

**ANDHRA PRADESH PUBLIC SERVICE COMMISSION: VIJAYAWADA****NOTIFICATION NO 10/2018 Dated: 04 12 2018****FOREST RANGE OFFICERS IN A.P. FOREST SERVICE****(GENERAL RECRUITMENT)****PARA-I**

- 1.1. Applications are invited online for recruitment to the post of Forest Range Officers in A.P. Forest Service for a total of 24 vacancies in the scale of pay of Rs.31,460 – 84,970 from candidates within the age group of 18 to 28 years as on 01.07.2018.
- 1.2. The proforma application will be available on Commission's Website ([://psc.ap.gov.in](http://psc.ap.gov.in)) from **10/12/2018 to 31/12/2018 (Note: 30/12/2018 is the last date for payment of fee upto 11:59 mid night)**.
- 1.3. Before applying for the post, an applicant shall register his/her bio-data particulars through One Time Profile Registration (OTPR) on the Commission's Website viz., [://psc.ap.gov.in](http://psc.ap.gov.in). Once applicant registers his/her particulars, a user ID is generated and sent to his/her registered mobile number and email ID. Applicants need to apply for the post using the OTPR user ID through Commission's website.
- 1.4. The Commission conducts Screening test in offline mode in case applicants exceed 25,000 in number as per G.O.Ms.No.150, Finance (HR-I, Plg & Policy) Dept., dated:08.08.2016 and likely to be held on **24/02/2019**. Instructions regarding offline examination recruitment test are attached as Annexure – III.
- 1.5. The main examination in online mode for candidates selected in screening test will be held through computer based test on **28/04/2019, 29/04/2019 and 30/04/2019**. There would be objective type questions which are to be answered on computer system. Instructions regarding computer based recruitment test are attached as Annexure - III. In case any paper of the Examination is held in different languages, the candidate has to choose the medium in which he/she wants to write the examination and the paper will be valued with reference to that medium only.
- 1.6. A general Mock Test facility is available to the applicants to acquaint themselves with the computer based recruitment test. Applicant can visit the website and practice the answering pattern under MOCK TEST option available on main page of website [://psc.ap.gov.in](http://psc.ap.gov.in).
- 1.7. The applicant is required to visit the Commission's website regularly to keep himself /herself updated until completion of the recruitment process. The Commission's website information is final for all correspondence. No individual correspondence by any means will be entertained under any circumstances.
- 1.8. HALL TICKETS can be downloaded whenever the Commission uploads them to its website. Intimation would be given through the website regarding downloading of Hall Tickets.
- 1.9. All desirous and eligible candidates shall apply online after satisfying themselves that they are eligible as per the terms and conditions of this recruitment notification. Any application sent through any mode other than the prescribed online mode will not be entertained under any circumstances. Submission of application form by the candidate is authentication that he / she has read the notification and shall abide by the terms and conditions laid down there under.
- 1.10. **Physically Handicapped candidates are not eligible for this post.**
- 1.11. The details are as follows:-

**1. CARRIED FORWARD VACANCIES**

| Name of the post                              | Zone wise vacancies |         |          |         | Total |
|---|---------------------|---------|----------|---------|-------|
| Forest Range Officers in A.P. Forest Services | Zone-I              | Zone-II | Zone-III | Zone-IV |       |
|   | 02                  | 01      | 01       | -       | 04    |

**Note:** As per G.O.Ms.No.277, GA (SC & ST CELL .B) Dept., dated: 22.03.1976, G.O.Ms.No.23 Backward Class (Welfare) Dept., dated: 18.03.1996 and G.O.Ms.No.81, GA (Ser-A) Dept., dated:22.02.1997 the Carry Forward Vacancies to be filled first by a relevant community and category of the candidates in succeeding recruitment.

**II. FRESH VACANCIES**

| Name of the post                              | Zone wise vacancies |         |          |         | Total |
|---|---------------------|---------|----------|---------|-------|
| Forest Range Officers in A.P. Forest Services | Zone -I             | Zone-II | Zone-III | Zone-IV |       |
|   | 09                  | 02      | -        | 09      | 20    |

Note: The details of vacancies viz., Community, Zone and Gender wise (General / Women) may be seen at Annexure-I.

**PARA-2: ELIGIBILITY:**

- i. He / She is of sound health, active habits and free from any bodily defect or infirmity rendering him unfit for such service;
- ii. His / Her character and antecedents are such as to qualify him for such service;
- iii. He /She possesses the academic and other qualifications prescribed for the post; and
- iv. He/ She is a citizen of India:

Provided that no candidate other than a citizen of India may be appointed except with the previous sanction of the State Government and except in accordance with such conditions and restrictions as they may be laid down. Such sanction shall be not be accorded unless the State Government are satisfied that sufficient number of citizens of India, who are qualified and suitable are not available.

**PARA-3: EDUCATIONAL QUALIFICATIONS:**

A candidate should possess the academic qualifications and experience including practical experience prescribed, if any, for the post on the date of the notification for direct recruitment issued by the concerned recruiting agency.

| Name of the Post                             | Educational Qualifications   |
|--|--|
| Forest Range Officers in A.P. Forest Service | <p>(i) Must possess a Bachelor's Degree of a University in India established or incorporated by or under a Central Act or State Act or a Provincial Act or an Institution recognized by the University Grants Commission; or any equivalent qualification in the following subjects:-</p> <p>(I) Agriculture (II) Botany (III) Chemistry (IV) Computer Applications / Computer Science (V) Engineering (Agriculture / Chemical / Civil / Computer / Electrical / Electronics / Mechanical) (VI) Environmental Science (VII) Forestry (VIII) Geology (IX) Horticulture (X) Mathematics (XI) Physics (XII) Statistics (XIII) Veterinary Science (XIV) Zoology</p> <p>(ii) <b><u>Physical Requirements:</u></b> No person shall be eligible for appointment by Direct Recruitment unless:</p> <p><b><u>For Men:</u></b></p> <ol style="list-style-type: none"> <li>i. He is not less than 163 Cms. in height;</li> <li>ii. He has 84 Cms. around the chest on expansion with an expansion of not less than 5 Cms. and</li> <li>iii. He is able to walk 25 Kms. in Four (4) hours.</li> </ol> <p><b><u>For Women:</u></b></p> <ol style="list-style-type: none"> <li>i. She is not less than 150 Cms. in height;</li> <li>ii. She has 79 Cms. around the chest on expansion with an expansion of not less than 5 Cms. and</li> <li>iii. She is able to walk 16 Kms. in four (4) hours</li> </ol> <p>Provided further that in the case of candidates belonging to Scheduled Tribes and races such as Gurkhas, Nepalese, Assamese, Meghalaya, Ladakh, Nagaland, Manipuri, Goutha, Kashmir, Sikkimese, Bhutanese and Tripura, the minimum standard of height shall be as follows:</p> <p>Men :152 Cms.<br/>Women:145 Cms</p> <p><b><u>N.B: Common for Men and Women</u></b> Must undergo a medical Examination to be conducted by the Medical Board at Visakhapatnam and produce a health certificate signed by the Medical Board in the form prescribed by Article 49 of the Civil Service Regulation testifying to the candidates sound hearing and general physical fitness for outdoor work in the Forest Department and to the fact that he bears on his body marks of successful vaccination.</p> |

N.B:1.Computer Proficiency Test (Qualifying Test) will be conducted as per G.O.Rt.No.2493, General Administration (Ser-A) Dept., dated:28.11.2018. The details of Scheme & Syllabus has been shown in Annexure-II.

2. Candidates must obtain physical measurement certificate issued by Medical Officer not below the rank of Civil Assistant Surgeon, which will be furnished to the Commission at appropriate time.

**PARA- 4 RESERVATIONS:**

- 4.1. There will be reservations in direct recruitment in respect of Scheduled Tribes, Scheduled Castes, Backward Classes, Women and meritorious sports person as per Rule 22 and 22 (A) of A.P. State and Subordinate Service Rules.
- 4.2. In the case of candidates who claim the benefit of reservation or relaxation from upper age limit on the basis of Caste/Tribe or Community the basic document of proof of Community will be the Certificate issued by the Revenue Authorities not below the rank of Tahsildar in the case of SC/ST and Non Creamy Layer Certificate issued by the Revenue Authorities in the case of Backward Classes. The list of Caste/Tribe/Community is as incorporated in Schedule-I of above Rules. The list is also appended at Annexure -IV. The candidates have to produce proof of the community claimed in their application at all stages of selection along with the certificates relating to Educational Qualifications and local status certificates etc.,. Subsequent claim of change of community will not be entertained.
- 4.3. The meritorious sportsman means a sportsman who has represented the State or the Country in a national or international competition or Universities in the Inter-University tournaments conducted by the Inter-University Boards or the State School team in the national sports / games for schools conducted by the All India School Games Federation in any of the games, sports, mentioned below; and any other games/sports as may be specified by the Government from time to time, in terms of Rule 2 (19) of AP State and Subordinate Service Rules.
- 4.4. Caste & Community: Community Certificate issued by the competent authority in terms of G.O. Ms No. 58, SW (J) Dept., dt.12/5/97 should be submitted at appropriate time. As per A.P. State and Subordinate Service Rules, Rule -2 (28) Explanation: No person who professes a religion different from Hinduism shall be deemed a member of Schedule Caste. BCs, SCs & STs belonging to other States are not entitled for reservation.
- 4.5. There shall be Reservation to Women horizontally to an extent of 33 1/3% as per G.O. Ms. No. 63, GA (Ser-D) Dept., dated:17.04.2018.
- 4.6. The reservation to meritorious sports persons will apply as per G.O.Ms.No.13, GA (Ser-D) Dept., dated:23.01.2018, and G.O.Ms.No.74, youth, advancement, Tourism and Culture (Sports) Dept., dated:09.08.2012.
- 4.7. Reservation to BC-E group will be subject to the adjudication of the litigation before the Hon'ble Courts including final orders in Civil Appeal No: (a) 2628-2637 of 2010 in SLP. No. 7388-7397 of 2010, dated. 25/03/2010 and orders from the Government.
- 4.8. The candidates claiming to be belonging to non-creamy layer of Backward Class have to obtain a Certificate in terms of G.O. Ms. No. 3, Backward Classes Welfare (C-2) Department, Dated 04.04.2006 read with G.O. Ms. No. 26 Backward Classes Welfare(C) Department, Dated 09.12.2013 regarding their exclusion from the Creamy Layer from the competent authority (Tahasildar) and produce the same at appropriate time of verification. In case of failure to produce the same on the day of verification, the Candidature will be considered against open competition even if he / she is otherwise eligible in all aspects.

**PARA - 5: RESERVATION TO LOCAL CANDIDATES:**

- 5.1. The specification of a post is determined by the concerned Department with reference to both vertical and horizontal reservations as well as local reservation. The reservations are specified through the indent by the concerned department and the general criteria with regard to reservations are given below.
- 5.2. Reservation to the Local candidates is applicable as provided in Article 371-D as per G.O.Ms.No.674, G.A (SPF- A) Department, dated.20.10.1975 and rules as amended from time to time and as in force on the date of notification. The candidates claiming reservation as Local candidates should obtain the required Study Certificate(s) (from IV Class to X Class or SSC) OR Residence Certificate in the proforma prescribed for those candidates who have not studied in any Educational Institutions as the case may be. The relevant certificates with authorized signature shall be produced as and when required.

**PARA -6 DEFINITION OF LOCAL CANDIDATE:**

- 6.1. A local candidate has been defined in G.O.Ms.No.674, General Administration (SPF-A) Department, dated:20.10.1975 "LOCAL CANDIDATE" as follows:

"Local Candidate:- (1) A candidate for direct recruitment to any post shall be regarded as a local candidate in relation to a local area.

(a) in cases where a minimum educational qualification has been prescribed for recruitment to the post.

(i) "if he has studied in an educational institution or educational institutions in such local area for a period of not less than four consecutive academic years ending with the academic year in which he appeared or, as the case may be, first appeared for the relevant qualifying examination; or

(ii) where during the whole or any part of the four consecutive academic years ending with the academic year in which he appeared or as the case may be, first appeared for the relevant qualifying examination he has not studied in any educational institution, if he has resided in that local area for a period of not less than four years immediately preceding the date of commencement of the qualifying examination in which he appeared or as the case may be, first appeared.

(b) In cases where no minimum educational qualification has been prescribed for recruitment to the post, if he has resided in that local area for a period of not less than four years immediately proceeding the date on which the post is notified for recruitment.

Explanations:- For the purpose of the paragraph.

(i) educational institution means a University or any educational institution recognized by the State Government, a University or other competent authority;

(ii) relevant qualifying examination in relation to a post means;

(a) the examination, a pass in which is the minimum educational qualification prescribed for the post;

(b) the Matriculation examination or an examination declared by the State Government to be equivalent to the Matriculation examination;

whichever is lower; and

(iii) In reckoning the consecutive academic years during which a candidate has studied, any period of interruption of his study by reason of his failure to pass any examination shall be disregarded.

(iv) the question whether any candidate for direct recruitment to any post has resided in any local area shall be determined with reference to the places where the candidate actually resided and not with reference to the residence of his parents or other guardian (Vide G.O.Ms.No.168, G.A. (SPF.A) Dept., dt.10-3-77).

(2) A candidate for direct recruitment to any post who is not regarded as a local candidate under sub paragraph (1) in relation to any local area shall.

(a) in cases where a minimum educational qualification has been prescribed for recruitment to the post.

(i) if he has studied in educational institutions in the State for a period of not less than seven consecutive academic years ending with academic year in which he appeared or as the case may be, first appeared for the relevant qualifying examination, be regarded as a local candidate in relation to

(1) Such local area where he has studied for the maximum period out of the said period of seven years; or

(2) where the periods of his study in two or more local areas are equal, such local areas where he has studied last in such equal periods;

(ii) if during the whole or any part of the seven consecutive academic years ending with the academic years in which he appeared or as the case may be first appeared for the relevant qualifying examination, he has not studied in the educational institutions in any local area, but has resided in the State during the whole of the said period of seven years, be regarded as a local candidate in relation to

(1) such local area where he has resided for a maximum period out of the said period of seven years: or

(2) where the periods of his residence in two or more local areas are equal, such local areas where he has resided last in such equal periods;

(b) In cases where no minimum educational qualification has been prescribed for recruitment to the post, if he has resided in the State for a period of not less than seven years immediately preceding the date on which the post is notified for recruitment, be regarded as a local candidate in relation to

(i) such local area where he has resided for the maximum period out of the said period of seven years; or

(ii) where the periods of his residence is two or more local areas are equal such local area where he has resided last in such equal periods " .

(G.O.Ms.No.168, dated 10-3-1977)

- 6.2. Single certificate, whether of study or residence as stipulated in G.O.Ms.No.674, General Administration (SPF-A) Dept., dated:20.10.1975 would suffice for enabling the candidate to apply as a "LOCAL CANDIDATE".
- 6.3. Residence certificate will not be accepted, if a candidate has studied in any Educational Institution upto S.S.C. or equivalent examination. Such candidates have to produce study certificates invariably. The candidates, who acquired degree from open Universities directly without studying in any Educational Institution, only may submit residence certificate. Here Educational Institutions mean a recognized Institution by the Government / University/Competent authority.
- 6.4. Candidates are advised to refer provisions of the PRESIDENTIAL ORDER 1975 in this regard.
- 6.5. Candidates who migrate from Telangana to Andhra Pradesh between 2<sup>nd</sup> June, 2014 and 1<sup>st</sup> June, 2019 (in this case till date of notification) as per terms laid down in circular memo No.4136/SPF & MC/2015-5, Dated.20.11.2017 of Government of Andhra Pradesh shall obtain the Local Status Certificate from competent authority and produce at the time of verification.
- 6.6. The composition of Districts in each zone is as hereunder:  
 Zone-I: Srikakulam, Vizianagaram and Visakhapatnam. (SKM, VZM, VSP,)  
 Zone-II: East Godavari, West Godavari and Krishna. (EG, WG, KST)  
 Zone-III: Guntur, Prakasam and Nellore. (GNT, PKM, NLR)  
 Zone-IV: Chittoor, Kadapa, Anantapur and Kurnool. (CTR, CDP, ATP, KNL)

#### **PARA- 7 AGE:**

- 7.1. No person shall be eligible for direct recruitment if he/she is less than 18 years of age and if he / she is more than 28 years of age as on 01/07/2018. Candidates should not be born earlier than 2<sup>nd</sup> July 1990 and not later than 1<sup>st</sup> July 2000.
- 7.2. Age Relaxation is applicable to the categories as detailed below:

| S. No.   | Category of candidates  | Relaxation of age permissible   |
|--|---|---|
| 1.   | SC/ST and BCs   | 5 Years   |
| 2.   | Ex-Service men  | Shall be allowed to deduct from his age a period of 3 years in addition to the length of service rendered by him in the armed forces / NCC. |
| 3.   | N.C.C. (who have worked as Instructor in N.C.C.)  |   |
| 4.   | A.P. State Government Employees (Employees of APSEB, APSRTC, Corporations, Municipalities etc. are not eligible). | 5 Years based on the length of regular service.   |
| 5.   | Retrenched temporary employees in the State Census Department with a minimum service of 6 months.                 | 3 Years   |
| <b>EXPLANATION:</b><br>Provided that the persons referred to at Sl.Nos.2 & 3 above shall, after making the deductions referred to in sub Rule 12 (c) (i) & (ii) of A.P. State and Subordinate Service Rules not exceed the maximum age limit prescribed for the post.<br><br>The age relaxation for Ex-Servicemen is applicable for those who have been released from Armed Forces other than by way of dismissal or discharge on account of misconduct or inefficiency. |   |   |

#### **PARA - 8 HOW TO APPLY:**

**STEP-I:** Candidates applying for the first time for any notification has to first fill the OTPR application carefully to obtain OTPR ID. While filling the OTPR, the candidate has to ensure that the particulars are filled correctly. The Commission bears no responsibility for the mistakes, if any, made by the candidates. If candidates choose to modify they may do so by clicking the modify OTPR make the modification, save them and proceed to STEP-II (If candidates have already registered and have the OTPR ID, number then he/she can proceed to STEP-II.)

**STEP-II:** The applicant has to login in the Commission's website with the user name (OTPR ID) and the Password set by candidate. After login, the applicant has to click on the "Online application submission" present in the bottom right corner of the Commission's website.

**PAYMENT PROCESS:** The applicant now has to click on the payment link against the notification number that he wants to apply. The basic details required for calculation of the fee and age relaxation will be prepopulated from the OTPR data. The applicant has to verify all the details that are displayed. Once the payment form is submitted, the respective details (used for calculation of fee and age relaxation) will not be altered in any stage of application processing. Hence if any details are to be changed, applicant should use the modify OTPR link, modify the details, save it and again click on application payment link.

**STEP-III:** After checking all the data and ensuring that the data is correct the applicant has to fill application specific data such as Local/Non Local status, white card details etc., which are also used to calculate the fee. Once all the data is filled appropriately, the applicant has to submit the payment form. On successful submission, the payment reference ID is generated and is displayed on the screen. By clicking "OK" the applicant is shown the various payment options where he/she can select any one among them and complete the payment process as given on the screen.

**STEP-IV:** Once the payment is successful, payment reference ID is generated. Candidates can note the payment reference ID for future correspondence. Thereafter the applicant is directed to the application form. Applicant should provide the payment reference ID generated along with the other details required for filing the application form (other fields like OTPR ID and fees relaxations details will be prepopulated from the data submitted in the payment form for respective notification). The applicant should check the data displayed thoroughly and should fill the application specific fields like qualification details, examination centre etc., carefully and submit the application form. Once the application is submitted successfully then application receipt is generated. The applicant is requested to print and save the application receipt for future reference/correspondence.

**NOTE:** Applicant shall note that the data displayed from OTPR at the time of submitting the application will be considered for the purpose of this notification only. Any changes made by the applicant to OTPR data at a later date shall not be considered for the notification on hand.

**STEP-V:** In any case if the payment process is not submitted successfully, then the applicant should start the fresh payment process as mentioned in STEP-II.

**STEP-VI:** Once the application is submitted successfully, correction in application form will be enabled. The corrections can be made in the application form itself. Fields which affects the name, fee and age relaxations are not enabled for corrections.

**NOTE:**

A. The Commission is not responsible, for any omissions by the applicant in bio-data particulars while submitting the application form online. The applicants are therefore, advised to strictly follow the instructions given in the user guide before submitting the application.

B. All the candidates are requested to submit their application with correct data. It is noticed that some of the candidates are requesting for change in the data, after submission of the application. It is informed that such requests shall be allowed on payment of Rs.100/- (Rupees hundred only) for each correction. However changes are not allowed for name, fee and age relaxation. No manual application for corrections shall be entertained. No changes will be allowed after 7 days of last date of applications.

C. The particulars furnished by the applicant in the application form will be taken as final. Candidates should, therefore, be very careful in uploading / submitting the application form online.

D. Incomplete/incorrect application form will be summarily rejected. The information if any furnished by the candidate subsequently will not be entertained by the Commission under any circumstances. Applicants should be careful in filling-up the application form and submission. If any lapse is detected during the scrutiny, the candidature will be rejected even though he/she comes to the final stage of recruitment process or even at a later stage and also liable for punishment as per Para 16.1 of this notification.

E. Before uploading/submission application form, the candidates should carefully ensure his/her eligibility for this examination. No relevant column of the application form should be left blank; otherwise application form will not be accepted.

**PARA - 9: (a) FEE:**

- 9.1. Applicant must pay Rs. 250/- (Rupees two hundred and fifty only) towards application processing fee and Rs 120/- (Rupees one hundred twenty only) towards examination fee.
- 9.2. However, the following categories of candidates are exempted from payment of examination fee Rs.120/- only.
  - i) SC, ST, BC & Ex-Service Men.
  - ii) Families having Household Supply White Card issued by Civil Supplies Department, A.P. Government. (Residents of Andhra Pradesh)
  - iii) Un-employed youth as per G.O.Ms.No.439, G.A (Ser- A) Dept., dated: 18/10/1996 should submit declaration at an appropriate time to the Commission.
  - iv) Applicants belonging to the categories mentioned above (except Ex-Service Men) hailing from other States are not entitled for exemption from payment of fee and not entitled for claiming any kind of reservation.

- v) Candidates belonging to other States shall pay the prescribed fee of Rs.120/- (Rupees one hundred and twenty only), along with processing fee of Rs. 250/- (Rupees two hundred and fifty only) through different channels as indicated at para-8. Otherwise such applications will not be considered and no correspondence on this will be entertained.

9.3. **b) Mode of Payment of Fee:**

- i) The fee mentioned in the above paragraph is to be paid online using payment Gateway using Net Banking/ Credit card / Debit Card. The list of Banks providing service for the purpose of online remittance of fee will be available on the Website.
- ii) The fee once remitted shall not be refunded or adjusted under any circumstances. Failure to pay the examination fee and application fee (in non-exempt case) will entail total rejection of application.
- iii) IPOs / Demand Drafts are not accepted.
- iv) In case of corrections Rs.100/- per correction will be charged. However changes are not allowed for name, fee and age relaxation.

**PARA-10: SCHEME OF EXAMINATION:-**

The Scheme & Syllabus for the examination has been shown in Annexure-II.

**PARA - 11: CENTRES FOR THE OFF-LINE (SCREENING) AND ON-LINE (MAIN) EXAMINATIONS:**

The applicant may choose the Test centre with three preferences. However the Commission reserves the right to allot the applicant to any centre of examination depending on the availability of the resources like centres / systems.

**PARA – 12 RESOLUTION OF DISPUTES RELATED TO QUESTION PAPER, ANSWER KEY AND OTHER MATTERS**

- 12.1. The Commission would publish the key on its website after conduct of the examination. Any objections with regard to the key and any other matter shall be filed within one week after publication of the key in the prescribed proforma available in the website.
- 12.2. The objections received in the prescribed proforma and within due date will be referred to expert Committee for opinion and to take appropriate decision thereon by the Commission. As per decision of the Commission a revised key will be hosted and further objections only in respect of keys that are revised would be called for a period of three working days from the date of publication of revised key. No further objections on original key will be entertained at this stage. The matter will again be referred to experts, taking into consideration the opinion of expert Committee and the final key would be hosted on website based on the decision of the Commission.
- 12.3. The objections if any would be examined and the decision of the Commission in this regard shall be final. Any objection filed after expiry of specified time from the date of publication of key / revised key would not be entertained.

**PARA -13 NOTE ON IMPORTANT LEGAL PROVISIONS GOVERNING THE RECRUITMENT PROCESS:**

- 13.1. Vacancies: The recruitment will be made to the vacancies notified only. There shall be no waiting list as per G.O. Ms. No. 81, General Administration (Ser. A) Department, dated 22/02/1997, G.O.Ms.No.544, General Administration (Ser. A) Department, Dated:04.12.1998 and Rule 6 of APPSC Rules of procedure. In any case, no cognisance will be taken by Commission of any vacancies arising or reported after the completion of the selection and recruitment process or the last date as decided by the Commission as far as this notification is concerned, and these will be further dealt with as per G.O. & Rule cited above.
- 13.2. The recruitment will be processed as per this notification and also as per the Rules and Instructions issued by the Government and also as decided by the Commission from time to time. A.P. Forest service issued in G.O.Ms.No.154 Environment, Forests, Science & Technology (For-V) Department, dated 18/11/97, G.O.Ms.No.159, Environment, Forests, Science & Technology (For-V) Department, dated: 08.12.2008 and special rules / Adhoc rules governing the recruitment and other related GOs, rules etc., are applicable.
- 13.3. Rules: The various conditions and criteria prescribed herein are governed by the A.P. State and Subordinate Service Rules, 1996 read with the relevant special rules applicable to any particular service in the departments. Any guidelines or clarification is based on the said rules, and, in case of any necessity, any matter will be processed as per the relevant General and Special Rules as in force.
- 13.4. The Commission is empowered under the provisions of Article 315 and 320 of the Constitution of India read with relevant laws, rules, regulations and executive instructions and all other enabling legal provisions in this regard to conduct examination for appointment to the posts notified herein, duly following the principle of order of merit as per Rule 3(vi) of the APPSC Rules of Procedure read with relevant statutory provisions and



ensuring that the whole recruitment and selection process is carried out with utmost regard to secrecy and confidentiality so as to ensure that the principle of merit is scrupulously followed.

- 13.5. Zonal/Local: In terms of Para 4 of the G.O., A.P. Public Employment (Organization of Local Cadres and Regulation of Direct Recruitment) Order, 1975 (G.O.Ms.No.674, G.A. (SPF-A) Dept., dated: 20/10/1975) read with G.O.Ms.No.124, General Administration (SPF-A) Department, dated: 07/03/2002, "The Provisional list shall be divided into two parts. The first part shall comprise 30% of the posts consisting of combined merit lists of locals as well as non-locals and the remaining second part shall comprise the balance 70 % of the posts consisting of locals only and the posts shall be filled duly following the rule of reservation".
- 13.6. Scheme is prescribed as per G.O.Rt.No.2493, General Administration (Ser-A) Dept., dated:28.11.2018.
- 13.7. The persons already in Government Service/ Autonomous bodies/ Government aided institutions etc., whether in permanent or temporary capacity or as work charged employees are however required to inform, in writing, to their Head of Office/ Department that they have applied for this recruitment.
- 13.8. A candidate shall be disqualified for appointment, if he himself or through relations or friends or any others has canvassed or endeavored to enlist for his candidature, extraneous support, whether from official or non-official sources for appointment to this service.
- 13.9. Reservation to disabled persons is not applicable as per special rules.
- 13.10. The candidates who have obtained degrees through Open Universities / Distance Education mode are required to have recognition by the Distance Education Council, Government of India. Unless such degrees have been recognised by the D.E.C. they will not be accepted for purpose of Educational Qualification. The onus, in case of doubt, of Proof of recognition by the D.E.C. that their Degrees / Universities have been recognised, rests with the candidate. Candidates may also refer G.O.R.T.No.143, Higher Education (EC) Dept., Dated:11.07.2018 and the Supreme Court judgment dated:03.11.2017 in this connection.

**Para- 14 Please Read the Following Annexures appended to the Notification before filling the application form**

Annexure- I- Break up of vacancies  
 Annexure- II- Scheme & Syllabus  
 Annexure- III- Instructions to candidates  
 Annexure- IV- LIST OF SC / ST /BC's

**PARA-15: PROCEDURE OF SELECTION:**

- 15.1. Appearance in all the papers of screening examination / Main examination / Physical examination is compulsory. Absence in any of the papers / examination will automatically render the disqualification of the candidature.
- 15.2. As per G.O.Ms.No.5 General Administration (Ser-A) Dept., dated:05.01.2018 "Government here by permit the Andhra Pradesh Public Service Commission to pick up candidates who obtains such minimum qualifying marks in Screening Test / Preliminary Examination as may be fixed by the Commission at its discretion shall be admitted to the Main Examination in all direct recruitment examinations. The APPSC is further permitted to select candidates belonging to the Scheduled Caste or Scheduled Tribes or Backward classes or Physically Challenged candidates for Main Examination by applying relaxed standards in the Screening Test / Preliminary Examination, if the Commission is of the opinion that sufficient number of candidates from these communities are not likely to be eligible for main examination on the basis of general standard in Screening Test / Preliminary Examination in order to fill up the vacancies reserved for them". Candidates who will come up for selection due to relaxed standards shall be considered against reserved category only.
- 15.3. The selection of candidates for appointment to the posts shall be based on the merit in the computer based examination, to be held as per the scheme of examination enunciated at para 10 above.
- 15.4. The minimum qualifying marks for consideration of a candidate to the selection process are 40% for OCs, 35% for BCs, and 30% for SCs and STs or as per rules. In the event of Schedule Caste & Schedule Tribe candidates not coming up for selection with the existing minimum prescribed for selection in the competitive examination conducted by the APPSC their selection shall be considered on the basis of rank with reference to their performance in the written and / or oral competitive examination irrespective of the marks secured.

N.B.: Mere securing of minimum qualifying marks does not confer any right to the candidate for being considered to the selection.



- 15.5. Where the candidates get equal number of marks in the screening test if two or more candidates get equal total number of marks, those candidates shall be bracketed. Candidates within the same bracket shall then be ranked 1, 2, 3 etc., according to age i.e., oldest being considered for admission. In case there is tie in age, the person who possesses educational qualification at earlier date would be considered.
- 15.6. With regard to situation where there is deletion of questions, if any, from any paper, scaling (proportionate increase) would be done for that particular part of the paper to the maximum marks prescribed for the paper and the marks would be rounded off to 2 decimals to determine the merit of the candidate.
- 15.7. While the Commission calls for preference of candidates in respect of zones etc., in the application form, it is hereby clarified that the said preferences are only indicative for being considered to the extent possible but not binding or limiting the Commission's powers under Article 315 and 320 of the Constitution of India. Therefore, the Commission has the power to assign a candidate to any of the notified posts for which he is considered to be qualified and eligible, subject to fulfilling the selection criterion. Mere claim of preference for any Zone for allotment against vacancy does not confer a right to selection for that Zone in particular or any zone in general.
- 15.8. The appointment of selected candidates will be subject to their being found medically fit in the appropriate medical classification, and if he/she is of sound health, active habits and free from any bodily defect or infirmity as per G.O.Ms.No.147, Finance (HR-1, Plg. Policy) Department, dated:06.08.2016.
- 15.9. ANSWER KEY AND MARKS: Answer key would be published on the website and marks of each candidate are also displayed on website. No separate memorandum of marks would be issued.

**PARA-16: DEBARMENT:**

- 16.1. Candidates should make sure of their eligibility to the post applied for and that the declaration made by them in the format of application regarding their eligibility is correct in all respects. Any candidate furnishing in-correct information or making false declaration regarding his/her eligibility at any stage or suppressing any information is liable TO BE DEBARRED UPTO FIVE YEARS FROM APPEARING FOR ANY OF THE EXAMINATIONS CONDUCTED BY THE COMMISSION, and summary rejection of their candidature for this recruitment.
- 16.2. The Penal Provisions of Act 25/97 published in the A.P. Gazette No. 35, Part-IV.B Extraordinary dated: 21/08/1997 shall be invoked if malpractice and unfair means are noticed at any stage of the recruitment. Further candidates shall be liable for penalty as per G.O.Ms.No.385, G.A.(Ser. A) Dept., Dt.18/10/2016. The Chief Superintendent of the examination centre is authorized to take decision in case of malpractice or usage of unfair means or creation of disturbance or use of physical force by any candidate and report the matter to the competent authority as well as register a police case.
- 16.3. The Commission is vested with the Constitutional duty of conducting recruitment and selection as per rules duly maintaining utmost secrecy and confidentiality in this process and any attempt by anyone causing or likely to cause breach of this constitutional duty in such manner or by such action as to violate or likely to violate the fair practices followed and ensured by the Commission will be sufficient cause for rendering such questionable means as ground for debarment and penal consequences as per law and rules as per decision of the Commission.
- 16.4. Any candidate found impersonating or procuring impersonation by any person or resorting to any other irregular or improper means in connection with his / her candidature for selection or obtaining support of candidature by any means, such a candidate may in addition to rendering himself/ herself liable to criminal prosecution, be liable to be debarred permanently from any exam or selection held by the Service Commissions in the country.
- 16.5. **ELECTRONIC GADGETS BANNED:**
  - (a) The use of any mobile (even in switched off mode), pager, scientific calculator or any electronic equipment or programmable device or storage media like pen drive, smart watches etc., or camera or blue tooth devices or any other equipment or related accessories either in working or switched off mode capable of being used as a communication device during the examination is strictly prohibited. Any infringement of these instructions shall entail disciplinary action including ban from future examinations.
  - (b) Candidates are advised, in their own interest, not to bring any of the banned items including mobile phones/ pagers to the venue of the examination, as arrangement for safe – keeping cannot be assured.

**PARA-17: COMMISSION'S DECISION TO BE FINAL:**

The decision of the Commission in all aspects and all respects pertaining to the application and its acceptance or rejection as the case may be, conduct of examination and at all consequent stages culminating in the selection or otherwise of any candidate shall be final in all respects and binding on all concerned, under the powers vested with it under Article 315 and 320 of the Constitution of India. Commission also reserves its right to alter and modify the terms and conditions laid down in the notification for conducting the various stages up to selection, duly intimating details thereof to all concerned, as warranted by any unforeseen circumstances arising during the course of this process, or as deemed necessary by the Commission at any stage.

**Place: VIJAYAWADA**  
**Date: 04/12/2018**

**Sd/-**  
**SECRETARY**

**ANNEXURE -I****BREAKUP OF PROVISIONAL VACANCIES TO THE POST OF FOREST RANGE OFFICERS IN FOREST SERVICE****NOTIFICATION NO:10/2018**

- Note:** 1. As per G.O.Ms.No.277, GA (SC & ST CELL .B) Dept., dated: 22.03.1976 and G.O.Ms.No.23 Backward Class (Welfare) Dept., dated: 18.03.1996 and G.O.Ms.No.81, G.A (Ser.A), Department, dated: 22.02.1997 the Carry Forward Vacancies to be filled first by a relevant community candidate in succeeding recruitment.
2. Reservation to meritorious Sports persons will apply as per G.O.Ms.No.13 GA (Ser-D) Dept., dated:23.01.2018 and G.O.Ms.No.74 youth advancement tourism and culture (sports) Dept.,

**CARRIED FORWARD (CF) VACANCIES**

| COMMUNITY | ZONE-1       |   |       |   | ZONE-2       |   |       |   | ZONE-3       |   |       |   | ZONE- 4      |   |       |   | TOTAL        |   |       |   | GRAND<br>TOTAL |
|-----------|--------------|---|-------|---|--------------|---|-------|---|--------------|---|-------|---|--------------|---|-------|---|--------------|---|-------|---|----------------|
|           | OPEN<br>ZONE |   | LOCAL |   | OPEN<br>ZONE |   | LOCAL |   | OPEN<br>ZONE |   | LOCAL |   | OPEN<br>ZONE |   | LOCAL |   | OPEN<br>ZONE |   | LOCAL |   |                |
|           | G            | W | G     | W | G            | W | G     | W | G            | W | G     | W | G            | W | G     | W | G            | W | G     | W |                |
| OC        | 1            | - | -     | 1 | -            | 1 | -     | - | -            | - | 1     | - | -            | - | -     | - | 1            | 1 | 1     | 1 | 04             |
| BC-A      | -            | - | -     | - | -            | - | -     | - | -            | - | -     | - | -            | - | -     | - | -            | - | -     | - | -              |
| BC-B      | -            | - | -     | - | -            | - | -     | - | -            | - | -     | - | -            | - | -     | - | -            | - | -     | - | -              |
| BC-C      | -            | - | -     | - | -            | - | -     | - | -            | - | -     | - | -            | - | -     | - | -            | - | -     | - | -              |
| BC-D      | -            | - | -     | - | -            | - | -     | - | -            | - | -     | - | -            | - | -     | - | -            | - | -     | - | -              |
| BC-E      | -            | - | -     | - | -            | - | -     | - | -            | - | -     | - | -            | - | -     | - | -            | - | -     | - | -              |
| SC        | -            | - | -     | - | -            | - | -     | - | -            | - | -     | - | -            | - | -     | - | -            | - | -     | - | -              |
| ST        | -            | - | -     | - | -            | - | -     | - | -            | - | -     | - | -            | - | -     | - | -            | - | -     | - | -              |
| TOTAL     | 1            | - | -     | 1 | -            | 1 | -     | - | -            | - | 1     | - | -            | - | -     | - | -            | - | -     | - | 04             |

**FRESH VACANCIES**

| COMMUNITY | ZONE-1    |   |       |   | ZONE-2    |   |       |   | ZONE-3    |   |       |   | ZONE- 4   |   |       |   | TOTAL     |   |       |   | GRAND TOTAL |
|-----------|-----------|---|-------|---|-----------|---|-------|---|-----------|---|-------|---|-----------|---|-------|---|-----------|---|-------|---|-------------|
|           | OPEN ZONE |   | LOCAL |   | OPEN ZONE |   | LOCAL |   | OPEN ZONE |   | LOCAL |   | OPEN ZONE |   | LOCAL |   | OPEN ZONE |   | LOCAL |   |             |
|           | G         | W | G     | W | G         | W | G     | W | G         | W | G     | W | G         | W | G     | W | G         | W | G     | W |             |
| OC        | 1         | - | 2     | 2 | -         | - | -     | - | -         | - | -     | - | -         | 1 | 3     | 1 | 1         | 1 | 5     | 3 | 10          |
| BC-A      | -         | - | -     | - | -         | - | -     | - | -         | - | -     | - | -         | - | -     | 1 | -         | - | -     | 1 | 1           |
| BC-B      | -         | - | 1     | - | -         | - | -     | - | -         | - | -     | - | -         | - | -     | - | -         | - | 1     | - | 1           |
| BC-C      | -         | - | -     | - | -         | - | -     | - | -         | - | -     | - | -         | - | -     | - | -         | - | -     | - | -           |
| BC-D      | -         | - | -     | 1 | 1         | - | -     | - | -         | - | -     | - | -         | - | -     | - | 1         | - | -     | 1 | 2           |
| BC-E      | -         | - | -     | - | -         | - | 1     | - | -         | - | -     | - | -         | - | -     | - | -         | - | 1     | - | 1           |
| SC        | -         | - | 1     | - | -         | - | -     | - | -         | - | -     | - | -         | 1 | 1     | - | -         | 1 | 2     | - | 3           |
| ST        | -         | 1 | -     | - | -         | - | -     | - | -         | - | -     | - | -         | - | -     | 1 | -         | 1 | -     | 1 | 2           |
| TOTAL     | 1         | 1 | 4     | 3 | 1         | - | 1     | - | -         | - | -     | - | -         | 2 | 4     | 3 | -         | - | -     | - | 20          |

**ANDHRA PRADESH PUBLIC SERVICE COMMISSION: VIJAYAWADA****SCHEME OF SCREENING TEST FOR RECRUITMENT TO THE POST OF FOREST RANGE****OFFICERS IN A.P. FOREST SERVICES****GAZETTED SERVICES****DEGREE STANDARD****WRITTEN EXAMINATION (OBJECTIVE TYPE)**

| Subject |   | No. of Questions | Duration (Minutes) | Maximum Marks |
|---------|---|------------------|--------------------|---------------|
| Part-A  | General Studies & Mental Ability and Mathematics (SSC standard) | 75               | 150                | 75            |
| Part-B  | General Forestry – I & II                                       | 75               |                    | 75            |
| Total   |   |                  |                    | 150           |

**N.B.:**1. Appearance at all the above tests is compulsory. Absence at any or all of the papers will render the candidature invalid.

2. As per G.O.Ms. No.235 Finance (HR-1, Plg & Policy) Dept,Dt:06/12/2016,for each wrong answer will be penalized with 1/3<sup>rd</sup> of the marks prescribed for the question.

3. All Papers will be of **OBJECTIVE TYPE**.

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**SYLLABUS FOR SCREENING TEST****Part-A****1. GENERAL STUDIES & Mental Ability**

- I. General Science – Contemporary developments in Science and Technology and their implications including matters of every day observation and experience, as may be expected of a well-educated person who has not made a special study of any scientific discipline.
- II. Current events of national and international importance.
- III. History of India – emphasis will be on broad general understanding of the subject in its social, economic, cultural and political aspects with a focus on AP Indian National Movement.
- IV. World Geography and Geography of India with a focus on AP.
- V. Indian polity and Economy – including the country's political system- rural development – Planning and economic reforms in India.
- VI. Mental Ability – Reasoning & Inferences.
- VII. Sustainable Development and Environmental Protection
- VIII. Disaster Management (Source : CBSE Publications)  
Concepts in disaster management and vulnerability profile of India / State of A.P.  
Earth quakes / Cyclones / Tsunami / Floods / Drought – causes and effects.  
Man made disasters - Prevention strategies.  
Mitigation strategies / Mitigation measures

**2. MATHEMATICS (SSC STANDARD)**

1. **ARITHMETIC:** Number System-Natural numbers, Integers, Rational and Real numbers, Fundamental operations, addition, subtraction, multiplication, division, Square roots, Decimal fractions.  
Unitary method-time and distance, time and work, percentages, applications to simple and compound interest, profit and loss, ratio and proportion, variation.  
Elementary Number Theory – Division algorithm. Prime and composite numbers. Tests of divisibility by 2,3,4,5,9 and 11. Multiples and factors. Factorisation Theorem. H.C.F. and L.C.M. Euclidean algorithm. Logarithms to base 10, laws of logarithms, use of logarithmic tables.
2. **ALGEBRA:** Basic Operations, simple factors, Remainder Theorem, H.C.F., L.C.M. Theory of polynomials, solutions of quadratic equations, relation between its roots and coefficients (Only real roots to be considered). Simultaneous linear equations in two unknowns – analytical and Graphical solutions. Simultaneous linear inequations in two variables and their solutions. Practical problems leading to two simultaneous linear equations or inequations in two variables or quadratic equations in one variable and their solutions. Set language and set notation, Rational expressions and conditional

identities, laws of indices.

3. **TRIGONOMETRY:** Sine x, Cosine x, Tangent x when  $0^\circ < x < 90^\circ$  values of  $\sin x$ ,  $\cos x$  and  $\tan x$ , for  $x = 0^\circ, 30^\circ, 45^\circ, 60^\circ$  and  $90^\circ$ .  
Simple trigonometric identities. Use of trigonometric tables.  
Simple cases of heights and distances.
4. **GEOMETRY:** Lines and angles, Plane and plane figures, Theorems on (i) Properties of angles at a point, (ii) Parallel lines, (iii) Sides and angles of a triangle, (iv) Congruency of triangles, (v) Similar triangles, (vi) Concurrence of medians and altitudes, (vii) Properties of angles, sides and diagonals of a parallelogram, rectangle and square, (viii) Circles and its properties including tangents and normals, (ix) Loci.
5. **MENSURATION:** Areas of squares, rectangles, parallelograms, triangle and circle. Areas of figures which can be split up into these figures (Field Book), Surface area and volume of cuboids, lateral surface and volume of right circular cones and cylinders, surface area and volume of spheres.
6. **STATISTICS:** Collection and tabulation of statistical data, Graphical representation frequency polygons, histograms, bar charts, pie charts etc. Measures of central tendency.

### Part-B

#### GENERAL FORESTRY - I

1. **Plant Science:** Structure and function of plant forms from evolutionary aspects (viruses to Angiosperms including fossils). Principles of nomenclature, classification and identification of plants. Plant Taxonomy. Recent classification of living organism into three groups (bacteria, archaea and eukarya). Vegetative, asexual and sexual methods of reproduction. Pollination and fertilization. Sexual incompatibility. Development, structure, dormancy and germination of seed. Plant Diseases, Factors affecting infections, Chemical, biological and genetic methods of disease control (including transgenic plants). Ecological adaptation. Types of vegetational zones and forests of India. Deforestation, afforestation, Wasteland reclamation.
2. **Plant Varieties:** Origin, importance, export potential, varieties, climate, soil requirements, propagation and planting and after care,
3. **Biodiversity & its conservation:** Introduction — Definition: genetic, species and ecosystem diversity, Biogeographical classification of India, Value of biodiversity, Biodiversity at global, National and local levels, India as a mega-diversity nation, Hot-spots of biodiversity, Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts, Endangered and endemic species of India, Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity. Convention of Biological Diversity (CBD).
4. **Agriculture:** Principles of plant physiology with reference to plant nutrition, absorption, transactions and metabolism of nutrients. Diagnosis of nutrient deficiencies and their amelioration photosynthesis and respiration, growth and development, auxins and hormones in plant growth. Development of hybrids, composites and synthetic, important varieties, hybrids, composites and synthetic of major crops. Seeds and seed production techniques. Principles of economics as applied to agriculture. Farm planning and optimum resource-use efficiency and maximizing income and employment. Farm systems and their spatial distribution, their significant roles in regional economic development.  
Agronomy, Agricultural Extension, Dairy Engineering, Land development machinery.
5. **Horticulture Science:** Importance of horticulture in terms of economy, production, employment generation, environmental protection and human resource development. Nutritional value of horticultural crops. Divisions of horticulture and their importance.
  - a. Temperature, light, humidity, rainfall and soil requirements for horticultural crops. Selection of site for establishing an orchard, orchard plan, systems of planting. Establishment of an orchard. Objectives of orchard management culture, different methods of orchard culture. Pruning and training — objectives, methods and effects.
  - b. Nutrition of horticultural crops — assessment of nutritional requirements, Identification of deficiency symptoms, methods of nutrient application. Assessment of irrigation requirements for different horticultural crops, irrigation methods.
  - c. Flower bud initiation and formation. Factors affecting them, environmental influences, chemical, nutritional management practices. Pollination and fruit set, problems and requirements, flower and fruit drop, Unfruitfulness.

## 6. Plant Propagation

- a) Principles and classification of plant propagation methods.
- b) Sexual propagation and its importance. Factors affecting germination and pregermination treatments.
- c) Sexual propagation and its importance. Propagation of plants by cuttage, factors affecting regeneration of plants from cuttings. Types of cuttings, propagation by layerage. Factors affecting regeneration of plants by layerage. Methods of layerage.
- d) Propagation by grafting, importance of graftage. Factors for successful grafting., Selection of rootstock and scion. Methods of budding and grafting Rootstocks. Stock scion relations.

## 7. Green House Production

- a) Importance and scope, production of crops in greenhouse. Status and development of greenhouse production of crops. Establishing a greenhouse. Greenhouse and related structures location, types, size and arrangement.
- b) Control of environmental factors influencing the growth.
- c) Preparation of growing media requirement and its management at different stages of crop growth. Management of nutrients.

**8. Soil Science:** Types of soil, field identification and classification; Forest soils, classification, factors affecting soil formation; physical, chemical and biological properties; phase relationships, consistency limits, particle size distribution, classification of soil structure and clay mineralogy, Capillary water and structural water, effective stress and pore water pressure, Permeability, Seepage pressure, quick sand condition, compressibility and consolidation; Soil conservation — definition, causes for erosion, types — wind and water erosion; conservation and management of eroded soils/areas, wind breaks, shelter belts; sand dunes; reclamation of saline and alkaline soils, water logged and other waste lands. Role of forests in conserving soils.

**9. Geology:** Primary and secondary structures. Dip and strike of beds. Unconformities. Study of folds, joints, faults, foliation and lineations. Overthrusts and nappe structures. Stages of rock deformation. Construction of block diagrams, Stereographic and equal-area nets. Solutions of simple problems by stereographic net. Topographic maps and their interpretation. Use of clinometer compass in the field Measurements of bed, foliation, folds joints, faults and lineations in the field. Principles of geological mapping. Effects of topography on outcrops.

**10. Water Resource Management:** Surface and subsurface water resources, predicting demand for water, impurities of water and their significance, physical, chemical and bacteriological analysis, water borne diseases, standards for potable water. Pumping and gravity schemes, water treatment; Storage and balancing reservoir types, location and capacity. Distribution systems.

**11. Watershed Management:** Concepts of watershed; role of mini-forests and forest trees in overall resource management, forest hydrology, watershed development in respect of torrent control, river channel stabilization, rehabilitation of degraded areas; hilly and mountain areas; watershed management and environmental functions of forests; water-harvesting and conservation; ground water recharge and watershed management; role of integrating forest trees, horticultural crops, field crops, grass and fodders.

**12. Silviculture :** General Silvicultural Principles; ecological and physiological factors influencing vegetation, natural and artificial regeneration of forests, methods of propagation, grafting techniques; site factors; nursery and planting techniques — nursery beds, polybags and maintenance, water budgeting, grading and hardening of seedlings, special approaches, establishment and tending. Traditional and recent tropical silvicultural research and practices. Silvi- culture of some of the economically important species in India such as *Acacia Sundra*, *Acacia nilotica* *Acacia auriculiformis*, *Albizia lebbeck*, *Albizia procera*, *Anthocephalus Cadamba*, *Anogeissus latifolia*, *Azadirachta indica*, *Bamboo spp*, *Butea monosperma*, *Cassia siamea*, *Casuarina equisetifolia*, *Dalbergia sisoo*, *Dipterocarpus spp.*, *Embllica officinalls*, *Eucalyptus spp*, *Gmelina arborea*, *Hardwickia binata*, *Lagerstoremia lanceolata*, *Pterocarpus marsupium*, *Prosepis juliflora*, *Santalum album*, *Semi-carpus anacardium*, *Salmalia malabaricum*, *Tectona grandis*, *Terminalia tomentosa*, *Tamarindus indica*.

**13. Agro-forestry, Social Forestry, Joint Forest Management:** Agroforestry: scope and necessity; role in the life of people and domestic animals and in integrated land use, planning especially related to soil and water conservation, water recharge, nutrient availability to crops, nature and eco-system preservation including ecological

balances through pest- predator relationships and providing opportunities for enhancing biodiversity, medicinal and other flora and fauna. Agro forestry systems under different agro-ecological zones, selection of species and role of multipurpose trees and NTFPs, techniques, food, fodder and fuel security. Research and Extension needs. Social/Urban Forestry: objectives, scope and necessity; JFM — principles, objectives, methodology, scope, benefits and role of NGOs.

- 14. Farm, Agri & Forest Power Tools & Machinery:** Types, Uses, maintenance and safety measures.

### **GENERAL FORESTRY - II**

- 1. Ecosystems & Wildlife:** Concept of an ecosystem, Structure and function of an ecosystem, Producers, consumers and decomposers, Energy flow in the ecosystem, Ecological succession, Food chains, food webs and ecological pyramids, Introduction, types, characteristic features, structure and function of the following ecosystem: Forest ecosystem, Grassland ecosystem, Desert ecosystem, Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries), Wildlife of India; endangered species of India; sanctuaries and national parks of India, Biological rhythms
- 2. Forest Protection And Wildlife Biology:** Injuries to forest — abiotic and biotic destructive agencies, insect — pests and disease, effects of air pollution on forests and forest die back. Susceptibility of forests to damage, nature of damage, cause, prevention, protective measures and benefits due to chemical and biological control. General forest protection against fire, equipment and methods, controlled use of fire, economic and environmental costs; timber salvage operations after natural disasters. Role of afforestation and forest regeneration in absorption of CO<sub>2</sub>. Rotational and controlled grazing, different methods of control against grazing and browsing animals; effect of wild animals on forest regeneration, human impacts; encroachment, poaching, grazing live fencing, theft, shifting cultivation and control.
- 3. Genetics and Breeding:** Principle of genetics, chemical nature of DNA and RNA and their models and functions. Recombinant DNA technology, transgenic animals, multiple ovulation and embryo-transfer. Cytogenetics, immunogenetics and biochemical polymorphic and their application in animal improvement. Gene actions. Systems and strategies for improvement of livestock for milk, meat, wool production and drought and poultry for eggs and meat. Breeding of animals for disease resistance. Breeds of livestock, poultry and rabbits.
- 4. Nutrition:** Role of nutrition in animal health and production. Classification of feeds, Proximate composition of feeds, feeding standards, computation of rations. Ruminant nutrition. Concepts of total digestible nutrients and starch equivalent systems. Significance of energy determinations. Conservation of feeds and fodder and utilization of agro by-products. Feed supplements and additives. Nutrition deficiencies and their management.
- 5. Veterinary Science:** (i) Major contagious diseases affecting cattle, buffaloes, horses, sheep and goats, pigs, poultry, rabbits and pet animals. Etiology, symptoms, pathogenicity, diagnosis, treatment and control of major bacterial, viral, rickettsial and parasitic infections. (ii) Description, symptoms, diagnosis and treatment of the following:
  - a) Production diseases of milk animals, pig and poultry.
  - b) Deficiency diseases of domestic livestock and birds
  - c) Poisonings due to infected/contaminated foods and feeds, chemicals and drugs.
- 6. Economic Zoology:** Beneficial and harmful insects including insect vectors of human diseases, Industrial fish, prawn and molluscs of India, Non-poisonous and poisonous snakes of India, Venomous animals-centipede, wasp, honey bee, Diseases caused by aberrant chromosomes/genes in man; genetic counseling; DNA as a tool for forensic investigation.
- 7. Forest Economics, Legislation & Administration:** Forest economics — fundamental principles, cost-benefit analysis; estimation of demand and supply; role of private sector and cooperatives; role of corporate financing. Forest in Concurrent List, Forest Laws: Indian Forest Act, AP Forest Act & Rules, Wildlife Protection Act, Forest Conservation Act, Administration: Indian Forest Services, AP State Forest Services, AP State Forest Subordinate Services, AP Forest Department-Its structure and activities.
- 8. Sampling Theory:** Complete enumeration vs. sampling, need for sampling, basic concepts in sampling, designing large-scale sample surveys, sampling and non- sampling errors, simple random sampling, properties of a good estimator, estimation of sample size, stratified random sampling, systematic sampling cluster sampling, ratio and regression methods of



estimation under simple and stratified random sampling.

- 9. Forest Mensuration, Remote Sensing and Forest Working Plan:** Methods of measuring — diameter, girth, height and volume of trees; form-factor; volume estimation of stand, current annual increment; mean annual increment, Yield calculation, yield and stand tables; forest cover monitoring through remote sensing; Geographic information Systems for management and modeling; Forest planning, evaluation and monitoring tools and approaches for integrated planning; multipurpose development of forest resources and forest industries development; working plans. Annual Plant of Operations.
- 10. Renewable and non-renewable resources:** Natural resources and associated problems.
  - a) Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people.
  - b) Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.
  - c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources.
  - d) Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity.
  - e) Energy resources: Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources.
  - f) Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification.
- 11. Environmental Sciences:** Definition, scope and importance, Need for public awareness, Environmental Pollution: Definition, Causes, effects and control measures of Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution & Nuclear hazards. Solid waste Management: Causes, effects and control measures of urban and industrial wastes. Social Issues and the Environment: From Unsustainable to Sustainable development. Urban problems related to energy, Water conservation, rain water harvesting, Resettlement and rehabilitation of people; its problems and concerns, Environmental ethics: Issues and possible solutions, Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, Wasteland reclamation, Consumerism and waste products, Environment Protection Act, Air (Prevention and Control of Pollution) Act, Water (Prevention and control of Pollution) Act, APWALTA.
- 12. Transportation Techniques:** Highway alignment, choice of layout and capacity of highways, location survey, geometric design of highways-various elements, curves, grade separation and segregation of traffic, inter-section design, highway materials and testing subgrade and pavement components, type of pavements, road drainage.
- 13. Project Management:** Elements and principles of Activity on Arrow (AOA) and Activity on Node (AON) networks and work breakdown structure. Interfaces. Ladder networks. Activity time. Time computations and works. ATC and PTC trade-off. Work study and sampling. Scheduling principles-material schedules. ABC and EOQ analysis of inventory. Budgeting with bar-charts. Working capital. PERT, probability of completion.  
Elements of Engineering Economics, methods of appraisal, present worth, annual cost, benefit-cost, incremental analysis. Economy of scale and size. Choosing between alternatives including levels of investments. Project profitability.
- 14. Communications :** Analog communications-AM, FM, PM modulations-Power requirements — Transmitters — Receivers — Ground wave propagation- Sky and Space propagation. Digital communications — Pulse modulations — Delta modulation, multiplexing, multiple access, Antennas, wave guides, Basics of satellite communications, optical communications. Wireless Communications, Walkie-Talkie, HAM Radio.

**ANNEXURE – II**  
**NOTIFICATION NO.10/2018**  
**SCHEME OF MAIN EXAMINATION FOR RECRUITMENT TO THE POST OF**  
**FOREST RANGE OFFICERS IN A.P. FOREST SERVICES**

WRITTEN EXAMINATION DEGREE STANDARD

| Sl No. | Subject   | Marks                        | Questions     | Minutes     |
|--------|---|------------------------------|---------------|-------------|
| 1.     | General English (50 marks) & General Telugu (50 marks) (to be Qualified in English & Telugu individually) | 100 Marks (Qualifying Test ) | 100 Questions | 100 Minutes |
| 2.     | Paper-1 General Studies & Mental Ability  | 150 Marks                    | 150 Questions | 150 Minutes |
| 3.     | Paper-2 Mathematics (SSC standard)  | 150 Marks                    | 150 Questions | 150 Minutes |
| 4.     | Paper-3 General Forestry - I  | 150 Marks                    | 150 Questions | 150 Minutes |
| 5.     | Paper – 4 General Forestry - II   | 150 Marks                    | 150 Questions | 150 Minutes |
|        | <b>Total</b>  | <b>600 Marks</b>             |               |             |

- N.B.:**
1. Candidates are required to undergo a walking test and also a Medical Examination (conducted by a Medical Board). Both the tests shall be arranged by the Forest Department, duly taking concurrence of A.P.P.S.C. For this purpose the Commission will pick up eligible candidates in the ratio of 1:3 with reference to total number of vacancies as per General Rule 22 & 22A.
  2. Computer Proficiency Test (Qualifying Test) for eligible candidates in the ratio of 1:3 with reference to total number of vacancies notified
  3. Appearance at all the above tests is compulsory. Absence at any or all of the papers/tests will render the candidature invalid.
  4. As per G.O.Ms. No.235 Finance (HR-1, Plg & Policy) Dept, Dt:06/12/2016, for each wrong answer will be penalized with 1/3<sup>rd</sup> of the marks prescribed for the question.
  5. The minimum qualifying Marks for selection is 40% for OCs; 35% for BCs and 30% for SCs & STs.
  6. All papers will be of **OBJECTIVE TYPE**.

**SYLLABUS FOR MAIN EXAMINATION**

**GENERAL ENGLISH AND TELUGU**  
**(SSC Standard)**

- |   |   |
|---|---|
| <u>English</u><br>a) Comprehension<br>b) Usage and idiom<br>c) Vocabulary and punctuation<br>d) Logical re-arrangement of sentences | <u>Telugu</u><br>a) Synonyms & Vocabulary<br>b) Grammar<br>c) Telugu to English meanings<br>d) English to Telugu meanings |
|---|---|

**PAPER-I**  
**GENERAL STUDIES & MENTAL ABILITY**

General Science – Contemporary developments in Science and Technology and their implications including matters of every day observation and experience, as may be expected of a well-educated person who has not made a special study of any scientific discipline.

1. Current events of national and international importance.  
History of India – emphasis will be on broad general understanding of the subject in its social, economic, cultural and political aspects with a focus on AP Indian National Movement.
2. World Geography and Geography of India with a focus on AP.
3. Indian polity and Economy – including the country's political system- rural development – Planning and economic reforms in India.
4. Mental Ability – Reasoning & Inferences.
5. Sustainable Development and Environmental Protection
6. Disaster Management (Source : CBSE Publications) Concepts in disaster management and vulnerability profile of India / State of A.P. Earth quakes /

Cyclones / Tsunami / Floods / Drought – causes and effects. Man made disasters - Prevention strategies. Mitigation strategies / Mitigation measures

## **PAPER-II**

### **MATHEMATICS (SSC STANDARD)**

1. **ARITHMETIC:** Number System-Natural numbers, Integers, Rational and Real numbers, Fundamental operations, addition, subtraction, multiplication, division, Square roots, Decimal fractions.  
Unitary method-time and distance, time and work, percentages, applications to simple and compound interest, profit and loss, ratio and proportion, variation.  
Elementary Number Theory – Division algorithm. Prime and composite numbers. Tests of divisibility by 2,3,4,5,9 and 11. Multiples and factors. Factorisation Theorem. H.C.F. and L.C.M. Euclidean algorithm. Logarithms to base 10, laws of logarithms, use of logarithmic tables.
2. **ALGEBRA:** Basic Operations, simple factors, Remainder Theorem, H.C.F., L.C.M. Theory of polynomials, solutions of quadratic equations, relation between its roots and coefficients (Only real roots to be considered). Simultaneous linear equations in two unknowns – analytical and Graphical solutions. Simultaneous linear inequations in two variables and their solutions. Practical problems leading to two simultaneous linear equations or inequations in two variables or quadratic equations in one variable and their solutions. Set language and set notation, Rational expressions and conditional identities, laws of indices.
3. **TRIGONOMETRY:** Sine x, Cosine x, Tangent x when  $0^\circ < x < 90^\circ$  values of sin x, cos x and tan x, for  $x = 0^\circ, 30^\circ, 45^\circ, 60^\circ$  and  $90^\circ$ .  
Simple trigonometric identities. Use of trigonometric tables.  
Simple cases of heights and distances.
4. **GEOMETRY:** Lines and angles, Plane and plane figures, Theorems on (i) Properties of angles at a point, (ii) Parallel lines, (iii) Sides and angles of a triangle, (iv) Congruency of triangles, (v) Similar triangles, (vi) Concurrence of medians and altitudes, (vii) Properties of angles, sides and diagonals of a parallelogram, rectangle and square, (viii) Circles and its properties including tangents and normals, (ix) Loci.
5. **MENSURATION:** Areas of squares, rectangles, parallelograms, triangle and circle. Areas of figures which can be split up into these figures (Field Book), Surface area and volume of cuboids, lateral surface and volume of right circular cones and cylinders, surface area and volume of spheres.
6. **STATISTICS:** Collection and tabulation of statistical data, Graphical representation frequency polygons, histograms, bar charts, pie charts etc. Measures of central tendency.

## **PAPER-III**

### **GENERAL FORESTRY-I**

1. **Plant Science:** Structure and function of plant forms from evolutionary aspects (viruses to Angiosperms including fossils). Principles of nomenclature, classification and identification of plants. Plant Taxonomy. Recent classification of living organism into three groups (bacteria, archaea and eukarya). Vegetative, asexual and sexual methods of reproduction. Pollination and fertilization. Sexual incompatibility. Development, structure, dormancy and germination of seed. Plant Diseases, Factors affecting infections, Chemical, biological and genetic methods of disease control (including transgenic plants). Ecological adaptation. Types of vegetational zones and forests of India. Deforestation, afforestation, Wasteland reclamation.
2. **Plant Varieties:** Origin, importance, export potential, varieties, climate, soil requirements, propagation and planting and after care,
3. **Biodiversity & its conservation:** Introduction — Definition: genetic, species and ecosystem diversity, Biogeographical classification of India, Value of biodiversity, Biodiversity at global, National and local levels, India as a mega-diversity nation, Hot-spots of biodiversity, Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts, Endangered and endemic species of India, Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity. Convention of Biological Diversity (CBD).
4. **Agriculture:** Principles of plant physiology with reference to plant nutrition, absorption, transactions and metabolism of nutrients. Diagnosis of nutrient deficiencies and their amelioration photosynthesis and respiration, growth and development, auxins and hormones in plant growth. Development of hybrids, composites and synthetic, important varieties, hybrids, composites and synthetic of major crops. Seeds and seed production techniques. Principles of economics as applied to agriculture. Farm planning and optimum resource-use efficiency and maximizing income and employment. Farm systems and their spatial distribution, their significant roles in

regional economic development.

Agronomy, Agricultural Extension, Dairy Engineering, Land development machinery.

**5. Horticulture Science:** Importance of horticulture in terms of economy, production, employment generation, environmental protection and human resource development. Nutritional value of horticultural crops. Divisions of horticulture and their importance.

- a. Temperature, light, humidity, rainfall and soil requirements for horticultural crops. Selection of site for establishing an orchard, orchard plan, systems of planting. Establishment of an orchard. Objectives of orchard management culture, different methods of orchard culture. Pruning and training — objectives, methods and effects.
- b. Nutrition of horticultural crops — assessment of nutritional requirements, Identification of deficiency symptoms, methods of nutrient application. Assessment of irrigation requirements for different horticultural crops, irrigation methods.
- c. Flower bud initiation and formation. Factors affecting them, environmental influences, chemical, nutritional management practices. Pollination and fruit set, problems and requirements, flower and fruit drop, Unfruitfulness.

## 6. Plant Propagation

- a) Principles and classification of plant propagation methods.
- b) Sexual propagation and its importance. Factors affecting germination and pregermination treatments.
- c) Sexual propagation and its importance. Propagation of plants by cuttage, factors affecting regeneration of plants from cuttings. Types of cuttings, propagation by layerage. Factors affecting regeneration of plants by layerage. Methods of layerage.
- d) Propagation by grafting, importance of graftage. Factors for successful grafting., Selection of rootstock and scion. Methods of budding and grafting Rootstocks. Stock scion relations.

## 7. Green House Production

- a) Importance and scope, production of crops in greenhouse. Status and development of greenhouse production of crops. Establishing a greenhouse. Greenhouse and related structures location, types, size and arrangement.
- b) Control of environmental factors influencing the growth.
- c) Preparation of growing media requirement and its management at different stages of crop growth. Management of nutrients

**8. Soil Science:** Types of soil, field identification and classification; Forest soils, classification, factors affecting soil formation; physical, chemical and biological properties; phase relationships, consistency limits, particle size distribution, classification of soil structure and clay mineralogy, Capillary water and structural water, effective stress and pore water pressure, Permeability, Seepage pressure, quick sand condition, compressibility and consolidation; Soil conservation — definition, causes for erosion, types — wind and water erosion; conservation and management of eroded soils/areas, wind breaks, shelter belts; sand dunes; reclamation of saline and alkaline soils, water logged and other waste lands. Role of forests in conserving soils.

**9. Geology:** Primary and secondary structures. Dip and strike of beds. Unconformities. Study of folds, joints, faults, foliation and lineations. Overthrusts and nappe structures. Stages of rock deformation. Construction of block diagrams, Stereographic and equal-area nets. Solutions of simple problems by stereographic net. Topographic maps and their interpretation. Use of clinometer compass in the field Measurements of bed, foliation, folds joints, faults and lineations in the field. Principles of geological mapping. Effects of topography on outcrops.

**10. Water Resource Management:** Surface and subsurface water resources, predicting demand for water, impurities of water and their significance, physical, chemical and bacteriological analysis, water borne diseases, standards for potable water. Pumping and gravity schemes, water treatment; Storage and balancing reservoir types, location and capacity. Distribution systems.

**11. Watershed Management:** Concepts of watershed; role of mini-forests and forest trees in overall resource management, forest hydrology, watershed development in respect of torrent control, river channel stabilization, rehabilitation of degraded areas; hilly and mountain areas; watershed management and environmental functions of forests; water-harvesting and conservation; ground water recharge and watershed management; role of integrating forest trees, horticultural crops, field crops, grass and fodders.

**12. Silviculture :** General Silvicultural Principles; ecological and physiological factors influencing vegetation, natural and artificial regeneration of forests, methods of propagation, grafting techniques; site factors; nursery and planting techniques — nursery beds, polybags

and maintenance, water budgeting, grading and hardening of seedlings, special approaches, establishment and tending. Traditional and recent tropical silvicultural research and practices. Silvi- culture of some of the economically important species in India such as *Acacia Sundra*, *Acacia nilotica*, *Acacia auriculiformis*, *Albizia lebbeck*, *Albizia procera*, *Anthocephalus Cadamba*, *Anogeissus latifolia*, *Azadirachta indica*, *Bamboo spp*, *Butea monosperma*, *Cassia siamea*, *Casuarina equisetifolia*, *Dalbergia sisoo*, *Dipterocarpus spp.*, *Embllica officinalls*, *Eucalyptus spp*, *Gmelina arborea*, *Hardwickia binata*, *Lagerstoremia lanceolata*, *Pterocarpus marsupium*, *Prosepis juliflora*, *Santalum album*, *Semi-carpus anacardium*, *Salmalia malabaricum*, *Tectona grandis*, *Terminalia tomentosa*, *Tamarindus indica*.

**13. Agro-forestry, Social Forestry, Joint Forest Management:** Agroforestry: scope and necessity; role in the life of people and domestic animals and in integrated land use, planning especially related to soil and water conservation, water recharge, nutrient availability to crops, nature and eco-system preservation including ecological balances through pest- predator relationships and providing opportunities for enhancing biodiversity, medicinal and other flora and fauna. Agro forestry systems under different agro-ecological zones, selection of species and role of multipurpose trees and NTFPs, techniques, food, fodder and fuel security. Research and Extension needs. Social/Urban Forestry: objectives, scope and necessity; JFM — principles, objectives, methodology, scope, benefits and role of NGOs.

**14. Farm, Agri & Forest Power Tools & Machinery:** Types, Uses, maintenance and safety measures.

## **PAPER - IV**

### **GENERAL FORESTRY - II**

**1. Ecosystems & Wildlife:** Concept of an ecosystem, Structure and function of an ecosystem, Producers, consumers and decomposers, Energy flow in the ecosystem, Ecological succession, Food chains, food webs and ecological pyramids, Introduction, types, characteristic features, structure and function of the following ecosystem: Forest ecosystem, Grassland ecosystem, Desert ecosystem, Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries), Wildlife of India; endangered species of India; sanctuaries and national parks of India, Biological rhythms

**2. Forest Protection And Wildlife Biology:** Injuries to forest — abiotic and biotic destructive agencies, insect — pests and disease, effects of air pollution on forests and forest die back. Susceptibility of forests to damage, nature of damage, cause, prevention, protective measures and benefits due to chemical and biological control. General forest protection against fire, equipment and methods, controlled use of fire, economic and environmental costs; timber salvage operations after natural disasters. Role of afforestation and forest regeneration in absorption of CO<sub>2</sub>. Rotational and controlled grazing, different methods of control against grazing and browsing animals; effect of wild animals on forest regeneration, human impacts; encroachment, poaching, grazing live fencing, theft, shifting cultivation and control.

**3. Genetics and Breeding:** Principle of genetics, chemical nature of DNA and RNA and their models and functions. Recombinant DNA technology, transgenic animals, multiple ovulation and embryo-transfer. Cytogenetics, immunogenetics and biochemical polymorphic and their application in animal improvement. Gene actions. Systems and strategies for improvement of livestock for milk, meat, wool production and drought and poultry for eggs and meat. Breeding of animals for disease resistance. Breeds of livestock, poultry and rabbits.

**4. Nutrition:** Role of nutrition in animal health and production. Classification of feeds, Proximate composition of feeds, feeding standards, computation of rations. Ruminant nutrition. Concepts of total digestible nutrients and starch equivalent systems. Significance of energy determinations. Conservation of feeds and fodder and utilization of agro by-products. Feed supplements and additives. Nutrition deficiencies and their management.

**5. Veterinary Science:** (i) Major contagious diseases affecting cattle, buffaloes, horses, sheep and goats, pigs, poultry, rabbits and pet animals. Etiology, symptoms, pathogenicity, diagnosis, treatment and control of major bacterial, viral, rickettsial and parasitic infections. (ii) Description, symptoms, diagnosis and treatment of the following:

- a) Production diseases of milk animals, pig and poultry.
- b) Deficiency diseases of domestic livestock and birds
- c) Poisonings due to infected/contaminated foods and feeds, chemicals and drugs.

## 6. Economic Zoology:

Beneficial and harmful insects including insect vectors of human diseases, Industrial fish, prawn and molluscs of India, Non-poisonous and poisonous snakes of India, Venomous animals-centipede, wasp, honey bee, Diseases caused by aberrant chromosomes/genes in man; genetic counseling; DNA as a tool for forensic investigation.

**7. Forest Economics, Legislation & Administration:** Forest economics — fundamental principles, cost-benefit analysis; estimation of demand and supply; role of private sector and cooperatives; role of corporate financing. Forest in Concurrent List, Forest Laws: Indian Forest Act, AP Forest Act & Rules, Wildlife Protection Act, Forest Conservation Act, Administration: Indian Forest Services, AP State Forest Services, AP State Forest Subordinate Services, AP Forest Department-Its structure and activities.

**8. Sampling Theory:** Complete enumeration vs. sampling, need for sampling, basic concepts in sampling, designing large-scale sample surveys, sampling and non-sampling errors, simple random sampling, properties of a good estimator, estimation of sample size, stratified random sampling, systematic sampling cluster sampling, ratio and regression methods of estimation under simple and stratified random sampling.

**9. Forest Mensuration, Remote Sensing and Forest Working Plan:** Methods of measuring — diameter, girth, height and volume of trees; form-factor; volume estimation of stand, current annual increment; mean annual increment, Yield calculation, yield and stand tables: forest cover monitoring through remote sensing; Geographic information Systems for management and modeling; Forest planning, evaluation and monitoring tools and approaches for integrated planning; multipurpose development of forest resources and forest industries development; working plans. Annual Plant of Operations.

**10. Renewable and non-renewable resources:** Natural resources and associated problems.

- a) Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people.
- b) Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.
- c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources.
- d) Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity.
- e) Energy resources: Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources.
- f) Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification

**11. Environmental Sciences:** Definition, scope and importance, Need for public awareness, Environmental Pollution: Definition, Causes, effects and control measures of Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution & Nuclear hazards. Solid waste Management: Causes, effects and control measures of urban and industrial wastes. Social Issues and the Environment: From Unsustainable to Sustainable development. Urban problems related to energy, Water conservation, rain water harvesting, Resettlement and rehabilitation of people; its problems and concerns, Environmental ethics: Issues and possible solutions, Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, Wasteland reclamation, Consumerism and waste products, Environment Protection Act, Air (Prevention and Control of Pollution) Act, Water (Prevention and control of Pollution) Act, APWALTA.

**12. Transportation Techniques:** Highway alignment, choice of layout and capacity of highways, location survey, geometric design of highways-various elements, curves, grade separation and segregation of traffic, inter-section design, highway materials and testing subgrade and pavement components, type of pavements, road drainage.

**13. Project Management:** Elements and principles of Activity on Arrow (AOA) and Activity on Node (AON) networks and work breakdown structure. Interfaces. Ladder networks. Activity time. Time computations and works. ATC and PTC trade-off. Work study and sampling. Scheduling principles-material schedules. ABC and EOQ analysis of inventory. Budgeting with bar-charts. Working capital. PERT, probability of completion. Elements of Engineering Economics, methods of appraisal, present worth, annual cost, benefit-cost, incremental analysis. Economy of scale and size. Choosing between alternatives including levels of investments. Project profitability.

**14. Communications :** Analog communications-AM, FM, PM modulations-Power requirements —

Transmitters — Receivers — Ground wave propagation- Sky and Space propagation. Digital communications — Pulse modulations — Delta modulation, multiplexing, multiple access, Antennas, wave guides, Basics of satellite communications, optical communications. Wireless Communications, Walkie-Talkie, HAM Radio.

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**SCHEME OF EXAMINATION (PRACTICAL TYPE)**

| TEST   | Duration<br>(Minutes) | Maximum<br>Marks | Minimum qualifying marks |       |       |
|--|-----------------------|------------------|--------------------------|-------|-------|
|  |                       |                  | SC/ST/PH                 | B.C's | O.C's |
| Proficiency in Office Automation with usage of Computers and Associated Software | 30                    | 50               | 15                       | 17.5  | 20    |

**SYLLABUS**

The test shall comprise the following four parts:

| Name of the part | Name of the Question to be answered   | Marks |
|------------------|---|-------|
| Part A           | Example: Typing a letter/passage/paragraph ( about 100-150 words ) in MS-Word     | 15    |
| Part B           | Example: Preparation of a Table/Graph in MS-Excel                                 | 10    |
| Part C           | Example: Preparation of Power Point Presentations/Slides (Two) on MS-Power Point. | 10    |
| Part D           | Example: Creation and manipulation of data bases.                                 | 10    |
| Part E           | Example: Displaying the content of E-mail (Inbox).                                | 05    |
| Total            |   | 50    |

**Note:** The candidates shall be given the text / matter in the Question Paper and they must type / reproduce it in the Answer Sheet. The formatting of the text should also be of the same type as given in the Question Paper.

| NAME | CONTENTS OF PART-A   | MARKS |
|------|--|-------|
| WORD | <div>1. Create and save a document using MS WORD<div><div>Deletion of Character, Word, line and block of text</div><div>Undo and redo process</div><div>Moving, Copying and renaming</div></div></div> <div>2. Format the Text document<div><div>Character formatting</div><div>Paragraph formatting</div><div>Page formatting</div></div></div> <div>3. Spell check the document<div><div>Finding and Replacing of text</div><div>Bookmarks and Searching for a Bookmarks</div><div>Checking Spelling and Grammar automatically</div><div>Checking Spelling and Grammar using Dictionary</div></div></div> <div>4. Print the document<div><div>Print Preview</div><div>Print Dialog box</div></div></div> <div>5. Mail Merge in Ms-word<div><div>Create main document and data file for mail merging</div><div>Merging the files</div><div>From letters using mail merging</div><div>Mailing labels using mail merging</div></div></div> <div>6. Table creation in Ms-word<div><div>Create a table in the document</div><div>Add row, column to a table</div><div>Changing column width and row height.</div><div>Merge, split cells of table.</div><div>Use formulae in tables.</div><div>sorting data in a table.</div><div>formatting a table.</div></div></div> <div>7. Ability to type on Qwerty key board of Computer at a speed of</div> | 15    |



|             |   |       |
|-------------|---|-------|
|             | at least equivalent to 30 Words per 1 minute (Lower type writing test).   |       |
| NAME        | CONTENTS OF PART-B  | MARKS |
| EXCEL       | <ol style="list-style-type: none"><li>1. Create and save a new work book in Excel</li><li>2. Entering Data into Worksheet</li><li>3. Editing data of Worksheet</li><li>4. Formatting the text in the cells</li><li>5. Formatting the numbers in the cells.</li><li>6. Formatting cells.</li><li>7. Copying format of cell along with data format.</li><li>8. Changing the height and width of cells.</li><li>9. Freezing Titles, splitting screen</li><li>10. Enter formulae for calculation in the cells.</li><li>11. Copying the formula over a range of cells.</li><li>12. Inserting built-in functions in to the cells.</li><li>13. Create graphs for the data using Chart Wizard.</li><li>14. Format graphs in Excel.</li><li>15. Printing of worksheet.</li></ol> | 10    |
| NAME        | CONTENTS OF PART-C  | MARKS |
| POWER POINT | <ol style="list-style-type: none"><li>1. Create and save a new presentation using MS Power Point<ul style="list-style-type: none"><li>• layout of opening screen in Power Point</li><li>• the tool bars in MS Power Point</li></ul></li><li>2. Choose Auto Layout for a new slide.</li><li>3. Insert text and pictures into a blank slide.</li><li>4. Insert new slides into the presentation.</li><li>5. Apply slide transition effects.</li><li>6. Slide show.</li><li>7. Set animation to text and pictures in a slide</li><li>8. Set the sounds, order and timing for animation.</li></ol>  | 10    |
| NAME        | CONTENTS OF PART-D  | MARKS |
| ACCESS      | Creation and manipulation of data bases   | 10    |
| NAME        | CONTENTS OF PART-E  | MARKS |
| INTERNET    | <ol style="list-style-type: none"><li>1. Browse the Net using Browser software (Internet Explorer, Mozilla Firefox, Google Chrome etc.).</li><li>2. Search the Web using Search Engines.</li><li>3. Create an E-mail account.</li><li>4. Send and receive E-mail.</li><li>5. E-commerce transactions.</li><li>6. Web content uploading.</li><li>7. Ability to operate Mac OS / pages / key note / Numbers.</li></ol>  | 05    |
| GRAND TOTAL |   | 50    |

### **Annexure-III**

#### **INSTRUCTIONS TO CANDIDATES**

##### **A. INSTRUCTIONS TO CANDIDATES:**

- A.1. The applicants are required to go through the user guide and satisfy themselves as to their eligibility for this recruitment carefully before applying and enter the particulars completely online.
- A.2. Applicant must compulsorily fill-up all relevant columns of application and submit application through website only. The particulars made available in the website will be processed through computer and the eligibility decided in terms of notification and confirmed accordingly.
- A.3. The applications received online in the prescribed proforma available in the website and within the time shall only be considered and the Commission will not be held responsible for any kind of delay/discrepancy on part of the candidate.
- A.4. Applicants must compulsorily upload his/her own scanned photo and signature through .jpg format.
- A.5. The applicants should not furnish any particulars that are false, tampered, fabricated or suppress any material information while making an application through website.
- A.6. Important:-Hand written/typed/Photostat copies/printed application form will not be entertained.
- A.7. The applicant shall produce all the essential certificates issued by the competent authority, for verification by the commission, as and when called for. If candidates fail to produce the same, his/her candidature shall be rejected / disqualified without any further correspondence.
- A.8. The following certificate formats are available on the Commission's Website ([://psc.ap.gov.in](http://psc.ap.gov.in)) for reference.
  - A.8.1. Community, Nativity and Date of Birth Certificate
  - A.8.2. Declaration by the Un-Employed
  - A.8.3. School Study Certificate
  - A.8.4. Certificate of Residence
  - A.8.5. Medical Certificate for the Blind
  - A.8.6. Certificate of Hearing Disability and Hearing Assessment
  - A.8.7. Medical Certificate in respect of Orthopedically Handicapped Candidates
  - A.8.8. Creamy Layer Certificate
  - A.8.9. Local status certificate (if applicable)

##### **B. INSTRUCTIONS REGARDING OFF-LINE EXAMINATION FOR CANDIDATES (if**

##### **Screening test is held):**

- B.1. The candidates should go through the instructions given on the cover page of test booklet and carefully write his/her Registration Number, Subject / Subject Code, Booklet Series, Name of the Examination Centre etc., in the Answer Sheet, which will be provided to him/her in the examination hall.
- B.2. Since the answer sheets are to be scanned (valued) with Optical Mark Scanner system, the candidates have to USE BALL POINT PEN (BLUE or BLACK) ONLY FOR MARKING THE ANSWERS. The candidates will be supplied OMR Sheet consisting of two copies i.e., the Original Copy (Top Sheet) and Duplicate Copy (Bottom Sheet). The candidate is required to use Ball Point Pen (Blue or Black) for filling the relevant blocks in the OMR Sheet including bubbling the answers. After writing the examination the candidate has to handover the original OMR sheet (Top Sheet) to the invigilator in the examination hall. If any candidate takes away the original OMR Sheet (Top Sheet) his/her candidature will be rejected.  
 However the candidate is permitted to take away the duplicate (Bottom Sheet) OMR Sheet for his/her record. The candidates should bring Ball Point Pen (Blue or Black and smooth writing pad) to fill up relevant columns on the Answer Sheet. The candidate must ensure encoding the Registration Number, Subject/Subject Code, Booklet Series correctly, write the Name of the Examination Centre, appending Signatures of the Candidate and Invigilator, etc., on the O.M.R. Answer sheet correctly, failing which the Answer sheet will not be valued. Use of whitener / correcting fluid / Blade / Powder/ Eraser / folding / Tearing / Rough Work or any kind of tampering to change the answers on OMR Sheet will lead to disqualification / invalidation / rejection. No correspondence whatsoever will be entertained from the candidates in this regard.

- B.3. The OMR Sheet is to be bubbled by Ball Point Pen (Blue or Black) only. Bubbling by Pencil / Ink Pen / Gel Pen is not permitted in this examination. Any kind of tampering to change the answers on the OMR Sheet will lead to disqualification / invalidation / rejection. No correspondence whatsoever will be entertained from the candidates in this regard.

**C. INSTRUCTIONS REGARDING ON-LINE EXAMINATION FOR CANDIDATES:**

- C.1. The candidates should take their seats at the prescribed time before the commencement of the examination. Biometric identification would be conducted before entry into examination hall. The entry time would be mentioned in the hall ticket. Late entry after the given entry time would not be allowed. Candidates should not leave the examination hall till the expiry of fulltime. Loaning and interchanging of articles among the candidates is not permitted in the examination hall. Electronic devices including cell phones and pagers are not allowed in the examination hall.
- C.2. The starting time of each examination paper and the entry time would be mentioned in the hall ticket.
- C.3. Candidates will not be permitted to leave the examination hall till the expiry of full time. If any candidate leaves the examination hall in the middle, he would be disqualified. If there is any problem with computer system, the candidates have to wait without talking to others till the system is restored. In case of any violation, the candidate will be disqualified.
- C.4. The examination link with the login screen will already be available on your system. Please inform the invigilator if this is not the case.
- C.5. 10 minutes prior to the exam, you'll be prompted to login. Please type the Login ID (Roll No) and the Password (Password for Candidate will be given on exam day) to proceed further.
- C.6. Invigilator will announce the password 15 minutes before commencement of the Examination.
- C.7. Copying or noting down questions and/or options is not allowed. Severe action will be taken if any candidate is found noting down the questions and/or options.
- C.8. After logging in, your screen will display:
- \*Profile Information - Check the details & click on "I Confirm" or "I Deny".
  - \*Detailed exam instructions - Please read and understand thoroughly.
  - \*Please click on the "I am ready to Begin" button, after reading the instructions.
- C.9. You have to use the mouse to answer the multiple choice type questions with FOUR alternative answers.
- C.10. To answer any numerical answer type question, you need to use the virtual numeric key pad and the mouse.
- C.11. On the online exam question screen, the timer will display the balance time remaining for the completion of exam.
- C.12. The question numbers are color coordinated and of different shapes based on the process of recording your response: White (Square) - For un-attempted questions. Red (Inverted Pentagon) - For unanswered questions. Green (Pentagon) - For attempted questions. Violet (Circle) - Question marked by candidate for review, to be answered later. Violet (Circle with a Tick mark) - Question answered and marked by candidate for review.
- C.13. After answering a question, click the SAVE & NEXT button to save your response and move onto the next question.
- C.14. Click on Mark for Review & NEXT to mark your question for review, and then go to the next question.
- C.15. To clear any answer chosen for a particular question, please click on the CLEAR RESPONSE button.
- C.16. A summary of each section, (i.e. questions answered, not answered, marked for review) is available for each section. You have to place the cursor over the section name for this summary.
- C.17. In case you wish to view a larger font size, please inform the Invigilator. On the Invigilator's confirmation, click on the font size you wish to select. The font size will be visible on the top.
- C.18. You may view INSTRUCTIONS at any point of time during exam, by clicking on the INSTRUCTIONS button on your screen.

- C.19. The SUBMIT button will be activated after 150 Minutes. Please keep checking the timer on your screen.
- C.20. In case of automatic or manual log out, all your attempted responses will be saved. Also, the exam will start from the time where it had stopped.
- C.21. You will be provided a blank sheet for rough work. Do write your Login ID and Password on it. Please ensure that you return it to the invigilator at the end of the exam after tearing only the password from it.
- C.22. Please don't touch the key board as your exam ID will get locked. If your ID gets locked, please inform a nearby invigilator who will help in unlocking your ID and then you can continue with the exam.
- C.23. Please inform the invigilator in case of any technical issues.
- C.24. Please do not talk to or disturb other candidates.
- C.25. In case you are carrying articles other than the admit card, photo identity proof and pen, please leave them outside the exam room.
- C.26. You cannot leave exam room before submitting the paper. Please inform the invigilator if you want to use the wash room.

#### **D. GENERAL INSTRUCTIONS TO CANDIDATES:**

- D.1. If the candidate notices any discrepancy printed on the Hall ticket, as to community, date of birth etc., he/she may immediately bring it to the notice of Commission's officials/Chief Superintendent in the examination centre and necessary corrections can be made in the Nominal Roll, in the Examination Hall against his/her Hall Ticket Number for being verified by the Commission's Office.
- D.2. The candidate should satisfy the Invigilator of his/her identity with reference to the signature and photographs available on the Nominal Rolls and Hall Ticket.
- D.3. The candidates should take their seats at the given time before the commencement of the examination and are not to be allowed after the scheduled time. The time of Examination and entry time would be mentioned in the hall ticket. Late entry after the given entry time would not be allowed. Candidates should not leave the examination hall till the expiry of fulltime.
- D.4. The candidates must note that his/her admission to the examination is strictly provisional. The mere fact that an Admission to the examination does not imply that his/her candidature has been finally cleared by the Commission or that the entries made by the candidate in his/her application have been accepted by the Commission as true and correct. The candidates have to be found suitable after verification of original certificates; and other eligibility criteria. The Applicants have to upload his/her scanned recent colour passport photo and signature to the Application Form. Failure to produce the same photograph, if required, at the time of interview/ verification, may lead to disqualification. Hence the candidates are advised not to change their appearance till the recruitment process is complete.
- D.5. The candidates are not allowed to bring any Electronic devices such as mobile / cell phones, programmable calculators, tablets, iPad, Bluetooth, pagers, watches or any other computing devices to examination Hall. Non programmable calculators would be permitted, wherever necessary. Loaning and interchanging of articles among the candidates is not permitted in the examination hall and any form of malpractice will not be permitted in the exam hall.
- D.6. The candidates are expected to behave in orderly and disciplined manner while writing the examination. Their candidature will be rejected in case of impersonation/ disorder/ rowdy behaviour during Examination and necessary F.I.R. for this incident will be lodged with concerned Police Station. The Chief Superintendent of the centre is authorized to take spot decision in this matter.
- D.7. Candidates trying to use unfair means shall be disqualified from the selection. No correspondence whatsoever will be entertained from the candidates.
- D.8. The Penal Provisions of Act 25/97 published in the A.P. Gazette No. 35, Part-IV.B Extraordinary dated: 21/08/1997 shall be invoked if malpractice and unfair means are noticed at any stage of the Examination. Action will be taken to penalize as per G.O.Ms.No.385, G.A. (Ser. A) Dept., Dt.18/10/2016.
- D.9. (a) Wherever the candidates are totally blind, they will be provided a scribe to write the examination and 20 minutes extra time is permitted to them per hour. Eligible candidates are also allowed to bring their own scribe after due intimation to the Commission after duly providing the full identification details of the scribe like name, address and appropriate proof of identification.  
(b) The applicants shall upload the certificate relating to percentage of disability for considering the appointment of scribe in the examination.

(c) An extra time of 20 minutes per hour is also permitted for the candidates with locomotor disability and CEREBRAL PALSY where dominant (writing) extremity is affected for the extent slowing the performance of function (Minimum of 40% impairment). No scribe is allowed to such candidates.

(d) The candidate as well as the scribe will have to give a suitable undertaking conforming to the rules applicable

- D.10. In case the Hall-Ticket is without photo or too small, he/she should affix a passport size photo on Hall-ticket and appear by duly getting attested by Gazetted Officer. He/she shall handover similar photo for each paper to Chief Superintendent for affixing the same on the Nominal Rolls.
- D.11. The candidate will not be admitted to the examination Hall without procedural formalities.
- D.12. The candidate admission to the Examination is provisional, subject to the eligibility, confirmation/satisfaction of conditions laid down in this notification.
- D.13. The candidates should put his/ her signature and get the signature of the invigilator at the appropriate places in the Nominal Roll or OMR Answer Sheet.
- D.14. Instructions to be followed scrupulously in the Examination Hall.

**ANNEXURE - IV**  
**LIST OF SCHEDULED CASTES**  
**(Definition 28 of General Rule - 2)**  
**SCHEDULE - I**

(Substituted with effect from 27-07-1977 through G.O.Ms.No. 838,  
G.A. (Services-D) Department, dated 15/12/1977)

- 1 Adi Andhra
- 2 Adi Dravida
- 3 Anamuk
- 4 Aray Mala
- 5 Arundhatiya
- 6 Arwa Mala
- 7 Bariki
- 8 Bavuri
- 9 Beda Jangam, Budga Jangam (In Districts of Hyderabad, Rangareddy, Mahaboobnagar, Adilabad, Nizamabad, Medak, Karimnagar, Warangal, Khammam and Nalgonda)\*
- 10 Bindla
- 11 Byagara, Byagari\*
- 12 Chachati
- 13 Chalavadi
- 14 Chamar, Mochi, Muchi, Chamar-Ravidas, Chamar-Rohidas\*
- 15 Chambhar
- 16 Chandala
- 17 Dakkal, Dokkalwar
- 18 Dandasi
- 19 Dhor
- 20 Dom, Dombara, Paidi, Pano
- 21 Ellamalwar, Yellammalawandlu
- 22 Ghasi, Haddi, Relli, Chachandi
- 23 Godagali, Godagula (in the Districts of Srikakulam, Vizianagaram & Vishakapatnam) \*
- 24 Godari
- 25 Gosangi
- 26 Holey
- 27 Holey Dasari
- 28 Jaggali
- 29 Jambuwulu
- 30 Kolupulvandlu, Pambada, Pambanda, Pambala \*
- 31 Madasi Kuruva, Madari Kuruva
- 32 Madiga
- 33 Madiga Dasu, Mashteen
- 34 Mahar
- 35 Mala, Mala Ayawaru \*
- 36 Mala Dasari
- 37 Mala Dasu
- 38 Mala Hannai
- 39 Mala Jangam
- 40 Mala Masti
- 41 Mala Sale, Netkani
- 42 Mala Sanyasi
- 43 Mang
- 44 Mang Garodi
- 45 Manne
- 46 Mashti
- 47 Matangi
- 48 Mahter
- 49 Mitha Ayyalvar
- 50 Mundala
- 51 Paky, Moti, Thoti
- 52 (Omitted)\*
- 53 Pamidi
- 54 Panchama, Pariah
- 55 Relli
- 56 Samagara
- 57 Samban

- 58 Sapru  
 59 Sindhollu, Chindollu  
 60 Yatala (Srikakulam Dist. Only) Memo No. 8183/CV-1/2006-10 SW (CV-I) Dept., Dt. 31/03/2008  
 61 Valluvan \* (Chittoor and Nellore Dist. Only) Memo No. 8183/CV-1/2006-10 SW (CV-I) Dept., Dt. 31/03/2008  
 \* As for the Constitution (Scheduled Caste) orders (Second Amendment) Act 2002, Act No. 61 of 2002

#### **LIST OF SCHEDULED TRIBES**

1. Andh, Sadhu Andh \*
2. Bagata
3. Bhil
4. Chanchu (Chenchwar omitted) \*
5. Gadabas, Boda Gadaba, Gutob Gadaba, Kallayi Gadaba, Parangi Gadaba, Kathera Gadaba, Kapu Gadaba \*
6. Gond, Naikpod, Rajgond, Koitur \*
7. Goudu (in the Agency tracts)
8. Hill Reddis
9. Jatapus
10. Kammara
11. Kattunayakan
12. Kolam, Kolawar \*
13. Konda Dhoras, Kubi \*
14. Konda Kapus
15. Konda Reddis
16. Kondhs, Kodi, Kodhu, Desaya Kondhs, Dongria Kondhs, Kuttiya Konds, Tikiria Khondhs, Yenity Khondhs, Kuvinga \*
17. Kotia, Benthoriya, Bartika, Dulia, Holva, Sanrona, Sidhopaiko (Dhulia, Paiko, Putiya- omitted \*)
18. Koya, Doli Koya, Gutta Koya, Kammara Koya, Musara Koya, Oddi Koya, Pattidi Koya, Rajah, Rasha Koya, Lingadhari Koya (Ordinary), Kottu Koya, Bhine Koya, Raj Koya (Goud-omitted \*)
19. Kulia
20. Malis (excluding Adilabad, Hyderabad, Karimnagar, Khammam, Mahabubnagar, Medak, Nalgonda, Nizamabad and Warangal District)
21. Manna Dhora
22. Nayaks (in the Agency tracts)
23. Mukha Dhora, Nooka Dhora
24. Pardhan
25. Porja, Parangi Perja
26. Reddi Dhoras
27. Rona, Rena
28. Savaras, Kapu Savaras, Maliya Savaras, Khutto Savaras
29. Sugalis, Lambadis, Banjara \*
30. Thoti (in Adilabad, Hyderabad, Karimnagar, Khammam, Mahabubnagar, Medak, Nalgonda, Nizamabad and Warangal Districts)
31. Valmiki (in the Scheduled Areas of Vishakapatnam, Srikakulam, Vizianagaram, East Godavari and West Godavari Districts \*)
32. Yenadis, Chella Yenadi, Kappala Yenadi, Manchi Yenadi, Reddi Yenadi \*
33. Yerukulas, Koracha, Dabba Yerukula, Kunchapuri Yerukula, Uppu Yerukula \*
34. Nakkala Kurivikaran (Nakkala – A.P. Gazette, Part – III (B) Central Acts ordinance and Regulations Issue No. 05 Dt. 02/10/2003 )
35. Dhulia, Paiko, Putiya (in the districts of Vishakapatnam, Vizianagaram \*)

\* As for the Scheduled Castes and Scheduled Tribes Orders (Amendment) Act 2002, Act No. 10 of 2003



**LIST OF SOCIALLY AND EDUCATIONALLY BACKWARD  
CLASSES**

(Amended from time to time as on 31/08/2007)

**GROUP- A**

Aboriginal Tribes, Vimuktha Jathis, Nomadic and Semi Nomadic Tribes etc.,

1. Agnikulakshatriya, Palli, Vadabalija, Besta, jalari, Gangavar, Gangaputra, Goondla, Vanyakulakshatriya (Vannekapu, Vannereddi, Pallikapu, Pallireddy Neyyala and Pattapu)  
\*Mudiraj / Mutrasi / Tenugollu, The G.O. Ms.No. 15 BCW(C2) Dept., dt. 19/02/2009 is suspended. Hence the inclusion of Mudiraj / Mutrasi / Tenugollu is suspended) vide Hon'ble A.P. High Court orders in WP No. 2122/2009 dated: 29-04- 2009.
2. Balasanthu, Bahurupi
3. Bandara
4. Budabukkala
5. Rajaka (Chakali Vannar)
6. Dasari (formerly engaged in bikshatana)  
(amended vide G.O.Rt.No. 32, BCW(M1) Department, dated 23/02/1995)
7. Dommara
8. Gangiredlavaru
9. Jangam (whose traditional occupation is begging)
10. Jogi
11. Katipapala
12. Korcha
13. Lambada or Banjara in Telangana Area  
(deleted and included in S.T. list vide G.O.Ms.No. 149, SW, dated 3/5/1978)
14. Medari or Mahendra
15. Mondivaru, Mondibanda, Banda
16. Nayee Brahmin (Mangali), Mangala and Bajantri  
(amended vide G.O.Ms.No. 1, BCW(M1) Department, dated 6/1/1996)
17. Nakkala (Deleted vide G.O. Ms. No. 21, BCW(C2) Dept., Dt. 20/06/2011)
18. Vamsha Raj (amended vide G.O.Ms.No. 27, BCW(M1) Department, dated 23/06/1995 deleting the Original name Pitchiguntla)
19. Pamula
20. Pardhi (Mirshikari)
21. Pambala
22. Peddammavandlu, Devaravandlu, Yellammavandlu, Mutyalammavandlu (Dammali, Dammala, Dammula, Damala Castes confined to Srikakulam dist. Vide G.O.Ms. No.: 9 BCW(C2) Dept., Dt. 9/04/2008)
23. Veeramushti (Nettikotala), Veera bhadreeya (Amended vide G.O. Ms. No. 62, BCW (M1) Dept., Dt. 10/12/1996)
24. Valmiki boya (Boya, Bedar, Kirataka, Nishadi, Yellapi, Pedda Boya) Talayari and Chunduvallu  
(G.O.Ms. No. 124, SW, Dt. 24.06.85) Yellapi and Yellapu are one and the same amended vide G.O. Ms. No. 61, BCW(M1) Dept., Dt. 05.12.1996)
25. Yerukalas in Telangana area (deleted and included in the list of S.Ts)
26. Gudala
27. Kanjara - Bhatta
28. Kalinga (Kinthala deleted vide G.O.Ms. No. 53, SW, Dt. 07.03.1980)
29. Kepmare or Reddika
30. Mondipatta
31. Nokkar
32. Pariki Muggula
33. Yata
34. Chopemari
35. Kaikadi
36. Joshinandiwalas
37. Odde (Oddilu, Vaddi, Vaddelu)
38. Mandula (Govt. Memo No. 40-VI/70-1, Edn., Dt. 10.02.1972)
39. Mehator (Muslim) (Govt. Memo No. 234-VI/72-2, Edn., Dt. 05.07.1972). 40. Kunapuli (Govt. Memo No. 1279/P1/74-10, E&SW, Dt. 03.08.1975)
41. Patra (included in G.O. Ms. No. 8, BCW(C2) Dept., Dt. 28.08.2006)
42. kurakula of Srikakulam, Vizianagaram and Visakhapatnam Districts only. Included vide in G.O.MS.No. 26 BC W (C2) Dept., Dt. 4/07/08

43. Pondara of Srikakulam, Vizianagaram, and Visakhapatnam Districts only. Included vide G.O.MS.No. 28 BC W (C2) Dept., Dt. 4/07/08
44. Samanthula, Samantha, sountia, Sauntia of Srikakulam District only. Included vide G.O.MS.No. 29 BC W (C2) Dept., Dt. 4/07/08
45. pala-Ekari, Ekila, Vyakula, Ekiri, Nayanivaru, Palegaru, Tolagari, Kavali of Chittoor, Cuddapah, Kurnool, Anantapur, Nellore, Hyderabad and Rangareddy Districts only. Included Vide G.O. MS. No. 23 B.C. W (C2) Dept., Dt. 4/07/08
46. Rajannala, Rajannalu of Karimnagar, Warangal, Nizamabad and Adilabad Districts only. (included in vide G.O.Ms. No. 44 B.C.W(C2) Dept., Dt.07/08/2008).
47. Bukka Ayyavars, Included vide G.O.Ms.No. 6 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
48. Gotrala, Included vide G.O.Ms.No. 7 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana Region only.
49. Kasikapadi / Kasikapudi, Included vide G.O.Ms.No. 8 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Hyderabad, Rangareddy, Nizamabad, Mahaboobnagar and Adilabad Districts of Telangana Region only.
50. Siddula, Included vide G.O.Ms.No. 9 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana Region only.
51. Sikligar / Saikalgar, Included vide G.O.Ms.No. 10 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
52. Poosala included vide G.O. Ms.No. 16 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
53. Aasadula / Asadula, included vide G.O. Ms. No. 13, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to East Godavari and West Godavari Districts only.
54. Keuta/Kevuto/Keviti, included vide G.O. Ms. No. 15, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to Srikakulam District only.

**Group-B (Vocational)**

1. Achukatlavandlu in the Districts of Visakhapatnam and Guntur confined to Hindus only as amended vide G.O. Ms. No. 8, BCW(C2) Dept., Dt. 29.03.2000
2. Aryakshatriya, Chittari, Giniyar, Chitrakara, Nakshas (Muchi Telugu Speaking deleted vide G.O. Ms. No. 31, BCW (M1) Dept., 11.06.1996)
3. Devanga
4. Goud (Ediga) Gouda (Gamella) Kalalee, Goundla, Settibalija of Vishakhapatnam, East Godavari, West Godavari and Krishna Districts and Srisayana (Segidi) – (amended vide G.O. Ms. No. 16, BCW (A1) Dept., dt. 19.06.1997
5. Dudekula, Laddaf, Pinjari or Noorbash
6. Gandla, Telikula, Devatilakula (Amended vide G.O. Ms. No. 13, BCW(A1) Dept., dt. 20.05.1997)
7. Jandra
8. Kummara or Kulala, Salivahana (Salivahana added vide G.O. Ms. No. 28, BCW(M1) Dept., 24.06.1995)
9. Karikalabhakthulu, Kaikolan or Kaikala (Sengundam or Sengunther)
10. Karnabhakthulu
11. Kuruba or Kuruma
12. Nagavaddilu
13. Neelakanthi
14. Patkar (Khatri)
15. Perika (Perikabalija, Puragirikshatriya)
16. Nessi or Kurni
17. Padmasali (Sali, Salivan, Pattusali, Senapathulu, Thogata Sali)
18. Srisayana ((**sagidi**))- deleted and added to Sl.No. 4 of Group-B)
19. Swakulasali
20. Thogata, Thogati or Thogataveerakshtriya
21. Viswabrahmin, Viswakarma (Ausula or Kamsali, Kammari, Kanchari Vadla or Vadra or Vadrangi and Silpis) (Viswakarma added vide G.O. Ms. No. 59 BCW(M1) Dept., Dt. 06.12.1995)
22. Kunchiti, Vakkaliga, Vakkaligara, Kunchitiga of Anantapur Dist. Only vide G.O. Ms.No. 10 BCW(C-2) Dept., Dt. 9-04-2008

23. Lodh, Lodhi, Lodha of Hyderabad, Rangareddy, Khammam and Adilabad Districts only. Included in Vide G.O.MS.No. 22 BC W (C2) Dept., Dt. 4/07/08
24. Bondili (included in vide G.O.Ms. No. 42, B.C.W(C2) Dept., Dt.07/08/2008)
25. Are Marathi, Maratha(Non-Brahmins), Arakalies and Surabhi Natakavallu. (included in vide G.O.Ms. No. 40, B.C.W(C2) Dept., Dt.07/08/2008)
26. Neeli (included in vide G.O.Ms. No. 43, B.C.W(C2) Dept., Dt.07/08/2008).
27. Budubunjala/Bhunjwa/Bhadbhunja, included vide G.O.Ms. No. 11, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to Hyderabad and Rangareddy District only.
28. Gudia/Gudiya, included vide G.O.Ms. No. 14, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to Srikakulam, Vizianagaram and Vishakhapatnam, district only.

**GROUP – C**

**Scheduled Castes converts to Christianity and their progeny (Substituted in G.O.Ms.No.159, G.A.(Ser.D) Dept., dt. 02/04/1981)**

**GROUP – D (Other Classes)**

1. Agar
2. Are-Katika, Katika, Are-Suryavamsi(Are-Suryavamsi added vide G.O. Ms. No. 39, B.C. W(C2) Dept., Dt. 7/08/08)
3. Atagara
4. Bhatraju
5. Chippolu (Mera)
6. Gavara
7. Godaba
8. Hatkar
9. Jakkala
10. Jingar
11. Kandra
12. Kosthi
13. Kachi
14. Surya Balija, (Kalavanthulu) Ganika (amended vide G.O.Ms. No. 20, BCW(P2) Dept., Dt. 19.07.1994)
15. Krishanabalija (Dasari, Bukka)
16. Koppulavelama
17. Mathura
18. Mali (Bare, Barai, Marar and Tamboli of all Districts of Telangana Region added as synonyms vide G.O. Ms. No. 3, BCW(C2) Dept., Dt. 09.01.2004 and G.O. Ms. No. 45, B.C.W(C2) Dept., Dt.07/08/2008)
19. Mudiraj / Mutrasi / Tenugollu.
20. Munnurukapu (Telangana)
21. Nagavamsam (Nagavamsa) vide G.O.Ms.No. 53, BC Welfare Dept., dated:19/09/1996
22. Nelli(deleted vide G.O.Ms. No. 43, B.C.W(C2) Dept., Dt.07/08/2008)
23. Polinativelmas of Srikakulam and Visakhapatnam districts
24. deleted vide G.O. Ms.No. 16 Backward Classes Welfare (C2) Dept., dt. 19/02/2009
25. Passi
26. Rangrez or Bhavasarakshtriya
27. Sadhuchetty
28. Satani (Chattadasrivaishnava)
29. Tammali (Non-Brahmins) (Shudra Caste) whose traditional occupation is playing musical instruments, vending of flowers and giving assistance in temple service but not Shivarchakars. Included vide G.O. Ms. No. 7, Backward Classes Welfare (C2) Dept., Dt. 19/02/2011).

30. Turupukapus or Gajula kapus {... the words "of Srikakulam, Vizianagaram and Vishakapatnam Districts" were deleted vide G.O.Ms.No. 62, Backward Classes Welfare (C2) Dept., dt. 20/12/2008 and G.O. Ms.No. 19 Backward Classes Welfare (C2) Dept., dt. 19/02/2009} who are subject to Social customs or divorce and remarriage among their women (G.O. Ms. No. 65, E&SW, dt. 18.02.1994)
31. Uppara or Sagara
32. Vanjara (Vanjari)
33. Yadava (Golla)
34. Are, Arevalli and Arollu of Telangana District (Included vide G.O.Ms.No. 11, Backward Classes Welfare (C-2) Department, dt. 13/5/2003 and G.O.Ms. No. 41, B.C.W(C2) Dept., Dt.07/08/2008)
35. Sadara, Sadaru of Anantapur Dist. Only vide G.O.Ms.No. 11 BCW (C-2) Dept., Dt. 9- 04-2008
36. Arava of Srikakulam District only. Included in vide G.O. MS. No. 24 BC W (C2) Dept., Dt. 4/07/08
37. Ayyaraka, of Srikakulam, Vizianagaram, Visakhapatnam, East Godavari, West Godavari, Krishna, Guntur, Khammam and Warangal Districts only. Included in vide G.O. MS. No. 25 BC W (C2) Dept., Dt. 4/07/08
38. Nagaralu of Srikakulam, Vizianagaram, Visakhapatnam, Krishna, Hyderabad and Rangareddy Districts only. Included in vide G.O. MS. No. 27 BC W (C2) Dept., Dt. 4/07/08
39. Aghamudian, Aghamudiar, Agamudivellalar and Agamudimudaliar including Thuluva Vellalas of Chittoor, Nellore, Kurnool, Anantapur, Hyderabad and Rangareddy Districts only. Included in vide G.O. MS. No. 20 BC W (C2) Dept., Dt. 4/07/08
40. Beri Vysya, Beri Chetty of Chittoor, Nellore and Krishna Districts only. Included in vide G.O. MS. No. 21 BC W (C2) Dept., Dt. 4/07/08
41. Atirasa included vide G.O. Ms.No. 5 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to East Godavari and West Godavari Districts only.
42. Sonidi / Sundi included vide G.O. Ms.No. 11 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
43. Varala included vide G.O. Ms.No. 12 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana region only.
44. Sistakaranam included vide G.O. Ms.No. 13 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
45. Lakkamari Kapu included vide G.O. Ms.No. 14 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana region only.
46. Veerashaiva Lingayat/Lingabaliya, included vide G.O. Ms.No. 22 Backward Classes Welfare (C2) Dept., dt. 28/02/2009.
47. Kurmi, included vide G.O.Ms. No. 12, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to Telangana Region and also Krishna District only.
48. Kalinga Komati / Kalinga Vysya vide G.O. Ms. No.10 Backward classes Welfare(c) Department Dated.24.9.2014. The area of operation shall be confined to Srikakulam, Vizianagaram and Visakhapatnam districts only.

#### **GROUP – E**

##### **(Socially and Educationally Backward Classes of Muslims)**

1. Achchukattalavandlu, Singali, Singamvalli, Achchupanivalli, Achchukattuvaru, Achukatlavandlu.
2. Attar Saibuli, Attarollu
3. Dhobi Muslim/ Muslim Dhobi/ Dhobi Musalman, Turka Chakla or Turka Sakala, Turaka Chakali, Tulukka Vannan, Tskalas or Chakalas, Muslim Rajakas.
4. Faqir, Fhakhir Budbudki, Ghanti, Fhakhir, Ghanta Fhakhiru, Turaka Budbudki, Derves, Fakeer
5. Garadi Muslim, Garadi Saibulu, Pamulavalli, Kani-Kattuvalu, Garadollu, Garadiga.
6. Gosangi Muslim, Phakeer Sayebulu
7. Guddi Eluguvalli, Elugu Bantuvalli, Musalman Keelu Gurrallavalli

8. Hajam, Nai, Nai Muslim, Navid
9. Labbi, Labbai, Labbon, Labba
10. Pakeerla, Borewale, Deraphakirlu, Bonthala
11. Kureshi/ Khureshi, Khasab, Marati Khasab, Muslim Katika, Khatik Muslim
12. Shaik/ Sheikh
13. Siddi, Yaba, Habshi, Jasi
14. Turaka Kasha, Kakkukotte Zinka Saibulu, chakkitakanevale,  
Terugadu Gontalavaru, Thirugatiganta, Rollaku Kakku Kottevaru,  
Pattar Phodulu,  
Chakketakare, Thuraka Kasha
15. Other Muslim groups excluding Syed, Saiyed, Sayyad, Mushaik;  
Mughal, Moghal; Pathans; Irani; Arab; Bohara, Bohra; Shia Imami  
Ismaili, Khoja; Cutchi-Memon; Jamayat; Navayat;  
and all the synonyms and sub-groups of the excluded groups;  
and except those who have been already included in the State  
List of Backward Classes.

N.B.:1. The above list is for information and subject to confirmation with reference to G.O. Ms. No. 58, SW(J) Department, dated 12/05/1997 and time to time orders.

2. On account of any reason whatsoever in case of any doubt/ dispute arising in the matter of community status (SC/ST/BC/OC) of any candidate, subject to satisfaction with regard to relevant rules and regulations in force the decision of the Commission shall be final in all such cases.

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