the result of the qualifying examination was declared on or before the cut-off date and he/she has been declared passed, will also be considered to have met the required educational qualifications. It is reiterated that the result of requisite educational qualification must have been declared by the Board/University by the specified date. Mere processing of the result by the Board/University by the crucial cut-off date does not fulfill the EQ requirement.

## 10 **Provision of Compensatory Time and Assistance of Scribe:**

- 10.1 In case of persons with benchmark disabilities in the category of blindness, locomotor disability (both arms affected-BA) and cerebral palsy, the facility of scribe is provided, if desired by the candidate. **Since the posts are not identified suitable for persons with blindness and BA, therefore facility of scribe and compensatory time will not be admissible to such candidates.**
- 10.2 In case of remaining categories of persons with benchmark disabilities, the provision of scribe will be available on production of a certificate at the time of examination to the effect that the person concerned has physical limitation to write, and scribe is essential to write examination on his/ her behalf, from the Chief Medical Officer/Civil Surgeon/Medical Superintendent of a Government health care institution as per proforma at **Annexure-I**.
- 10.3 The candidate will have the discretion of opting for his/ her own scribe or the facility of scribe provided by the Commission. Appropriate choice in this regard will have to be given by the candidate in the online application form.
- 10.4 In case the candidate opts for his/her own scribe, the qualification of the scribe should be one step below the qualification of the candidate taking the examination. The candidates with benchmark disabilities opting for own scribe shall be required to submit details of the own scribe at the time of examination as per proforma at **Annexure-II**. In addition, the scribe has to produce a valid ID proof (as per list given at **para-16.7**) in original at the time of examination. A photocopy of the ID proof of the scribe signed by the candidate as well as the scribe will be submitted along with proforma at **Annexure-II**. If subsequently it is found that the qualification of the scribe is not as declared by the candidate, then the candidate shall forfeit his/ her right to the post and claims relating thereto.
- 10.5 A compensatory time of 20 minutes per hour of examination will be provided to the persons who are allowed use of scribe as described at **para 10.1 and 10.2** above.
- 10.6 The candidates referred to at **para 10.1 and 10.2** above, who are allowed use of scribe but not availing the facility of scribe will also be given compensatory time of 20 minutes per hour of examination.
- 10.7 No attendant other than the scribe for eligible candidates will be allowed inside the examination hall.
- 10.8 The PwD candidates who have availed the facility of scribes and/or compensatory time must produce relevant documents for the eligibility of scribe/ compensatory time at the time of Document Verification. Failure to produce such supporting documents will lead to cancellation of their candidature for the examination.

## 11 **How to Apply and Application Fee:**

- 11.1 Applications are required to be submitted in online mode only at the official website of SSC Headquarters; *i.e.*, <https://ssc.nic.in>. For detailed instructions, please refer to **Annexure-III** and **Annexure-IV** of this Notice. Sample proforma of One-time Registration and online Application Forms are attached as **Annexure-IIIA** and **Annexure-IVA**.
- 11.2 In the online Application Form, candidates are required to upload the scanned colour passport size photograph in JPEG format (20 KB to 50 KB). **The photograph should not be more than three months old from the date of publication of the Notice of Examination.** Image dimension of the photograph should be about 3.5 cm (width) x 4.5cm (height). **The photograph should be without cap and spectacles.**
- 11.3 If the proper photograph is not uploaded by a candidate, his/her candidature will be cancelled. **Specimen of photographs which are acceptable/not acceptable is given at Annexure-XVI.**
- 11.4 Scanned signature in JPEG format (10 to 20 KB). Image dimension of the signature should be about 4.0 cm (width) x 2.0 cm (height). Applications with illegible/blurred signature will be rejected.
- 11.5 Last date and time for submission of online applications is **02.09.2022 (2300 hours).**
- 11.6 Candidates are advised in their own interest to submit online applications much before the closing date and not to wait till the last date to avoid the possibility of disconnection/inability or failure to login to the SSC website on account of heavy load on the website during the closing days.
- 11.7 The Commission will not be responsible for the candidates not being able to submit their applications within the last date on account of the aforesaid reasons or for any other reason beyond the control of the Commission.
- 11.8 Before submission of the online application, candidates must check that they have filled correct details in each field of the form.
- 11.9 Fee payable: Rs 100/- (Rs one hundred only).
- 11.10 Women candidates and candidates belonging to Scheduled Castes (SC), Scheduled Tribes (ST), Persons with disabilities (PwD) and Ex-Servicemen eligible for reservation are exempted from payment of fee.
- 11.11 Fee can be paid through BHIM UPI, Net Banking or by using Visa, Mastercard, Maestro, RuPay Credit or Debit card or in cash at SBI Branches by generating SBI Challan.
- 11.12 Online fee can be paid by the candidates up to **03.09.2022 (2300 hours)**. However, candidates who wish to make the payment through challan of SBI, may make the payment in cash at the designated branches of SBI within the working hours of bank up to **03.09.2022** provided the challan has been generated by them before **02.09.2022 (2300 hours)**.
- 11.13 Application received without the prescribed fee shall not be considered and summarily rejected. No representation against such rejection will be entertained
- 11.14 Candidates who are not exempted from fee payment must ensure that their fee has been deposited with SSC. If the fee is not received by SSC, status of Application Form is shown as 'Incomplete' and this information is printed on the top of the Application Form. Further, status of fee payment can be verified at the 'Payment Status' link provided in the candidate's login screen. Such applications which remain incomplete due to non-receipt of

fee will be SUMMARILY REJECTED and no request for consideration of such applications and fee payment after the period specified in the Notice of Examination shall be entertained.

- 11.15 Fee once paid shall not be refunded under any circumstances nor will it be adjusted against any other examination or selection.

**12 Window for Application Form Correction [04.09.2022 (2300 hours)]:**

- 12.1 After the closing date for receipt of online applications, the Commission will provide a period of 01 day to enable candidates to correct/modify online application parameters, wherein candidates will be allowed to re-submit applications after making requisite corrections/changes in the one-time registration/online application data as per their requirement.
- 12.2 A candidate will be allowed to correct and re-submit his modified/corrected application two times during the 'Window for Application Form Correction' *i.e.* if he has made mistake in his updated application also, he will be allowed to re-submit one more modified/corrected application after making requisite corrections/modifications. No more corrections in the application form will be allowed under any circumstances.
- 12.3 Only those candidates will be allowed to make corrections in the application form, whose completed online applications along-with payment of requisite fee, have been received by the Commission within the specified period.
- 12.4 Latest modified application will be treated as the valid one and the previous application(s) submitted by such candidates will be cancelled.
- 12.5 The Commission will levy a uniform correction charges of ₹ 200/- for making correction and re-submitting modified/corrected application for the first time and ₹ 500/- for making correction and re-submitting modified/ corrected application for the second time. The correction charges will be applicable to all candidates irrespective of their gender/category.
- 12.6 The correction charges can be paid only by online mode through BHIM UPI, Net Banking or by using Visa, Mastercard, Maestro, RuPay Credit or Debit cards or in cash at SBI Branches by generating SBI Challan.
- 12.7 The correction charges once paid shall not be refunded under any circumstances nor will it be adjusted against any other examination or selection.
- 12.8 Before submission of the corrected application, candidates must check that they have filled correct details in each field of the form. After expiry of 'Window for Application Form Correction', no change/correction/modification will be allowed under any circumstances. Requests received in this regard in any form like Post, Fax, Email, by hand, etc. shall not be entertained by the Commission and will be summarily rejected.

**13. Centres of Examination:**

- 13.1 A candidate must indicate the Centre(s) in the online Application from

where he/she desires to take the examination. Details about the Examination Centres and Regional Offices under whose jurisdiction these Examination Centres are located are as follows:

S. No	Examination Centres & Centre Code	SSC Region and States/ UTs under the jurisdiction of the Region	Address of the Regional Offices/ Website
1	Bhagalpur (3201), Darbhanga (3202), Muzaffarpur (3205), Patna (3206), Purnea (3209), Agra (3001), Bareilly (3005), Gorakhpur (3007), Jhansi (3008), Kanpur (3009), Lucknow (3010), Meerut (3011), Prayagraj (3003), Varanasi (3013).	<b>Central Region (CR)/</b> Bihar and Uttar Pradesh	Regional Director (CR), Staff Selection Commission, 34-A, Mahatma Gandhi Marg, Civil lines, Kendriya Sadan, Prayagraj – 211001. <b><a href="http://www.ssc-cr.org">http://www.ssc-cr.org</a></b>
2	Port Blair (4802), Dhanbad (4206), Hazaribagh (4204), Jamshedpur (4207), Ranchi (4205), Balasore (4601), Behrampur-Ganjam (4602), Bhubaneswar (4604), Cuttack (4605), Kalyani (4419), Rourkela (4610), Sambalpur (4609), Gangtok (4001), Asansol (4417), Kolkata (4410), Siliguri (4415), Burdwan (4422), Durgapur (4426).	<b>Eastern Region (ER)/</b> Andaman & Nicobar Islands, Jharkhand, Odisha, Sikkim and West Bengal	Regional Director (ER), Staff Selection Commission, 1 <sup>st</sup> MSO Building, (8 <sup>th</sup> Floor), 234/4, Acharya Jagadish Chandra Bose Road, Kolkata, West Bengal-700020 <b><a href="http://www.sscer.org">www.sscer.org</a></b>
3	Belagavi (9002), Bengaluru (9001), Hubballi (9011), Kalaburagi (Gulbarga) (9005), Mangaluru (9008), Mysuru (9009), Shivamogga (9010), Udupi (9012), Ernakulam (9213), Kannur (9202), Kollam (9210), Kottayam (9205), Kozhikode (9206), Thiruvananthapuram (9211), Thrissur (9212).	<b>Karnataka, Kerala Region (KKR)/</b> Karnataka, Kerala and Lakshadweep.	Regional Director (KKR), Staff Selection Commission, 1 <sup>st</sup> Floor, “E” Wing, Kendriya Sadan, Koramangala, Bengaluru, Karnataka-560034 <b><a href="http://www.ssckkr.kar.nic.in">www.ssckkr.kar.nic.in</a></b>
4	Bhilai Nagar (6206), Bilaspur (6202), Raipur (6204), Bhopal (6001), Gwalior (6005), Indore (6006), Jabalpur (6007), Satna (6014), Ujjain (6016).	<b>Madhya Pradesh Region (MPR)/</b> Chhattisgarh and Madhya Pradesh	Dy. Director (MPR), Staff Selection Commission, 5 <sup>th</sup> Floor, Investment Building, LIC Campus-2, Pandri, Raipur Chhattisgarh-492004 <b><a href="http://www.sscmpr.org">www.sscmpr.org</a></b>
5	Itanagar (5001), Dibrugarh (5102), Guwahati (Dispur) (5105), Jorhat (5107), Silchar (5111), Tejpur (5112), Imphal (5501), Shillong (5401), Aizwal (5701), Kohima (5302), Agartala (5601).	<b>North Eastern Region (NER)/</b> Arunachal Pradesh, Assam, Manipur, Meghalaya,	Regional Director (NER), Staff Selection Commission, Housefed Complex, Last Gate, Beltola-

		Mizoram, Nagaland and Tripura.	Basistha Road, P. O. Assam Sachivalaya, Dispur, Guwahati, Assam-781006 <b>(www.sscner.org.in)</b>
6	Delhi NCR (2201), Ajmer (2401), Bharatpur (2403), Bikaner (2404), Jaipur (2405), Jodhpur (2406), Sikar (2411), Udaipur (2409), Dehradun (2002), Haldwani (2003), Roorkee (2006).	<b>Northern Region (NR)/</b> Delhi, Rajasthan and Uttarakhand	Regional Director (NR), Staff Selection Commission, Block No. 12, CGO Complex, Lodhi Road, New Delhi-110003 <b>(www.sscnr.net.in)</b>
7	Chandigarh (1601), Hamirpur (1202), Shimla (1203), Jammu (1004), Leh (1005), Samba (1010), Srinagar (J&K) (1007), Amritsar (1404), Jalandhar (1402), Patiala (1403).	<b>North Western Region (NWR)/</b> Chandigarh, Haryana, Himachal Pradesh, Jammu and Kashmir, Ladakh and Punjab	Dy. Director (NWR), Staff Selection Commission, Block No. 3, Ground Floor, KendriyaSadana, Sector-9, Chandigarh-160009 <b>(www.sscnwr.org)</b>
8	Chirala (8011), Guntur (8001), Kakinada (8009), Kurnool (8003), Nellore (8010), Rajahmundry (8004), Tirupati (8006), Vijaywada (8008), Vishakhapatnam (8007), Vizianagaram (8012), Puducherry (8401), Chennai (8201), Coimbatore (8202), Madurai (8204), Salem (8205), Tiruchirapalli (8206), Tirunelveli (8207), Vellore (8208), Hyderabad (8601), Karimnagar (8604), Warangal (8603).	<b>Southern Region (SR)/</b> Andhra Pradesh, Puducherry, Tamil Nadu and Telangana.	Regional Director (SR), Staff Selection Commission, 2 <sup>nd</sup> Floor, EVK Sampath Building, DPI Campus, College Road, Chennai, Tamil Nadu-600006 <b>(www.sscsr.gov.in)</b>
9	Panaji (7801), Ahmedabad (7001), Anand (7011), Gandhinagar (7012), Mehsana (7013), Rajkot (7006), Surat (7007), Vadodara (7002), Amravati (7201), Aurangabad (7202), Jalgaon (7214), Kolhapur (7203), Mumbai (7204), Nagpur (7205), Nanded (7206), Pune (7208).	<b>Western Region (WR)/</b> Dadra and Nagar Haveli and Daman and Diu, Goa, Gujarat and Maharashtra	Regional Director (WR), Staff Selection Commission, 1 <sup>st</sup> Floor, South Wing, PratishthaBhawan, 101, MaharshiKarve Road, Mumbai, Maharashtra-400020 <b>(www.sscwr.net)</b>

13.2 A candidate may give option for three centres, in the order of priority, within the same region. No request for change of Centre of Examination will be considered later under any circumstances. Hence, the candidates should select the centers, carefully and indicate the same correctly in their applications.

13.3 The Commission reserves the right to cancel any Centre and ask the candidates of that centre to appear from another centre. Commission also reserves the right to divert candidates of any centre to some other Centre to take the examination.

14. **Scheme of Examination:**

14.1 The Examination will consist of two Papers; i.e. Paper-I (Computer Based Examination) and Paper-II (Descriptive). Details of these Papers are as follows:

Papers	Mode of Examination	Subject	No of Questions/ Max. Marks	Duration
Paper-I	Computer Based Examination	(i) General Intelligence and Reasoning	50/50	2 Hours (2 hours and 40 minutes for the candidates who are eligible for scribe as per <b>Para-10.1 and 10.2</b> )
		(ii) General Awareness	50/50	
		(iii) Part-A: General Engineering (Civil & Structural) or Part-B: General Engineering (Electrical) or Part-C: General Engineering (Mechanical)	100/ 100	
Paper-II	Written Examination	Part-A: General Engineering (Civil & Structural) or Part-B: General Engineering (Electrical) or Part-C: General Engineering (Mechanical)	300	2 Hours (2 hours and 40 minutes for the candidates who are eligible for scribe as per <b>Para-10.1 and 10.2</b> )

14.2 The candidates will be required to attempt the General Engineering part (i.e. Part-A, Part-B or Part-C) in Paper-I and Paper-II, which has been selected by them, on the basis of their Educational Qualification, in the online application form. In other words, the candidates appearing for the post of Junior Engineer (Civil) / Junior Engineer (Quantity Surveying & Contracts) are required to attempt Part-A (Civil & Structural) of Paper-I and Paper-II and the candidates appearing for the post of Junior Engineer (Electrical) are required to attempt Part-B (Electrical) and the candidates appearing for the post of Junior Engineer (Mechanical) are required to attempt Part-C (Mechanical) of Paper-I and Paper-II failing which their candidature will be rejected.

14.3 The Paper-I will consist of Objective Type, Multiple choice questions only. The questions will be set both in English & Hindi.

14.4 There will be negative marking of 0.25 marks for each wrong answer in Paper-I. Candidates are, therefore, advised to keep this in mind while answering the questions.

14.5 Candidates are allowed to bring their own Slide-Rule, Calculator, Logarithm Table and Steam Table for Paper-II only. They are not allowed to use such aids for Paper-I.

14.6 Tentative Answer Keys of Paper-I will be placed on the website of the Commission after the Examination. Candidates may go through the Answer Keys and submit online representations, if any, within the time

limit given by the Commission, on payment of Rs. 100/- per question which is non refundable. Any representation regarding the Answer Keys received through the online modality within the time limit fixed by the Commission at the time of uploading of the Answer Keys will be scrutinized before finalizing the Answer Keys and the decision of the Commission in this regard will be final. Representations on the matter received through any other modalities; *i.e.*, letter, application, email, etc. will not be entertained.

- 14.7 Marks scored by candidates in Paper-I will be normalized by using the formula published by the Commission through Notice No: 1-1/2018-P&P-I dated 07-02-2019 and such normalized scores will be used to determine final merit and cut-off marks.
- 14.8 The Paper-II will have to be written either in Hindi or in English. Part paper written in Hindi and part in English will be awarded zero marks.
- 14.9 In Paper-II, candidates must write their correct Roll Number and Subject at the prescribed places on the cover page of the Answer Book. Candidates must also affix signature and Left-hand Thumb Impression in the relevant columns in the Answer Book. Answer Books not bearing Roll Number, Subject, Signature and Left-hand Thumb Impression will not be evaluated and such candidates shall be awarded zero marks.
- 14.10 The dates of examinations indicated in the Notice are tentative. Any change in the schedule of examinations will be informed to candidates only through the website of the Commission.
- 14.11 There shall be no provision for re-evaluation/ re-checking of scores in the Examination. No correspondence in this regard shall be entertained.
- 14.12 Candidates are strictly advised not to write any personal identity e.g. name, roll number, mobile number, address, etc. inside the Answer Book (Paper-II) which will be considered as use of unfair means (UFM). The candidates who fail to adhere to these instructions will be awarded zero marks even if marks are awarded during the evaluation process.

## 15 **Indicative Syllabus**

15.1 The standard of the questions in Engineering subjects will be approximately of the level of Diploma in Engineering (Civil/ Electrical/ Mechanical). The details of the syllabus are given below:

### 15.2 **Paper-I:**

15.2.1 **General Intelligence & Reasoning:** The Syllabus for General Intelligence would include questions of both verbal and non-verbal type. The test may include questions on analogies, similarities, differences, space visualization, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series, etc. The test will also include questions designed to test the candidate's abilities to deal with abstract ideas and symbols and their relationships, arithmetical computations and other analytical functions.

15.2.2 **General Awareness:** Questions will be aimed at testing the candidate's general awareness of the environment around him/her and its application to society. Questions will also be designed to test knowledge of current events and of such matters of everyday observations and experience in



their scientific aspect as may be expected of any educated person. The test will also include questions relating to India and its neighbouring countries especially pertaining to History, Culture, Geography, Economic Scene, General Polity and Scientific Research, etc. These questions will be such that they do not require a special study of any discipline.

### 15.2.3 **General Engineering: Civil & Structural, Electrical and Mechanical:**

#### 15.2.3.1 **Part-A (Civil Engineering):**

Building Materials, Estimating, Costing and Valuation, Surveying, Soil Mechanics, Hydraulics, Irrigation Engineering, Transportation Engineering, Environmental Engineering.

Structural Engineering: Theory of Structures, Concrete Technology, RCC Design, Steel Design.

#### 15.2.3.2 **Part-B (Electrical Engineering):**

Basic concepts, Circuit law, Magnetic Circuit, AC Fundamentals, Measurement and Measuring instruments, Electrical Machines, Fractional Kilowatt Motors and single phase induction Motors, Synchronous Machines, Generation, Transmission and Distribution, Estimation and Costing, Utilization and Electrical Energy, Basic Electronics.

#### 15.2.3.3 **Part-C Mechanical Engineering):**

Theory of Machines and Machine Design, Engineering Mechanics and Strength of Materials,

Properties of Pure Substances, 1st Law of Thermodynamics, 2nd Law of Thermodynamics, Air standard Cycles for IC Engines, IC Engine Performance, IC Engines Combustion, IC Engine Cooling & Lubrication, Rankine cycle of System, Boilers, Classification, Specification, Fitting & Accessories, Air Compressors & their cycles, Refrigeration cycles, Principle of Refrigeration Plant, Nozzles & Steam Turbines.

Properties & Classification of Fluids, Fluid Statics, Measurement of Fluid Pressure, Fluid kinematics, Dynamics of Ideal fluids, Measurement of Flow rate, basic principles, Hydraulic Turbines, Centrifugal Pumps, Classification of steel.

### 15.3 **Paper II**

#### 15.3.1 **Part-A (Civil & Structural Engineering):**

**Building Materials:** Physical and Chemical properties, classification, standard tests, uses and manufacture/quarrying of materials e.g. building stones, silicate based materials, cement (Portland), asbestos products, timber and wood based products, laminates, bituminous materials, paints, varnishes.

**Estimating, Costing and Valuation:** estimate, glossary of technical

terms, analysis of rates, methods and unit of measurement, Items of work – earthwork, Brick work (Modular & Traditional bricks), RCC work, Shuttering, Timber work, Painting, Flooring, Plastering, Boundary wall, Brick building, Water Tank, Septic tank, Bar bending schedule, Centre line method, Mid-section formula, Trapezoidal formula, Simpson's rule, Cost estimate of Septic tank, flexible pavements, Tube well, isolates and combined footings, Steel Truss, Piles and pile-caps. Valuation – Value and cost, scrap value, salvage value, assessed value, sinking fund, depreciation and obsolescence, methods of valuation.

**Surveying:** Principles of surveying, measurement of distance, chain surveying, working of prismatic compass, compass traversing, bearings, local attraction, plane table surveying, theodolite traversing, adjustment of theodolite, Levelling, Definition of terms used in levelling, contouring, curvature and refraction corrections, temporary and permanent adjustments of dumpy level, methods of contouring, uses of contour map, tachometric survey, curve setting, earth work calculation, advanced surveying equipment

**Soil Mechanics:** Origin of soil, phase diagram, Definitions-void ratio, porosity, degree of saturation, water content, specific gravity of soil grains, unit weights, density index and interrelationship of different parameters, Grain size distribution curves and their uses Index properties of soils, Atterberg's limits, ISI soil classification and plasticity chart Permeability of soil, coefficient of permeability, determination of coefficient of permeability, Unconfined and confined aquifers, effective stress, quick sand, consolidation of soils, Principles of consolidation, degree of consolidation, pre-consolidation pressure, normally consolidated soil, e-log p curve, computation of ultimate settlement Shear strength of soils, direct shear test, Vane shear test, Triaxial test Soil compaction, Laboratory compaction test, Maximum dry density and optimum moisture content, earth pressure theories, active and passive earth pressures, Bearing capacity of soils, plate load test, standard penetration test

**Hydraulics:** Fluid properties, hydrostatics, measurements of flow, Bernoulli's theorem and its application, flow through pipes, flow in open channels, weirs, flumes, spillways, pumps and turbines

**Irrigation Engineering:** Definition, necessity, benefits, 2II effects of irrigation, types and methods of irrigation, Hydrology – Measurement of rainfall, run off coefficient, rain gauge, losses from precipitation – evaporation, infiltration, etc Water requirement of crops, duty, delta and base period, Kharif and Rabi Crops, Command area, Time factor, Crop ratio, Overlap allowance, Irrigation efficiencies Different type of canals, types of canal irrigation, loss of water in canals Canal lining

– types and advantages Shallow and deep to wells, yield from a well Weir and barrage, Failure of weirs and permeable foundation, Slit and Scour, Kennedy's theory of critical velocity Lacey's theory of uniform flow Definition of flood, causes and effects, methods of flood control, water logging, preventive measure Land reclamation, Characteristics of affecting fertility of soils, purposes, methods, description of land and reclamation

processes Major irrigation projects in India

**Transportation Engineering:** Highway Engineering – cross sectional elements, geometric design, types of pavements, pavement materials – aggregates and bitumen, different tests, Design of flexible and rigid pavements – Water Bound Macadam (WBM) and Wet Mix Macadam (WMM), Gravel Road, Bituminous construction, Rigid pavement joint, pavement maintenance, Highway drainage, Railway Engineering- Components of permanent way – sleepers, ballast, fixtures and fastening, track geometry, points and crossings, track junction, stations and yards Traffic Engineering – Different traffic survey, speed-flow-density and their interrelationships, intersections and interchanges, traffic signals, traffic operation, traffic signs and markings, road safety

**Environmental Engineering:** Quality of water, source of water supply, purification of water, distribution of water, need of sanitation, sewerage systems, circular sewer, oval sewer, sewer appurtenances, sewage treatments Surface water drainage Solid waste management – types, effects, engineered management system Air pollution – pollutants, causes, effects, control Noise pollution – cause, health effects, control

**Structural Engineering:**

**Theory of structures:** Elasticity constants, types of beams – determinate and indeterminate, bending moment and shear force diagrams of simply supported, cantilever and over hanging beams Moment of area and moment of inertia for rectangular & circular sections, bending moment and shear stress for tee, channel and compound sections, chimneys, dams and retaining walls, eccentric loads, slope deflection of simply supported and cantilever beams, critical load and columns, Torsion of circular section

**Concrete Technology:** Properties, Advantages and uses of concrete, cement aggregates, importance of water quality, water cement ratio, workability, mix design, storage, batching, mixing, placement, compaction, finishing and curing of concrete, quality control of concrete, hot weather and cold weather concreting, repair and maintenance of concrete structures

**RCC Design:** RCC beams-flexural strength, shear strength, bond strength, design of singly reinforced and double reinforced beams, cantilever beams T-beams, lintels One way and two way slabs, isolated footings Reinforced brick works, columns, staircases, retaining wall, water tanks (RCC design questions may be based on both Limit State and Working Stress methods)

**Steel Design:** Steel design and construction of steel columns, beams roof trusses plate girders

### 15.3.2 **Part-B (Electrical Engineering):**

**Basic concepts:** Concepts of resistance, inductance, capacitance, and various factors affecting them Concepts of current, voltage, power, energy and their units

**Circuit law:** Kirchhoff's law, Simple Circuit solution using network theorems

**Magnetic Circuit:** Concepts of flux, mmf, reluctance, Different kinds of magnetic materials, Magnetic calculations for conductors of different configuration e.g. straight, circular, solenoidal, etc Electromagnetic induction, self and mutual induction

**AC Fundamentals:** Instantaneous, peak, RMS and average values of alternating waves, Representation of sinusoidal wave form, simple series and parallel AC Circuits consisting of RL and C, Resonance, Tank Circuit Poly Phase system – star and delta connection, 3 phase power, DC and sinusoidal response of R-L and R-C circuit

**Measurement and measuring instruments:** Measurement of power (1 phase and 3 phase, both active and re-active) and energy, 2 wattmeter method of 3 phase power measurement, Measurement of frequency and phase angle Ammeter and voltmeter (both moving coil and moving iron type), extension of range wattmeter, Multimeters, Megger, Energy meter AC Bridges Use of CRO, Signal Generator, CT, PT and their uses Earth Fault detection

**Electrical Machines** : (a) DC Machine – Construction, Basic Principles of DC motors and generators, their characteristics, speed control and starting of DC Motors Method of braking motor, Losses and efficiency of DC Machines (b) 1 phase and 3 phase transformers – Construction, Principles of operation, equivalent circuit, voltage regulation, OC and SC Tests, Losses and efficiency Effect of voltage, frequency and wave form on losses Parallel operation of 1 phase / 3 phase transformers Auto transformers (c) 3 phase induction motors, rotating magnetic field, principle of operation, equivalent circuit, torque-speed characteristics, starting and speed control of 3 phase induction motors Methods of braking, effect of voltage and frequency variation on torque speed characteristics

Fractional Kilowatt Motors and Single Phase Induction Motors: Characteristics and applications

**Synchronous Machines** - Generation of 3-phase emf armature reaction, voltage regulation, parallel operation of two alternators, synchronizing, control of active and reactive power Starting and applications of synchronous motors

**Generation, Transmission and Distribution** – Different types of power stations, Load factor, diversity factor, demand factor, cost of generation, inter-connection of power stations Power factor improvement, various types of tariffs, types of faults, short circuit current for symmetrical faults Switchgears – rating of circuit breakers, Principles of arc extinction by oil and air, HRC Fuses, Protection against earth leakage / over current, etc Buchholz relay, Merz-Price system of protection of generators & transformers, protection of feeders and bus bars Lightning arresters, various transmission and distribution system, comparison of conductor materials, efficiency of different system Cable – Different type of cables, cable rating and derating factor

**Estimation and costing** : Estimation of lighting scheme, electric installation of machines and relevant IE rules Earthing practices and IE Rules

**Utilization of Electrical Energy** : Illumination, Electric heating, Electric welding, Electroplating, Electric drives and motors

**Basic Electronics** : Working of various electronic devices e.g. P N Junction diodes, Transistors (NPN and PNP type), BJT and JFET Simple circuits using these devices

### 15.3.3 **Part- C (Mechanical Engineering):**

#### **Theory of Machines and Machine Design:**

Concept of simple machine, Four bar linkage and link motion, Flywheels and fluctuation of energy, Power transmission by belts – V-belts and Flat belts, Clutches – Plate and Conical clutch, Gears – Type of gears, gear profile and gear ratio calculation, Governors – Principles and classification, Riveted joint, Cams, Bearings, Friction in collars and pivots

#### **Engineering Mechanics and Strength of Materials:**

Equilibrium of Forces, Law of motion, Friction, Concepts of stress and strain, Elastic limit and elastic constants, Bending moments and shear force diagram, Stress in composite bars, Torsion of circular shafts, Buckling of columns–Euler’s and Rankin’s theories, Thin walled pressure vessels

#### **Thermal Engineering:**

**Properties of Pure Substances:** p-v & P-T diagrams of pure substance like H<sub>2</sub>O, Introduction of steam table with respect to steam generation process; definition of saturation, wet & superheated status Definition of dryness fraction of steam, degree of superheat of steam H-s chart of steam (Mollier’s Chart)

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**1st Law of Thermodynamics:** Definition of stored energy & internal energy, 1st Law of Thermodynamics of cyclic process, Non Flow Energy Equation, Flow Energy & Definition of Enthalpy, Conditions for Steady State Steady Flow; Steady State Steady Flow Energy Equation

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**2nd Law of Thermodynamics:** Definition of Sink, Source Reservoir of Heat, Heat Engine, Heat Pump & Refrigerator; Thermal Efficiency of Heat Engines & co-efficient of performance of Refrigerators, Kelvin – Planck & Clausius Statements of 2<sup>nd</sup> Law of Thermodynamics, Absolute or Thermodynamic Scale of temperature, Clausius Integral, Entropy, Entropy change calculation of ideal gas processes Carnot Cycle & Carnot Efficiency, PMM-2; definition & its impossibility

**Air standard Cycles for IC engines:** Otto cycle; plot on P-V, T-S Planes; Thermal Efficiency, Diesel Cycle; Plot on P-V, T-S planes; Thermal efficiency.

IC Engine Performance, IC Engine Combustion, IC Engine Cooling & Lubrication

**Rankine cycle of steam:** Simple Rankine cycle plot on P-V, T-S, h-s planes, Rankine cycle efficiency with & without pump work

Boilers; Classification; Specification; Fittings & Accessories: Fire Tube & Water Tube Boilers

Air Compressors & their cycles; Refrigeration cycles; Principle of a Refrigeration Plant; Nozzles & Steam Turbines

**Fluid Mechanics & Machinery:**

**Properties & Classification of Fluid:** ideal & real fluids, Newton's law of viscosity, Newtonian and Non-Newtonian fluids, compressible and incompressible fluids

**Fluid Statics:** Pressure at a point

**Measurement of Fluid Pressure:** Manometers, U-tube, Inclined tube

**Fluid Kinematics:** Stream line, laminar & turbulent flow, external & internal flow, continuity equation

**Dynamics of ideal fluids:** Bernoulli's equation, Total head; Velocity head; Pressure head; Application of Bernoulli's equation

**Measurement of Flow rate Basic Principles:** Venturimeter, Pilot tube, Orifice meter

**Hydraulic Turbines:** Classifications, Principles

**Centrifugal Pumps:** Classifications, Principles, **Performance Production Engineering:**

**Classification of Steels** : mild steel & alloy steel, Heat treatment of steel, Welding – Arc Welding, Gas Welding, Resistance Welding, Special Welding Techniques i.e. TIG, MIG, etc (Brazing & Soldering), Welding Defects & Testing; NDT, Foundry & Casting – methods, defects, different casting processes, Forging, Extrusion, etc, Metal cutting principles, cutting tools, Basic Principles of machining with (i) Lathe (ii) Milling (iii) Drilling (iv) Shaping (v) Grinding, Machines, tools & manufacturing processes.

16. **Admission to the Examination:**

16.1 All candidates who register themselves in response to this advertisement by the closing date and time and whose applications are found to be in order and are provisionally accepted by the Commission as per the terms and conditions of this Notice of Examination, will be assigned Roll numbers and issued Admission Certificate (AC) for appearing in the Computer Based Examination (Paper-I). Subsequently, qualified candidates will be issued Admission Certificates for the next stages of the Examinations.

16.2 The Commission will not undertake detailed scrutiny of applications for the eligibility and other aspects at the time of written examination and,

therefore, candidature will be accepted only provisionally. The candidates are advised to go through the requirements of educational qualification, experience, age, etc. and satisfy themselves that they are eligible for the post(s). The certificates/documents in support of their Educational Qualifications and Caste/Category, etc. shall be sought at the time of Document Verification by the Indenting/User Departments/Organizations. Candidates may also note that they would be required to submit their certificates/documents of EQs/caste/category, etc. as and when sought by the Commission or the Indenting/User Department/Organization. After scrutiny of the certificates/documents of EQs/caste/category, etc., if any claim made in the application is not substantiated by certificates/documents, the candidature of candidate will be cancelled.

- 16.3 Admission Certificates for the Examination will be uploaded on the website of the concerned Regional/Sub-Regional Office of the Commission. Admission Certificate will not be issued by post for any stage of examination. Candidates are therefore advised to regularly visit the websites of the Commission Headquarters and concerned Regional/Sub-Regional office of the Commission under whose jurisdiction the examination centres opted by the candidate are located (detail at **para-13.1**) for updates and information about the examination.
- 16.4 Information about the Examination indicating the time table and City/Centre of examination for the candidates will be uploaded on the websites of the concerned Regional/Sub-Regional Office of the Commission about two weeks before the date of examination. If any candidate does not find his/her details on the website of the Commission, one week before the date of examination, he/she must immediately contact the concerned Regional/Sub-Regional Office of the Commission with proof of having submitted his/her application. Failure to do so will deprive him/her of any claim for consideration.
- 16.5 Candidates must write Registration-ID, registered Email-ID and Mobile Number along with name, date of birth and name of the examination, while addressing any communication to the Commission. Communication from the candidates not furnishing these particulars shall not be entertained.
- 16.6 Facility for download of Admission Certificates will be available 3-7 days before the examination on the website of concerned Regional/Sub-Regional Office. Candidates must bring printout of the Admission Certificate to the Examination Hall.
- 16.7 In addition to the Admission Certificate, it is mandatory to carry at least two passport size recent colour photographs, Original valid Photo-ID proof having the Date of Birth as printed on the Admission Certificate, such as:
- 16.7.1 Aadhaar Card/ Printout of E-Aadhaar,
  - 16.7.2 Voter's ID Card,
  - 16.7.3 Driving License,
  - 16.7.4 PAN Card,
  - 16.7.5 Passport,
  - 16.7.6 School/ College ID Card,
  - 16.7.7 Employer ID Card (Govt./ PSU/ Private), etc
  - 16.7.8 Ex-serviceman Discharge Book issued by Ministry of Defence,

- 16.7.9 Any other photo bearing ID Card issued by the Central/ State Government.
- 16.8 If Photo Identity Card does not have the Date of Birth then the candidate must carry an additional original certificate in proof of their Date of Birth. In case of mismatch in the Date of Birth mentioned in the Admission Certificate and photo ID/Certificate brought in support of Date of Birth, the candidate will not be allowed to appear in the examination.
- 16.9 PwD candidates using the facility of scribes as per **paras 10.2 and 10.4** shall also be required to carry required Medical Certificate/Undertaking/Photocopy of the Scribe's Photo ID Proof, as specified therein. Candidates without these documents will not be allowed to appear in the examination.
- 16.10 Any other document mentioned in the Admission Certificate will be carried by the candidates while appearing in the Examination.
- 16.11 Applications with blurred photograph and/ or signature will be rejected.
- 17 **Document Verification (DV): In view of the recruitments to be made by the Government in mission mode and to expedite the whole recruitment process, the Commission has decided that Document Verification (DV) would be done by the Indenting/User Departments/Organizations.**
- 17.1 The candidates are required to appear for Document Verification along with the photocopies and original documents as mentioned at **para 17.5**.
- 17.2 The candidates shall be required to indicate their preference of post(s)/department(s) for which they would like to be considered in their order of preference.
- 17.3 The option/preference once exercised by the candidates will be treated as FINAL and IRREVERSIBLE. Subsequent request for change of Post/Department by candidates shall not be entertained under any circumstances. If the candidate has not opted for a Post/Department, he/she shall not be considered for selection to such post irrespective of his/her merit position. Therefore candidates must exercise due diligence and be very careful while giving their post-preferences.
- 17.4 Candidates have to bring two passport size recent colour photographs and one original valid Photo ID Proof while appearing for the Document Verification. Photo ID Proof can be:
- (i) Aadhaar Card/ Printout of E-Aadhaar.
  - (ii) Voter ID Card.
  - (iii) PAN Card.
  - (iv) Passport.
  - (v) Driving License.
  - (vi) Government School/ College ID Card.
  - (vii) Employer ID (Govt./ PSU)
  - (viii) Ex-serviceman Discharge Book issued by Ministry of Defence,
  - (ix) Any other Photo bearing ID Card issued by Central/ State Govt.
- 17.5 Candidates will have to submit copies of various documents like:
- (i) Matriculation/Secondary Certificate.
  - (ii) Educational Qualification Certificate.
  - (iii) Experience Certificate, if applicable.



- (iv) Caste/ Category Certificate, if belongs to reserved categories.
- (v) Persons with Disabilities Certificate in the required format, if applicable.
- (vi) For Ex-Servicemen (ESM):
  - (a) Undertaking as per **Annexure-VI**.
  - (b) Serving Defence Personnel Certificate as per **Annexure-V**, if applicable.
  - (c) Discharge Certificate, if discharged from the Armed Forces.
- (vii) Relevant Certificate if seeking any age relaxation.
- (viii) No Objection Certificate, in case already employed in Government/ Government undertakings.
- (ix) A candidate who claims change in name after matriculation on marriage or remarriage or divorce, etc. shall submitted the following documents:
  - (a) In case of marriage of women: Photocopy of husband's passport showing name of spouse or an attested copy of marriage certificate issued by the Registrar of Marriage or an Affidavit from husband and wife along with a joint photograph duly sworn before the Oath Commissioner;
  - (b) In case of re-marriage of women: Divorce Deed/ Death Certificate as the case may be in respect of first spouse; and photocopy of present husband's passport showing name of spouse or an attested copy of marriage certificate issued by the Registrar of Marriage or an Affidavit from the husband and wife along with joint photograph duly sworn before the Oath Commissioner.
  - (c) In case of divorce of women: Certified copy of Divorce Decree and Deed Poll/ Affidavit duly sworn before the Oath Commissioner.
  - (d) In other circumstances for change of name for both male and female: Deed Poll/ Affidavit duly sworn before the Oath Commissioner and paper cuttings of two leading daily newspaper in original (One daily newspaper should be of the area of applicant's permanent and present address or nearby area) and Gazette Notification.
- (x) Any other document specified in the Admission Certificate for DV.

18 **Post Preferences:** As stated above, the candidates shall be required to indicate their preference of post(s)/departments(s) for which they would like to be considered in their order of preference.

18.1 Posts of Junior Engineers in BRO have stringent requirements of physical and medical standards including Physical Efficiency Test (Details available at **Annexure-XV**). Examination of such physical and medical standards will be conducted after the final selection of candidates by BRO. If a candidate fails in such tests, his candidature will not be subsequently considered for any other post/department. Candidates are therefore advised to thoroughly go through these requirements and give their considered preference of posts.

18.2 The option/preference once exercised by the candidates will be treated as

FINAL and IRREVERSIBLE. Subsequent request for change of Post/Department by candidates shall not be entertained under any circumstances. If the candidate has not opted for a Post/Department, he/she shall not be considered for selection to such post irrespective of his/her merit position. Therefore candidates must exercise due diligence and be very careful while giving their post-preferences.

19 **Mode of Selection:**

19.1 Minimum qualifying marks in Paper-I and Paper-II are as follows:

- |               |   |     |
|---------------|---|-----|
| (i) UR        | : | 30% |
| (ii) OBC/EWS  | : | 25% |
| (iii) SC / ST | : | 20% |

19.2 Based on the normalized marks scored in the (Paper-I) i.e. Computer Based Examination, candidates will be shortlisted, category-wise, to appear in Paper-II. The Commission shall have the discretion to fix different cut-off marks in each part of Paper-I taking into consideration among others, category-wise vacancies and category-wise number of candidates.

19.3 Final selection and allocation of Ministries/Departments/Organizations will be made on the basis of the performance of candidates in Paper-I and Paper-II and the preference of Ministries/Departments/Organizations exercised by them.

19.4 The final allotment of posts are made on the basis of merit-cum-preferences of Post(s)/Department(s) given by the candidates and once a post is allotted, no change of posts will be made by the Commission due to non-fulfillment of any post specific requirements of physical/medical/educational standards or any other requirement. In other words, for example, if a candidate has given higher preference for a post and is selected for that post; in that case, if he/she fails to meet the medical/physical/educational standards for that post, his/her candidature will be rejected and he/she will not be considered for any other posts.

19.5 SC, ST, OBC, EWS and PwD candidates, who are selected on their own merit without relaxed standards, will not be adjusted against the reserved share of vacancies. Such candidates will be accommodated against the general/unreserved vacancies in the post as per their position in the overall merit or vacancies earmarked for their category, whichever is advantageous to them. The reserved vacancies will be filled up separately from amongst the eligible SC, ST, OBC, EWS and PwD candidates.

19.6 SC, ST, OBC, EWS and PwD candidate who qualifies on the basis of relaxed standards; viz., age limit, experience or qualifications, permitted number of chances, extended zone of consideration, etc, irrespective of his/her merit position, is to be counted against reserved vacancies and not against un-reserved vacancies. Such candidates may also be recommended at the relaxed standards to the extent of number of vacancies reserved for them, to make up for the deficiency in the reserved quota, irrespective of their rank in the order of merit. Insofar as cases of Ex-Serviceman are concerned, deduction of the military service rendered from the age of ex-servicemen is permissible against the reserved or unreserved posts and such exemption will not be termed as relaxed standards in regard to age. Similarly for PwD candidates, relaxation of 10 years in upper age limit will not be termed as relaxed standards.

19.7 A person with disability who is selected on his/her own merit can be

- appointed against an unreserved vacancy provided the post is identified suitable for Persons with Disability of relevant category.
- 19.8 Success in the examination confers no right of appointment unless Government is satisfied after such enquiry as may be considered necessary that the candidate is suitable in all respects for appointment to the service/post.
- 19.9 The candidates applying for the examination should ensure that they fulfill all the eligibility conditions for admission to the examination. Their admission at all stages of the examination will be purely provisional, subject to their satisfying the prescribed eligibility conditions. If, on verification, at any time before or after the written examination, it is found that they do not fulfill any of the eligibility conditions, their candidature for the examination will be cancelled.
- 19.10 Candidates, who are appointed on the basis of this examination, shall be on probation for a period of two years and during the period of probation, the candidates would be required to undergo such training or pass such examinations as prescribed by the Controlling Authority. On successful completion of the period of probation, the candidates shall, if considered fit for permanent appointment, be confirmed to their post by the Controlling Authority.
- 19.11 Candidates selected for appointment are liable to serve anywhere in India; *i.e.*, the posts carry All India Service Liability (AISL).
- 19.12 Candidates on final selection may be allotted a State/UT/Zone by the concerned User Ministry/Department/Organization. Such candidates may be required to acquire the proficiency in local language of the allotted State/UT/Zone for confirmation of the candidates to the allotted posts by the concerned User Ministry/Department/Organization.
- 19.13 If a candidate scoring more than cut-off marks in any Tier/Stage of the examination is not qualified for the subsequent stage/final selection due to any reason, he/she must represent to the concerned Regional/Sub-Regional Office of the Commission within two months of the declaration of the result or two weeks prior to the conduct of next stage of the examination, whichever is earlier.
- 19.14 If a candidate is finally selected and does not receive any correspondence from the Commission or the concerned User Department / Organization within a period of one year from the declaration of final result, he/she must communicate immediately thereafter with the concerned User Department / Organization.
- 20 In accordance with the directions issued by DoP&T *vide* its OM No: 39020/1/2016- Estt (B) dated 21.06.2016 for increasing access of the unemployed candidates to job opportunities it has been decided that after declaration of final result the Commission will make the scores and rankings of unsuccessful candidates in the said open competitive examinations conducted by the Commission available on its website in descending order of ranking. Accordingly, it has been decided that the following details of the candidates will be made available on its website: (i) Name of candidate, (ii) Father/Husband's name, (iii) Date of Birth, (iv) Category(Gen/SC/ST/OBC/EWS/PwD/ESM), (v) Gender of the candidate, (vi) Educational Qualifications, (vii) Total Marks obtained in the qualifying examination, (viii) Ranking by which the merit is decided, (ix) Complete address, (x) E-mail address. However, the candidate will have the option, at the time of filling up of his/her application form, from opting out of disclosing the above details publicly. Accordingly, the scores and rankings

in respect of only those candidates who have opted for disclosing the above details or have not exercised their options will be made available on the website of the Commission.

21 **Resolution of tie cases:** In cases where more than one candidate secure the equal aggregates marks in Paper-I and Paper-II, tie will be resolved by applying the following methods one after another:

- (i) Total marks in Paper-II.
- (ii) Date of birth, with older candidates placed higher.
- (iii) Alphabetical order of the names of the candidates.

22 **Action against candidates found guilty of misconduct:**

22.1 If candidates are found to indulge at any stage in any of the malpractices listed below during the conduct of examination or thereafter, their candidature for this examination will be cancelled and they will be debarred from the examinations of the Commission for the period mentioned below:

<b>S. No.</b>	<b>Type of Malpractice</b>	<b>Debarment period</b>
1	Taking away any Examination related material such as Rough Sheets, Commission Copy of Admission Certificate, Answer Sheet etc. from the examination hall or passing it on to unauthorized persons during the conduct of examination.	2 Years
2	Leaving the Examination Venue uninformed during the Examination	2 Years
3	Misbehaving, intimidating or threatening in any manner with the examination functionaries' i.e. Supervisor, Invigilator, Security Guard or Commission's representatives etc.	3 Years
4	Obstruct the conduct of examination/ instigate other candidates not to take the examination.	3 Years
5	Making statements which are incorrect or false, suppressing material information, submitting fabricated documents, etc.	3 Years
6	Obtaining support/influence for his/her candidature by any irregular or improper means in connection with his/her candidature.	3 Years
7	Possession of Mobile Phone in either 'switched on' or 'switched off' mode.	3 Years
8	Appearing in the same examination more than once in contravention of the rules.	3 Years
9	A candidate who is also working on examination related matters in the same examination.	3 Years
10	Damaging examination related infrastructure/ equipments.	5 Years
11	Appearing in the Exam with forged Admit Card, identity proof, etc.	5 Years
12	Possession of fire arms/weapons during the examination.	5 Years
13	Assault, use of force, causing bodily harm in any manner to the examination functionaries' i.e. Supervisor, Invigilator, Security Guard or Commission's representatives etc.	7 Years
14	Threatening/intimidating examination functionaries with	7 Years

	weapons/fire arms.	
15	Using unfair means in the examination hall like copying from unauthorized sources such as written material on any paper or body parts, etc.	7 Years
16	Possession of Bluetooth Devices, spy cameras, and any other electronic gadgets in the examination hall.	7 Years
17	Impersonate/ Procuring impersonation by any person.	7 Years
18	Taking snapshots, making videos of question papers or examination material, labs, etc.	7 Years
19	Sharing examination terminal through remote desktop softwares/Apps/LAN/VAN, etc.	7 Years
20	Attempt to hack or manipulate examination servers, data and examination systems at any point before, during or after the examination.	7 Years

22.2 The Commission may also report the matter to Police/ Investigating Agencies, as deemed fit. Further, the Commission may also take appropriate action to get the matter examined by the concerned authorities/ forensic experts, etc.

23 **Commission's decision final:** The decision of the Commission in all matters relating to eligibility, acceptance or rejection of the applications, penalty for false information, mode of selection, conduct of examination(s), allotment of examination centres, selection and allotment of posts/organizations to selected candidates will be final and binding on the candidates and no enquiry/correspondence will be entertained in this regard.

24 **Courts' Jurisdiction:** Any dispute in regard to this recruitment will be subject to courts/tribunals having jurisdiction over the place of concerned Regional/Sub-Regional Offices of the Commission where the candidate has appeared for the Computer Based Examination.

25 **Disqualifications:** No person, (a) who has entered into, or contracted a marriage with a person having a spouse living, or (b) who, having a spouse living has entered into, or contracted a marriage with any person shall be eligible for appointment to the service provided that the Central Government may, if satisfied that such marriage is permissible under the personal law applicable to such person and the other party to the marriage and there are other grounds for so doing, exempt any person from the operation of this rule.

26 **Important Instructions to the Candidates:**

(a)	BEFORE APPLYING, CANDIDATES ARE ADVISED TO GO THROUGH THE INSTRUCTIONS GIVEN IN THE NOTICE OF EXAMINATION VERY CAREFULLY. THE NOTICE OF EXAMINATION IS PRINTED BOTH IN ENGLISH AND HINDI. IN CASE OF ANY DISPUTE, THE ENGLISH VERSION WILL PREVAIL.
(b)	CANDIDATES IN THEIR OWN INTEREST SHOULD SUBMIT ONLINE APPLICATIONS MUCH BEFORE THE CLOSING DATE AND NOT WAIT TILL THE LAST DATE TO AVOID THE POSSIBILITY OF DISCONNECTION/INABILITY OR FAILURE TO LOGIN TO THE SSC WEBSITE ON ACCOUNT OF HEAVY LOAD ON THE WEBSITE DURING

	THE CLOSING DAYS.
(c)	The Commission will not undertake detailed scrutiny of applications for the eligibility and other aspects at the time of written examination and, therefore, candidature will be accepted only provisionally. The candidates are advised to go through the requirements of educational qualification, age, physical and medical standards, etc. and satisfy themselves that they are eligible for the post(s). The certificates/documents in support of their Educational Qualifications, Caste/Category, etc. shall be sought at the time of Document Verification by the Indenting/User Departments/Organizations. Candidates may also note that they would be required to submit their certificates/documents of EQs/caste/category, etc. as and when sought by the Commission or the Indenting/User Department/Organization. After scrutiny of the certificates/documents of EQs/caste/category, etc., if any claim made in the application is not substantiated by certificates/documents, the candidature of candidate will be cancelled.
(d)	Candidates seeking reservation benefits available for SC/ST/OBC/EWS/PwD must ensure that they are entitled to such reservation as per eligibility prescribed in the Notice. They should also be in possession of the certificates in the prescribed format in support of their claim.
(e)	Candidates with benchmark physical disability only would be considered as Persons with Disabilities (PwD) and entitled to age-relaxation/reservation for Persons with Disabilities.
(f)	When application is successfully submitted, it will be accepted 'Provisionally'. Candidate should take printout of the application form for their own records. Normally, printout of the online Application Form is not required to be submitted to the Commission.
(g)	The candidates must write their name, date of birth, father's name and mother's name strictly as given in the matriculation certificate, otherwise their candidature may be cancelled at the time of Document Verification / any stage.
(h)	Applications with illegible/blurred Photograph/Signature will be rejected summarily.
(i)	Candidates must fill their correct and active e-mail addresses and mobile number in the online application as correspondence may be made by the Commission through e-mail/SMS.
(j)	Candidates must carry two passport size recent colour photographs and one original Photo ID Proof such as Aadhaar Card/ printout of E-Aadhaar, Driving License, Voter Card, PAN Card, Identity Card issued by University/ College/ Government, Employer ID Card, ESM Discharge Book issued by MoD, or any photo bearing ID card issued by Central/ State Government to the Examination Venue, failing which they will not be allowed to appear for the same. <b>If Photo Identity Card does not have the Date of Birth then the candidate must carry an additional original certificate in proof of their Date of Birth.</b> PwD candidates using the facility of scribes shall also be required to carry required Medical Certificate/Undertaking/Photocopy of the Scribe's Photo ID Proof, as specified.
(k)	In case of fake/fabricated application/registration by misusing any dignitaries name/ photo, such candidate/cyber cafe will be held responsible for the same and liable for suitable legal action under cyber/IT Act.
(l)	All the posts carry All India Service Liability (AISL) i.e. the candidate, on selection, maybe asked to serve anywhere in the country.

(m)	If a candidate scoring more than cut-off marks at any Tier/ stage of the examination is not qualified for the subsequent stage/ final selection due to any reason, he/ she must represent to the concerned Regional/ Sub-Regional Office of the Commission within two months of the declaration of the result or two week prior to the conduct of next stage of the examination, whichever is earlier.
(n)	If a candidate is finally selected and does not receive any correspondence from the Commission or the concerned User Department / Organization within a period of one year after declaration of result, he/she must communicate immediately thereafter with the concerned User Department / Organization.
(o)	Fee payable: Rs 100/- (Rs. one hundred only). Women candidates and candidates belonging to Scheduled Caste (SC), Scheduled Tribe (ST), Persons with Disabilities (PwD) and Ex-Servicemen (ESM) are exempted from payment of fee.
(p)	Only one online application is allowed to be submitted by a candidate for the Examination during normal period for submission of online applications, which does not include the period of 'Window for Application Form Correction'. Therefore, the candidates must exercise due diligence at the time of filling their online Application Forms. In case, more than one application of a candidate with different registration numbers is detected, all the applications will be rejected by the Commission and his candidature for the examination will be cancelled. If a candidate submits multiple applications and appears in the examination (at any stage) more than once, his candidature will be cancelled and he will be debarred from the examinations of the Commission as per rules.
(q)	After the closing date for receipt of online applications, the Commission will provide a period of 1 day to enable candidates to correct/ modify online application parameters, wherein candidates will be allowed to re-submit applications after making requisite corrections/ changes in the onetime registration/ online application data as per their requirement. This facility can be availed by online payment of stipulated correction charges as per details given at <b>para-12</b> of the Notice of Examination. Latest modified application will be treated as the valid one and the previous application(s) submitted by such candidates for the examination will be cancelled.
(r)	Before submission of the corrected/final online application as the case may be, candidates must check that they have filled correct details in each field of the form. After submission of the corrected/ final online application form or expiry of the period of 'Window for Application Form Correction', no change/ correction/ modification will be allowed under any circumstances. Requests received in this regard in any form like Post, Fax, Email, by hand, etc. shall not be entertained by the Commission and will be summarily rejected.
(s)	In the online Application Form, candidates are required to upload the scanned colour passport size photograph in JPEG format (20 KB to 50 KB). The photograph should not be more than three months old from the date of publication of the Notice of Examination. Image dimension of the photograph should be about 3.5 cm (width) x 4.5 cm (height). <b>The photograph should be without cap and spectacles.</b> If the proper photograph is not uploaded by a candidate, his/her candidature will be cancelled. <b>Specimen of photographs which are acceptable/not acceptable is given at Annexure-XVI.</b>
(t)	<b>Special attention is invited to the declaration at the end of the Application Form. Before agreeing to/signing the declaration, the candidates must go through the Application details filled in and the contents of the declaration itself and agree to/sign it only after</b>

<b>satisfying themselves that the information furnished is correct. Any concealment/misrepresentation/misdeclaration shall lead to cancellation of candidature.</b>
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Under Secretary  
Staff Selection Commission (Headquarters)



**Certificate regarding physical limitation in an examinee to write**

This is to certify that, I have examined Mr/Ms/Mrs \_\_\_\_\_(name of the candidate with disability), a person with \_\_\_\_\_(nature and percentage of disability as mentioned in the certificate of disability), S/o / D/o \_\_\_\_\_a resident of \_\_\_\_\_Village/District/State) and to state that he/she has physical limitation which hampers his/her writing capabilities owing to his/her disability.

Signature

Chief Medical Officer/Civil Surgeon/Medical Superintendent of a  
Government health care institution

Name & Designation

Name of Government Hospital/Health Care Centre with Seal

Place:

Date:

**Note:**

Certificate should be given by a specialist of the relevant stream/disability (eg Visual impairment-Ophthalmologist, Locomotor disability-Orthopaedic specialist/PMR)

**Letter of Undertaking for Using Own Scribe**

I \_\_\_\_\_, a candidate with \_\_\_\_\_(name of the disability) appearing for the \_\_\_\_\_ (name of the examination) bearing Roll No \_\_\_\_\_ at \_\_\_\_\_ (name of the centre) in the District \_\_\_\_\_, \_\_\_\_\_(name of the State/ UT) My qualification is \_\_\_\_\_

I do hereby state that \_\_\_\_\_(name of the scribe) will provide the service of scribe/reader/lab assistant for the undersigned for taking the aforesaid examination

I do hereby undertake that his/ her qualification is \_\_\_\_\_. In case, subsequently it is found that his/ her qualification is not as declared by the undersigned and is not one step below my qualification, I shall forfeit my right to the post and claims relating thereto

(Signature of the candidate with Disability)

Place:

Date:

### (Procedure for filling online Application)

The process of filling online application for the examination consists of two parts:

- I. One Time Registration
- II. Filling of online Application for the Examination

#### **Part-I (One-Time Registration)**

1. Please read the instructions given in the Notice of Examination carefully before filling up the online 'Registration Form' and 'Application Form'.
2. Before proceeding with One-Time Registration, keep the following information/ documents ready:
  - a. Mobile Number (to be verified through OTP)
  - b. Email ID (to be verified through OTP).
  - c. Aadhaar Number. If Aadhaar Number is not available, please give one of the following ID Numbers. (You will be required to show the original document at a later stage):
    - i. Voter ID Card
    - ii. PAN
    - iii. Passport
    - iv. Driving License
    - v. School/College ID
    - vi. Employer ID (Govt./PSU/Private)
  - d. Information about the Board, Roll Number and Year of Passing the Matriculation (10<sup>th</sup>) Examination.
  - e. Disability Certificate Number, if you are a Person with Disability.
3. For One-Time Registration, click on 'Register Now' link provided in 'Login' Section on <https://ssc.nic.in>.
4. One-Time Registration process requires filling up of following information:
  - a. Basic details
  - b. Additional and contact details
  - c. Declaration.
5. **For filling up the 'One-Time Registration Form', please follow the following steps:**
  - a. A few critical details (e.g. Aadhaar Number, Name, Father's Name, Mother's Name, Date of Birth etc) are required to be entered twice, in the relevant columns of the Registration Form, for verification purpose and to avoid any mistakes. If there is mismatch between original and verify data column, it will not be accepted and an indication will be given in red text.
  - b. S No-1, provide information about Aadhaar Number/Identity Card and its Number. Any one of these Numbers is required to be given.
  - c. S No-2: Fill your name **exactly** as given in Matriculation (10<sup>th</sup> Class) Certificate. In case, you have made any changes in your name after matriculation, indicate the same at S No-2c and 2d.

- d. S No-3: Fill your father's name **exactly** as given in Matriculation (10<sup>th</sup> Class) Certificate.
- e. S No-4: Fill your mother's name **exactly** as given in Matriculation (10<sup>th</sup> Class) Certificate.
- f. S No-5: Fill your date of birth **exactly** as given in Matriculation (10<sup>th</sup> Class) Certificate.
- g. S No-6: Matriculation (10<sup>th</sup> Class) Examination Details which include:
  - i. Name of Education Board
  - ii. Roll Number
  - iii. Year of passing
- h. S No-7: Gender (Male/Female/Transgender)
- i. S No-8: Level of Educational Qualification (highest).
- j. S No-9: Your Mobile Number. This must be a working mobile number as it will be verified through 'One Time Password' (OTP). It may be noted that any information which the Staff Selection Commission/Delhi Police may like to communicate with you, will be sent on this mobile number only. Your mobile number will also be used for retrieval of password, if required.
- k. S No-10: Your Email ID. This must be a working Email ID as it will be verified through OTP. It may also be noted that any information which the Staff Selection Commission/Delhi Police may like to communicate with you, will be sent on this Email ID only. Your Email ID will also be used for retrieval of password/Registration Number, if required.
- l. Provide detail of State/UT of your Permanent Address.
- m. When the Basic Details provided at S No-1 to 10 are saved, you will be required to confirm your mobile number and email ID. On confirmation, your data will be saved and your Registration Number will be displayed on the screen. Your Registration Number and Password will be provided to you on your mobile number and Email ID.
- n. You have to complete the Registration Process within 14 days failing which your Registration Details saved so far will be deleted.
- o. Login using your Registration Number as username and auto generated password provided to you on your mobile and email. Change your password, when prompted on first login.
- p. After successful password change, you need to login again using your Registration Number and changed password.
- q. On successful login, information about the 'Basic Details' so far filled by you will be displayed. You may edit it, if required or proceed further by clicking on 'Next' button at the bottom to complete your one-time Registration.
- r. S No-11: Provide information about your Category.
- s. S No-12: Provide information about your Nationality

- t. S No-13: Provide information about visible Identification Mark. You may be required to show the above Identification Mark at various stages of examination.
  - u. S No-14: Provide information about disability, if any. Persons with Disabilities (PwD) (Locomotor), Locomotor disability of 40% and above (either one or both leg affected): Yes/No. Provide Disability Certification Number.
  - v. S No: 15 to 18: Provide information about your Permanent and Present Address. Save the data and proceed further to last Part of the Registration Process.
  - w. Save the information provided. Take draft printout and review the information provided thoroughly, before 'Final Submit'.
  - x. Read the 'Declaration' carefully, if you agree with the declaration, click 'I Agree'.
  - y. Upon clicking 'Final Submit' different OTPs will be sent on your mobile number and Email ID. You need to enter one of the two OTPs at designated field to complete the Registration Process.
  - z. After submission of Basic information, if the registration process is not completed within 14 days, your data will be deleted from the system.
6. After completion of registration process, 'Basic Details' can be changed. However, it is advised to the candidates to be cautious while making one time registration.
7. You are again cautioned that name, father's name, mother's name, date of birth, matriculation examination details should be filled exactly as recorded in matriculation certificate. Your candidature may get cancelled in case of incorrect/ wrong information.

**Screenshots of One-time Registration Form****BASIC DETAILS**

**NOTE: Candidates must be cautious while filling up Registration details. Your candidature may get cancelled in case incorrect/ wrong information is furnished.**

1. Do you have Aadhaar ? \*  Yes  No

1a. Aadhaar Number   
Aadhaar Number should be same as mentioned in Aadhaar Card

1b. Verify Aadhaar Number

1c. Type of ID \*    
Type of ID and ID Number to be provided if you don't want to give Aadhaar number

1d. ID Number \*

2a. Name \*   
1. Name should be same as mentioned in Matriculation Certificate  
2. Please enter name without any salutation (i e Shri/ Smt/ Mr/ Mrs/ Ms/ Dr/ Prof)

2b. Verify Name \*

2c. Have you ever changed Name?  Yes  No

2d. New Name / Changed Name

3a. Father's Name \*   
1. Father's Name should be same as mentioned in Matriculation Certificate  
2. Please enter name without any salutation (i e Mr/ Shri/ Late/ Dr/ Prof etc)

3b. Verify Father's Name \*

4a. Mother's Name \*   
1. Mother's Name should be same as mentioned in Matriculation Certificate  
2. Please enter name without any salutation (i e Mrs/ Ms/ Smt/ Late/ Dr/ Prof etc)

4b. Verify Mother's Name \*

5a. Date of Birth (DD/MM/YYYY) \*   
Date of Birth should be same as mentioned in Matriculation Certificate

5b. Verify Date of Birth (DD/MM/YYYY) \*

6. Matriculation (10<sup>th</sup> Class) Examination details :

(i). Education Board \*    
Education Board of Matriculation Examination

(ii). Verify Education Board \*

(iii). Roll Number \*   
1. Roll Number should be same as mentioned in Matriculation Certificate  
2. Only / and - are allowed , Please enter Roll number without any other special character(s)  
3. If Roll Code is given in your Matriculation Certificate then enter "Roll Code - Roll No."

(iv). Verify Roll Number *	<input type="text" value="301739"/>
(v). Year of Passing *	<input type="text" value="2013"/>
(vi). Verify Year of Passing *	<input type="text" value="2013"/>
7a. Gender *	<input checked="" type="radio"/> Male <input type="radio"/> Female <input type="radio"/> Transgender
7b. Verify Gender *	<input checked="" type="radio"/> Male <input type="radio"/> Female <input type="radio"/> Transgender
8. Level of Educational Qualification *	<input type="text" value="Graduation"/>
9a. Mobile Number *	<input type="text" value="8111111111"/>
9b. Verify Mobile Number *	<input type="text" value="8111111111"/>
10a. Email ID *	<input type="text" value="sample123@gmail.com"/>
10b. Verify Email ID *	<input type="text" value="sample123@gmail.com"/>
• State / UT of Permanent Address *	<input type="text" value="Delhi"/>

**ADDITIONAL AND CONTACT DETAILS**

[Edit](#)

11a. Category *	<input checked="" type="radio"/> General <input type="radio"/> EWS <input type="radio"/> OBC <input type="radio"/> ST <input type="radio"/> SC
11b. Verify Category *	<input checked="" type="radio"/> General <input type="radio"/> EWS <input type="radio"/> OBC <input type="radio"/> ST <input type="radio"/> SC
12. Nationality *	<input type="text" value="Citizen of India"/>
13. Identification Marks *	<input type="text" value="MOLE ON RIGHT CHEEK"/>
14a. Are you a Person with Benchmark Disability? *	<input type="radio"/> Yes <input checked="" type="radio"/> No
14b. Type of Disability	<input type="text" value="--Select--"/>
<p><b>NOTE</b>  <b>VH:</b> Blindness and low vision.  <b>HH:</b> Deaf and hard of hearing.  <b>OH:</b> Locomotor disability including cerebral palsy, leprosy cured, dwarfism, acid attack victims and muscular dystrophy.  <b>Others:</b> Autism, intellectual disability, specific learning disability and mental illness, multiple disabilities from amongst persons under the above mentioned clauses including deaf-blindness.</p>	
14c. Disability Certificate Number	<input type="text"/>
15a. Permanent Address *	<input type="text" value="SAMPLE PERMANENT ADDRESS"/>
15b. State/ UT *	<input type="text" value="Punjab"/>

15b. State/ UT \*

15c. District \*

15d. PIN Code \*

16. Is Present Address same as Permanent Address?  Yes  No

17a. Present Address \*

17b. State/ UT \*

17c. District \*

17d. PIN Code \*

18. Contact details for other nationals

**DECLARATION**

**Declaration :** I hereby declare that the information given by me in this form is true, complete and correct to the best of my knowledge and belief. I understand that in the event of any information being found false or incorrect at any stage, my candidature/appointment is liable to be cancelled/terminated.

I Agree.



**Part-II (Online Application Form)**

1. Before proceeding with filling of online application, keep the following data ready:
  - a. Recent scanned colour passport size photograph (not more than three months old from the date of publication of the Notice of Examination) in JPEG format (20 KB to 50 KB). Image dimension of the photograph should be about 3.5 cm (width) x 4.5 cm (height). **The photograph should be without cap and spectacles. Applications with blurred photograph will be rejected. If the proper photograph is not uploaded by a candidate, his candidature will be cancelled. Specimen of photographs which are acceptable/not acceptable is given at Annexure-XVI.**
  - b. Scanned signature in JPEG format (10 to 20 KB). Image dimension of the signature should be about 4.0 cm (width) x 2.0 cm (height). **Applications with illegible/blurred signature will be rejected.**
  - c. Details of qualifying educational qualification like passing year, roll number, percentage/CGPA, name of university, etc.
2. Login to online system through your '**Registration Number**' and password.
3. Click 'Apply' link in 'Junior Engineer (Civil, Mechanical, Electrical and Quantity Surveying & Contracts) Examination 2022' Section under 'Latest Notifications' tab.
4. Information in columns at S No-1 to 14 will be automatically filled from your One-time Registration Data which is non-editable. However, if you want to modify any of One-Time Registration details, click on 'Modify Registration' tab provided at the left hand top corner of your dashboard and make suitable corrections before proceeding further
5. S No-15: Give your preference for Examination Centers. You may choose examination Centers within the same Region. Choice for all the three Centers must be given in the order of preference.
6. S No-16.1 to 16.6: If you are an ex-serviceman, fill up the required information. Wards of servicemen/ex-servicemen are not treated as ex-servicemen.
7. S No-17.1 to 17.4: If you are eligible for availing the facility of scribe as per Para-10.1 and 10.2 of the Notice of examination, provide information about the requirement of scribe.
8. S No-18.1 to 18.2: If you are seeking age relaxation, select appropriate age-relaxation category.
9. S No-19: Select the post you wish to apply.
10. S No-20: Provide information about the qualifying educational qualification.

11. S No-21: Please see Notice of Examination, Para No: 20 and fill up accordingly.
12. S No-22 & 23: Information about your Postal Address and Permanent Address will be automatically filled from the One-time Registration data.
13. Upload your recent photograph (**not more than three months old from the date of publication of the Notice of Examination**) as specified at S. No. 1a above. **Applications with blurred photograph will be rejected. Specimen of photographs acceptable/not acceptable is given at Annexure-XVI. Candidate may refer to the same.**
14. Upload your signature as specified at S. No. 1b above. **Applications with blurred signature will be rejected.**
15. S. No. 25: The photograph uploaded above should not be more than three months old from the date of publication of the Notice of Examination. Click 'Yes', if the photograph uploaded above is not more than three months old from the date of publication of the Notice of Examination.
16. Go through the declaration carefully and click on "I agree" check box, if you accept the same. Fill up captcha code.
17. Proceed to make fee payment if you are not exempted from payment of fee. Preview and verify the information provided by you. **If you want to modify any entry, click on 'Edit/Modify' button and make requisite corrections before proceeding further.** When you are satisfied that the information is correctly filled, preview and verify the information and submit the Application.
18. Proceed to make fee payment if you are not exempted from payment of fee.
19. Fee can be paid online through BHIM UPI, Net Banking, by using Visa, Mastercard, Maestro, RuPay Credit or Debit cards or in cash at SBI Branches by generating SBI Challan.
20. When application is successfully submitted, it will be accepted '**Provisionally**'. Candidates should take printout of the application form for their own records. Printout of the 'Application Form' is normally not required to be submitted to the Staff Selection Commission at any stage. However, you may be required to provide printout of the online application form to address grievances related to online application, if any.

## Screenshots of Online Application Form

Junior Engineer (Civil, Mechanical, Electrical and Quantity Surveying & Contracts) Examination, 2022	
Instructions	
PLEASE BE VERY CAREFUL WHILE FILLING THE APPLICATION FORM	
1. Candidate's Name: (As per the Matriculation Certificate)	<input type="text" value="SAMPLE NAME"/>
2. New / Changed Name:	<input type="text"/>
3. Father's Name:	<input type="text" value="SAMPLE FATHER NAME"/>
4. Mother's Name:	<input type="text" value="SAMPLE MOTHER NAME"/>
5. Date of Birth (DD/MM/YYYY): (As per the Matriculation Certificate)	<input type="text" value="02/01/1999"/>
6. Age as on 01/01/2022:	<input type="text" value="22.11"/>
7. Gender:	<input type="text" value="Male"/>
8. Category:	<input type="text" value="UR"/>
9. Whether Person with Disability (PwD)? :	<input type="text" value="No"/>
9.1. If Yes, Type of Disability:	<input type="text"/>
10. Nationality:	<input type="text" value="Citizen of India"/>
11. Mark of Visible Identification:	<input type="text" value="MOLE ON RIGHT CHEEK"/>
12. Matriculation (10 <sup>th</sup> Class) Examination Board:	<input type="text" value="Central Board of Secondary Education (CBSE)"/>
13. Matriculation (10 <sup>th</sup> Class) Roll No.:	<input type="text" value="301739"/>
14. Matriculation (10 <sup>th</sup> Class) Year of Passing:	<input type="text" value="2013"/>
15. Preference of Examination Centres: *	<input type="text" value="NR-Delhi(2201)"/> <input type="text" value="NR-Alwar(2402)"/> <input type="text" value="NR-Ajmer(2401)"/>
<a href="#">Please see Para - 13.1 of the Notice</a> 16.1. Whether you are an Ex-Servicemen (ESM) or serving in the Armed Forces? : *	<input type="radio"/> Yes <input checked="" type="radio"/> No
16.2. Date of Joining the Armed Forces (DD/MM/YYYY):	<input type="text"/>
16.3. Date of Discharge/ Likely Date of Discharge from the Armed Forces (DD/MM/YYYY):	<input type="text"/>
16.4. Length of Service in the Armed Forces:	<input type="text"/>
16.5. Have you already joined a civil post by availing benefit of reservation for Ex-Serviceman (ESM) :	<input type="radio"/> Yes <input type="radio"/> No
<a href="#">Please refer to the Notice of Examination, Para-7.4</a> 16.6. Date of Joining to Civil Post (DD/MM/YYYY):	<input type="text"/>

17. Whether suffering from Cerebral-Palsy:  Yes  No

17.1. Do you have a physical limitation to write and Scribe is required to write on your behalf (Certificate to this effect from the Chief Medical Officer/ Civil Surgeon & Medical Superintendent of a Government Health Care institution as per Notice of the Examination, would be required at the time of Examination)? :  Yes  No

17.2. Whether scribe is required?  Yes  No

[Please see Para - 10 of the Notice](#)

17.3. Will you make your own arrangement of Scribe?  Yes  No

17.4. If Scribe is to be arranged by SSC, then indicate medium:

18.1. Whether seeking Age Relaxation? : \*  Yes  No

18.2. If Yes, indicate code:

[Please see Para - 7.2 of the Notice](#)

19. Post(s) Applying for: \*

**Confirm Post(s) Applying for:**

20. Qualification Details: \*

[Please refer to the Notice of Examination, Annexure-XIII & Annexure-XIV](#)

Qualifying Diploma/ Degree	Subject/ Stream
<input type="text" value="B. Tech (14)"/>	<input type="text" value="Electrical Engineering (17)"/>

Status	Passing Year	State/ UT of Board/ University	Name of Board/ University	Roll No	Percentage	CGPA
<input type="text" value="Appearing"/>	<input type="text" value="--Select Year"/>	<input type="text" value="Delhi"/>	<input type="text" value="NETAJI SUBHAS UNIV"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

21. Do you want to make your personal information available for accessing job opportunities in terms of DoP&T's OM No.39020/11/2016-E.stt.(P) dated 21/06/2016? \*  Yes  No

[Please see Para - 20 of the Notice](#)

22. Correspondence Address: Sample Permanent Address

State: Punjab

District: Patiala

Pin: 140401

23. Permanent Address: Sample Permanent Address

State: Punjab

Pin : 140401

Mobile Number: 8111111111

Email: sample123@gmail.com

24. Contact Details for Other Nationals:

### Photograph And Signature

Upload a photograph taken on or after  
12-May-2022\*

Allowed File Size: 20 KB to 50 KB

Format: JPEG/ JPG

Image Size: About 3.5 cm (width) x 4.5  
cm (height)

Choose File SamplePhot...hwithdate.jpg



Upload Signature \*

Allowed File Size: 10 KB to 20 KB

Format: JPEG/ JPG

Image Size: About 4.0 cm (width) x 2.0  
cm (height)

Choose File SampleSignature.jpg

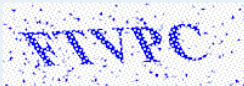


25. Whether the photograph has been taken on or after 12-May-2022?:  Yes  No

### Declaration

1. I have read the Notice of Examination and accept all the Terms & Conditions mentioned therein.
2. I hereby declare that all the statements made in this application are true, complete and correct to the best of my knowledge and belief. I understand that in the event of any information being found suppressed/ false or incorrect at any stage or ineligibility being detected before or after the Examination, my candidature/ appointment is liable to be cancelled. I am willing to serve anywhere in India.
3. I declare that the photograph uploaded in the Application Form has been taken on or after the stipulated dated.

I Agree



Try Another

FTVPC

Preview

Reset

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**Annexure-V**

FORM OF CERTIFICATE FOR SERVING DEFENCE PERSONNEL

I hereby certify that, according to the information available with me (No)  
\_\_\_\_\_ (Rank) \_\_\_\_\_ (Name) \_\_\_\_\_ is due to  
complete the specified term of his engagement with the Armed Forces on the (Date)  
\_\_\_\_\_

(Signature of Commanding Officer)  
Office Seal

Place:

Date:

UNDERTAKING TO BE GIVEN BY THE EX-SERVICEMEN

I ....., bearing Roll No....., appearing for the Document Verification of the ..... Examination, 20....., do hereby undertake that:

- (a) I am entitled to the benefits admissible to Ex-Servicemen in terms of the Ex-Servicemen Re-employment in Central Civil Services and Posts Rules, 1979, as amended from time to time.
- (b) I have not joined the Government job on civil side (including Public Sector Undertakings, Autonomous Bodies/Statutory Bodies, Nationalized Banks, etc.) in Group ‘C’ and ‘D’ posts on regular basis after availing of the benefits of reservation given to ex-serviceman for re-employment; or
- (c) I have availed the benefit of reservation as ex-serviceman for securing Government job on civil side. I have joined as .....on..... in the office of ..... I hereby undertake that I have submitted the self-declaration/ undertaking to my current employer about date wise detail of the application for the above mentioned examination for which I had applied for before joining the present civil employment; or
- (d) I have availed the benefit of reservation as ex-serviceman for securing Government job on civil side. I have joined as .....on..... in the office of ..... Therefore, I am eligible for age-relaxation only;

I hereby declare that the above statements are true, complete and correct to the best of my knowledge and belief. I understand that in the event of any information being found false or incorrect at any stage, my candidature/ appointment is liable to be cancelled/ terminated.

Signature: .....  
Name: .....  
Roll Number: .....  
Date: .....  
Date of appointment in Armed Forces: .....  
Date of Discharge: .....  
Last Unit/ Corps: .....  
Mobile Number: .....  
Email ID: .....

**FORMAT FOR SC/ST CERTIFICATE**

**The form of certificate to be produced by Scheduled Castes and Scheduled Tribes candidates applying for appointment to posts under Government of India**

This is to certify that Shri/ Shrimati /Kumari\* \_\_\_\_\_ son/daughter of \_\_\_\_\_ of \_\_\_\_\_ village/town/\*  
\_\_\_\_\_ District/Division\* \_\_\_\_\_ of the State/Union Territory\*  
\_\_\_\_\_ belongs to the \_\_\_\_\_ caste/ Tribes\* which is recognized as a Scheduled Castes/Scheduled Tribes\* under:-

- @The Constitution (Scheduled Castes) Order, 1950
- @The Constitution (Scheduled Tribes) Order, 1950
- @The Constitution (Scheduled Castes) Union Territories Order, 1951
- @The Constitution (Scheduled Tribes) Union Territories Order, 1951

[As amended by the Scheduled Castes and Scheduled Tribes Lists (Modification) order, 1956, the Bombay Reorganization Act, 1960 & the Punjab Reorganization Act, 1966, the State of Himachal Pradesh Act 1970, the North-Eastern Area (Reorganization) Act, 1971; the Scheduled Castes and Scheduled Tribes Order (Amendment) Act, 1976, the State of Mizoram Act, 1986, the State of Arunachal Pradesh Act, 1986 and the Goa, Daman and Diu (Reorganisation) Act, 1987.]

- @The Constitution (Jammu & Kashmir) Scheduled Castes Order, 1956
- @The Constitution (Andaman and Nicobar Islands) Scheduled Tribes Order, 1959 as amended by the Scheduled Castes and Scheduled Tribes order (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 & Diu) Scheduled Castes Order, 1968
- @The Constitution (Goa, Daman & 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 1991
- @The Constitution (ST) orders (Second Amendment) Act, 1991
- @The Scheduled Castes and Scheduled Tribes Orders (Amendment) Act, 2002
- @The Constitution (Scheduled Castes) Order (Amendment) Act, 2002
- @The Constitution (Scheduled Castes and Scheduled Tribes) Orders (Amendment) Act, 2002
- @The Constitution (Scheduled Castes) Orders (Second Amendment) Act, 2002



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

This certificate is issued on the basis of the Scheduled Castes/ Scheduled Tribes certificate issued to Shri/Shrimati\* \_\_\_\_\_ Father/mother of Shri/Srimati/Kumari\* \_\_\_\_\_ of village/town\* \_\_\_\_\_ in District/Division\* \_\_\_\_\_ of the State/Union Territory\* \_\_\_\_\_ who belong to the Caste/Tribe\* which is recognized as a Scheduled Caste/Scheduled Tribe in the State/Union Territory\* of \_\_\_\_\_ issued by the \_\_\_\_\_ dated \_\_\_\_\_

%3. Shri/Shrimati/Kumari\* \_\_\_\_\_ and /or \* his/her family ordinarily reside(s) in village/ town\* \_\_\_\_\_ of \_\_\_\_\_ District/ Division\* of the State/ Union Territory\* of \_\_\_\_\_.

Signature \_\_\_\_\_

\*\*Designation \_\_\_\_\_

(with seal of office)  
State/ Union Territory\*

Place: \_\_\_\_\_

Date: \_\_\_\_\_

- \*Please delete the words which are not applicable
- @ Please quote specific presidential order
- % Delete the paragraph which is not applicable.

**NOTE:** The term ordinarily reside(s) used here will have the same meaning as in section 20 of the Representation of the People Act, 1950.

\*\* List of authorities empowered to issue Scheduled Caste/Scheduled Tribe Certificates:

- (i) District Magistrate/ Additional District Magistrate/ Collector/ Deputy Commissioner/ Additional Deputy Commissioner/ Dy. Collector/ Ist Class Stipendiary Magistrate/ +Sub-Divisional Magistrate/ Taluka Magistrate/ Executive Magistrate/ Extra Assistant Commissioner.  
+ ( not below of the rank of 1<sup>st</sup> Class Stipendiary Magistrate).
- (ii) Chief Presidency Magistrate/ Additional Chief Presidency Magistrate/ Presidency Magistrate.
- (iii) Revenue Officers not below the rank of Tehsildar.
- (iv) Sub-Divisional Officers of the area where the candidate and/or his family normally resides.
- (v) Administrator/ Secretary to Administrator/ Development Officer (Lakshadweep).

## Annexure-VIII

(FORMAT OF CERTIFICATE TO BE PRODUCED BY OTHER BACKWARD CLASSES  
APPLYING FOR APPOINTMENT TO POSTS UNDER THE GOVERNMENT OF INDIA)

This is to certify that Shri / Smt. / Kumari \_\_\_\_\_ son/daughter  
of \_\_\_\_\_ of village/town \_\_\_\_\_ in  
District/Division \_\_\_\_\_ in the State/Union  
Territory \_\_\_\_\_ belongs to the \_\_\_\_\_ Community which is recognized as  
a backward class under the Government of India, Ministry of Social Justice and Empowerment's  
Resolution No. \_\_\_\_\_ dated \_\_\_\_\_\*.

Shri/Smt./Kumari -----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  
Scheduled to the Government of India, Department of Personnel & Training O.M. No. 36012/22/93-Estt  
(SCT) dated 8.9.1993, O.M. No. 36033/3/2004-Estt. (Res) dated 9<sup>th</sup> March, 2004, O.M. No.36033/3/2004-  
Estt. (Res) dated 14<sup>th</sup> October, 2008 and O.M. No. 36033/1/2013-Estt. (Res) dated 27<sup>th</sup> May, 2013\*\*.

Signature-----  
Designation-----§

Dated:

Seal

---

\*- The authority issuing the certificate may have to mention the details of Resolution of  
Government of India, in which the caste of the candidate's is mentioned as OBC.

\*\* - As amended from time to time.

§ - List of Authorities empowered to issue Other Backward Classes certificate will be the same as  
those empowered to issue Scheduled caste/ Scheduled Tribe Certificates.

Note: The term "Ordinarily" used here will have the same meaning as in Section 20 of the  
Representation of the People Act, 1950.

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

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

Certificate No. \_\_\_\_\_

Date \_\_\_\_\_

**VALID FOR THE YEAR \_\_\_\_\_**

This is to certify that Shri/Smt./Kumari \_\_\_\_\_ son/daughter/wife of \_\_\_\_\_ permanent resident of \_\_\_\_\_, Village/Street \_\_\_\_\_ PostOffice \_\_\_\_\_ District \_\_\_\_\_ in the State/ Union Territory \_\_\_\_\_ Pin Code \_\_\_\_\_ Whose photograph is 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 Scheduled Caste, Scheduled Tribe and Other Backward Classes (Central List).

Signature with seal of Office \_\_\_\_\_

Name \_\_\_\_\_

Designation \_\_\_\_\_

Recent Passport size attested photograph of the applicant
---

\*Note 1: Income covered all sources i.e. salary, agriculture, business, profession etc.

\*\* Note 2: The term 'Family' for this purpose include the person, who seeks benefit of reservation, his/ her parents and siblings below the age of 18 years as also his/her spouse and children below the age of 18 years.

\*\*\*Note 3: 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.

**Annexure-X**

Form-V

Certificate of Disability

(In cases of amputation or complete permanent paralysis of limbs or dwarfism and in case of blindness) [See rule 18(1)]

(Name and Address of the Medical Authority issuing the Certificate)

Recent passport size  
attested photograph  
(Showing face only) of  
the person with disability

Certificate No

Date:

This is to certify that I have carefully examined  
Shri/Smt/Kum \_\_\_\_\_ son/wife/daughter of  
Shri \_\_\_\_\_ Date of Birth (DD/MM/YY) \_\_\_\_\_ Age \_\_\_\_\_  
years, male/female \_\_\_\_\_ registration No \_\_\_\_\_ permanent  
resident of House No \_\_\_\_\_ Ward/Village/Street \_\_\_\_\_ Post  
Office \_\_\_\_\_ District \_\_\_\_\_ State \_\_\_\_\_, whose  
photograph is affixed above, and am satisfied that:

(A) he/she is a case of:

- locomotor disability
- dwarfism
- blindness

(Please tick as applicable)

(B) the diagnosis in his/her case is \_\_\_\_\_

(C) he/she has \_\_\_\_\_ % (in figure) \_\_\_\_\_ percent (in words)  
permanent locomotor disability/dwarfism/blindness in relation to his/her  
\_\_\_\_\_ (part of body) as per guidelines ( .....number and date of issue of  
the guidelines to be specified)

2 The applicant has submitted the following document as proof of residence:-

Nature of Document	Date of Issue	Details of authority issuing certificate

(Signature and Seal of Authorised Signatory of notified Medical Authority)

Signature/thumb impression of the person  
in whose favour certificate of disability is issued

Form - VI  
 Certificate of Disability  
 (In cases of multiple disabilities)  
 [See rule 18(1)]

(Name and Address of the Medical Authority issuing the Certificate)

Recent passport size  
 attested photograph  
 (Showing face only) of  
 the person with  
 disability

Certificate No \_\_\_\_\_

Date: \_\_\_\_\_

This is to certify that we have carefully examined  
 Shri/Smt/Kum \_\_\_\_\_ son/wife/daughter of  
 Shri \_\_\_\_\_ Date of Birth  
 (DD/MM/YY) \_\_\_\_\_ Age \_\_\_\_\_ years, male/female \_\_\_\_\_  
 Registration No \_\_\_\_\_ permanent resident of House No \_\_\_\_\_  
 Ward/Village/Street \_\_\_\_\_ Post Office \_\_\_\_\_ District \_\_\_\_\_  
 State \_\_\_\_\_, whose photograph is affixed above, and am satisfied that:  
 (A) he/she is a case of Multiple Disability His/her extent of permanent physical  
 impairment/disability has been evaluated as per guidelines (.....number  
 and date of issue of the guidelines to be specified) for the disabilities ticked  
 below, and is shown against the relevant disability in the table below:

S No	Disability	Affected part of body	Diagnosis	Permanent physical impairment/mental disability (in %)
1.	Locomotor disability	@		
2.	Muscular Dystrophy			
3.	Leprosy cured			
4.	Dwarfism			
5.	Cerebral Palsy			
6.	Acid attack Victim			
7.	Low vision	#		
8.	Blindness	#		
9.	Deaf	£		
10	Hard of Hearing	£		
11	Speech and Language disability			
12	Intellectual Disability			
13	Specific Learning Disability			
14	Autism Spectrum Disorder			
15	Mental illness			
16	Chronic Neurological			

	Conditions			
17	Multiple sclerosis			
18	Parkinson's disease			
19	Haemophilia			
20	Thalassemia			
21	Sickle Cell disease			

(B) In the light of the above, his/her over all permanent physical impairment as per guidelines (.....number and date of issue of the guidelines to be specified), is as follows :

In figures : - ----- percent

In words :- -----  
percent

2 This condition is progressive/non-progressive/likely to improve/not likely to improve

3 Reassessment of disability is :

(i) not necessary,

or

(ii) is recommended/after    years    months, and therefore this certificate shall be valid till -----    -----    -----

(DD)    (MM)    (YY)

@ eg Left/right/both arms/legs

# eg Single eye

£ eg Left/Right/both ears

4 The applicant has submitted the following document as proof of residence:

Nature of document	Date of issue	Details of authority issuing certificate

5 Signature and seal of the Medical Authority

Name and Seal of Member	Name and Seal of Member	Name and Seal of the Chairperson

Signature/thumb impression of the person in whose favour certificate of disability is issued

## Annexure – XII

Form – VII  
**Certificate of Disability**  
(In cases other than those mentioned in Forms V and VI)  
(Name and Address of the Medical Authority issuing the Certificate)  
(See rule 18(1))

Recent passport size  
attested photograph  
(Showing face only) of the  
person with disability

Certificate No \_\_\_\_\_ Date: \_\_\_\_\_  
This is to certify that I have carefully examined  
Shri/Smt/Kum \_\_\_\_\_ son/wife/daughter of  
Shri \_\_\_\_\_ Date of Birth (DD/MM/YY) \_\_\_\_\_  
\_\_\_\_\_ Age \_\_\_\_\_ years, male/female \_\_\_\_\_ Registration No  
\_\_\_\_\_ permanent resident of House No \_\_\_\_\_  
Ward/Village/Street \_\_\_\_\_ Post Office \_\_\_\_\_ District  
\_\_\_\_\_ State \_\_\_\_\_, whose photograph is affixed above,  
and am satisfied that he/she is a case of \_\_\_\_\_  
disability His/her extent of percentage physical impairment/disability has been  
evaluated as per guidelines (.....number and date of issue of the guidelines to  
be specified) and is shown against the relevant disability in the table below:

S No	Disability	Affected part of body	Diagnosis	Permanent physical impairment/mental disability (in %)
1.	Locomotor disability	@		
2.	Muscular Dystrophy			
3.	Leprosy cured			
4.	Cerebral Palsy			
5.	Acid attack Victim			
6.	Low vision	#		
7.	Deaf	€		
8.	Hard of Hearing	€		
9.	Speech and Language disability			
10.	Intellectual Disability			
11.	Specific Learning Disability			
12.	Autism Spectrum Disorder			
13.	Mental illness			
14.	Chronic Neurological Conditions			
15.	Multiple sclerosis			
16.	Parkinson's disease			
17.	Haemophilia			

18.	Thalassemia			
19.	Sickle Cell disease			

(Please strike out the disabilities which are not applicable)

2 The above condition is progressive/non-progressive/likely to improve/not likely to improve

3 Reassessment of disability is:

(i) not necessary, or

(ii) is recommended/after \_\_\_\_\_ years \_\_\_\_\_ months, and therefore this certificate shall be valid till (DD/MM/YY) \_\_\_\_ \_\_\_\_ \_\_\_\_

@ - eg Left/Right/both arms/legs

# - eg Single eye/both eyes

€ - eg Left/Right/both ears

4 The applicant has submitted the following document as proof of residence:

Nature of document	Date of issue	Details of authority issuing certificate

(Authorised Signatory of notified Medical Authority)  
(Name and Seal)

Countersigned  
{Countersignature and seal of the  
Chief Medical Officer/Medical Superintendent/  
Head of Government Hospital, in case the  
Certificate is issued by a medical authority who is  
not a Government servant (with seal)}

Signature/thumb impression of the person in  
whose favour certificate of disability is issued

Note: In case this certificate is issued by a medical authority who is not a Government servant, it shall be valid only if countersigned by the Chief Medical Officer of the District



## Annexure-XIII

### Educational Qualification

Diploma
B.E.
B.Tech.
AMIE (Part A & Part B)
BSc (Engg.)
M.E.
M. Tech.
M. Sc (Engg.)

## Annexure-XIV

### Subject Code for Educational Qualification

<b>Stream/ Subject of Educational Qualification</b>
Civil Engineering
Electrical Engineering
Mechanical Engineering
Automobile Engineering

### Physical Efficiency Test, Physical and Medical Standard for the Posts of Junior Engineers in Border Roads Organization (BRO)

1 **Physical Efficiency Test**

(i) Criteria for Physical Efficiency Tests are placed as '**Schedule-I**' of the Notification. The Physical Efficiency Tests will be conducted at GREF Centre or respective Recruitment Centre as applicable, by a Board of Officers, detailed by the Headquarters, Director General Border Roads.

2 **Physical Standards** Region wise requirement of Physical Standards of personnel for recruitment in GREF (Border Roads Organization) is placed as '**Schedule-II**' of the Notification.

3 (A) **Medical Standards** The specified Medical Standards are requirement for recruitment of candidates for their service in GREF (BRO) as per their job profile, charter of duties and anticipated deployment, including extreme remote areas, high altitude areas and difficult areas of hilly terrain etc. Medical Standards have been specified in '**Schedule-III**' of the Notification.

(B) **Medical Examination & Medical Tests:** Medical examination and medical tests will be carried out as per guidelines of this Notification for each provisionally selected candidate. The Medical Examination will be carried out by a Medical Board nominated by HQ DGBR. The guidelines to be followed for conduct of Medical Examination and the procedure for declaring candidates as Temporary or Permanent UNFIT are enumerated in succeeding sub-paras:

(i) After detailed checking of all documents, Officer-In-Charge Recruiting Section will handover medical papers (duly affixed with passport size photograph) of selected candidates to Medical Board of respective Recruitment Centre, including GREF Centre, and the candidates will report as per schedule decided. Medical examination of provisionally selected candidates will be carried out by two Medical Officers at each Recruitment Centre including GREF Centre.

(ii) Recruitment Medical Board will examine the medical fitness of the candidates as per guidelines of this Notification.

(iii) Candidates found medically fit or unfit will be informed of their medical result by the **Medical Board** themselves so that the candidates are clear about their position.

(iv) Where the medical officer needs the opinion of a Specialist, the case will be referred to Military Hospital or any service/Army Hospitals in proximity of **respective Recruitment Centre or GREF Centre** Based on the day of the OPD of concerned Specialist, doctor would personally brief the candidate about the conduct of medical examination at Military Hospital and subsequent procedure.

(v) Medical papers in respect of fit and unfit candidates will be given to Recruiting Section/Mobile Regional Recruitment Team by MI Room after completion of medical examination preferably on the same day of medical examination but not later than 5 days from the date of examination.

(vi) Details about cases referred to Military Hospitals or any Service/Army Hospitals will also be informed by Medical Board to Recruiting Section simultaneously.

(vii) Referred cases returned by Medical Specialist duly reviewed by concerned Specialist will be disposed of by Regimental Medical Officer expeditiously according to the remarks of Specialist and Recruiting Section be informed simultaneously by Regimental Medical Officer.

(viii) **Temporarily Unfit:** Candidates declared temporarily UNFIT will be divided in two categories:

(a) **Temporarily Unfit due to Medical Reasons:** Candidates who are declared Temporary UNFIT due to medical reasons will be informed of their disability in writing by Medical Board and Officer-In-Charge Recruiting or Board of Officer or Mobile Regional Recruitment Team. Such candidates have a right to appeal against the medical examination conducted by the Recruitment Centre Medical Board and such appeal should be made within the period of 60 days from the date of being declared temporarily unfit initially by the Medical Board of Recruitment Centre. Such candidates should report for medical examination by Specialist 05 (five) days in advance with an appeal and will be referred to concerned Specialist of nearest Military Hospital/Service Hospital on Review Certificate in duplicate. Such candidates will not be required to deposit Rs 40/- as fees for re-medical examination. If such candidates are found UNFIT again on review, no further chance will be given for re-medical examination and their candidature shall stand cancelled automatically. After re-medical examination, if candidates are found FIT, the whole process of induction shall be completed within a period of six

months from the date of initial medical examination. In case induction is not completed within a period of six months from the date of initial medical examination, candidature of such a candidate for recruitment shall stand cancelled automatically, where delay is due to acts attributable to the candidate himself.

(b) **Temporarily Unfit for being Below Physical Standards:** Candidates declared Temporary UNFIT due to physical standards will also be informed of their disability or shortcoming in writing by the Medical Board and Officer-In-Charge Recruiting or Board of Officer or Mobile Regional Recruitment Team. Candidates protesting in writing against Physical measurements will be once again measured by Medical Board of Recruitment Centre in the presence of Commandant or Officer-In-Charge Recruiting in case Medical Examination is carried out at GREF Centre and in the presence of Board of Officers in case it is carried out at Mobile Regional Recruitment Team Centre within 24 hrs of the Medical Examination. Candidates declared Temporary UNFIT for being Below Physical Standards in weight or Chest measurement only will be given a reasonable time not exceeding two months from the date of initial Medical Examination for attaining the desired standards. After re-measurement, if candidate is found FIT the whole process of induction shall be completed within a period of six months from the date of initial medical examination. In case induction is not completed within a period of six months from the date of initial medical examination, candidature of such a candidate for recruitment shall stand cancelled automatically, where delay is due to acts attributable to the candidate himself.

(ix) **Permanently Unfit:** Candidates declared Permanent UNFIT also will be divided in two categories:

(a) **Permanently Unfit due to medical reasons:** Candidates who are declared Permanent UNFIT by the Medical Board will be informed of their disability in writing by the Medical Board and Officer-In-Charge Recruiting or Board of Officers. Such candidates have a right to appeal against the present medical examination within a period of 60 days of their being declared permanently unfit. In case such candidates should report at GREF Centre or Recruitment Zone 05 (Five) days in advance with an appeal for re-medical examination, the Medical Board will refer such candidates to the nearest service hospital on Review certificate in duplicate. Such candidates will be required to deposit a sum of Rs 40/- in

Govt. treasury at SBI before the re-medical examination by the service Specialist is done. All such cases which are declared UNFIT again on review by the concerned Specialist, will not be given any further chance for re-medical Examination/Review and their candidature shall stand cancelled automatically. After re-medical examination, if candidates are found FIT, the whole process of induction shall be completed within a period of six months from the date of initial medical examination. In case induction is not completed within a period of six months from the date of initial medical examination, candidature of such a candidate for recruitment shall stand cancelled automatically, where delay is due to acts attributable to the candidate himself.

(b) **Permanently Unfit for being Below Physical Standards:** For candidates declared Permanent UNFIT by Medical Board due to being below physical standards with respect to height, no appeal can be made against physical measurements. However candidates protesting against physical measurements will be once again measured by Medical Board in presence of Officer-In-Charge Recruiting or Commandant GREF Centre or Board of Officers or Mobile Regional Recruitment Team (MRRT) as the case may be on the very same day.

(x) **Visual standards:** Visual acuity not less than 6/12 each eye or Right eye 6/6, Left 6/24. Corrective spectacles are permitted during the visual test. Unaided vision in case of corrected vision will not be below 6/60 in each eye and on correction will be same as laid down for other recruits.

(xi) **Surgery:** Any candidate who have recently undergone abdominal surgery (e.g.: in Hernia, Muscle defect, Nephrolithotomy, Cholelithiasis, Cholecystotomy) are liable to be made Unfit for one year as per existing rules. However, the provision of medical appeal for permanent unfit cases remains the same i.e. within 2 months. In such cases same criterion as for eye surgery cases should be followed as above.

(C) **Medical Fitness:** Notwithstanding anything contained in these rules, only those persons who are medically fit shall be eligible for appointment under the provisions of these rules.

(i) Border Roads Organisation is a Central Govt. Organisation with all India transferable liabilities. BRO is governed by Central Civil Services Rules. However, certain provisions of Army Act-1950 are also applicable to members of the Force.

(ii) The final selection of the candidates selected by Staff Selection Commission and GREF Centre will be subject to pass the Medical fitness test. Medical Board detailed by Headquarters Director General Border Roads will carry out the medical fitness test of the candidates declared selected by SSC and GREF Centre.

(iii) Candidates declared medically 'FIT' by the Medical Board, will be inducted in General Reserve Engineer Force (BRO) subject to fulfillment of all other criteria and have to undergo initial training at GREF Centre, Dighi Camp, Pune-15.

(iv) After imparting training at GREF Centre, they will be posted anywhere in India as per available vacancies.

4 **Cancellation of candidature:** If any, candidate is absent on the date of reporting for Medical Examination or during Medical Examination or does not report for Medical Review within prescribed time limit, his candidature shall be cancelled automatically. No representation/appeal in this regard will be entertained by the department.

5 **Power to relax rules:** Where the Central Government is of the opinion that it is necessary or expedient so to do, it may, by order and for reason to be recorded in writing, relax any of the provisions of these rules with respect to any class or category of persons.

6 **Saving:** Nothing in these rules shall effect reservation, relaxation of age-limit and other concessions required to be provided for the Scheduled Castes, the Scheduled Tribes, Ex-serviceman and other special categories of persons in accordance with the orders issued by the Central Government from time to time in this regard.

**PHYSICAL EFFICIENCY TEST (FOR GROUP 'B' NON-GAZETTED POSTS)**

<b>S No</b>	<b>ACTIVITY</b>	<b>MAXIMUM MARKS</b>	<b>TIME AVAILABLE</b>
1.	<b>ONE MILE RUN</b>	<b>ONLY PASSING THE TEST IS MANDATORY</b>	<b>10 MINUTES</b>

**NOTE :(i) ONE MILE RUN TO BE COMPLETED WITHIN THE SPECIFIED TIME.**

**(ii) CANDIDATES QUALIFYING THROUGH STAFF SELECTION COMMISSION WILL HAVE TO MANDATORILY PASS THE TEST IN ONE MILE RUN TO BE HELD AT GREF CENTRE, PUNE TO UNDERGO FURTHER MEDICAL EXAMINATION.**



**REGION-WISE PHYSICAL STANDARDS OF PERSONNEL**

S/ No	Region	States/Region included	Physical Standards		
			Minimum Height	Chest	Minimum Weight
(a)	Western Himalayan	J&K, Himachal Pradesh, Punjab Hills (Area South and west of the Inter State Border between Himachal Pradesh and Punjab and North and East of Road of MukerianHoshiarpur, Garh Shankar, Ropar and Chandigarh), Uttarakhand	158 Cms	Minimum 75 Cm (Unexpanded) and expansion by 5 Cm	47.5 Kgs
(b)	Eastern Himalayan Region	Sikkim, Nagaland, Arunachal Pradesh, Manipur, Tripura, Mizoram, Meghalaya, Assam & Hill region of West Bengal (Darjeeling and Kalimpong districts and Andaman Nicobar)	152 Cms	Minimum 75 Cm (Unexpanded) and expansion by 5 Cm	47.5 Kgs
(c)	West Plain Region	Punjab, Haryana, Chandigarh, Delhi, Rajasthan, Western UP	162.5 Cms	Minimum 76 Cm (Unexpanded) and expansion by 5 Cm	50 Kgs
(d)	Eastern Plain	Eastern UP, Bihar, West Bengal & Orissa and Jharkhand	157 Cms	Minimum 75 Cm (Unexpanded) and expansion by 5 Cm	50 Kgs
(e)	Central Region	Gujrat, Maharastra and Madhya Pradesh, Dadar Nagar & Haveli, Daman & Diu and Chaattisgarh	157 Cms	Minimum 75 Cm (Unexpanded) and expansion by 5 Cm	50 Kgs
(f)	Southern Region	Andhra Pradesh, Karnataka, Tamil Nadu, Kerala, Goa and Pondicherry, Telangana	157 Cms	Minimum 75 Cm (Unexpanded) and expansion by 5 Cm	50 kgs
(g)	Relaxation to sons of serving/Ex-GREF personnel)		2 Cms	1 Cm	2 Kgs
(h)	Relaxation in DD cases (this will be applicable to own son adopted son and not any other relative		2 Cms	1 Cm	2 Kgs
(j)	Gorkhas (Indian Domicile)		152 Cms	Minimum 75 Cm (Unexpanded) and expansion by 5 Cm	47.5 Kgs

**MEDICAL STANDARDS OF RECRUITMENTS FOR GREF**

**General**

1 Every recruit must be sufficiently intelligent, free from nervous instability and be in possession of sound health. He shall have no constitutional or acquired disability as may in the opinion of Recruiting Medical Officer render him unfit for duties, in the organization, particularly at high altitude and hard areas.

**General examination**

2 It is absolutely essential in all cases to have the recruits stripped while carrying out medical examination. Due regard be paid to privacy and decency. It is not sufficient that the clothing be only partially removed. An underwear may be permitted except when the examination is being carried out involving private parts. Every part of the body must be examined and if a recruit does not submit to this even after persuasion, he will be rejected. Permanent body tattoos are only permitted on inner face of forearms i.e. from inside of elbow to the wrist and on the reverse side of palm/back (dorsal) side of hand. However, in case of an obscene, vulgar or objectionable tattoo, the DDG (Pers)/Comdt GREF Centre will take a final decision on acceptability/unacceptability of such tattoo. The decision of the DDG (Pers)/ Comdt GREF Centre in the matter shall be final. Permanent body tattoos on any other part of the body is not acceptable and candidate will be barred from further screening.

**Responsibility for physical fitness**

3 The examining Medical Board is responsible for checking the physical fitness of the recruits, the likelihood of their physical development and for their identification marks. The Board will also enter on the enrolment form any minor defects insufficient to cause rejection. In the case of fit recruits the Board will make the necessary entry on the enrolment form, the wording used being Fit-category GREF-I and return it to the enrolling officer. The signature of the examining Medical Officer on the enrolment form will be accepted as equivalent to a declaration that he has personally examined the recruit in question according to the existing instructions and that the recruit has no blemish or defect except those noted on the enrolment form. Remarks relating to any defects in the recruit will be endorsed in the medical examiner's own handwriting. When there are no distinctive marks this must be stated.

**Medical History Sheet GREF/MED/2A**

4 This is a document of great importance which is linked to claims for disability pension on soldier's discharge from the service Medical items in table No 1 of GREF/MED/2A will be completed by the Medical Board GREF/MED/2A.

5 Any failure of officers concerned to give attention to the preparation and maintenance of these documents, and inaccuracy in or insufficiency of the entries therein may cause considerable delay, much expense and grave injustice to the person recruited. Medical Officers will, therefore, take every care to ensure that all necessary entries are carefully and accurately made at the time of examination.

6 Marks and small defects are to be noted concisely and clearly in the space allotted for the purpose in order to facilitate the men's future identification. Special attention should always be drawn to any defects which may influence decision on possible claims for pension in the future.

## **RULES GOVERNING MEDICAL INSPECTION OF CANDIDATES IN GREF**

### **Principal points in Medical Examination of Candidates**

7 Principle points in medical examination of recruits. In the inspection of candidates the principle points to be attended to, are as under:

- a) That the candidate is sufficiently intelligent (Any defect may be observed during the examination).
- b) That his bearing is good and that there is no sign of disease of ear, nose and throat.
- c) That his vision with either eye is up to the required standard, his eyes are bright, clear and with no obvious squint, nystagmus or other abnormality. Movement of eye balls should be full and free in all directions.
- d) That his speech is without impediment.
- e) That he has no glandular swelling.
- f) That his chest is well formed, and that his heart and lungs are sound.
- g) That his limbs are well formed, and fully developed.
- h) That there is free and perfect action of all the joints.
- i) That his feet and toes are well formed.
- j) That he has no congenital malformation or defects.
- k) That he does not bear traces of previous acute or chronic diseases pointing to an impaired constitution.
- l) That he possesses sufficient number of sound teeth for efficient mastication.
- m) That he has no disease of the genitor-urinary tract.

### **Ground for permanent rejection**

- 8 Candidates presenting with following conditions will be rejected:
- a) General impaired Constitution with frail health (BMI less than 18).
  - b) Abnormal Gait.
  - c) Abnormal Posture (Kyphosis, Scoliosis or Lordosis).
  - d) Gross physical deformity of chest, (pigeon chest, Barrel shaped chest, pectusexcavatum, Harrison's sulcus & joints (Knock knee bow, leg, flat feet etc).
  - e) Defective Intelligence.
  - f) Deafness.
  - g) Pronounced Stammering.
  - h) Mental and nervous instability includes coarse Digital Tremors, palmar & plantar Hyperhydrosis and Tachycardia (Pulse rate more than 100/min).
  - j) Sexually Transmitted diseases.
  - k) Any degree of squint or nystagmus.
  - l) Cases of colour blindness.
  - m) Corneal Opacities effecting binocular vision of the individual.
  - n) Perforation of Tympanic membrane.
  - o) Chronic Suppurative Otitis Media/Mastoiditis.
  - p) Loss or decay of teeth to such an extent as to interfere with proper mastication. Dental points less than 14.
  - q) Chronic Lung Infection.
  - r) Endocranial Disorder.
  - s) Cardiac murmur or Hypertension (BP>140/95 mm Hg).
  - t) Gross degree myopia & cases of corneal surgery for refractive error.
  - u) Healed fracture with implants or ankylosis of effected joints due to fracture.
  - v) Any amputation effecting in the working efficiency of individual.
  - w) Permanent body tattoos are only permitted on inner face of forearms i.e. from inside

of elbow to the wrist and on the reverse side of palm/back (dorsal) side of hand. However, in case of an obscene, vulgar or objectionable tattoo, the DDG (Pers)/Comdt GREF Centre will take a final decision on acceptability/unacceptability of such tattoo. The decision of the DDG (Pers)/ Comdt GREF Centre in the matter shall be final. Permanent body tattoos on any other part of the body is not acceptable and candidate will be barred from further screening.

### **Grounds for Temporary Rejection:**

- 9 Following are the grounds for temporary rejection:
- (a) Pterygium
  - (b) Conjunctivitis
  - (c) Defective Vision (corrected with glasses, 6/6 in both eyes is acceptable)
  - (d) Trachoma Grade III
  - (e) Deviated Nasal Septum
  - (f) Chronic Tonsillitis
  - (g) Few decayed teeth (corrected with denture is acceptable)
  - (h) PityriasisVersicolor
  - (j) TineaCruis, Scabies, Eczema etc
  - (k) Planter Warts
  - (l) Hydrocele, Hernia, Vericocele
  - (m) Vericose Veins
  - (n) Phimosis, Fissure in ano or abscess, Haemorroids
  - (o) Acute infection of respiratory tract
  - (p) Gynaecomastia
  - (q) Anaemia
  - (r) Hepatosplenomegaly
  - (s) BMI above 30 (Should bring down BMI to below 30 within 3 months will be accepted)

### **Acceptance of Candidates with Minor Defects:**

- 10 Candidates presenting with mild degree of following defects may be accepted:
- (a) Mild Flat Feet but flexible and Hammer toes.
  - (b) Mild knock knee (Inter malleolic distance 5 cms).
  - (c) Mild Bow Legs (Inter condylar distance 7 cms).
  - (d) Mild Degree of Sephenavarix.
  - (e) Slight degree of Vericocele, or undescended testis (Not arrested in inguinal region).
  - (f) Healed perforation of Ear drums.
  - (g) Healed Trachoma without residual gross deformity.
  - (h) Slight stammering.
  - (j) Mild hyperhydrosis.
  - (k) Mild degree phimosis or Hypospodiasis.
  - (l) Perforation in the ear drums which has healed and closed leaving a firm healthy scar (Tympanoplasty done).
  - (m) Slight curvature of leg.
  - (n) Slight hammer toe.
  - (o) Mild degree of varices.
  - (p) Teneaversicolor (Only after treatment).
  - (q) DNS (Acceptable after treatment).
  - (r) Any other slight defects which in the opinion of Recruiting Medical Officer will not interfere with work efficiency of the candidate in future provided the candidate

conforms to the prescribed standards in all respects. The mild problem if any must be recorded in the documents.

An undertaking from the candidate be taken that there is no past history of seizure, leprosy, diabetes, tuberculosis or HIV infection. All cases of past healed operations carried out will be noted in medical case sheet.

The foregoing relaxation is permissible only in the case of recruit who conform to the prescribed standards of measurements.

**Time limit for clearance of any unfit by Higher Reviewing Authority**

11 (a) All cases of **permanent unfit** may be reviewed by higher medical authority and should declare him unfit/fit within 01 month duration since the time of unfit declaration.

(b) All **temporary unfit** cases may be reviewed by higher medical authority within 3 months (90 days) to clear him fit/unfit since the time of unfit declaration.

12 In all cases where a recruit is suffering from a minor defect is accepted, the Medical Board will fully satisfy themselves that the defect will not, in any way, affect the efficiency of the recruit as a subordinate serving in BRO.

13 Whenever recruits who are suffering from minor defects as mentioned in Para 10 above are accepted, the defects will invariably be noted in the medical history sheet GREF/MED/2A.

14 Recruits suffering from minor health problems of ordinary nature such as simple sores, shoe bite, common cold coughs and similar other minor ailments which usually last only a few days may be accepted. Medical Board before accepting such a recruit must fully satisfy themselves that the disease is likely to be cured in a few days without indoor treatment. Normally, unless the recruit is required to meet some urgent demand which cannot be met readily, he should be advised to get himself treated and come again. If recruit who is suffering from a minor disease of any nature is accepted, no entry need to be made of the disease in the medical history sheet GREF/MED/2A.

15 The decision of the Medical Board in all cases of rejection due to not meeting the required medical standards will be final.

**Specimen of Photographs**

**Acceptable Photograph**



**Samples of photographs which are not acceptable**

Extra Colour



Too close



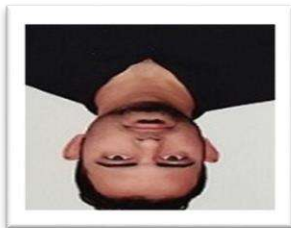
With hat/cap



Blur Photographs



Inverted



Too dark



With goggles



Facing Sideways



Too Small



With spectacles

