



TAMIL NADU PUBLIC SERVICE COMMISSION

Advertisement No.581
Notification No.06/ 2021

DATED 05.03.2021

Applications are invited from eligible candidates, only through online mode upto **04.04.2021** for direct recruitment to the posts included in the **Combined Engineering Subordinate Services Examination**.

WARNING

- All recruitments by the Tamil Nadu Public Service Commission are purely merit based.
- Tamil Nadu Public Service Commission hereby cautions the applicants against touts and agents who may cheat by making false promises of securing jobs through unfair means.
- The Tamil Nadu Public Service Commission shall not be responsible or liable for any loss that may be caused to any applicant on account of indulging in any sort of dealings with such unscrupulous elements.
- Applicants are solely responsible for their claims in the online application. They cannot blame service providers like internet cafes/browsing centres/Common Service centres for the mistakes made while applying online for recruitment. Applicants are advised to check the filled in online application before finally submitting the same.

எச்சரிக்கை

- தேர்வாணையத்தின் தெரிவுகள் அனைத்தும் விண்ணப்பதாரரின் தர வரிசைப்படியே மேற்கொள்ளப்படுகின்றன.
- பொய்யான வாக்குறுதிகளைச் சொல்லி, தவறான வழியில் வேலை வாங்கித் தருவதாகக் கூறும் இடைத்தரகர்களிடம் விண்ணப்பதாரர் மிகவும் கவனமாக இருக்குமாறு எச்சரிக்கப்படுகின்றனர்.
- இதுபோன்ற தவறான மற்றும் நேர்மையற்றவர்களால் விண்ணப்பதாரருக்கு ஏற்படும் எவ்வித இழப்புக்கும் தேர்வாணையம் எந்தவிதத்திலும் பொறுப்பாகாது.
- இணையவழி விண்ணப்பத்தில் குறிப்பிடப்படும் அனைத்துத் தகவல்களுக்கும் விண்ணப்பதாரர் முழுப் பொறுப்பாவார். விண்ணப்பதாரர், தேர்விற்கு இணையவழியில் விண்ணப்பிக்கும்பொழுது, ஏதேனும் தவறு ஏற்படின், தாங்கள் விண்ணப்பித்த இணையச்சேவை மையங்களையோ/ பொதுச்சேவை மையங்களையோ (Browsing centre / Internet cafe) குற்றம் சாட்டக் கூடாது. விண்ணப்பதாரர் பூர்த்தி செய்யப்பட்ட இணையவழி விண்ணப்பத்தினை இறுதியாக சமர்ப்பிக்கும் முன்னர், நன்கு சரிபார்த்த பின்னரே சமர்ப்பிக்குமாறு அறிவுறுத்தப்படுகிறார்.

It is mandatory for the applicants to register their basic particulars through one - time online registration system on payment of Rs. 150/- (Rupees One hundred and fifty only) towards registration fee and then they should apply online for this recruitment. The one-time registration will be valid for five years from the date of registration. Thereafter, the registration should be renewed by paying the prescribed fee. **One Time Registration will not be considered as an application for any post.**

DETAILS OF VACANCIES:

Name of the Post	Name of the Service	No. of vacancies **	Scale of Pay
1. Junior Draughting Officer in Highways Department (Post Code No. 3115)	Tamil Nadu Highways Engineering Subordinate Service (Code No. 012)	177+6* (* Carried forward Vacancies)	Rs.35400-112400 Level 11 (Revised Scale)
2. Junior Draughting Officer in Public Works Department (Post Code No. 3120)	Tamil Nadu Engineering Subordinate Service (Code No. 012)	348	
3. Junior Technical Assistant in Handlooms and Textiles Department (Post Code No.1853)	Tamil Nadu General Subordinate Service (Code No.036)	01* GT(G)(BL&LV) * Carried forward Vacancy	
4. Junior Engineer in Fisheries Department (Post Code No. 3107)	Tamil Nadu Fisheries Engineering Subordinate Service (Code No. 107)	05	Rs.35900-113500 Level 13 (Revised Scale)

** Vacancies shown for the posts in the serial No.1 and 2 after deducting 3% of vacancies for the reservation for meritorious sports persons as per **G.O.Ms.No.6 Youth Welfare and Sports Developments (S1) Department Dated 20.2.2019.**

Unless and otherwise specified, the number of vacancies notified is approximate and is liable to modification as indicated in **para. 11-A of Instructions to Applicants.**

2. DISTRIBUTION OF VACANCIES:-

The rule of reservation of appointments is applicable for this recruitment and the Distribution of vacancies will be announced later.

3. IMPORTANT DATES AND TIME:-

Date of Notification	05.03.2021	
Last date for submission of online application	04.04.2021	
Date of Written Examination		
Paper – I (Subject Paper)	06.06.2021 F.N.	10.00 A.M. to 01.00 P.M
Paper – II (General Studies)	06.06.2021 A.N.	03.00 P.M. to 05.00 P.M

Note:

Refer **Annexure-IV** of this Notification regarding tentative timeline for the recruitment process.

4. FEES:-

a)	<p><u>Registration Fee</u></p> <p>For One-Time Registration (Revised with effect from 01.03.2017 vide G.O.(Ms).No. 32, Personnel and Administrative Reforms Department, dated 01.03.2017)</p> <p><u>Note</u></p> <p>(i) Applicants who have already registered in One-Time online Registration system and within the validity period of 5 years are exempted.</p> <p>(ii) Applicants who have already registered in One-Time online Registration system by paying Rs.50/- before 01.03.2017 and having validity, those who have registered for One-Time Registration on or after 01.03.2017 by paying Rs.150/- towards One-Time online Registration are exempted from paying the registration fee for this recruitment.</p> <p>(iii) Applicants who have made One-Time Registration must pay the prescribed examination fee for this recruitment unless fee exemption is claimed. (One-Time Registration is only to avail exemption for Registration fee for a period of 5 years from the date of registration and it will not be considered as prescribed examination fee for this recruitment).</p>	Rs.150/-
b)	<p><u>Examination Fee:-</u></p> <p><u>Note:</u></p> <p>The Examination fee should be paid at the time of submitting the online application for this recruitment, if they are not eligible for the fee concession noted below.</p>	Rs.100/-

- (i) **Linking Aadhaar number with One Time Registration (OTR) is mandatory for applicants. ([Para 2-B of Instructions to applicants](#))**
- (ii) **One Time Registration is valid for five years from the date of registration. After completion of five years, the applicant must renew the One Time Registration by paying the fee prescribed. The One time Registration is different from the application for the examination. An applicant should make an online application separately for each and every examination for which he intends to appear ([Para 2-C of Instructions to applicants](#))**

EXAMINATION FEE CONCESSIONS:

Category	Concession
(i) Scheduled Castes/ Scheduled Caste (Arunthathiyars)	Full Exemption
(ii) Scheduled Tribes	Full Exemption
(iii) Most Backward Classes / Denotified Communities	Three Free Chances
(iv) Backward Classes (Other than Muslim) / Backward Classes (Muslim)	Three Free Chances
(v) Ex-Servicemen	Two Free Chances
(vi) Persons with Benchmark Disability	Full Exemption
(vii) Destitute Widow	Full Exemption

Note:

- a) The total number of free chances availed, will be calculated on the basis of claims made in previous applications.
- b) The number of free chances availed by the applicant may be verified by the Commission at any stage of the selection process.
- c) In case an applicant makes a false claim for exemption from payment of application fee by suppressing information regarding his/ her previous application(s), his/ her candidature shall be rejected and he/ she shall be debarred for a period of one year, from appearing for examinations and selections conducted by the Commission.
- d) Applicants are directed to carefully choose the options 'Yes' or 'No' regarding availing the fee concession. The choice made, cannot be modified or edited after successful submission of online application.
- e) Applicants are advised in their own interest, to keep an account of the number of times fee concession has been availed, irrespective of the information displayed in the < Application History > of the applicant dashboard.
- f) An application (irrespective of the post applied for) claiming fee concession will operate to exclude one chance from the number of free chances allowed.
- g) Applicants who have availed the maximum number of free chances permitted / applicants who do not wish to avail of the fee concession / applicants who are not eligible for fee concession, shall choose the option 'No' against the query regarding fee concession. Such applicants shall thereafter pay the requisite fee through the prescribed mode of payment.
- h) Failure to pay the prescribed fee in time, along with the online application, will result in the rejection of application. (For further details regarding examination fee concession, refer to para 6 of 'Instructions to Applicants')

5. MODE OF PAYMENT OF EXAMINATION FEE:

- Written Examination fee of **Rs.100/-** (Rupees One Hundred Only) is payable by online through Net Banking / Credit card / Debit card on or before last date of submission of online application.
- Applicants have also to pay the service charges as applicable.
- Applicants can avail exemption from paying examination fee as per eligibility criteria.
- **Offline mode of payment in the form of demand draft / postal order etc. will not be accepted and the applications forwarded with such modes of payment will be summarily rejected.**
- Applicants who have made One-Time Registration must pay the prescribed examination fee for this recruitment unless fee exemption is claimed (One-Time Registration is only to avail exemption for Registration fee for a period of 5 years from the date of registration and it will not be considered as prescribed examination fee for this recruitment). [For further details regarding the Examination fee, refer para. 2(V) of 'Instructions to Applicants'].

6. QUALIFICATIONS:-**(A) AGE LIMIT (as on 01.07.2021)**

Sl. No	Name of the Post	Maximum Age	
		Others' [i.e., Applicants not belonging to SCs, SC(A)s, STs, MBCs/DCs, BCs and BCMs]	SCs, SC(A)s, STs, MBCs/DCs, BCs, BCMs and Destitute Widows of all castes
1.	Junior Draughting Officer in Highways Department	30 years (Should not have completed)	SCs/ SC(A)s/ STs - 33years MBCs/DCs / BCs/ BCMs- 32years
2.	Junior Draughting Officer in Public Works Department	30 years (Should not have completed)	35 years (Should not have completed)
3.	Junior Technical Assistant in Handlooms and Textiles Department	30 years (Should not have completed)	No Maximum age limit
4.	Junior Engineer in Fisheries Department	30 years (Should not have completed)	No Maximum age limit

Age Concession**(i) For Persons with Benchmark Disability:**

Persons with Benchmark Disability are eligible for age concession upto 10 years over and above the maximum age limit prescribed above. (Section 64 of the Tamil Nadu Government Servants (Conditions of Service) Act, 2016.)

(ii) For Ex-servicemen:

- (a) Ex-Servicemen are eligible for age concession upto 48 years of age if he does not belong to SCs, SC(A)s, STs, MBCs/DCs, BCs(OBCMs), BCMs and 53 years if he belongs to SCs, SC(A)s, STs, MBCs/DCs, BCs(OBCMs) and BCMs. (Section 63 (1) of the Tamil Nadu Government Servants (Conditions of Service) Act, 2016.)
- (b) The above mentioned age concession will not apply to those Applicants who have already been recruited to any class or service or category. [Section 3(j) of the Tamil Nadu Government Servants (Conditions of Service) Act, 2016.]

For the post of Junior Draughting Officer in Public Works Department.

A candidate demobilised from any of the Defence Services, namely the Army, the Navy or the Air Forces-30 years after deducting the period spent in such service.

Note

- (i) 'Others' (i.e., Applicants not belonging to SCs, SC(A)s, STs, MBCs/DCs, BCs(OBCMs) and BCMs) who have put in 5 years and more of service in the State / Central Government are not eligible to apply even if they are within the age limit.[for further details refer para. 3(F) of 'instructions to Applicants' and section 3(r) of the Tamil Nadu Government Servants (Conditions of Service) Act,2016.]

- (ii) No maximum age limit shall mean that the applicants should not have completed 60 years of age either on the date of Notification or at the time of selection/ appointment to the post.

(B) EDUCATIONAL QUALIFICATION: (as on 05.03.2021)

Applicants should possess the following or its equivalent qualification on the date of this Notification.

Name of the post	Educational Qualification
<u>Junior Draughting Officer</u> in Highways Department	A Diploma in Civil Engineering or its equivalent from any University or Institution awarded by the State Board of Technical Education and Training of the concerned State Government; Provided that while making appointment by direct recruitment to the post of Junior Draughting Officer, preference shall be given if other things being equal, to those who have undergone one year of apprenticeship training under the Government of India Scheme or the State Government Apprenticeship Scheme.”
<u>Junior Draughting Officer</u> in Public Works Department	Diploma in Civil Engineering awarded by the State Board of Technical Education and Training, Tamil Nadu or its equivalent qualification recognized by the Director General of Employment and Training, Government of India or by the All India Council for Technical Education; or Diploma in Architectural Assistantship awarded by the State Board of Technical Education and Training, Tamil Nadu or its equivalent qualification recognized by the Director General of Employment and Training, Government of India or by the All India Council for Technical Education.
<u>Junior Technical Assistant</u> in Handlooms and Textiles Department	i) Must possess Minimum General Educational Qualification. AND ii) Must possess a Diploma in Handloom Technology obtained from the Indian Institute of Handloom Technology, Salem or Varanasi or from any other recognised Institute of Handloom Technology. (OR) Diploma in Textile Manufacture obtained from the Technological Diploma Examination Board, Madras or the State Board of Technical Education and Training, Tamil Nadu.
<u>Junior Engineer in</u> Fisheries Department	Must possess a Diploma in Civil Engineering. Provided that other things being equal, preference shall be given to those who have undergone apprenticeship training for a period of not less than one year under the Government of India Schemes or State Government apprenticeship training scheme.

Note:

- (i) The educational qualification prescribed for these posts should have been obtained by passing the required qualification in the following order of studies viz. 10th + Diploma Course (10+3) or 10th + HSC + Diploma Course (10+2+2) or 10th + HSC + Bachelors Degree Course(10+2+4). The results of examination should have been declared on or before the date of Notification. [Section 20 (4) (iv) of the T.N Government Servants (Conditions of Service) Act 2016]

- (ii) The qualifications considered as equivalent are indicated in **Annexure-I** to this Notification.
- (iii) Applicants claiming equivalence of qualification to the prescribed qualification should upload and submit evidence for equivalence of qualification in the form of Government Order issued on or before the date of this notification when called for, failing which, their application **will be summarily rejected**. The Government Orders regarding equivalence of qualification issued after the date of this notification will not be accepted for this recruitment.(For further details regarding equivalent of qualification refer Note under Para 9 of the 'Instructions to Applicants')

(C) CERTIFICATE OF PHYSICAL FITNESS:-

Applicants selected for appointment to the said post will be required to produce a certificate of physical fitness in the form prescribed below before their appointment:

Standard of Vision Prescribed	Form of Certificate of Physical Fitness
Standard III or Better Colour Blindness will be a disqualification.	Form prescribed for other than Executive and Ministerial posts.

Applicants with defective vision should produce eye fitness certificate from a qualified eye specialist.

(D) KNOWLEDGE IN TAMIL

Applicants should possess adequate knowledge in Tamil on the date of this Notification. (For details refer [para 14-I of the Commission's 'Instructions to Applicants'](#)).

7. CONCESSIONS

- (i) Concessions in the matter of age and/or examination fees allowed to SCs, SC(A)s, STs, MBCs/DCs, BCs(OBCMs), BCMs, Destitute Widows, Persons with Benchmark Disability, Ex-servicemen, other categories of persons etc., are given in [para. 3\(D\),5 & 6 of the 'Instructions to Applicants'](#).
- (ii) Persons claiming concession referred to above and other claims made in the application have to produce evidence for such claim, when called for, otherwise their application will be rejected.

Note

In all cases, an Ex-Serviceman once recruited to a post in any class or service or category of the state cannot claim the concession of being called an Ex-Serviceman for his further recruitment. [Section 3(j) of Tamil Nadu Government Servants (Conditions of Service) Act 2016.

8. SCHEME OF EXAMINATION - OBJECTIVE TYPE (OMR METHOD):-

Subject	Duration	Maximum Marks	Minimum Qualifying Marks for selection	
			SCs, SC(A)s, STs, BC(OBCM)s, MBCs/DCs and BCMs	Others
<u>Paper - I (Subject Paper)</u> (200 Questions) <u>Diploma Standard</u> 1. Civil Engineering (Code No. 299) 2. Architectural Assistantship (Code No. 323) 3. Handloom Technology /Textile Technology/Textile Manufacture (Code No. 339)	3 hours	300	150	200
<u>Paper- II (General Studies)</u> (100 Questions) (Code No.003) General Studies (HSC Standard) – 75 Questions and Aptitude and Mental Ability Test (SSLC Standard) – 25 Questions	2 hours	200		
Total		500		

Paper-I :-

Sl. No. 1 Eligible for the posts of Junior Draughting Officer in Highways Department, Junior Draughting Officer in Public Works Department and Junior Engineer in Fisheries Department.

Sl. No. 2 Only eligible for the post of Junior Draughting Officer in Public Works Department.

Sl. No. 3 Only eligible for the post of Junior Technical Assistant in Handlooms And Textiles Department.

Note:

- (i) The question in Subject Paper – I in Civil Engineering (Code 299)(Diploma Std) will be set both in English and Tamil. For all other subjects in Paper-I (Diploma Std) Code No.323,339) will be set in English Only. The Questions in Paper-II will be set both in Tamil and English.
- (ii) Refer [para 17 of 'Instructions to Applicants'](#) in regard to instructions to be followed while appearing for competitive examinations conducted by the Commission.
- (iii) The Syllabus for Examination is furnished in the [Annexure-II](#) of the Notification and also available in the Commission's website www.tnpsc.gov.in.

9. SELECTION PROCEDURE

Based on the marks obtained by the candidates in the Written Examination and subject to the rule of reservation of appointments, the tentative list of eligible candidates for certificate verification will be announced in the Commission's website. After verification of the original certificates, the eligible candidates will be summoned for final selection through counselling method ([For details refer Para 18 \(C\) of Commission's 'Instructions to Applicants'](#)).

- Note: 1. The selection for the carried forward vacancies (i.e for the post of Junior Draughting Officer in Highways Department) will be made first. [Section 27 of the Tamil Nadu Government Servants (Conditions of Service) Act, 2016]
2. Followed by the selection for regular vacancies following the rule of reservation of appointments.

10. CENTRE FOR EXAMINATION

Examination will be held at the following centres: -

Sl. No.	Name of the Centre	Centre Code	Sl. No.	Name of the Centre	Centre Code
1.	Chennai	0101	5.	Tirunelveli	2601
2.	Madurai	1001	6.	Salem	1701
3.	Coimbatore	0201	7.	Thanjavur	1901
4.	Trichirappalli	2501			

Note:

- (i) Applicant should choose any two of the above centres for writing the examination.
- (ii) Request for change of Examination centre will not be permitted ([For further details refer para 17 \(A\) \(ii\) of 'Instructions to Applicants'](#))
- (iii) The Commission reserves the right to increase or decrease the number of examination centres and to re-allot the applicants accordingly.
- (iv) Applicants should appear for the written examinations / certificate verification at their own expenses.

11. EMPLOYMENT DETAILS:

- (A) Candidates who are in the service of the Indian Union or a State in India or in the employment of Local Bodies or Universities or Quasi Government Organizations or Public Sector Units constituted under the authority of the Government of India or of a State in India, whether in regular service or in temporary service, must inform the Commission of such fact, at the time of applying. Suppression of the fact of employment by candidates shall result in rejection of candidature. ([Refer Para 14 \(P\) of Commission's 'Instructions to Applicants'](#))

(B) DECLARATION REGARDING CRIMINAL CASES(OR) DISCIPLINARY CASES:

- (i) Candidate's who have declared pending criminal or disciplinary cases in their online application, must upload/ produce the copy of First Information Report (FIR) or memorandum of charges/ show cause notice, as the case may be. Failure to upload/ produce such papers when called for, shall result in rejection of candidature.

- (ii) Candidates who have declared conviction in criminal cases or punishment in disciplinary cases, in their online application, must upload/ produce the relevant court orders and/ or release orders or memorandum of proceedings, as the case may be, when called for. Failure to upload/ produce such papers, shall result in rejection of candidature.
- (iii) In case any criminal case is filed / disciplinary action is taken against or conviction / punishment is imposed on candidate after submission of the on-line application at any stage of the recruitment process before the completion of the entire selection process, such candidates should report this fact to the Commission in the next immediate stage when Commission calls for uploading/producing documents. Failure to comply with these instructions shall result in rejection of candidature and debarment for a period of one year. For further details refer [para. 14 \(S\) of 'Instructions to Applicants'](#). Any violation of instruction therein will result in rejection of application and forfeiture of his/her candidature.

12. GENERAL INFORMATION:

- (A) The rule of reservation of appointments is applicable to this recruitment.
- (B) **Persons Studied in Tamil Medium:**
- i) As per Section 2(d) of the Tamil Nadu Appointment on preferential basis in the services under the State of Persons Studied in Tamil Medium Act, 2010, as amended by Act 35 of 2020, **Person studied in Tamil Medium means a person who has studied through Tamil medium of instruction upto the educational qualification prescribed for direct recruitment in the rules or regulations or orders applicable to any appointment in the services under the State.**
- ii) Candidates Claiming to be Persons Studied in Tamil Medium must upload /produce evidence for the same in the form of SSLC/HSC/Transfer Certificate, Provisional Certificate / Convocation Certificate / Degree Certificate/P.G Degree Certificate / Mark Sheets / Certificate from the Board or University or from the Institution as the case may be with a recording that he had undergone the entire duration of the respective courses through Tamil Medium of Instruction. (For further details refer to [para. 14 \(R\) of 'Instructions to Applicants'](#))
- (iii) Candidates must upload/ produce documents as evidence of having studied in Tamil medium, all educational qualification upto the educational qualification prescribed.
- Example:**
- If the prescribed educational qualification is Diploma, then the candidate should have studied the SSLC and Diploma / SSLC, HSC and Diploma, as the case may be, through Tamil medium of instruction. [[para. 14 \(R\) example \(c\) of 'Instructions to Applicants'](#)]**
- (iv) If no such document as evidence for 'PSTM' is available, a certificate from the Registrar / Principal / Head Master / Controller of Examination / Director of Education Institution, as the case may be, in the prescribed format (Available in the Instructions to Applicants) must be uploaded/produced, for each and every educational qualification up to the educational qualification prescribed.

- (v) Failure to upload/produce such documents as evidence for 'Persons Studied in Tamil Medium' for all educational qualifications up to the educational qualification prescribed, shall result in the rejection of candidature.
- (vi) Documents uploaded/produced as proof of having studied in Tamil medium, for the partial duration of any course/private appearance at any examination, shall not be accepted and shall result in the rejection of candidature.
- (C) The selection for appointment to the said posts is purely provisional subject to the final orders in the writ petitions, if any, pending on the files of the Hon'ble High Court of Madras and its Madurai Bench.
- (D) As per **Sections 27(c) of the Tamil Nadu Government Servants (Conditions of Service) Act, 2016**, reservation of appointment to "Ex-servicemen" will be applicable to this recruitment except for the post of Junior Engineer in Fisheries (Refer Para 14 (N) and 14 (O) of 'Instructions to Applicants' for prescribed format for Ex-Servicemen respectively)

As per Sections 26 of the Tamil Nadu Government Servants (Conditions of Service) Act, 2016, reservation of appointment to "Destitute Widow" is **not applicable** to this recruitment.

(E) PERSONS WITH BENCHMARK DISABILITY (DAP):

As per **G.O. (Ms.) No. 21, Welfare of Differently Abled Persons (DAP.3.2) Department, dated 30.05.2017** and **G.O. (Ms.) No. 51, Welfare of Differently Abled Persons (DAP.3.2) Department, dated 26.12.2017**, the said posts are classified under Group C categories and 4% reservation of vacancies earmarked for the differently abled persons(Persons with Bench Mark Disability) shall be applicable.

As per **G.O. (Ms.) No. 20, Welfare of Differently Abled Persons (DAP.3.2) Department, dated 20.06.2018**, the following post has been identified with suitable differently Abled Categories as detailed below:

Name of the Post	Category of Bench Mark Disability
Junior Engineer in Fisheries Department.	LC, DF, LV, LD(OA) and MD

[LC- Leprosy cured, DF- Dwarfism, LV- Low vision, LD(OA)- Loco-motor disability (One Arm) and MD- Multiple Disabilities].

- (F) Persons with Benchmark Disability should submit / upload a copy of Disability Certificate obtained from the competent authority [in the format as prescribed in Forms V, VI & VII, in the Government of India Rights of Persons with Disabilities Rules, 2017 as specified in **G.O. Ms No.28, Welfare of Differently Abled Persons (DAP 3.1) Department, dated 27.07.2018**]. (For Further details refer Para 14 (M) of 'Instructions to Applicants')
- (G) If no qualified and suitable women applicants are available for selection against the vacancies reserved for them, those vacancies will be filled by male applicants belonging to the respective communal categories . [Section 26(5) of the Tamil Nadu Government Servants (Conditions of Service) Act, 2016].

(H) Wherever vacancies are reserved for Arunthathiyars on preferential basis, even after filling the vacancies reserved for SC (Arunthathiyars) on preferential basis, if more number of qualified Arunthathiyars are available, they shall be entitled to compete with the Scheduled Castes other than Arunthathiyars in the inter-se-merit among them and if any posts reserved for Arunthathiyars remain unfilled for want of adequate number of qualified applicants, it shall be filled by Scheduled Castes other than Arunthathiyars. [Section 27 of the Tamil Nadu Government Servants (Conditions of Service) Act, 2016].

(I) Evidence for all the claims made in the online application should be uploaded / submitted in time when documents are called for. Any subsequent claim made after submission of online application will not be entertained. Failure to upload / submit the documents within the stipulated time limit will entail rejection of application.

(J) Suppression of following material information in the online application regarding (i) free chances availed (ii) Employment in the Service of the Indian Union or a State in India or in the employment of Local Bodies or University or Quasi Government Organization or Public Sector units constituted under the authority of the Government of India or of a State in India in regular service or temporary service (iii) Wilful suppression of criminal cases / disciplinary action pending / punishments if any, against the applicant (iv) violation of undertaking given by the applicant in the online application etc., may invite suitable penal action including debarment for a specific period as decided by the Commission for various recruitments/ selections conducted by the Commission, besides rejection of application.

(K) Correct and true information regarding arrest, convictions, criminal or any disciplinary proceedings initiated / pending or finalised, debarment / disqualification by any recruiting agency if any should also be furnished to the Commission at the time of application.

The details thereof, i.e. originals of the judgement / order / G.O. dropping further action in the departmental proceedings or any document that may prove the suitability of such applicants for appointment in such cases must be produced at the stage / time of certificate verification without fail. All such events that occur after the submission of application and till the date of his / her selection and appointment shall be reported to the Commission forthwith. Failure to report on the part of the applicant will be considered as suppression of material information and will attract suitable penal action.

(L) Incomplete applications and applications containing wrong claims or incorrect particulars relating to category of reservation / eligibility / age / Gender communal category / educational qualification / medium of instruction / physical qualification / other basic qualifications and other basic eligibility criteria will summarily rejected.

(M) One Time Registration is not an application for any post / recruitment. Though the details/particulars have already been furnished by the applicants under One Time Registration system, **the claims made in the online application for this recruitment alone will be taken into consideration.** The Commission will not be

responsible for any consequences arising out of furnishing of incorrect and incomplete details in the application or omission to provide the required details in the application for this recruitment.

(N) Refer **Annexure-III** of this notification regarding determination of community and reservation in employment for Third Gender.

(O) Determination of Community for Third Gender:

- (i) The Third Gender candidates, who do not possess any community certificate may choose to be considered under Most Backward Class as per G.O.(Ms) No.28, Backward Classes, Most Backward Class and Minorities Welfare Department, dated 06.04.2015 or under 'Others'.
- (ii) The Third Gender candidates who belong to Scheduled Caste/ Scheduled Caste (Arunthathiyars)/ Scheduled Tribe communities and possess community certificate as such, shall be considered as per their respective community.
- (iii) The Third Gender candidates who belong to the communities other than Scheduled Caste/ Scheduled Caste (Arunthathiyars) / Scheduled Tribe and possess community certificate as such, are permitted to choose to be considered as belonging to their own community or as Most Backward Class, whichever is advantageous to them, at the time of One Time Registration itself. Once the individual opts to be considered a particular community it shall be crystallized and this option shall not be changed in future. (Refer Para 14 (F) (vi -xi) of Instructions to Applicants)

(P) Reservation in Employment for Third Gender:-

- (i) The Third Gender candidates who identify themselves as 'Female' shall be considered against both 30% reservation for women as well as 70% reservation for the General category (both Men & Women).
- (ii) The Third Gender candidates, who identify themselves as 'Male' or 'Transgender', shall be considered against the 70 % reservation for General category (both Men & Women).
- (iii) The above concessions shall be granted subject to production of certificate identifying them as Third Gender or Third Gender (Male) or Third Gender (Female), as the case may be, issued by the Tamil Nadu Third Gender Welfare Board (TNTGWB)."

13. OTHER IMPORTANT INSTRUCTIONS:

- (a) Before applying for/ appearing for the examination, the Applicants should ensure their eligibility for such examination and that they fulfil all the conditions in regard to age, educational qualifications, number of chances for free concession, etc., as prescribed by the Commission's notification. Their admission to all stages of the examination will be purely provisional, subject to the satisfying the eligibility conditions. Mere admission to the written examination/Certificate Verification /Counselling or inclusion of name in the selection list will not confer on the candidates any right to appointment. The candidature is therefore, provisional at all stages and the Commission reserves the right to reject candidature at any stage, even after selection has been made, if a wrong claim or violation of rules or instructions is confirmed (Refer Para 11 (B) (C) & (D) of 'Instructions to Applicants')

- (b) The memorandum of admission (hall ticket) for eligible applicants will be made available in the Commission's website www.tnpsc.gov.in or www.tnpscexams.in for downloading by applicants. The memorandum of admission will not be sent by post. The applicants must comply with each and every instruction given in the memorandum of admission. (Refer in Note (g) of Para 2 (V) of "Instructions to Applicants")
- (c) **Online Correspondence** :- In case of any guidance / information / clarification regarding applications, candidature, etc., applicants can contact the Commission's office in person or over the Commission's Toll-Free No. 1800 425 1002 on all working days between 10.00 a.m. and 05.45 p.m. Queries relating to One Time Registration/ online application may be sent to helpdesk@tnpscexams.in. Other queries may be sent to contacttnpsc@gmail.com. (Refer in Note (h)(i)(j) under Para 2(V) of 'Instructions to Applicants')
- (d) **COMMUNICATION TO APPLICANTS:** Individual communication regarding the date and time of Certificate Verification and Counselling (as applicable) will not be sent to the applicants by post. The details will be made available on the Commission's website. Applicants will be informed of the above fact only through SMS and e-mail and they should watch the Commission's website in this regard. Commission is not responsible for non-delivery of SMS/e-mail due to any reasons.
- (e) ***During the process of recruitment from Notification till completion of entire Selection process, no information under Right to Information Act, GRC and CM special cell petitions, would be furnished.***
- (f) **MOBILE PHONES AND OTHER ARTICLES BANNED :**
- i) Except the permitted writing material (i.e. Black ballpoint pen Only), applicants are not allowed to bring cellular phones, electronic or any other type of calculators, watches and rings with inbuilt memory notes, recording devices either as a separate piece or part of something used by the applicant such as watch or ring etc or any other electronic devices and non - electronic devices such as P&G design data book, mathematical and drawing instruments, log tables, stencils of maps, slide rules books, notes, loose sheets, rough sheets, hand bags etc., into the examination hall / room.
 - ii) If they are found to be in possession of any such things or instruments, they will not be allowed to write the examination further, besides invalidation of answer paper and / or debarment. If it is considered necessary, they will be subjected to thorough physical search including frisking on the spot
 - iii) Applicants are advised, in their own interest, not to bring any of the banned items including mobile phones to the venue of the examination, as arrangements for safekeeping of the same cannot be assured.(for further details refer Para 17-E of 'Instructions to Applicants')
- (g) Unless specific instruction is given, applicants are not required to submit along with their application any certificates (in support of their claims regarding age, educational qualifications, physical qualification, community, physical disability etc.) which should be submitted when called for by the Commission. Applicants applying for the recruitment should ensure that they fulfil all the eligibility

conditions for admission to the recruitment. Their admission at all the stages of recruitment for which they are admitted by the Commission will be purely provisional, subject to their satisfying the prescribed eligibility conditions. If, on verification at any time before or after the written examination / certificate verification, it is found that they do not fulfil any of the eligibility conditions, their candidature for the recruitment will be rejected summarily by the Commission.

- (h) If any of their claims is found to be incorrect, it will lead to rejection of their candidature and suitable penal action including debarment.
- (i) **UNFAIR MEANS STRICTLY PROHIBITED:** No applicant shall copy from the papers of any other applicant or permit his / her papers to be copied or give or attempt to give or obtain or attempt to obtain irregular assistance of any description.
- (j) **CONDUCT IN THE EXAMINATION HALL:** No applicant should misbehave in any manner or create a disorderly scene in the examination hall or harass the staff employed by the Commission for the conduct of the examination. Any such misconduct will be viewed seriously and penalised.
- (k) For violation of “Instructions to Applicants” in any manner, suitable penalty will be imposed as per [Para 17-E “Instructions to Applicants”](#) or as deemed fit by the Commission.
- (l) Tentative answer keys will be hosted in the Commission’s website within 3 (three days) from the date of conduct of objective type examination. candidates can challenge the tentative answer keys of the objective type examination through the ‘Answer Key Challenge’ window available in the Commission’s website [Results → Answer Keys]. Representations, if any, challenging the tentative answer keys shall be submitted only through online mode **within seven days from the date of publication of tentative answer keys**. Representations received by post or e-mail will receive no attention.

Detailed instructions – procedures to challenge the tentative answer keys have been made available on the Commission’s website. Representations made online after the closure of the window will also receive no attention.

The challenges submitted on time, through the online mode, shall be referred to a committee comprising of experts in each subject. The decision on the final answer key shall be made, based on the recommendations of the expert committee and paper evaluation shall commence thereafter.

The Commission shall not publish the final answer key until the completion of the entire selection process.

Requests from the candidates for furnishing of their marks or answer paper copy before the completion of the entire selection process, will not be entertained by the Commission.

After conclusion of the entire selection process, Complete particulars of all candidates who had applied for recruitment to post shall be made available in the Commission’s website ([Refer Para 17 \(D\), \(v\)-\(xiii\) of ‘Instructions to Applicants’](#))

14. HOW TO APPLY:

1. Applicants should apply only through online mode in the Commission's Websites www.tnpsc.gov.in / www.tnpscexams.in.
2. One-Time Registration (OTR) using Aadhaar is mandatory before applying for any post. Applicant should register only once in the One-Time Registration by paying Rs.150/- as Registration fee. Successfully registered One-Time Registration is valid for 5 years from the date of Registration. All the applications should be submitted using the One-Time Registration ID and password registered by the applicant.
3. To apply under One-Time Registration system, the applicants should have a scanned image of their photograph, certificate wherever insisted and signature in CD/DVD/Pen Drive to upload the same as per the specifications given in the guidelines for scanning and uploading of photograph and signature. (Refer Para 2 of 'Instructions to Applicants')
4. No applicant is permitted to create more than one registration ID in One-Time Registration System.
5. Applicants should enter the Unique ID and password to view the already available information and update them. They shall not share the ID with any other person or agency.
6. One-Time Registration is not an application for any post. It is just a collection of information from the applicants and giving a separate dashboard to each applicant to facilitate them to maintain their own profile. Applicant who wishes to apply for any post shall click "[Apply](#)" against the post Notified in the Commission's Website and use the same USER ID and PASSWORD given for ONE - TIME REGISTRATION.
7. Applicants should select the name of the post or service for which they wish to apply.
8. Applicants are required to upload their photograph and signature as per the [para. 2-N,O and P of the 'Instructions to Applicants'](#).
9. Online application submitted without the photograph, specified documents and signature will be rejected.
10. All the particulars mentioned in the online application including name of the Candidate, Post applied, educational qualifications, Communal Category, Date of Birth, Address, Gender and Email ID, Centre of Examination etc. will be considered as final and no modifications will be allowed after the last date specified for applying online. Since certain fields are firm and fixed and cannot be edited, applicants are requested to fill in the online application form with the utmost care and caution as no correspondence regarding change of details will be entertained.

11. Print Option

- a) After submitting the application, applicants can print / save their application in PDF format.
- b) On entering user ID and password, applicants can download their application and print, if required.

c) Applicants need not send the printout of the online application or any other supporting documents to the Commission. The certificates will be verified only when the applicants reach the zone of consideration for Certificate Verification.

12. **One -Time Registration will not be considered as an application for any post.** (For further details refer para 2 of 'Instructions to Applicants')

15. UPLOAD OF DOCUMENTS:

The applicants must upload / submit the documents whenever called for specifically. If the required certificates are not uploaded by the applicant, within the stipulated time, his/ her application will be rejected. (For further details refer para 13 of 'Instructions to Applicants')

16. LAST DATE FOR SUBMITTING APPLICATION:

The Online Application can be submitted upto 04.04.2021 till 11.59 p.m., after which the link will be disabled. (For detailed information applicants may refer Commission's '[Instructions to Applicants](#)' at the Commission's website www.tnpsc.gov.in)

DISCLAIMER

“The Government orders relating to Equivalence of qualification are available on the Tamil Nadu Public Service Commission’s website. However, if the applicant possesses an equivalence of qualification other than one mentioned in the Commission’s website and if Government orders to this effect have been issued on or before the date of this notification, applicants should furnish the details of the same while applying and should produce a copy of the Government orders, when called for by the Tamil Nadu Public Service Commission, failing which their application will be rejected. **The Government orders regarding equivalence of qualification issued after the date of this notification will not be considered for this recruitment”.**

Secretary

ANNEXURE-I

The following qualifications are declared as equivalent.

S.No	Qualification	G.O. in which ordered
1.	காந்தி கிராம ஊரகக் கலை கழகத்தால் வழங்கப்படும் “காதி மற்றும் கைத்தறி நுட்பவியல் பட்டயத்தினை” (Diploma in Khadi and Handloom Technology) “துணநூல் தொழில்நுட்பவியல் பட்டயம்” மற்றும் “கைத்தறி நுட்பவியல் பட்டயத்திற்கு” (Diploma in Textile Technology and Diploma in Handloom Technology) இணையாக அங்கீகரிக்கப்படுகிறது.	அரசு ஆணை (நிலை) எண். 71,பணியாளர் மற்றும் நிருவாகச் சரதருத்த (ஆர்) துறை,நாள 04.072002.
2.	(i) B.Tech (Textile Technology) in Anna University, Bharathiar University , Madras University and Periyar University is equivalent to Diploma in Handloom Technology obtained from the Indian Institute of Handloom Technology, Salem or Varanasi or from any other recognised Institute of Handloom Technology. (ii) B.E (Textile Technology) Bharathidasan University and Madras University is equivalent to Diploma in Textile Manufacture obtained from the Technological Diploma Examination Board, Chennai or the State Board of Technical Education and Training, Tamil Nadu.	G.O.(Ms).No.178, Higher Education (J1) Department, dated 17.07.2015.
3.	(i) Diploma in Textile Technology with Maintenance of Textile Machineries offered by State Board of Technical Education,Tamil Nadu is equivalent to Diploma in Handloom Technology obtained from Indian Institute of Handloom Technology, Salem or Varanasi or from any other recognized Institute of Handloom Technology.	G.O.(Ms).No.57, Handloom, Textiles and Khadi (E2) Department, dated 22.03.2018

4..	<p>(i) Diploma in Textile Manufacturing (Sandwich) offered by State Board Technical Education and Training, Tamil Nadu is equivalent to Diploma in Handloom Technology obtained from Indian Institute of Handloom Technology, Salem or Varanasi or from any other recognized Institute of Handloom Technology.</p> <p>(ii) B.Sc., Textile offered by Madurai Kamaraj University is equivalent to Diploma in Textile Manufacture obtained from the Technological Diploma Examination Board, Chennai or the State Board of Technical Education and Training, Tamil Nadu.</p> <p>(iii) B.Tech (Textile Technology) offered by Anna University, Bharathiar University, Madras University and Periyar University is equivalent to Diploma in Textile Manufacture obtained from the Technological Diploma Examination Board, Chennai or the State Board of Technical Education and Training, Tamil Nadu.</p> <p>(iv) B.E (Textile Technology) offered by Bharathidasan University and Madras University is equivalent to Diploma in Textile Manufacture obtained from the Technological Diploma Examination Board, Chennai or the State Board of Technical Education and Training, Tamil Nadu.</p>	G.O.(Ms).No.57, Handloom, Textiles and Khadi (E2) Department, dated 22.03.2018
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Qualification	G.O. in which ordered
The Diploma in Civil Engineering awarded by the College of Military Engineering, Pune, be recognized for the purpose of recruitment of Ex-Servicemen to posts in Public Services.	G.O.(Ms.) No.299, Personnel and Administrative Reforms (R) Department, dated 18.12.1998

ANNEXURE – II
TAMIL NADU PUBLIC SERVICE COMMISSION
PAPER – I
CIVIL ENGINEERING (DIPLOMA STANDARD)
Objective Type

SUBJECT CODE: 299

UNIT - I: ENGINEERING MECHANICS

Direct Stresses and strains (Tensile and compressive) due to Axial forces – Deformation of elastic bar due to uni-axial force - Shear force and bending moment diagrams for statically determinate beams - Geometrical properties of sections - Stresses in beams due to bending – Stresses in shafts due to torsion – Pin jointed perfect frames with vertical loads on nodal points (method of joints only).

UNIT - II: MECHANICS OF STRUCTURE

Deflection of cantilever and simply supported beams – Shear force and bending moment diagrams for statically indeterminate structures (Propped cantilever, Fixed Beams, continuous beams, Non-sway Portal frames) using Mohr's theorems and moment distribution method. Euler's and Rankin's formula for columns – Stresses due to eccentric loads – combined stresses due to direct loads and bending moments in rectangular sections.

UNIT - III: CONSTRUCTION MATERIALS & CONSTRUCTION PRACTICE

Bricks, Tiles, Cement, Fine Aggregate, Coarse Aggregate, Timber, Ply wood, Steel, Glass, Plastics, PVC, UPVC, Paints, Mortars, Concrete – Different types, qualities, requirements, standard specifications, Admixtures for cement mortar and concrete. Different types of Foundations, Masonry, Floors, Roofs, Doors and Windows, Weathering Course, Damp proof course, Plastering, Painting, Colour Washing – Specifications for different works.

UNIT - IV: TRANSPORTATION ENGINEERING

Roads – Different types – methods of formation of water bound macadam, bituminous and concrete roads – Hill roads – Requirements – Camber, gradient, super elevation, carriage way, pavements, drainage system, sight distance etc., Traffic Engineering, Bridges – Classification of bridges – Site selection and alignment – Foundation, substructure and super-structure. Sub-grade soil – Soil mass as a three phase system – Grain size classification - Atterberg limits – IS Classification of soils–Compaction – Shear strength – Road Arboriculture – Express Highways – Rapid Transport System.

UNIT - V: HYDRAULICS

Measurement of pressure in liquids – Pressure distribution and total pressure on immersed surfaces – Types of flow (Laminar, turbulent, steady, unsteady, uniform, nonuniform) – Flow through pipes – Losses – Hydraulic gradient and total energy lines. Bernoulli's theorem – use of Orifice, Mouthpiece, Orifice meter and Venturimeters – Flow through channels – Bazin's and Manning's formula – Economical sections for open channels, Pumps – Reciprocating pumps – Centrifugal pumps – Characteristics – Discharge – Power and efficiency, Ground water – Types of well – Test for yield of wells.

UNIT - VI: SURVEYING

Types of Surveys –Chain surveying – Compass surveying – Levelling – Contour surveying – Theodolite surveying – Trigonometrical levelling – Tacheometry – Field work – Simple problems. Curves, Global Positioning System (GPS), Remote sensing – Photogrammetric Surveying and Hydrographic Surveying, Total Station and Geographical Information System (GIS).

UNIT - VII: ENVIRONMENTAL ENGINEERING AND POLLUTION CONTROL

Sources of water – Conveyance of water – Treatment of water – Quality of water – Tests on water –Distribution systems – Sewers – Collection and conveyance of sewage– Sewer Appurtenances – Drainage arrangements and Sanitary fittings in buildings –Treatment and disposal of sewage, Solid waste Management. Environmental pollution – Air – water – Soil – Noise - Pollution Control.

UNIT - VIII: ESTIMATING AND COSTING

Systems of taking out quantities – Trade and Group systems – Material requirement for different items of works – Preparation of data for works – Report writing – Valuation of buildings and properties – Fixation of rents – Approximate estimates – Detailed estimate and Abstract estimate for buildings, well, sump, septic tanks, compound wall, roads etc.

UNIT - IX: STRUCTURAL ENGINEERING

Reinforced cement concrete structure – Analysis and design of singly and Doubly reinforced rectangular and T-beam sections – Cantilever, simply supported, continuous beams – One way and two way slabs – Lintels and sunshades – Staircases – Rectangular and circular short columns – Isolated column footings. (All designs by Limit State Method only). Steel structures – simple beams –Tension and compression members – simple columns.

UNIT - X: CONSTRUCTION MANAGEMENT

Planning of a project – Factors to be considered – Project reports – Organization structure on construction departments – Construction planning – CPM and PERT networks – Contracts – Tenders and Tender documents – Bill- Supervision and Quality control – Safety measures in construction sites – Banking practice – Cash flow diagrams. Entrepreneurship, Ethics in Engineering, Use of computers – Information Management, Financial Management, Disaster Management – Types of Natural calamities – Causes for major disaster – Preparedness – Response and Recovery.

ARCHITECTURAL ASSISTANTSHIP
(DIPLOMA STANDARD)

SUBJECT CODE: 323

UNIT – I: ENGINEERING MECHANICS

Simple Stresses and Strain – Stress and Strain – Modulus of Elasticity / Elastic constants – Application of stress and strain in engineering field – Behaviour of ductile and brittle material – Loads – Shear Force and Bending Moment – Geometrical properties of sections – Centroid – Moment of Inertia – Stress in Beams and Shafts – Stresses in Beams due to bending – Stress in shafts due to torsion – Pin Jointed Frames - Analytical Method – Graphical Method.

UNIT – II: BUILDING MATERIALS & CONSTRUCTION

Properties, characteristics, strengths, manufacturing, components & applications of materials & methods of construction & detailing for the following:

Stone – Brick & Clay Products – Lime – Cement – Timber – Concrete – Ferrous and Non-Ferrous Metals – Glass – Plastics – Asphalt, Sealants & Adhesives – Protective and Decorative Coatings – Water Proofing and Damps Proofing Materials – Rural Building Materials(Bamboo, Soil, etc.).

UNIT – III: HISTORY & THEORY OF ARCHITECTURE

History of Architecture

Egyptian Architecture – Greek Architecture – Roman Architecture – Early Christian & Byzantine Architecture – Gothic Architecture – Renaissance Architecture. Indian Architecture – Indus Valley Civilization, Buddhist Architecture, Hindu Architecture – Islamic Architecture in India. Modern Architecture, Post Modernism, Deconstructivism Contemporary World Architecture.

Theory of Architecture

Definition of Architecture – Architecture as satisfying functional, aesthetic & psychological human needs. Elements of Architecture – Form, Space, Light, colour, etc. Principles of Architecture – Proportion, Balance, Scale, Symmetry, etc.

UNIT – IV: STRUCTURAL ENGINEERING

Slope and Deflection of Beams – Propped Cantilevers – Fixed Beams – Arches – Continuous Beams – Theorem of Three Moments – Continuous Beams – Moment Distribution Method – Columns and Struts – Combined Bending and Direct Stresses – Earth Pressure and Retaining Walls – Working Stress Method Design of Beams for Flexure by L.S.M – Design of T-Beams and Continuous Beams by L.S.M – Design of Beams for Shear by L.S.M – Design of Oneway Slabs by L.S.M - Design of Twoway Slabs by L.S.M - Design of Staircases by L.S.M - Design of Columns by L.S.M - Design of Column Footings – Design of Simple Beams – Design of Tension Members – Design of Compression Members – Design of Welded Connections.

UNIT – V: ENVIRONMENTAL ENGINEERING

Sources of Water – Collections and Conveyance of Water – Quality of Water – Treatment of Water – Distribution System – Appurtenances and Maintenance of Water Lines – Collections and Conveyance of Sewage – Treatments and Disposal – Environmental Pollution and Control – Industrial Waste Water Treatment and Solid Waste Disposal – Land, Water & Air Pollution.

UNIT – VI: BUILDING SERVICES

Water Supply & Sewage Disposal, Mechanical Systems – Pumps & Motors, Electrical Systems – Generation & Distribution, Ventilation & Lighting, Air Conditioning – Principles, systems & applications, Vertical Transportation systems, Fire Hazards, Safety & Design Regulations, Acoustics.

UNIT – VII: SITE SURVEY & PLANNING

Chain Surveying – Compass Surveying – Plane Table Surveying – Levelling – Theodolite – Contouring – Minor Instruments.

Site Drawings – Site marking, Importance & procedures for making site drawings & dimensioning.

UNIT – VIII: SPECIFICATION & ESTIMATION

Stages of Detailed Estimate – Measurements & Material Requirement – Specification & Report Writing – Approximate Estimates – Areas and Volumes – Data – Valuation – Detailed Estimate.

UNIT – IX: TOWN PLANNING

Town Planning Principles – Road and Street Planning – Housing – Economy, Society, Environment and Transport Policy and Planning – Town Planning Rules, Building Bye-Laws & Development Control Rules.

UNIT – X: COMPUTER AIDED DRAFTING & VISUALIZATION

2D & 3D Drafting & Visualization - Using AutoCAD, etc– Setting limits and creating entities like LINE, ARC, CIRCLE etc – Editing the drawing with edit commands like TRIM, FILLET, COPY, MOVE etc., Creating 2D building working drawings.

Visualization using SKETCH UP, 3DMAX, etc.

HANDLOOM TECHNOLOGY / TEXTILE TECHNOLOGY/
TEXTILE MANUFACTURE (DIPLOMA STANDARD)
SUBJECT CODE: 339

UNIT- I: FIBRE PROPERTIES AND MAN-MADE FIBRE SPINNING

- i) Properties of textile fibres
- ii) Classification of Textile fibres – vegetable, animal, mineral, regenerated, synthetic
- iii) Microscopic, physical and chemical test methods for fibre identification
- iv) Physical & Chemical properties of Vegetable fibres – Cotton, Jute, linen
- v) Physical & Chemical properties of Animal fibres – Wool, Silk
- vi) Physical & Chemical properties of Regenerated Cellulosic fibres – Viscose and Acetate Rayon, Cuprammonium Rayon
- vii) Physical & Chemical properties of Synthetic fibres – Polyester, Nylon
- viii) Requirements of fibre forming polymers
- ix) Spinning of Polymers - Melt Spinning, Wet spinning, Dryspinning
- x) Post Spinning Operations – Drawing, Crimping, Heat setting, Texturisation and spin finish application

UNIT- II: SPUN YARN FORMATION

- i) Ginning – Principle, machines and gin out-turn.
- ii) Objectives / Principles of opening, cleaning and mixing/blending machines
- iii) Working mechanisms of blowroom, card, drawframe, comber, comber preparatory, speedframe, ringframe, doubling machinery.
- iv) Salient features of blowroom, card, drawframe, comber, comber preparatory, speedframe, ringframe, doubling machinery.
- v) Working principles and features of open end spinning machines – rotor, air jet and air vortex
- vi) Norms and Critical settings related to quality / production in spinning machinery.
- vii) Yarn conditioning, reeling, bundling and baling
- viii) Maintenance of spinning machines

UNIT- III: TEXTILE CALCULATIONS

- i) Calculations of speed, draft, hank, production and efficiency in spinning machines.
- ii) Production and efficiency calculations in Winding, Warping, Sizing and Weaving
- iii) Indirect count systems –English, French, Worsted, linen and metric
- iv) Direct count systems – Tex and Denier.
- v) Conversion of yarn count from one system to other -Within Indirect, within Direct systems
- vi) Conversion of yarn count from indirect to direct systems and vice versa
- vii) Resultant count of folded yarn, Average count, Yarn Costing
- viii) Reed and heald calculations; Fabric cover, Fabric Costing.

UNIT- IV: FABRIC FORMATION

- i) Objectives of preparatory processes
- ii) Preparatory processes for handloom industry
- iii) Warp winding - random and precision winding, winding drum parameters
- iv) Stop motions, yarn clearers, tensioners and knotters/splicers

- v) Warping –Types of warping, Creels, Length measurement, stop motion
- vi) Working principles of Pirn winders
- vii) Sizing –Ingredients, Size recipes for cotton, silk and blends of cotton with polyester and viscose.
- viii) Principles of Drawing-in and Denting.
- ix) Primary, Secondary and Tertiary motions of loom, Loomtiming diagram.
- x) Tappet, Dobby and Jacquardshedding, Handloom shedding motion, Drop Box mechanism.
- xi) Features of Pit loom, raised pit loom, frame loom, semi-automatic loom and improved handlooms.
- xii) Principles of Shuttleless Weft insertionsystems.
- xiii) Maintenance of shuttle and shuttleless looms
- xiv) Fabric defects – causes and remedies

UNIT- V: FABRIC STRUCTURE

- i) Elements of woven fabric design – weave, draft and peg plan
- ii) Construction of Weaves - Plain weave and its derivatives, Regular and Modified Twills, Sateen and Satin, Crepe, Honey comb, Brighton honey comb, Mock-leno, Huck-a-back, Bedford cords, Welt, pique, backed cloth, Double Cloth, Triple Cloth, Tubular cloth, damask, tapestry, patent satin.
- iii) Extra warp and Extra weft figuring
- iv) Terry Pile – 3 pick, 4 pick, 5 pick and 6 pick terry weaves.
- v) Cut Pile – Velvets and Velveteens.
- vi) Gauze and Leno structures
- vii) Colour and Weave Effect
- viii) Computer Aided Textile Designing (CATD) – Photoshop, Coreldraw, Paintshop Pro and CATD softwares

UNIT - VI: CHEMICAL PROCESSING

- i) Preparatory processes – Desizing, Scouring and Bleaching – Objectives, Machines and Methods
- ii) Mercerisation – Objectives, Machines and Methods
- iii) Dyeing techniques for cotton, silk and blends– Direct, Reactive, Vat, Acid, Basic and Disperse dyes.
- iv) Batchwise and Continuous dyeing. Dyeing machines.
- v) Styles of printing – Direct, Resist, Discharge.
- vi) Printing techniques – Roller, Rotary Screen, Flat bed.
- vii) Mechanical and chemical finishing – calendaring, anti-shrink, resin finish, water repellent finish, flame retardant finish.

UNIT - VII: KNITTING, GARMENTS & MODERN DEVELOPMENTS IN HANDLOOMS

- i) Knitting - Yarn quality requirements, principles of weft and warp knitting
- ii) Basic weft and warp knitted structures and its properties – plain, rib, interlock and purl.
- iii) Garments - Pattern making, Spreading, Cutting, Sewing
- iv) Developments in Handlooms – Solid border weaving, multiple putta weaving, pneumatic / electrical lifting devices for jacquard, electronic jacquard for handlooms.

UNIT - VIII: TESTING & QUALITY CONTROL

- i) Important terms in Textile quality control – Mean, Median, Mode, SD, SE and CV.
- ii) Calculations related to test of significance.
- iii) Control charts and their applications in textile quality control.
- iv) Sampling techniques – objectives and types of sampling
- v) Humidity control – Standard and Testing atmosphere, Measurement of Relative Humidity.
- vi) Measurement of fibre length, strength, fineness, maturity and trash
- vii) Determination of yarn count, twist – Twist per unit length, twist multiplier; strength - CSP, RKM; elongation, hairiness, Evenness
- viii) Determination of fabric strength, stiffness, handle, drape, thickness, GSM, crease resistance, abrasion resistance, pilling resistance, air / water permeability, dimensional stability.
- ix) Determination of fastness to washing, rubbing, light.
- x) Inspection and Merchandising.

UNIT- IX: NONWOVENS, TECHNICAL TEXTILES & HANDLOOM FABRICS

- i) Classification of Nonwovens - Mechanical, Thermal and Chemical bonded fabrics
- ii) Technical Textiles- Belts, Tyre-cords, Coated abrasives, Airbags, Flame Resistant fabrics, Ballistic protective fabrics, Geotextiles, Medical Textiles.
- iii) Quality Particulars of handloom fabrics – Sarees, dhotis, angavastrams, bedsheets, towels, lungies, fabrics reserved for exclusive production on handlooms.
- iv) Traditional handloom Saris – Banaras, Kanchipuram, Jamdhani, Paithani, Chanderi, Patola, Sungudi, Ikats of Andhrapradesh and Orissa.

UNIT- X: TEXTILE MILL MANAGEMENT

- i) Plant location, lay out, material handling in textile mills
- ii) Selection and balancing of preparatory machines and looms
- iii) Costing – Elements, Balance sheet, Profit & Loss Account
- iv) Production, Planning & Control.
- v) Total Quality Management, Management Information System.
- vi) Human Resources management – Selection, recruitment, training, Industrial relations and Labour laws
- vii) Role of BIS, AEPC, HEPC, IIHT, WSC, Textile Committee, Textile Commissioner Office.
- viii) New Textile Policy.
- ix) Pollution Control: Types - Air, Water, Noise; Characteristics of Effluent and Effluent treatment of Wet Processing industry
- x) Energy audit and conservation.

PAPER-II
GENERAL STUDIES (H.S.C STANDARD)
OBJECTIVE TYPE

SUBJECT CODE: 003

UNIT-I GENERAL SCIENCE:

Physics: Nature of Universe-General Scientific laws-Inventions and discoveries-National scientific laboratories-Mechanics and properties of matter-Physical quantities, standards and units-Force, motion and energy-Magnetism, electricity and electronics -Heat, light and sound.

Chemistry-Elements and Compounds-Acids, bases and salts-Fertilizers, pesticides, insecticides.

Botany-Main Concepts of life science-Classification of living organism-Nutrition and dietetics-Respiration.

Zoology-Blood and blood circulation-Reproductive system-Environment, ecology, health and hygiene-Human diseases including communicable and non – communicable diseases - prevention and remedies-Animals, plants and human life.

UNIT-II. CURRENT EVENTS

History-Latest diary of events-national - National symbols - Profile of States-Eminent persons & places in news-Sports & games-Books & authors - Awards & honors'-India and its neighbours

Political Science-1. Problems in conduct of public elections-2. Political parties and political system in India-3. Public awareness & General administration-4. Welfare oriented govt. schemes, their utility

Geography--Geographical landmarks-

Economics-- Current socio-economic problems

Science-Latest inventions on science & technology

UNIT- III. GEOGRAPHY

Earth and Universe-Solar system-Monsoon, rainfall, weather & climate-Water resources --- rivers in India-Soil, minerals & natural resources-Forest & wildlife-Agricultural pattern-Transport including surface transport & communication-Social geography – population-density and distribution-Natural calamities – Disaster Management.

UNIT - IV. HISTORY AND CULTURE OF INDIA AND TAMIL NADU

Indus valley civilization-Guptas, Delhi Sultans, Mughals and Marathas-Age of Vijayanagaram and the bahmanis-South Indian history-Culture and Heritage of Tamil people-India since independence-Characteristics of Indian culture-Unity in diversity –race, colour, language, custom-India-as secular state-Growth of rationalist, Dravidian movement in TN-Political parties and populist schemes.

UNIT-V. INDIAN POLITY

Constitution of India--Preamble to the constitution- Salient features of constitution- Union, state and territory- Citizenship-rights amend duties- Fundamental rights- Fundamental duties- Human rights charter- Union legislature – Parliament- State executive- State Legislature – assembly- Local government – panchayat raj – Tamil Nadu- Judiciary in India – Rule of law/Due process of law—

Elections- Official language and Schedule-VIII- Corruption in public life- Anti-corruption measures – CVC, Lok-adalats, Ombudsman, CAG - Right to information- Empowerment of women- Consumer protection forms.

UNIT-VI. INDIAN ECONOMY

Nature of Indian economy- Five-year plan models-an assessment-Land reforms & agriculture- Application of science in agriculture-Industrial growth-Rural welfare oriented programmers-Social sector problems – population, education, health, employment, poverty-Economic trends in Tamil Nadu

UNIT-VII. INDIAN NATIONAL MOVEMENT

National renaissance-Emergence of national leaders-Gandhi, Nehru, Tagore-Different modes of agitations-Role of Tamil Nadu in freedom struggle Rajaji, VOC, Periyar, Bharathiar & others.

UNIT-VIII. APTITUDE & MENTAL ABILITY TEST (SSLC STANDARD)

Conversion of information to data - Collection, compilation and presentation of data - Tables, graphs, diagrams - Analytical interpretation of data - Simplification-Percentage - Highest Common Factor (HCF) - Lowest Common Multiple (LCM) - Ratio and Proportion - Simple interest - Compound interest – Area – Volume -Time and Work - Logical Reasoning - Puzzles – Dice -Visual Reasoning - Alpha numeric Reasoning - Number Series.

Annexure III**Abstract**

Social Welfare and Nutritious Meal Programme Department – Third Gender Welfare – Determination of the Community and Reservation in Employment for Third Gender – Orders – Issued.

Social Welfare and Nutritious Meal Programme [SWB (2)] Department**G.O.(Ms) No.90**

001384

Dated 22.12.2017

ஹெலிஎம்பி, டபார்கழி 7
தருவள்குரவர் ஆண்டு 2048

Read:

1. G.O. (Ms) No.127, Labour and Employment Department, dated 27.10.2014
2. G.O. (Ms) No.28, Backward Classes, Most Backward Class and Minorities Welfare Department, Dated 06.04.2015
3. G.O. (Ms) No.71, Social Welfare and Nutritious Meal Programme Department, Dated 06.11.2015

Read also:

4. From the Secretary, Tamil Nadu Public Service Commission, D.O.Letter No.4471/RND-D2/2013, dated 12.07.2016
5. From the Director of Social Welfare, Letter Roc.No.21096/WW.1(3)/2017, dated 31.07.2017

ORDER:-

In the Government Order first read above, orders were issued that Third Gender may register their names in Employment Exchange offices based on the certificate identifying them as Transgender issued by the Tamil Nadu Transgender Welfare Board (TGWB) and to sponsor their names for appointment in the vacancies reserved for women category namely 30% and as well as vacancies reserved for General Category (both Men and Women) namely 70%.

2. In the Government Order second read above, orders were issued classifying the "Transgender of Eunuch (Thirunagai or Aravani)" as Most Backward Class by including at Sl.No.36-C in the list of Most Backward Classes.

3. In the Government Order third read above, among other things orders were issued, that Transgender will be identified as 'Third Gender' apart from the Binary Gender System and they have the right to decide their self-identified gender as male or female or as the third gender.

4. The Secretary, Tamil Nadu Public Service Commission in the D.O. letter fourth read above has sought for following clarifications in this matter with regard to:-

- (i) Considering the Transgender under 30% reservation for Women

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- (ii) Treating the Transgender candidates who have claimed communal status under Scheduled Caste/ Scheduled Caste (A)/ Scheduled Tribe by producing respective Community Certificate confirming their claim.

5. After careful examination, in consultation with the concerned departments and the Director of Social Welfare, the Government hereby issue the following order regarding the determination of community and reservation in employment for the Third Gender in order to streamline the procedures to be followed by the recruiting agencies like Tamil Nadu Public Service Commission, Teachers Recruitment Board, Uniformed Services Recruitment Board, Medical Recruitment Board, etc., and Employment Exchange offices / appointing authorities, in sponsoring / recruiting / selecting the Third Gender candidates for appointment in Government Service:-

Determination of the Community:-

- (i) The Third Gender candidates, who do not possess any community certificate may be considered under Most Backward Class as per G.O.(Ms).No.28, Backward Classes, Most Backward Class and Minorities Welfare Department, dated 06.04.2015.
- (ii) The Third Gender candidates who belong to Scheduled Caste/Scheduled Caste (A)/Scheduled Tribe communities, and possess community certificate as such, may be considered as per their respective community.
- (iii) The Third Gender candidates who belong to the communities other than Scheduled Caste/Scheduled Caste (A)/Scheduled Tribe and possess community certificate as such (not covered under point (i) above) may be considered as per their own community or as Most Backward Class whichever is advantageous to them as per their option and once the individual exercises option for community selection it should be crystallized and this option should not be changed in future.

Reservation in Employment:-

- (i) The Third Gender candidates who identify themselves as "Female" by self-declaration supported by the certificate (ID card) issued by the Tamil Nadu Third Gender Welfare Board (TNTGWB) may be considered against both 30% reservation for women as well as 70% reservation for the General category (both Men & Women).
- (ii) The Third Gender candidates, who identify themselves as "Male" or "Third Gender", may be considered against the 70% reservation for General category (both Men & Women) as the case may be.

The above concessions may be granted subject to production of certificate identifying them as Third Gender or Third Gender (Male) or Third Gender (Female) issued by the Tamil Nadu Third Gender Welfare Board (TNTGWB), as the case may be.

(By Order of the Governor)

K. Manivasan,
Principal Secretary to Government

To
The Director of Social Welfare, Chennai-15
The Commissioner of Social Defence, Chennai-10

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The Director, Integrated Child Development Services Scheme, Chennai-113
 ✓The Secretary, Tamil Nadu Public Service
 Commission, Chennai-3
 All District Collectors
 All Departments of the Secretariat, Chennai-9
 The Commissioner of Backward Classes and Minorities Welfare, Chennai-5
 The Director of Most Backward Class and Denotified Communities, Chennai-5
 The Director of Adi Dravidar Welfare, Chennai-5
 The Director of Tribal Welfare, Chennai-5
 The Member Secretary, Tamil Nadu Backward Classes Commission, Chennai-4
 The Teacher Recruitment Board, Chennai-6
 The Tamil Nadu Uniformed Services Recruitment
 Board, Chennai-8
 The Medical Services Recruitment Board, Chennai -6
 The Director of Employment and Training, Chennai-32
 The Secretary to Government of India, Ministry of Social
 Justice and Empowerment, New Delhi

Copy to:

The Hon'ble Chief Minister's Office, Chennai-9
 The Senior Personal Assistant to the Minister for Social Welfare and Nutritious Meal
 Programme, Chennai-9
 All Sections in Social Welfare and Nutritious Meal Programme Department, Chennai-9
 Stock file/Spare copy

// Forwarded by Order //

V. T. Karjane
Section Officer

27-12-17

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Annexure-I V**Tentative Timeline for the Recruitment Process for the posts included in the Combined Engineering Subordinate Services Examination**

Sl. No.	Process	Timeline
1.	Publication of Written Examination results	Jul 2021
2.	Certificate upload for Certificate Verification	Aug 2021
3.	Certificate Verification	Sep 2021
4.	Counselling	Oct 2021

Secretary