



# TAMIL NADU PUBLIC SERVICE COMMISSION

NOTIFICATION NO. 14 /2018

DATED 06.08.2018

Applications are invited only through online mode upto 05.09.2018 for direct recruitment to the following post:-

Name of the Post and Code No.	Name of the Service and Code No.	No. of Vacancies	Scale of Pay
<b>Senior Chemist</b> (Post Code No.1881)	<b>Tamil Nadu Industries Service</b> (Service code No.043)	<b>2</b>	Level-22 Rs.56,100 – 1,77,500 (Revised Scale of Pay)

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 should apply online for this recruitment. (The One-Time Registration will be valid for 5 years from the date of registration. Thereafter, the registration should be renewed by paying the prescribed fee.)

## 2. DISTRIBUTION OF VACANCIES

GT	SC (A) (W) (PSTM)	Total
1	1	2

Abbreviation: W- Women, PSTM – Person Studied in Tamil Medium

## 3. IMPORTANT DATES AND TIME

<b>Date of Notification</b>	<b>06.08.2018</b>	
<b>Last date for submission of application</b>	<b>05.09.2018</b>	
<b>Last date for payment of Examination Fee through Bank (State Bank of India / Indian Bank)</b>	<b>07.09.2018</b>	
<b>Date and Time of Written Examination</b>		
<b>Paper –I (Chemistry)</b>	<b>03.11.2018 FN</b>	<b>10.00 A.M. to 01.00 P.M</b>
<b>Paper-II (General Studies)</b>	<b>03.11.2018 AN</b>	<b>02.30 P.M. to 04.30 P.M</b>

### Note

Refer Annexure-V of this notification regarding Tentative timeline for the recruitment process.

#### 4. FEES

a)	<p><b>Registration Fee</b> For One-Time Registration (Revised with effect from 01.03.2017 vide G.O.(Ms).No.32, Personnel and Administrative Reforms (M) Department, dated 01.03.2017)</p> <p><b>Note</b> (i) Applicants who have already registered in One-Time Registration system paying Rs.50/- before 01.03.2017 and those who have registered for One-Time Registration on or after 01.03.2017 by paying Rs.150/- (within the validity period of 5 years) are exempted from paying the registration fee for this recruitment.</p> <p>(ii) Applicants who have made One-Time Registration must pay the prescribed examination fee for this recruitment unless fee exemption is claimed.<b><u>(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)</u></b></p>	Rs.150/-
b)	<p><b>Examination Fee</b> <b>Note</b> The Examination fee <b>should be paid</b> at the time of submitting the online application for this recruitment if they are not eligible for fee concession noted below:-</p>	Rs.200/-

#### EXAMINATION FEE CONCESSION

CATEGORY	CONCESSION	CONDITION
(i) Scheduled Castes / Scheduled Caste (Arunthathiyars), Scheduled Tribes	Full Exemption	--
(ii) Differently Abled Persons, Destitute Widow of all communities	Full Exemption	(i) For Disabled persons, the disability should be not less than 40%. (ii) For DWs, the DW certificate should have been obtained from the RDO / Sub Collector / Assistant Collector.
(iii) Most Backward Class / Denotified Communities, Backward Classes (Other than Muslim) and BCM	Those who have not availed three free chances so far in the previous recruitments may avail exemption from payment of examination fee.	Should not have availed three free chances in the previous recruitments.
(iv) Ex-Servicemen	Those who have not availed two free chances so far in the previous recruitments may avail exemption from payment of examination fee.	(i) Should not have availed two free chances in the previous recruitments. (ii) Fee concession will not apply to those Ex-servicemen who have already been recruited to any class or service or category.

**Note**

- i. The three / two free chances referred to above are not for **EACH POST** but for **ANY THREE / TWO APPLICATIONS ONLY**. The claim for exemption from payment of examination fee made in any application which is rejected / admitted or withdrawn will be counted as free chance availed.
- ii. Failure to pay the prescribed fee along with the application in time will be liable for rejection of application.
- iii. The number of free chances availed by the applicant means, the total number of free chances hitherto availed by the applicant in his / her earlier application submitted to the Commission for any post / recruitment.
- iv. If the examination fee concession claimed in the applications is found to exceed the admissible limits as announced above, the application will be rejected at any stage of selection.
- v. The number of free chances availed by the applicants will be counted from the previous applications submitted through One-Time Registration and / or submitted directly without One-Time Registration i.e., before One-Time Registration made as mandatory.

(For further details regarding the Examination fee concession, refer para 12 of "[Instructions to Applicants](#)").

**5. MODE OF PAYMENT OF EXAMINATION FEE**

- Examination fee Rs.200/- (Rupees Two Hundred only) is payable by online through Net banking / Credit card / Debit card or it can be paid by offline at State Bank of India / Indian Bank within 2 days from the date of submission of online application by choosing the option in the online application.
- Applicants have to register their basic particulars through One-Time Registration which is mandatory on payment of Rs.150/- (Rupees One Hundred and Fifty only) towards registration fee and then should apply online for this recruitment The One-Time Registration will be valid for 5 years from the date of registration. Thereafter, the registration should be renewed by paying the prescribed fee. Applicants who have already registered in One-Time Registration system on payment of Rs.50/- before 01.03.2017 and having validity and those who have registered for One-Time Registration on or after 01.03.2017 by paying Rs.150/- towards One-Time Registration are exempted from paying the registration fee for this recruitment and it is enough to pay the examination fee alone.
- Applicants have also to pay the service charges applicable to the State Bank of India / Indian Bank.
- 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.

(For further details refer [para 2 \(13-23\)](#) of "[Instructions to Applicants](#)").

## 6. QUALIFICATIONS

### (A) AGE LIMIT (as on 01.07.2018)

Sl. No.	CATEGORY OF APPLICANTS	MAXIMUM AGE
1	"Others" [i.e., Applicants not belonging to SCs, SC(A)s, STs, MBCs/DCs, and BCs (OBCM) and BCMs	30 Years (should not have completed)
2	SCs, SC(A)s, STs, MBCs/DCs, BCs (OBCM), BCMs and DWs of all Castes	No Maximum Age Limit (should not have completed 58 years either on the date of notification or at the time of selection / appointment )

#### **Note**

"Others" i.e Applicants not belonging to SCs, SC(A)s, STs, MBCs/DCs, BCs and BCMs who have put in 5 years of service in the State / Central Government are not eligible to apply, even though if they are within the age limit.

[For further details refer para 5 of "[Instructions to Applicants](#)" and Section 3(r) of the Tamil Nadu Government Servants (Conditions of Service) Act 2016]

#### **AGE CONCESSION**

SCs, SC(A)s, STs, MBCs/DCs, BCs, BCMs		'Others' i.e. applicants not belonging to SCs, SC(A)s, STs, MBC/DCs, BCs, BCMs	
Differently Abled	Ex-servicemen	Differently Abled	Ex-servicemen
No maximum age-limit		40 years	48 years

#### **Note**

- (i) The above mentioned age concession will not apply to those Ex-Servicemen Applicants who have already been recruited to any class or service or category.
- (ii) Instructions given with regard to maximum age limit under para 5 of the "[Instructions to Applicants](#)" will apply to this recruitment.

### (B) EDUCATIONAL QUALIFICATION (as on 06.08.2018 (i.e. the date of notification))

Applicants should possess the following or its equivalent qualification awarded by an University (or) Institution recognised by the University Grants Commission on the date of this notification:-

- |   |
|---|
| <p>1.A Post Graduate degree in Chemistry or Industrial Chemistry or an Associateship Diploma of the Institute of Chemists (India);</p> <p style="text-align: center;">And</p> <p>2.Practical experience in the Analysis of Industrial Products for a period of not less than three years;</p> |
|---|

#### **Note:**

- (i) Provided that other things being equal, preference shall be given to the candidates who possess, in addition, all or any of the following qualifications:-
  - (i) Publication of Scientific Papers
  - (ii) Teaching experience in Chemistry at H.Sc or its equivalent standard or higher standard for a period of two years from the Institution recognized by the Government.

The above experience should be obtained after acquiring the prescribed educational qualifications and from an authority competent to issue such certificate.

- (ii) The qualification prescribed for this post should have been obtained by passing the required qualification in the order of studies, viz., 10<sup>th</sup> + HSC or its equivalent + Bachelor's degree + PG degree / Associateship Diploma of the Institute of Chemists (India) as the case may be.
- (iii) Applicants claiming equivalence of qualification to the prescribed qualification should submit evidence for equivalence of qualification in the form of G.O issued prior to the date of this notification, failing which their application will be summarily rejected. The G.Os issued declaring equivalence of prescribed qualification after the date of this notification will not be accepted under Section 25(b) of Tamil Nadu Government Servants (Conditions of Service) Act 2016. A list of equivalence of qualification in the related subject is available in **Annexure-I** to this notification.  
(Refer also the disclaimer announced with the notification.)  
(Refer Para 10 of the "[Instructions to Applicants](#)")
- (iv) The applicants should upload and submit experience certificate in the prescribed format as provided in **Annexure-II** to this notification along with online application.
- (v) The Online application submitted without submitting the experience certificate in the prescribed format will be summarily rejected.

### (C) CERTIFICATE OF PHYSICAL FITNESS

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

Standard of Vision Prescribed	Form of Certificate of Physical Fitness
Standard –III or better	Form prescribed for Executive 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.

(For details refer [para 11 of 'Instructions to Applicants'](#))

## 7. CONCESSIONS

- i. Concessions in the matter of age and/or fees allowed to SCs, SC(A)s, STs, MBCs/DCs, BCs, BCMs, Destitute Widows, Differently Aabled Persons, Ex- servicemen, other categories of persons etc., are given in [para 12 to 14 of the 'Instructions to Applicants'](#).
- ii. Persons claiming concessions referred to above and other claims made in the application have to produce evidence for such claim as and when called for, otherwise their application will be liable for rejection.

### **Note**

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

**8. SCHEME OF EXAMINATION (OBJECTIVE TYPE) (OMR METHOD) AND ORAL TEST:-**

Subject	Duration	Maximum Marks	Minimum Qualifying Marks for selection			
			SCs, SC(A)s, STs, MBCs/ DCs, BCs and BCMs	Others		
<b><u>PAPER – I (Objective Type) (PG Degree Standard) (200 questions)</u></b>						
Chemistry (Code No.244)	3 Hours	300	171	228		
<b><u>PAPER – II</u></b>						
General Studies (PG Degree Standard) – 100 questions (General Studies - 75 questions Aptitude & Mental Ability Test 25 questions) (SSLC Standard)	2 Hours	200				
<b>Interview &amp; Record</b>		70				
<b>Total</b>		<b>570</b>				

The applicants who have not appeared for any of the papers in the Written Examination or for Oral Test will not be considered for further selection process even if they secure the minimum qualifying marks for selection.

**Note:**

1. The question papers will be set in English and Tamil.
2. The Syllabi for the Written Examination is available in **Annexure IV** of the notification and also available at the Commission's website [www.tnpsc.gov.in](http://www.tnpsc.gov.in).
3. Refer [para 22 of "Instructions to Applicants"](#) in regard to instructions to be followed while appearing for competitive examinations conducted by the Commission.

**9. CENTRE FOR EXAMINATION**

The Written Examination will be held at the following centre:

Sl. No.	Name of the Centre	Centre Code
1.	Chennai	0100

**Note:**

- i. The Commission reserves the right to increase the number of Examination Centres and to re-allot the applicants.
- ii. Applicants should appear for the Written Examination / Certificate verification / Oral Test at their own expenses.

**10. SELECTION PROCEDURE**

**Selection will be made in two successive stages** i.e., (i) Written Examination and (ii) Oral Test in the form of an interview. Final selection will be made on the basis of total marks obtained by the applicants at the Written Examination and Oral Test taken together subject to the rule of reservation of appointments. Appearance in both the papers of the Written Examination and Oral Test is compulsory. Based on the marks obtained by the candidates in the Written Examination,

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 Oral Test following the rule of reservation of appointments.

(For further details refer paragraph 23 (b) of "[Instructions to Applicants](#)")

## 11. NO OBJECTION CERTIFICATE / INFORMATION TO THE EMPLOYER

No Objection Certificate obtained from the appropriate authority shall be produced at the time of Certificate Verification failing which, the application will be rejected.

No Objection Certificate should be produced in the format prescribed under para 15 (g) of Commission's "Instructions to Applicants". Any violation of this instruction will be liable for / end in rejection of application and forfeit his/her candidature.

(Refer para 15(g) of "[Instructions to Applicants](#)")

## 12. GENERAL INFORMATIONS

- A. The rule of reservation of appointments is applicable to this post.
- B. In G.O.(Ms).No. 145, Personnel and Administrative Reforms(S) Department, dated 30.09.2010 and G.O.Ms.No.40, Personnel and Administrative Reforms(S) Department, dated 30.04.2014, the Government have issued orders to fill up 20% of all vacancies in direct recruitment on preferential basis to persons who studied the prescribed qualification in Tamil Medium. The 20% reservation of vacancies on preferential allotment to **Persons Studied in Tamil Medium (PSTM)** will apply for this recruitment. (Applicants claiming this reservation should have studied the prescribed qualification for the post in Tamil Medium and should have the certificate for the same. Having written the examination in Tamil language alone will not qualify for claiming this preference). If the applicants with PSTM certificate are not available for selection for appointment against reserved turn such turn shall be filled up by Non-PSTM candidates but belonging to the respective communal category. The PSTM certificate shall be produced / uploaded by the applicant in prescribed format / proforma available in the Commission's website at '[www.tnpsc.gov.in](http://www.tnpsc.gov.in)' which shall be obtained from the Head of the Institution.  
( For further details, refer [para 27 \(XIX\) of 'Instructions to Applicants'](#)).
- C. **The number of vacancies advertised is only approximate and is liable for modification including reduction with reference to vacancy position at any time before finalization of selection.**
- D. The selection for appointment to the above said post is purely provisional subject to final orders on pending Writ Petitions, if any, filed at Madras High Court and Madurai Bench of Madras High Court.
- E. As per Section 26 and 27(c) of Tamil Nadu Government Servants (Conditions of Service) Act, 2016 reservation of appointment to '**Destitute Widows**' and '**Ex-Servicemen**' respectively **will not apply** to this recruitment.
- F. In G.O.(Ms) No.20, Welfare of Differently Abled Persons (DAP.3.2) Department, dated 20.06.2018, the posts of Senior Chemist is identified suitable for the 4% reservation to Differently Abled Persons with the functional classifications, **Leprosy Cured, Dwarfism and Acid Attack Victims**. They should upload a copy of documents referred to in para. 14(b) of 'Instructions to Applicants' when called for.
- G. The Differently Abled Persons should submit / upload a copy of Differently Abled Certificate from the Competent Authority specifying the nature of physical handicap and the degree of disability when called for by the Tamil Nadu Public Service Commission. However, turns earmarked for Differently Abled Persons does not arise in this recruitment.

- H. If no qualified and suitable women applicants are available for selection against the vacancies reserved for them, those vacancies will be filled up by male applicants belonging to the respective communal categories.
- I. Wherever vacancies are reserved for Arunthathiyars on preferential basis, even after filling up of 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 post reserved for Arunthathiyars remain unfilled for want of adequate number of qualified applicants, it shall be filled up by Scheduled Castes other than Arunthathiyars.
- J. Evidence for claims made in the online application should be uploaded / submitted in time when documents are called for. Any subsequent claim made thereafter on submission of online application will not be entertained. Failure to submit the documents within the stipulated time limit will entail rejection of application.
- K. Correct and True information regarding arrest, convictions / debarment / disqualification by any recruiting agency, criminal or any disciplinary proceedings initiated / pending or finalized, participation in agitation or any political organization, candidature in election for Parliament/State Legislature/Local Bodies etc., if any, should also be furnished to the Commission at the time of application i.e., the details thereof, originals of the Judgement, order or G.O dropping further action in departmental proceedings or any document that may prove the suitability of such applicants for a Government appointment in such cases must be produced at the stage / time of Certificate Verification without fail. Subsequent occurrences if any till the selection is finalised shall also be informed to the Commission.
- L. Incomplete applications and applications containing wrong claims or incorrect particulars relating to category of reservation / preferential claim as PSTM / other basic qualification / eligibility wise/ age / communal categories / educational qualification / physical qualification and other basic eligibility criteria will be liable for rejection.
- M. **One-Time Registration is not an application for the Post / Recruitment.** Though the details / particulars were furnished in the One-Time Registration by the applicants, **the details /particulars were furnished in the online application submitted for this recruitment alone will be taken into consideration.** Tamil Nadu Public Service 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 genders.

### 13. OTHER IMPORTANT INSTRUCTIONS

- a) Applicants **should ensure their eligibility for examination.** The applicants applying for the examination should go through all instructions carefully and ensure that they fulfil all eligibility conditions for admission to examination. **Their admission to all stages of the examination will be purely provisional subject to the satisfaction of eligibility conditions.** Mere issue of memo of admission to the applicant will not imply that his/her candidature has been fully cleared by the Commission.
- b) The **Hall Tickets** for eligible applicants will be made available in the Commission's Website [www.tnpsc.gov.in](http://www.tnpsc.gov.in) or [www.tnpscexams.net](http://www.tnpscexams.net) or [www.tnpscexams.in](http://www.tnpscexams.in) for downloading the same by applicants. No Hall Tickets will be sent by post. So the applicants should watch TNPSC website before the scheduled date of examination. The applicants must comply with each and every instruction given in the Hall Ticket.



- c) **Grievance Redressal Cell for guidance of applicants:** In case of any guidance / information / clarification of their applications, candidature etc., applicants can contact Tamil Nadu Public Service Commission's Office in person or over Telephone No. 044-25332833 / 25332855 or the Commission's Office Toll-Free No.1800 425 1002 on all working days between 10.00 a.m. and 05.45 p.m or Commission's mail ID [contactnpsc@gmail.com](mailto:contactnpsc@gmail.com)

d) **Communication to Applicants**

Individual communication regarding the date and time of certificate verification, oral test and counselling **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.

e) **Mobile Phones and other Articles Banned**

- i. Applicants are not allowed to bring Cellular Phone, Watches and Ring with Inbuilt Memory Notes etc., or any other Electronic device and Non Electronic devices such as P&G Design Data Book, Books, Notes, Hand Bags and Recording Device either as separate piece or part of something used by the applicants such as Watch or Ring etc., to the examination hall / room on the date of examination.
- ii. Applicants must not bring into the Examination Hall any article such as books, notes, loose sheets, electronic or any other type of calculators, mathematical and drawing instruments, Log Tables, stencils of maps, slide rules, Text Books, rough sheets etc., except the permitted writing material (i.e. pen). No colour pen or pencil must be used.
- iii. If they are found to be in possession of any such thing or instrument 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.  
(For further details refer '[Instructions to Applicants](#)').
- iv. 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 cannot be assured.

- f) **Unfair means strictly prohibited:** No applicants shall copy from the papers of any other candidate or permit his papers to be copied or give or attempt to give or obtain or attempt to obtain irregular assistance of any description. (For further details refer "[Instructions to Applicants](#)").

- g) **Conduct in 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 severely viewed and penalised. (For further details refer "[Instructions to Applicants](#)").

- h) For violations of "[Instruction to Applicants](#)" in any manner suitable penalty will be imposed as per the Instructions to applicants or as deemed fit by the Commission.

- i) 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, practising / service, physical qualification, community certificates and certificates regarding their physical disability etc., which should be submitted when called for by the Tamil Nadu Public Service Commission. The applicants applying for the examination should ensure that they fulfil all the eligibility conditions for admission to the Examination. Their admission at all the stages of examination for which they are admitted by the Commission viz. Written Examination, Certificate Verification and Oral Test will be

purely provisional, subject to their satisfying the prescribed eligibility conditions. If on verification at any time before or after Written Examination, Certificate Verification and Oral Test, it is found that they do not fulfil any of the eligibility conditions, their candidature for the recruitment will be liable for rejection / cancellation by the Commission. (For further details refer "[Instructions to Applicants](#)").

- j) If any of their claims is found to be incorrect, it will lead to rejection of their candidature and suitable penal action including debarment.

#### 14. HOW TO APPLY

- (i) Applicants should apply only through online mode in the Commission's Websites [www.tnpsc.gov.in](http://www.tnpsc.gov.in) / [www.tnpscexams.net](http://www.tnpscexams.net) / [www.tnpscexams.in](http://www.tnpscexams.in)
- (ii) One-Time Registration (OTR) and applicant Dashboard are 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.
- (iii) For applying in One-Time Registration, the applicants should have scanned image of their photograph (certificate wherever insisted) and signature in CD/DVD/Pen Drive to upload the photo, certificate and signature.
- (iv) Applicants who have already registered in One-Time Registration on or before 29.09.2015 shall use their existing user ID and Password to create applicant Dashboard in the new One-Time Registration system. No applicant is permitted to create more than one registration ID in One-Time Registration.
- (v) Applicants should enter the Unique ID and password to view the already available information and update them.
- (vi) **One-Time Registration is not an application for any post.** It is just 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.
- (vii) Applicants are required to upload their photograph, signature and experience certificate as per the specifications given in the Guidelines for Scanning and Upload of Photograph and Signature.
- (viii) An Online application uploaded without the photograph, specified documents and signature will be rejected.
- (ix) All the particulars mentioned in the online application including Name of the Applicant, Post applied, Educational / Preferential qualifications, Experience, Communal Category, Date of Birth, Address, 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.
- (x) 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.

**(xi) One-Time Registration will not be considered as an application for any post.**

#### 15. UPLOAD OF DOCUMENTS

The applicants **should upload** the **certificate of experience** in the format in **Annexure – II** referred to in paragraph 6(B) of the notification in **PDF format while applying online**. If the required certificate is not uploaded and if the certificate uploaded by the applicant is not clear and not readable, the application will be rejected without any further notice.

#### 16. LAST DATE FOR SUBMITTING APPLICATION

The Online Application can be submitted upto 05.09.2018 till 11.59 p.m., after which the link will be disabled.

#### 17. WARNING

- (i) **All the Recruitments by Tamil Nadu Public Service Commission are purely merit based.**
- (ii) **Tamil Nadu Public Service Commission hereby cautions the candidates against touts and agents cheating by making false promises of securing job through unfair means.**
- (iii) **Tamil Nadu Public Service Commission shall not be responsible or liable for any loss that may be caused to any candidate on account of indulging in any sort of actions with such unscrupulous persons.**

*(For detailed information applicants may refer Commission's "[Instructions to Applicants](#)" at the Commission's website [www.tnpsc.gov.in](http://www.tnpsc.gov.in) )*

**Secretary**

**DISCLAIMER**

“The Government orders relating to Equivalence of qualification have been hosted in the Tamil Nadu Public Service Commission website. The applicants while applying for the examination should furnish the details of equivalence of qualification declared in the form of Government orders issued prior to the date of this notification, if any, which are not mentioned in Annexure-I to the notification and produce the copy of the same when called for by Tamil Nadu Public Service Commission, failing which their application will be rejected. The Government Orders regarding equivalence of prescribed qualification issued after the date of this notification will not be accepted.”

*Secretary*

**Annexure-I****G.Os / Government letters relating to equivalence of qualification for the post of Senior Chemist**

Sl.No	Qualification prescribed	Equivalence Degree	G.O
1.		காந்திகிராமம் ஊரக நிலையத்தால் (நிகர் பல்கலைக் கழகம்) வழங்கப்படும் செயல் முறை வேதியியல் முதுநிலை (M.Sc., Applied Chemistry) பட்டப்படிப்பு வேதியியல் முதுநிலை (M.Sc., Chemistry) பட்டப் படிப்புக்கு இணையானது.	அரசாணை நிலை எண்.133, பணியாளர் மற்றும் நிர்வாக சீர்திருத்த (ஆர்) துறை, நாள் 28.07.1999.
2.		அண்ணா பல்கலைக் கழகத்தால் வழங்கப்படும் செயல்முறை சார்ந்த வேதியியல் முதுநிலைப் பட்டப்படிப்பு (M.Sc., Applied Chemistry) வேதியியல் முதுநிலைப் பட்ட படிப்பிற்கு (M.Sc., Chemistry) நிகரானது.	அரசாணை நிலை எண்.164, பணியாளர் மற்றும் நிர்வாக சீர்திருத்த (ஆர்) துறை, நாள் 21.08.2000.
3.	A Post Graduate degree in Chemistry or Industrial Chemistry or an Associateship Diploma of the Institute of Chemists (India):  And  Practical experience in the Analysis of Industrial Products for period of not less than three years	1. M.Sc.,(Analytical Chemistry) University of Madras equivalent to M.Sc.,Chemistry 2. M.Sc.,(Organic Chemistry) Annamalai University equivalent to M.Sc.,Chemistry 3. M.Sc.,(In-Organic Chemistry) Annamalai University equivalent to M.Sc.,Chemistry 4. M.Sc.,(Physical Chemistry) Annamalai University equivalent to M.Sc.,Chemistry	அரசாணை நிலை எண்.165, பள்ளிக் கல்வி (மேநிக2) துறை, நாள் 04.07.2012.
4.		பாரதிதாசன் மற்றும் அழகப்பா பல்கலைக்கழகத்தால் வழங்கப்பட்ட முது அறிவியல் தொழிலக வேதியியல் (M.Sc., Industrial Chemistry) பட்டத்தை முது அறிவியல் வேதியியல் (M.Sc., Chemistry) பட்டத்திற்கு இணை.	G.O.(Ms)No.24, Higher Education (K2) Department, dated 13.02.2013.
5.		1. M.Sc., Organic Chemistry Analytical Chemistry, In-organic Chemistry, Polymer Chemistry, Physical Chemistry, Industrial Chemistry and 5 year Integrated Chemistry equivalent to M.Sc.,Chemistry	G.O.(Ms)No.72, Higher Education (K2) Department, dated 30.04.2013.

**ANNEXURE-II****EXPERIENCE CERTIFICATE (MODEL FORMAT)**

1	Name and Address of the Firm/Workshop/ Company / Government Department / Public Sector under taking	:	
2	Whether the said Firm / Workshop/ Company registered under the Factories Act 1948(Central Act LXIII of 1948)	:	
3	Registration Number of Firm / Workshop / Company (Under Factories Act, 1948)	:	
4	Name of the Employee and Date of Birth	:	
5	Qualification possessed by the Employee on the Date of Joining into Service	:	
6	Designation and period of Experience of the Employee	:	
7	Nature of the Work/Duty performed by the Employee In which product, the certificate of practical experience in analysis of Industrial Product has been obtained.	:	
	a) Period of experience	:	From.....To.....
8	Whether Attendance Register / Attendance Rolls / Pay Register and other records /available for this Employee	:	Yes / No
9	Certificate by Manager of the Workshop	:	The above said employee is experienced in the analysis of Industrial Products dealt in the following field:- [Field to be stated]

Office Seal:

Date:

Place:

Signature

Name & Designation of  
the issuing Authority**Note:**

Firms / Workshop which issues the certificate is cautioned that issuing of any certificate containing false details will lead to legal/penal action on them.

**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.

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**Social Welfare and Nutritious Meal Programme [SWB (2)] Department**

**G.O.(Ms) No.90**

**Dated 22.12.2017**

தேவலிளம்பி, மார்கழி 7

திருவள்ளூர் 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

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**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 (Thirunangal 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

- (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



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-5  
 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. Karan  
 Section Officer

Done  
 27/12/17

21/17

**ANNEXURE-IV****PAPER-I****CHEMISTRY (POST GRADUATE DEGREE)****Code No.244****UNIT 1.****Reaction Kinetics:-**

Rate laws - rates constant for first, second, third and zero order reaction - Half life period - Arrhenius theory - collision theory - Absolute reaction rate theory - ionic reaction - salt effect - catalysis – Laws of photo chemistry, quantum efficiency - photo physical processes of electronic excited molecules. Green Chemistry – reactions and reagents

**Chemical Equilibrium:-**

partial molar quantities, gibbs - Duhem equation, Equilibrium constant - temperature dependence of equilibrium constant - phase rule and its applications to two and three components systems.

**UNIT 2.****Solid State:-**

crystal systems - designation of crystal faces, lattice structure and unit cell - law of rational indices - Bragg's law and x rays diffraction by crystals - Schottky and Frenkel defects - Electrical properties - Insulators and semiconductors - band theory of solids – Superconductors – nano materials preparations and properties.

**Electrochemistry:-**

Types of Reversible electrodes - Nernst equation - calculation of thermo dynamic quantities of cell reactions - overpotential and hydrogen over voltage - Determination of pKa of acids by potentiometric methods - Kohlrausch's law - Ostwald's dilution law - Debye - Huckel Onsager equation for Strong electrolytes - (no derivation required) - Primary and Secondary fuelcells - corrosion and prevention – drycells and storage batteries.

**UNIT 3.****Structure and Bonding:-**

Electronic configuration of atoms, Term symbols and periodic properties of elements, Ionic radii, ionisation potential electron affinity, electronegativity, concept of Hybridization, molecular orbitals and electronic configuration of homonuclear and heter nuclear diatomic molecules, shapes of polyatomic molecules VSEPR theory, symmetry elements and point groups for simple molecules, Bond lengths, Bond angles, bond order and bond energies Types of chemical bond (weak and strong) inter molecular forces, structure of simple and covalent bonds – covalent character in ionic bond and partial ionic character – lattice energy.

**Acids and Bases:-**

Bronsted and Lewis acids and bases - pH and pKa acid - base concept in non - aqueous media – HSAB concept - Buffer Solutions. Redox Reactions:- Oxidation numbers, Redox potential, Electrochemical series – application of EMF measurements - Redox indicators.

Chemistry of Non - transition elements:-

General characteristics, structure and reaction of simple compounds - boranes - silicates  
Oxoacids of N,P,S and halogens - xenon compounds - inter halogens, Pseudohalides and noble gas compounds – metal clusters – S,N ring and chain compounds - inorganic Polymers such as silicones, Borazines and phosphonitrilic compounds.

IUPAC Nomenclature of simple organic and Inorganic compounds.**UNIT 4.**Organic reaction mechanism:-

General methods (Kinetic and non Kinetic) of study of reaction mechanisms Methods of determining reaction mechanism. – isotopic labelling SN1, SN2 mechanisms - addition substitution, elimination and rearrangements - free radical mechanism - aromatic substitution - and stability of reactive intermediate (Carbocations, Carbanion's free radicals, nitrates and benzyne) - Polar effects - Hammett's equation and its modification.

Chemistry of important organic reaction:-

Aldol condensation - Claisen condensation - perkin reactions - Cannizzaro reaction - Friedel craft reaction - Favorski reaction - Stork enamine reaction - Michael addition - Baeyer - Villiger reaction - Chichibabin reaction - Asymmetric synthesis pericyclic reactions - classification and examples - Woodward and Hoffmann rules. - use of OsO<sub>4</sub>, NBS, diborane, NaBH<sub>4</sub>, LiAlH<sub>4</sub> in organic Synthesis.

**UNIT 5.**Quantum Chemistry:-

Planck's quantum theory wave - particle duality, uncertainty principle, operators and commutation relations, postulates of quantum mechanics, Schrodinger wave equation, particle in one dimensional box and three dimensional box - harmonic oscillator, rigid rotator and hydrogen atom, angular momentum, spin - orbit coupling.

Classical thermodynamics and elements of statistical thermodynamics:-

First law of thermodynamics:- heat capacity - isothermal adiabatic processes - Thermo chemical laws - Kirchoff's equation second law of thermodynamics, entropy, in reversible and irreversible processes - Gibe's free energy and Helmholtz free energy - Third law of thermodynamics.

**UNIT 6.**Spectroscopy:-

Rotational spectra of diatomic molecules - Isotopic substitution and rotational constants - vibrations spectra of linear symmetric, linear asymmetric and bent triatomic molecules - electronic spectra - selection rules - nuclear magnetic resonance - chemical shifts - spin - spin coupling - electron spin resonance and hyperfine splitting theoretical principles of mass spectroscopy.

Application's of UV, IR, NMR, ESR and mass spectroscopy for structural elucidation of organic compounds, inorganic complexes and free radicals.

**UNIT 7.**Chemistry of Co-ordination Compounds:-

Structural aspects, isomerism - octahedral and tetrahedral, crystal - splitting of orbitals - CFSE - magnetism and colour of transition metal ions - charge transfer spectra - crystal field theory and ligand field theory – MO theory complexes of pi acceptor ligands - stereochemistry of inorganic coordination compounds – ORD and CD Techniques.

Chemistry of lanthanides and actinides:-

Electronic configuration - occurrence and Separation techniques -oxidation states, colour. magnetic and spectroscopic properties – lanthanide contraction , use of lanthanide compounds as shift reagents.

**UNIT 8.**Organometallic compounds and bio inorganic chemistry:-

Metal carbonyls, Metal nitrosyls, metal alkyl, alkenes and arene compounds - organo metallic compounds in catalysis - Chemistry of porphyrins - chlorophyll homeglobin, myoglobin, ferredoxin, rubredoxin, and cytochromes, copper proteins, enzymes, zinc enzymes, toxicity of metals and the effect of excess and deficient levels, metal complexes in therapy.

**UNIT 9.**Stereochemistry:-

Elements of symmetry - optical and geometric isomerism E. Z and R.S notation's - Conformational analysis of simple cyclic and acyclic systems - Effects of conformation on reactivity in acyclic compounds and cyclohexanes.

Carbohydrates:-

Classification - configuration and general reactions of monosacharides - Chemistry of glucose, fructose, Sucrose and Maltose, Important compounds in chemistry - Dyes - azo, triphenylmethane, and phthalein groups - indigo - alizarin vitamins, hormones - antibiotics - proteins. Polymers: Preparation and uses of polyethylene, poly butylene PVC, Nylon - Ziegler - Natta catalysts.

**UNIT 10.**Instrumental methods of analysis:-

Adsorption, partition chromatography - Gas chromatography - HPLC - Solvent extraction and ion exchange methods - atomic absorption spectroscopy - Electroanalytical techniques voltammetry, cyclic voltammetry, polarography, amperometry, Coulometry and conductometry, ion - Selective electrodes- TGA, DTA, DSC and ICP. Analysis of industrial products such as ores and Minerals, Coal, Water, Soaps & Detergents, Metals & Alloys, Manures & fertilizer, cement, Aggregate, Bricks, petroleum products, food & products, plastics.

PAPER-IIGeneral Studies Degree / P.G Degree StandardTopics for Objective Type**Unit-I General science**

**Physics**-Universe General Scientific laws Scientific instruments - Inventions and discoveries- National scientific laboratories Science glossary - Mechanics and properties of matter - Physical quantities, standards and units Force, motion and energy - Electricity and Magnetism, Electronics and Communication - Heat, light and sound - Atomic and nuclear physics - Solid State Physics – Spectroscopy - Geophysics - Astronomy and space science.

**Chemistry** -Elements and Compounds-Acids, bases and salts-Oxidation and reduction- Chemistry of ores and metals-Carbon, nitrogen and their compounds-Fertilizers, pesticides, insecticides-Biochemistry and biotechnology-Electrochemistry-Polymers and plastics.

**Botany**- Main Concepts of life science - The cell - basic unit of life - Classification of living organism - Nutrition and dietetics - Respiration - Excretion of metabolic waste - Bio - communication.

**Zoology**- Blood and blood circulation - Endocrine system - Reproductive system - Genetics the science of heredity - Environment, ecology, health and hygiene, Bio - diversity and its conservation - Human diseases - Communicable diseases and non - communicable diseases - prevention and remedies - Alcoholism and drug abuse - Animals, plants and human life.

**Unit- II. Current Events**

**History**- Latest diary of events – National - National symbols - Profile of States - Defence, national security and terrorism - World organizations - pacts and summits - Eminent persons & places in news - Sports & games - Books & authors - Awards & honours - Cultural panorama - Latest historical events - India and its neighbours - Latest terminology - Appointments - who is who?

**Political Science**-1. India's foreign policy - 2. Latest court verdicts – public opinion - 3. Problems in conduct of public elections - 4. Political parties and political system in India - 5. Public awareness & General administration - 6. Role of Voluntary organizations & Govt., - 7. Welfare oriented govt. schemes, their utility.

**Geography**- Geographical landmarks - Policy on environment and ecology.

**Economics**-Current socio - economic problems - New economic policy & govt. sector.

**Science**-Latest inventions on science & technology - Latest discoveries in Health Science - Mass media & communication.

**Unit-III. Geography**

Earth and Universe - Solar system - Atmosphere hydrosphere, lithosphere - Monsoon, rainfall, weather and climate - Water resources - rivers in India - Soil, minerals & natural resources - Natural vegetation - Forest & wildlife - Agricultural pattern, livestock & fisheries - Transport including Surface transport & communication - Social geography – population - density and distribution - Natural calamities – disaster management - Climate change - impact and consequences - mitigation measures - Pollution Control.

**Unit-IV. History and culture of India**

Pre-historic events - Indus valley civilization - Vedic, Aryan and Sangam age - Maurya dynasty - Buddhism and Jainism - Guptas, Delhi Sultans, Mughals and Marathas - Age of Vijayanagaram and the bahmanis - South Indian history - Culture and Heritage of Tamil people - Advent of

European invasion - Expansion and consolidation of British rule - Effect of British rule on socio-economic factors - Social reforms and religious movements - India since independence - Characteristics of Indian culture - Unity in diversity –race, colour, language, custom - India - as secular state - Organizations for fine arts, dance, drama, music - Growth of rationalist, Dravidian movement in TN - Political parties and populist schemes - Prominent personalities in the various spheres – Arts, Science, literature and Philosophy - Mother Teresa, Swami Vivekananda, Pandit Ravishankar , M.S.Subbulakshmi, Rukmani Arundel and J.Krishnamoorthy etc.

### **Unit-V Indian Polity**

Constitution of India - Preamble to the constitution - Salient features of constitution - Union, State and territory - Citizenship - rights amend dutie - Fundamental rights - Fundamental duties - Human rights charter - Union legislature – Parliament - State executive - State Legislature – assembly - Status of Jammu & Kashmir - Local government - panchayat raj – Tamil Nadu - Judiciary in India – Rule of law/Due process of law - Indian federalism – center – state relations - Emergency provisions - Civil services in India - Administrative challenges in a welfare state - Complexities of district administration - Elections - Election Commission Union and State. Official language and Schedule - VIII - Amendments to constitution - Schedules to constitution - Administrative reforms & tribunals - Corruption in public life - Anti - corruption measures – Central Vigilance Commission, lok - adalats, Ombudsman, - Comptroller and Auditor General of India - Right to information - Central and State Commission - Empowerment of women - Voluntary organizations and public grievances Redressal - Consumer protection forms.

### **Unit- VI. Indian economy**

Nature of Indian economy - Need for economic planning - Five - year plan models - an assessment - Land reforms & agriculture - Application of science in agriculture - Industrial growth - Capital formation and investment - Role of public sector & disinvestment - Development of infrastructure - National income - Public finance & fiscal policy - Price policy & public distribution - Banking, money & monetary policy - Role of Foreign Direct Investment (FDI) - WTO - globalization & privatization - Rural welfare oriented programmes - Social sector problems – population, education, health, employment, poverty - HRD – sustainable economic growth - Economic trends in Tamil Nadu - Energy Different sources and development - Finance Commission - Planning Commission - National Development Council.

### **Unit-VII. Indian national movement**

National renaissance - Early uprising against British rule - 1857 Revolt - Indian National Congress - Emergence of national leaders - Gandhi, Nehru, Tagore, Nethaji - Growth of militant movements - Different modes of agitations - Era of different Acts & Pacts - World war & final phase struggle - Communalism led to partition - Role of Tamil Nadu in freedom struggle - Rajaji, VOC, Periyar, Bharathiar & Others - Birth of political parties /political system in India since independence.

### **Unit-VIII. Aptitude & Mental Ability Tests**

Conversion of information to data - Collection, compilation and presentation of data - Tables, graphs, diagrams - Parametric representation of data - 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 - Behavioral ability - Basic terms, Communications in information technology - Application of Information and Communication Technology (ICT) - Decision making and problem solving - Logical Reasoning - Puzzles - Dice - Visual Reasoning - Alpha numeric Reasoning - Number Series - Logical Number/Alphabetical/Diagrammatic Sequences.

**Annexure V****Tentative Timeline for the Recruitment Process**

<b>Sl. No.</b>	<b>Process</b>	<b>Timeline</b>
1.	Publication of Results	February 2019
2.	Certificate Upload for CV	February 2019
3.	Certificate Verification	March 2019
4.	Date of Oral Test	April 2019
5.	Final Selection List	April 2019