



**ODISHA STAFF SELECTION COMMISSION**  
Barrack No.1, Unit – V, Bhubaneswar – 751054

Advertisement No. IIE-90/2019-2753 /OSSC; Date: 29.08.19  
Recruitment to the post of Junior Engineer (Mechanical) on Contractual Basis under  
Engineer in Chief (Water Resources), Government of Odisha

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POST CODE for Junior Engineer (Mechanicals)-JEM/135

**IMPORTANT:**

- Online Application registration will be made available from 30.08.2019 till 29.09.2019 by 11.55 P.M in the official website of the Commission "[www.osscc.gov.in](http://www.osscc.gov.in)". Application other than online mode shall not be accepted by the Commission.
- Candidates are to be extra vigilant while filling up the online application form as there is no edit option.
- Online Applications are invited for selection of candidates for recruitment to 106 nos. of Junior Engineer (Mechanical) under Engineer in Chief (Water Resources), Odisha, Bhubaneswar.
- No hardcopy of online application/ documents to be sent to the Commission. The applicants are required to upload the required certificates/documents as listed at clause-7 of the advertisement in the "Document Upload" tab. The documents should be in pdf format, clearly visible and in prescribed size as prescribed in Clause-1 (b).
- The Candidates who intend to apply should go through the eligibility criteria prescribed in the advertisement, before filling up the application. The candidate must satisfy himself/herself about his/her eligibility for the post before applying and only through online mode. No other mode of application shall be entertained by the Commission.
- Candidates only having Diploma in Mechanical Engineering from any institution recognised by Odisha State Council of Technical Education & Vocational Training (SCTE & VT) are eligible to apply for the post.
- The candidates passing Diploma in Mechanical Engineering from other than the Institutions approved by SCTE& VT (O) must upload the equivalent certificate issued by the SCTE&VT.
- As per provisions of SCTE&VT, Odisha, the candidates completed Diploma Courses through Distance mode shall not be eligible for the post.
- Empanelled candidates can only avail relaxation of age up-to maximum three times i.e, the no. of time registering the online application form for this particular post. They have to enter their empanelment No. at the time of registering online application form.
- The appointment will be initially on contractual basis carrying a consolidated pay of Rs.16,880/- per month (for 1<sup>st</sup> year) as per Odisha Group-B Posts Contractual Appointment Rules, 2013 notified vide Government in GA Department Notification No. 1147-GAD-SC-RULES-0061-2013/Gen dated 17<sup>th</sup> January 2014 and as amended vide Government in GA & PG Department Notification No. GAD-SC-RULES-0037-2017-19569/Gen. Dtd. 12<sup>th</sup> Sept. 2017. However, the Salary /Scale of pay and other conditions of service may vary as per the decision of the Government of Odisha from time to time.

The service condition shall be governed by relevant recruitment rules in force and also guided by Odisha Group-B Posts Contractual Appointment Rules,2013.

- Candidate must not be below 21 Years and must not exceed 32 years of age as on 1<sup>st</sup> January 2019 to be eligible to apply for the post (refer to Clause-5(a) of this Advertisement) with usual age relaxation for reserved categories as per relevant rules of Govt. in force. Empanelled candidates may avail age relaxation to apply for the post.
- The career evaluation of the candidates will be done as per information submitted in the online application form. If it is found that the candidates have uploaded any wrong documents/certificates or furnished any wrong information in the online application form which does not match with the uploaded documents, their candidature for the post shall be out rightly rejected.
- If at any stage of recruitment or thereafter, it is found that any information furnished by the candidate in his/her online application is false/incorrect or the candidate has suppressed any relevant information or the candidate otherwise does not satisfy the eligibility criteria prescribed for the post, his/her candidature for the examination will be cancelled forthwith and he may be debarred either temporarily or permanently from appearing any further recruitment examination conducted by the Commission.

### 1.How to apply:

The applicants have to go through the detail advertisement before filling up the online application.

1. (a) Aspirants have to apply online using the official website of the Commission "[www.osscc.gov.in](http://www.osscc.gov.in)". The applicants other than S.C., S.T. & PWD categories are required to deposit non-refundable examination fee of **Rs.200/-** only through online mode following the procedure as detailed at **clause-6** of this advertisement to apply for the post. By clicking on the tab '**online application**' in the home page of the website, different advertisement for online application along with different useful details will be displayed on the computer screen. The instructions provided in this Advertisement are required to be read carefully before proceeding to complete the online application process.

There will be 2 links under "**Form Links**" column for each advertisement.

(i) **For Registration.**

(ii) **For registered user login.**

All the Candidates first need to complete the Registration process before filling the Application Form.

For Registration the candidate needs to **click** the link "**For Registration**" present in the Form Link section.

On clicking the link mentioned, he/she will be redirected to the **Registration Form**, where few basic Details will be required like:-

- i. **Nationality**
- ii. **Applicant Full Name**
- iii. **Applicant Father's Name**
- iv. **Applicant Mother's Name**
- v. **Name of the husband (In case of Married female applicant)**
- vi. **Gender**



- vii. 10th Standard Roll Number (As Mentioned in the Certificate)
- viii. 10th Standard Year of Passing
- ix. 10th Standard Board (Name)
- x. 10th Standard Passed Exam Type
- xi. Whether passed minimum Seventh class exam. in Odia
- xii. Mobile Number
- xiii. Email Address

All the above fields need to be filled in mandatorily by the candidate.

**Caution:** The candidate must submit the correct data in this section as the subsequent section will be automatically populated with the data filled in this section. No change in the section will be allowed after the candidates submit the 'I Agree' box.

Once the above details are filled by the candidate, one CAPTCHA image will be shown to the candidate which he/she needs to enter correctly in the field given below and then need to check the box "I Agree" for declaration and submit the registration form.

**On Submitting the registration form a unique Application Sequence No.** will be generated and will be shown to the candidate.

**Application Sequence No.** generated will act as **user id** of the candidate for the post. E-mail and SMS will be sent to the candidates through his registered **email id** and **mobile no** intimating the 'User id' and 'Password'.

**Note:**

The details submitted by the candidate for 10th Standard Roll Number (As mentioned in the Certificate), 10<sup>th</sup> Standard Board, 10<sup>th</sup> Standard Year of Passing & 10<sup>th</sup> Standard Passed Exam Type (Annual or Supplementary) need to be furnished correctly.

Furnishing of any wrong information may lead to rejection of the application and no request in this regard for correction of the same will be entertained. User registration is only required once during applying for a specific post/advertisement.

After the successful submission of the registration form in the top right hand corner of the "Go to Application Form" & "Logout" button will be visible.

Candidate can also click on the "Go to Application Form" to continue with the filling of the application form. Candidate can click the "Logout" button if he/she wishes to exit the current session.

**1. (b) For registered user login**

In order to fill the Application form candidate needs to Click the link present under "For registered user login" present in the Form Link section.

The same will redirect the candidate to the login page of the Application Form. The candidate need to login using the 'User id' and 'password' he/she received after registration though e-mail as well as SMS in the registered mobile no. & e-mail id.

Once the candidate successfully logged in to the application form he/she will be getting 4 tabs

1. Personal Details
2. Additional Details
3. Qualification details
4. Document Upload

All the detail data are required in the above 4-tabs need to be furnished correctly by the candidate. The details submitted by the candidate during submission of the registration form will be auto populated in the respective fields of the application form. Please read the caution below while filing up the column of Marks Secured and Full Mark for the examinations passed

The candidate have the option of filling the application form in more than 1 session but before logging out he/she needs to ensure that all the data filled by him/her **has been saved** by clicking "**Save & Continue button**" present in the end of the each tab.

Candidate can **preview** the application by clicking the "**Preview Application**" button present in the end of "**Document Upload**" tab as and when required.

All candidate mandatorily need to upload the scanned image of his/her **recent passport size photograph and scanned image of his/her full signature** in the on line application form which **must be within max 80 kb (The Format supported -JPEG/JPG)**.

In addition to the above requirement all the candidates need to upload the following document in the **Document Upload Section**.

- i. **10<sup>th</sup> Standard Pass Certificate & Mark sheet** containing the 10th Standard Roll Number as given in the registration form (**File size max 300kb, format supported-pdf**).
- ii. **Diploma Pass Certificate & Divisional Mark sheet** Issued by SCTE&VT.(**File size max-300kb, format supported-pdf**).
- iii. **Equivalency certificate issued by the SCTE&VT** in case the candidates passed Diploma in Mechanical Engineering from other than the Institutions approved by SCTE& VT (O). (File size max-300kb, format supported-pdf).
- iv. Candidates Claiming reservation under **SC/ST/SEBC** category need to upload caste certificate (refer to Clause-7 of this Advertisement) (**File size max-300kb, format supported-pdf**) in Document Upload & Payment details section.
- v. Candidates Claiming "**PwD (Persons with Disabilities)**" category need to upload **PwD** certificate (**File size max-300kb, format supported-pdf**) in Document Upload & Payment Details section.
- vi. Candidates Claiming "**Ex-Serviceman**" category need to upload Ex-Servicemen Documents (**Discharge Certificate, Identity card, PPO and document indicating the date of entry, date of discharge and period of service** rendered in Defence Forces) as per Clause-8(viii) of the advertisement) in Document Upload & Payment details section (**File size max 300kb, format supported-pdf**).
- vii. Candidates claiming "**Sports Person**" category need to upload **sports identity card** issued by Director of Sports in Document Upload & Payment details section (**File size max-300kb, format supported-pdf**).
- viii. Candidates not having Odia as a subject in HSC Examination, he/she has to upload Odia Pass certificate in at least **ME Standard (Class-VII)** or more (**File size max-300kb, format supported-pdf**) issued by Head Master/Principal or any other competent authority.
- ix. **In-service contractual employees** in the category-I & II (Govt. in G.A. Department Notification No.GAD-SC-Rules-0061-2013-1147/Gen dtd.17.01.2014) who have completed one year of continuous service prior to commencement of the above rules may avail age relaxation up to 45 years as on 01.01.2019 must upload the required certificate issued by the concerned employer indicating there in the date of

appointment, Order No. with date, years of contractual service rendered and scheme under which appointed (**File size max 300kb, format supported pdf**).

**The uploaded documents must be clearly identifiable /visible, otherwise the application is liable to be rejected and no further correspondence in this regard will be entertained.**

The candidates are also advised to fill up relevant details under different tabs, mentioning category, special category, present address, permanent address, full marks, marks secured) in H.S.C & Diploma in Mechanical Engineering which are required for eligibility.

**Caution:**

i. *The candidates should mention their HSC Full Marks and Mark secured correctly in the online application form excluding extra optional marks (if any) while filling up of the online application form failing which their candidature for the post shall be rejected.*

ii. *The candidates should mention the Diploma mark secured (which has been taken for division) & full mark (which has been taken for division) as per mark sheet issued by SCTE&VT correctly in the “Qualification details” tab.*

iii. *If it is found during document verification or at any stage of recruitment or there after that the marks entered in online application do not tally with the uploaded documents, then the candidature of the applicant will be rejected outrightly.*

The filled in Application Form must be submitted by clicking the **‘Submit Button’**. Before submitting the **online application the applicant must re-check the information** filled in and ensure that the information provided and the scanned signature and scanned photographs uploaded are clearly identifiable /visible. After clicking the submit button, the system will redirect all candidates (Except SC/ST/PWD category candidates) to SBICollect portal for payment of examination Fees, The details of which has been furnished at Clause-6 of this advertisement. After successful payment of Examination fees (as applicable) the form will be submitted in the OSSC website. In case of applicants in the category of SC/ST/PwD the form will be submitted directly. After the form is successfully submitted, the candidate has to take the printout of the filled application form (OSSC Copy and Applicant Copy) for future reference.

**1. (c)** The candidate has to take both the printed copies of application (i.e. 1. **OSSC Copy** and 2. **Applicant’s Copy**). The **OSSC** copy has to be preserved by the applicant for future use. In case the candidate is shortlisted for verification of documents, he/she has to submit the same in the Office of the Commission on the date of certificate verification along with the originals & a set of self attested photo copies of certificates/ documents.

**1. (d)** The **Applicant’s copy** contains the **‘User ID’** and **‘Password’** printed on the bottom of the Application Form. The applicant has to keep it carefully for his future reference to access to the website to know the status of the application and also to download the admission letter from the Commission’s website.

**1. (e)** Applications received through any mode other than online mode are liable to be summarily rejected.

**1. (f)** **If at any stage of recruitment or thereafter, it is found that any information furnished by the candidate in his application is false/incorrect or the candidate has suppressed any relevant information or the candidate does not satisfy the eligibility criteria prescribed for the post or has not paid the requisite examination fee, his/her candidature will be cancelled**





forthwith. Further, the Commission reserves the right to debar such candidates from applying for other recruitment examinations conducted by the Commission either temporarily or permanently.

1. (g) The candidate may find out the status of his/her application as well as his/her Admission letter/hall ticket for appearing the examination by accessing OSSC website, clicking therein 'online application' tab, and thereafter clicking on the link present under "For registered user login" in Form Link section against that particular advertisement/post, by using the user ID and password.

1. (h) Candidates should possess a valid E-mail address & Mobile number which should remain active till publication of the final result pursuant to the Advertisement.

The Commission shall not be responsible for any loss/ non receipt of message/information sent on the wrong /invalid e-mail address/ mobile number provided by the candidate in the on-line registration form or for delay/non-receipt of information if a candidate fails to access his/her E-mail or Mobile phone in time. Candidates will be allowed in the examination only if they possess a valid admission letter for the examination and valid Photo Identity proof issued by any Govt. Authority.

**2. Last date of online Applications:**

2.a. The last date for submission of online Application in response to this advertisement is 11.55 P.M. of Dtd.29.09.2019. The system will be automatically disabled from 11.55 PM of the said date after which the application form for this particular post will not be generated any more.

2.b. No. Physical Copy (hard copy) of the online application form/documents required to be sent to the Commission. Candidates have to upload the relevant documents as listed in the online form at the time of online application.

**3. Vacancies be filled up and reservations :**

As per requisition placed before the Commission by the Recruiting Authority, the category-wise break-up of the total number of posts to be filled up by this recruitment are as follows:

**3. (a) Junior Engineer (Mechanical)-Total vacancy-106 Nos. (Out of which Women-35)**

SL No	Name of the Post/services	Category wise vacancies										
		UR		SEBC		SC		ST		Vacancies Reserved for Special category		
		No of vacancies	Out of which Female	No of vacancies	Out of which Female	No of vacancies	Out of which Female	No of vacancies	Out of which Female	ESM	PWD (out of which women)	Sports person
01	Junior Engineer (Mechanical)	63	20	13	05	Nil	Nil	30	10	03	05 (w-01)	01

3(b) There is no vacancy reserved for SC candidates. However they are eligible to apply for the post and also eligible to avail age relaxation but shall compete against vacancy under UR category. The number of vacant posts to be filled up on the basis of this recruitment is subject to change without any prior notice as per discretion of the Commission, the Recruiting Authority and Government.

### 3(c) Vacancies for PwD Reservation:-

As per the Govt. of Odisha in Social Security & Empowerment of Persons With Disabilities Department Resolution No.7140/SSEPD Dtd.05.09.2017, the types of persons with disability eligible for the post are as follows:-

Category	Types of Disabilities
Category-I	a. Low Vision;
Category-II	b. Hard of hearing/Partially Deaf (HI) with suitable aid.
Category-IV	c. Autism, intellectual disability, specific learning disability and mental illness; d. Multiple disabilities

If the candidate of one particular PwD category are not available, the same will be filled from rest of the above three categories.

#### Note:

Since no. vacancy is earmarked for Locomotor disability (OL, BL), PwD candidates belonging to this category are eligible to apply for the post and compete against their own category such as UR/SEBC/SC/ST but not against vacancy meant for PwD.

Where OL: One Leg affected (Right or Left)

BL: Both Legs affected

The physical requirement for the post is as follows:

SL. No.	Designation	Physical Requirement
01	Junior Engineer (Mechanical)	MF,ST,W,SE, R & W

Where MF: Work performed by Manipulating (with fingers)

ST: Work performed by standing

W: Work performed by walking

SE: Work performed by seeing

R& W: Work performed by reading & writing

### 4. Scale of Pay & Condition of Service:-

The appointment will be initially on contractual basis carrying a consolidated pay of Rs.16,880/- per month(1<sup>st</sup> year) as per Odisha Group-B Posts Contractual Appointment Rules,2013 notified vide Government in GA Department Notification No. 1147-GAD-SC-RULES-0061-2013/Gen dated 17<sup>th</sup> January 2014 and as amended vide Government in GA & PG Department Notification No.GAD-SC-RULES-0037-2017-19569/Gen. Dtd. 12<sup>th</sup> Sept. 2017. However, the Salary /Scale of pay and other conditions of service may vary as per the decision of the Government of Odisha from to time. The service condition shall be governed by relevant recruitment rules in force and also guided by Odisha Group-B Posts Contractual Appointment Rules,2013.

#### 5. Eligibility:

##### 5.a. Age:

The minimum age for the post is 21 years and the maximum age is 32 years as on 01.01.2019. The upper age limit is relaxable by 5 years for candidates belonging to SEBC, SC, ST & all Women candidates, 10 years for candidates belonging to PwD category & the total period of service rendered in defence service in case of Ex-servicemen. PwD candidates in the ST

& SC category shall be entitled to **cumulative age relaxation** of ten years over & above the normal relaxation specified for the category. However, a candidate can only avail one type of age relaxation as per rule. To be eligible, candidates not enjoying any relaxation of upper age limit must not have been born earlier than 2<sup>nd</sup> January, 1987 and not later than 1<sup>st</sup> January 1998. The persons in Defence Forces having more than six months to retire/ discharge from the forces as on the date of the submission of online application are not eligible to apply as ex-serviceman for the post. Ex-Servicemen who are going to retire within six months from the closing date of online application may apply for the post by obtaining relevant certificate from the appropriate authority mentioning therein the date of appointment, date of retirement and years of service rendered in Defence Forces. However such candidates have to submit the discharge certificate on the date of certificate verification for considering their claims under Ex-Serviceman category.

**Border Security Force, Indian Coast Guard, CRPF and other Para Military Forces are not within the definition of Ex-Servicemen.**

**Note:** Once an Ex-Serviceman has joined the Govt. Service in civil side after availing the benefit as an Ex-Serviceman for his re-employment, his ex-serviceman status for the purpose of re-employment in Govt. Jobs shall cease to exist. He can avail age relaxation only. However as per clause-4 of the O.M. No. 36034/2014-Estt.(Res) dt.14 August,2014 of Ministry of Personnel, Public Grievances and Pensions, Department of Personnel & Training, Government of India, if an Ex-Serviceman applies for various posts before joining any civil employment, he/she can avail of the benefit of reservation as ex-serviceman for any subsequent employment, provided the applicant as soon as joins any civil employment, should give self declaration/undertaking to the concerned employer about the date-wise details of application for various posts for which he/she had applied for before joining. The applicant should furnish the copy of above declaration duly endorsed by the employer on the date of Document Verification for consideration of the claim under Ex-Serviceman category.

However the upper age limit is relaxable for in-service contractual employees engaged by the Govt. or through manpower service provider agencies in the State Govt. offices or the State Govt. of Odisha who have completed at least one year of continuous service prior to commencement of "Odisha Group-B posts (Contractual appointment) Rules-2013 shall be eligible to apply for the post after availing age relaxation. As such they must be less than 45 years as on 01.01.2019. They should upload the required certificate/document from their employer for availing age relaxation as mentioned at clause-7(xi) of this advertisement.

5.b. Date of birth entered in the High School Certificate Examination by the Board of Secondary Education, Odisha or equivalent Certificate issued by the recognised Board/Council/by an Indian University as equivalent there to shall only be acceptable to the Commission.

**Note: Empanelled candidates can only avail relaxation of age up-to maximum three times to appear the examination for this particular post. They have to enter their empanelment No. at the time of registering their online application form.**

#### **5.(c) General Eligibility Criteria**

In order to be eligible for appearing in the examination a candidate must satisfy the following conditions.

- (i) The candidate must be a citizen of India.
- (ii) Be able to speak, read & write Odia.





- (iii) Be of good moral character & conduct.
- (iv) Be of good mental condition and bodily health and free from any physical defect likely to interfere with the discharge of his duties in the service.
- (v) If married, must not have more than one spouse living.
- (vi) Candidate must have passed Middle School Examination with Odia as a language subject, or have passed High School Certificate Examination or equivalent examination with Odia as a subject/medium of examination in non-Language subject, or have passed in Odia as a language subject in the final examination of Class VII or above or have passed a test in Odia in M.E. School Standard conducted by the School & Mass Education Department.

**Not fulfilling any of the eligibility criteria shall render the applicant's candidature invalid & rejected.**

**5. (d) Educational Qualification:**

- I. The candidates must have possessed a Diploma in Mechanical Engineering conducted by Odisha State Council of Technical Education & Vocational Training or an equivalent qualification for the post of Junior Engineer (Mechanical) from any institution recognized by the Odisha State Council of Technical Education & Vocational Training (SCTE&VT). The candidate must have passed the examination on the closing date of the online application form.
- II. The applicant must have Odia as one of the subjects in the HSC or passed examination in Odia equivalent to M.E. standard or passed in Odia as language subject in final examination of Class-VII or passed a test in Odia in M.E. School Standard conducted by Education Department Govt. of Odisha on the date of the Application.

**Note:** i) The candidates passing Diploma in Mechanical from other than the Institutions approved by SCTE& VT (O) must upload the equivalent certificate issued by the SCTE&VT.  
 ii) As per provisions of SCTE&VT, Odisha, the candidates completed Diploma Courses through Distance mode shall not be eligible for the post.

**6. Examination Fee:**

**The candidates other than SC/ST/ Persons with Disabilities (PwD) category have to pay a non refundable examination fee of Rs.200/-. The fees can be deposited only through online mode using Internet Banking/ Debit Card/Credit card/UPI in SBI payment gateway linked with the online application form following procedure as detailed below:-**

**Online Fee Depositing process in State Bank of India (SBI) through State Bank Collect Portal**

**Important:** Candidate other than SC, ST & PwD category needs to "Make Online Payment" of Rs. 200/- for submission of online application form for the post. Once SBI Collect of State Bank of India portal is opened, then DO NOT click Refresh or Back Button.

**Steps to be followed in SB Collect portal for Online Payment**

- 1. System will redirect you from online application form portal to State Bank Collect Portal after clicking on the 'Submit' button.
- 2. Kindly preview the application to check & confirm the details shown on the screen i.e Application Sequence No., Date of Birth, Name, Mobile No, e-mail ID, post & category



<p>etc., before clicking “<b>Submit</b>” Button.</p> <p>3. Select the Online Payment Option (Internet Banking/Debit Card/Credit Card/UPI) with bank charges as applicable mentioned therein.</p> <p>4. Kindly make the online payment via Credit card or Debit card or Net Banking or UPI and retain the transaction slip for future reference.</p>
<p>Candidates are advised to keep with them the copy of the e-receipt as a token successful payment of required examination fee for future reference.</p>
<p>Candidates are advised to make required payment using SBI MOPS for final &amp; successful submission of form.</p>

**Note:**

- **Applications without payment of examination fee except SC/ST/PwD category candidates shall be liable for rejection.**
  - **SC/ST candidates are exempted from paying examination fee.**
7. **Certificates / documents to be submitted at the time of certificate verification should be same as uploaded in the online application Form:**
- (i) OSSC Copy of the registered online application with declaration duly filled in & ink signed at the appropriate place.
  - (ii) Self-Attested photocopy of HSC certificate or equivalent certificate & mark sheet issued by the recognised Board/Council.
  - (iii) Self-Attested photocopies of certificate and Marksheet of Diploma in Mechanical Engineering from any institution recognised by SCTE & VT, Odisha.
  - (iv) Self –Attested photocopies of equivalency certificate issued by SCTE&VT in case the candidates passed Diploma in Mechanical Engineering from other Institutions approved by SCTE& VT
  - (v) Candidates of SC/ST/SEBC category shall enclose self-attested photocopy of a valid caste certificate issued by competent authority. Candidate belongs to SEBC category should submit SEBC certificate which must be within one year prior to last date of online application.
  - (vi) Candidates have to submit a self-attested Photocopy of the certificate either of passing HSC examination with Odia as a compulsory subject, or in lieu thereof a certificate of passing a language test in Odia of M.E. standard/Class-VII issued by Principal/Head Master or any other competent authority.
  - (vii) Self-Attested photocopy of the certificate of disability issued from the concerned Medical board of the concerned district in case of PwD candidates with permanent disability. For candidates with temporary disability, they shall have to produce recent disability certificate.
  - (viii) Copy of the e-receipt/transaction slip (except SC, ST & PWD Candidates) showing successful payment of Rs.200/- towards examination fees.
  - (ix) Self attested photo copies of documents in support of claim against Ex-servicemen i.e. Discharge certificate, identity Card & P.P.O issued by the appropriate Authority indicating there in the Date of Entry, Date of Discharge & Period of Service rendered in Defence forces.



- (x) Self attested photocopy of Identity proof issued by Director Sports and Youth service Department, Govt. of Odisha for claim of reservation against Sports Person category.
- (xi) Certificate from employer indicating therein the date of appointment, period of service completed, post held, nature of post, scheme under which appointed and No Objection to appear the examination, in case of in-service Contractual employees claiming age relaxation.

**8. Plan of Examination:**

Stages of Examination	Type of Examination	Marks allotted	Duration	remarks
Stage-I	Main Written Examination (Objective Type)	100 Marks	1 & ½ Hours	Main written examination will be objective type to be conducted in OMR Sheet/ or CBRT.50% Weight-age will be awarded in the written examination. <b>There shall be negative marking @ 0.25 marks for each wrong answer. No marks will be awarded or deducted for any question left un-attempted.</b>
Stage-II	Career Evaluation	Rest 50 % Weight-age of career evaluation is as below 1.HSC-20% 2. Diploma in Mechanical Engineering-30%	--	The career evaluation shall be done as per the marks filled up by the candidates in the online application form and as per their uploaded documents. Hence candidate should enter their full Marks and marks secured both in HSC & Diploma level vigilantly. (Note-refer cautions mentioned at Page-5 of this advertisement while entering the marks.)
Stage-III	Certificate verification	--	--	Candidates up to 2(two) times the vacancies advertised in each category in order of merit basing on the marks both in Written Examination & Career evaluation shall be shortlisted for the verification of original documents. The candidate who fails to attend the document verification, his/her name will not be considered for the post.

There shall be no viva-voce test.

## 9. Syllabus for main written examination :

The question of this paper will be of objective type from the Diploma courses to conduct on OMR sheets/CBRT mode. The questions will be of objective type based on the 2<sup>nd</sup> and 3<sup>rd</sup> year of Diploma in Mechanical Engineering courses of SCTE&VT.

The gist of the syllabus of the written examination is as described below. The syllabus is indicative and not exhaustive. The question will be asked from both the theory and application part on each of the topic.

### a. Strength of Material

Stress and strain, Hooke's law, Young's Modulus, bulk modulus, poisson's ratio, Relation between elastic constants, Type of beams & loads, concept of shear force & bending moment, Shear Force & Bending Moment Diagrams & their salient features in cantilever beam, simply supported beam & overhanging beam under point load & UDL. Bending stress, section modulus & neutral axis. Axial load & eccentric load in columns, buckling load in columns with various end connections.

### b. Engineering Materials

Material classification into ferrous, non-ferrous category and alloys, physical and chemical properties. Classification, composition and application of low carbon steel, medium carbon steel and high carbon steel. Process of heat treatment, Annealing, normalizing, hardening, tempering, stress relieving measures. Surface hardening, carburizing, and nitriding. Effect of heat treatment on properties of steel. Reasons of corrosion and surface wear, purpose of painting and methods of industrial painting.

### c. Thermal Engineering / Applied thermodynamics

Thermodynamic properties of a system (pressure, volume, temperature and units of measurement). Sensible heat, latent heat, specific heat. Conceptual explanation of energy, work and heat. Introductory concept of conduction, convection and radiation of heat. Carnot cycle, Boyle's law, Charles Law, concept of I.C. engine, Otto Cycle, Diesel Cycle, Hydrocarbon fuel. Quality of I.C. engine fuels: Octane number, Cetane number.

### d. Theory of Machines

Link, kinematic chain, mechanism, Cam and followers, friction between nut and screw for square thread. Screw jack. Description of roller and ball bearings. Flat collar bearings, working of simple frictional brakes. Concept of power transmission. Gear drives( Spur gear drives & worm gear drives)

### e. Manufacturing technology /Production technology

Physical properties and uses of cutting tool materials. Coolants and lubricants in machining. Major components of lathe and their functions, different operations carried out in a lathe. Safety measures during machining. Shaper machine uses, major components and their functions. Types of milling machines and operations performed by them. Grinding machine and its operation. Working of cylindrical grinder, surface grinder and centre less grinder. Criteria for selection of grinding wheels, working of bench drilling machine, pillar drilling machining and radial drilling machine. Basic principle of boring. Difference between boring and drilling. Surface finishing and lapping. Welding processes and welding electrodes. TIG welding and MIG welding processes. Testing of welded joints. Jigs and fixtures, definitions and advantages of using them.

f. **Fluid Mechanics and Hydraulic machines**

Properties of fluids, definition and units of fluid pressure, pressure intensity and pressure head, concept of atmospheric pressure, gauge pressure and absolute pressure, manometers, hydrostatic pressure, centre of pressure on immersed bodies. Archimedes principle, concept of buoyancy, types of fluid flow, Bernoulli's theorem, venturimeter, pitot tube, Orifice coefficient ( $C_c$ ,  $C_v$  and  $C_d$ ) and relation among them. Definition of pipe, laws of fluid friction, head loss due to friction. Hydraulic gradient. Definition and classification of pumps, centrifugal pumps. Cavitation, causes and its effects. Reciprocating pumps, construction & working principle of single acting & double acting reciprocating pumps.

g. **Machine Design**

Types of loads, working stress, yield stress, ultimate stress and factor of safety, Mechanical properties of material. Design of screw thread (Nut & bolt), types of welded joints. Advantage of welded joints over other joints. Strength of welded joints. Design of solid & hollow shafts, function of keys for shafts, types of keys, Design of rectangular sunk key.

h. **Industrial Engineering & Quality Control**

Objectives of Inventory Control, Definition of Inspection and Quality Control. Types of inspection, study of factors influencing the quality of manufacture.

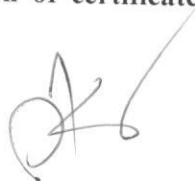
i. **Automobile Engineering**

Working principle of petrol engine, carburetion and air fuel ratio, battery ignition and magnet ignition system. MPFI System. Working Principle of Diesel Engine, Feed Pump Injector. Working principle of fuel injection system of multi cylinder engine. Clutch system: - need, types and working principle. Gear box and its purpose, construction and working of four speed gear box. Differential:- need, type and working principle. Braking system in automobile: types and working principle. Description of conventional suspension system for rear and front axles. Description of independent suspension system used in cars. Necessity of cooling system in Automobile Engine. Defects in cooling and their remedial measures. Function of lubrication system in I.C. engines.

**10. PLACE AND DATE OF WRITTEN EXAMINATION:**

(a) The Date/Time/ Venue of the Written Examination will be informed to the eligible candidates in their Admission Letters, in due course. The admission letters shall only be downloaded by the eligible candidates by accessing the Commission's website by using their 'User ID' and 'Password' from a date to be notified later on.

(b) PwD candidates intend to use Scribe/Reader should apply for permission of the Commission in writing prior to 7(seven) days of the date of Examination submitting his/her admission letter of written Test & copy of the self attested copy of disability certificate and enclosing there in the details of the scribe who will be allowed for the test. The I.D. proof and the highest educational qualification of certificate of the scribe to be used must be





enclosed in the application. The scribe must have less qualification than the educational qualification prescribed for the post.

**11. Admission letter:**

Admission Letters for the written examination will be made available to the eligible candidates in the official website of the commission one week prior to the date of the examination carrying the photograph and signature of the eligible/qualified candidate and signature of the Secretary of the Commission. This will carry intimation about the date, time and venue of the written examination. Each eligible candidates shall have to download their admit card/admission letter well before the date of the examination by logging in to the official website of the Commission "[www.osscc.gov.in](http://www.osscc.gov.in)" and clicking at sub menu '**online application**' by using their '**User ID**' and '**Password**'. Candidates may note that if the application has been rejected the same would be indicated along with grounds of rejection in the Commission's website for information of the candidates. The date(s)/Time/Venue of the examination will be notified in local dailies (newspapers) and in the Commission's website for information of the candidates. Further, the message regarding the date of examination will be sent to the eligible candidates in his/her registered Mobile No. mentioned by the applicant in the online Application form. No Admission letter will be send through post.

**12. Select list:**

Candidates numbering about two times of the vacancy basing on their performance in Written Examination (50% weightage) & career Evaluation (50% weightage) category wise in order of merit shall be called for verification of their original documents. The names of the candidates will be deleted from the common merit list if they do not attend certificate verification. Common merit list of the candidates found suitable in certificate verification will be prepared category wise in order of merit. After preparation of common merit list arranged in order of merit equal to the number of vacancy advertised will be forwarded to the Government for approval. On such approval of Government the Commission will publish the result.

**Note:**

- (xii) Blue/Black ball point pen only should be used for answering (ovalling) in OMR Sheet. Whiteners/Eraser should not be used on the OMR Sheet.
- (xiii) The candidates are required to visit the website of the Commission the official website of the Commission "[www.osscc.gov.in](http://www.osscc.gov.in)" for detailed information about the programme of the examination etc., notice regarding rejection of the application, other important notices etc. and also keep track of publication of various notices of this recruitment to be published in the leading local daily news papers.
- (xiv) The candidate should furnish correct Mobile Number and e-Mail Id for sending SMS and other relevant information relating to this recruitment. The Mobile No. & e-Mail Id



should remain active till completion of the recruitment process to avoid any communication gap.

WARNING

- Mobile phone or any other electronics devices are strictly prohibited in the premises of the examination centre. The candidates are advised not to bring any such banned items to the examination centre. Any infringement of these instructions might entail debarment of the concerned candidate from the examination.
- Commission reserves the right to conduct Computer Based Recruitment Test (CBRT) in place of OMR based test for this recruitment if desires.

By order of the Commission



Secretary