Proposed Rules for recruitment to the posts of Forest Ranger in West Bengal subordinate Forest Service (under the Directorate of Forest) Govt. of West Bengal.

The method of and the qualification required for, recruitment to the posts of Forest Ranger in the West Bengal subordinate Forest Service (under the Directorate of Forest) Govt. of West Bengal, shall be as detailed below:

1. **Name of the post** :
   Forest Rangers in the West Bengal Subordinate Forest Service

2. **Method of Recruitment** :
   (a) By selection (direct recruitment) to 2/3rd of the total sanctioned posts on the results of a competitive examination through the Public Service Commission, West Bengal. Departmental candidates (Deputy Rangers/Foresters) being eligible to apply if they possess the qualification for direct recruitment;
   (b) By promotion to 1/3rd (thirty three percent) of the total sanctioned posts from amongst the confirmed Deputy Rangers/Forests having at least eight years continuous service in the post.

3. **Qualifications for direct recruitment** :
   (a) The Candidate shall be a Citizen of India as defined in Part-II of the Constitution of India;
   (b) The Candidate shall hold a Bachelor degree in Science or Engineering of any recognized Indian University of Institute with at least one of the following subject— Agriculture, Botany, Chemistry, Computer Science, Computer Application, Engineering (Agriculture, Chemical, Civil, Computer, Electrical, Electronics, Mechanical), Environmental Science, Forestry, Geology, Horticulture, Mathematics, Physics, Statistics, Veterinary Science, Zoology.
   (c) Age : The candidate shall not be below 21 years and shall not be more than 27 years on the 1st day of January of the year of advertisement. The upper age limit is relaxable for the candidates belonging to the categories of Schedule Caste, Schedule Tribe and other Backward Classes as per the Government order or rules or notifications issued from time to time in this behalf.
   
   **Note** : For the Departmental candidate eligible to apply relaxation of age may be granted to them as per the Government Order.
   
   (d) **Physical Standard** : A candidate must have the following Minimum Standard of Physical Fitness.

   **(i) Minimum Height and Chest Girth** :

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<tr>
<th>Height (cm)</th>
<th>Chest Girth (cm)</th>
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<tbody>
<tr>
<td></td>
<td>Normal</td>
</tr>
<tr>
<td>Male Candidate</td>
<td>163</td>
</tr>
<tr>
<td>Female Candidate</td>
<td>150</td>
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   **Note** : The following minimum standard of height may be allowed to the candidate belonging to the categories of Schedule Tribe and races as Nepali, Garwali, Gorkha.

<table>
<thead>
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<th>Height (cm)</th>
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<tr>
<td>Male Candidate</td>
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(ii) Male candidate will be required to pass a physical fitness test covering a distance of 25 kilometres, in four hours on foot and the female candidate will be required to cover a distance of 14 kilometres within four hours on foot.

(iii) Health Certificate:

In case of direct recruitment the candidate shall have to undergo medical examination to be conducted by a Medical Board. The Medical Board shall issue health certificate and also certify that the candidate is fit for undertaking strenuous outdoor activity of the Forest Department.

4. The West Bengal Subordinate Forest Service Recruitment Examination will be held in two successive stages —

(a) Preliminary Examination (objective type)— for selection of candidate for the main Examination;

(b) Main Examination— the Main Examination will be held in two successive sub-stages, viz.

(a) Written Examination (conventional type) and (b) Personality Test. A selected number of candidates in order of merit on the results of the written examination will be called to the Personality Test.

A. Scheme and Syllabus for the Preliminary Examination:

The Preliminary Examination will consist of only one paper on “General Studies and Arithmetic”. The question paper will be of an objective type consisting of 200 multiple choice questions. The paper will carry 200 marks and will be of 2½ hour duration. The standard of the paper will be of the level of knowledge as expected of a graduate of a recognized Indian University or Institute. The paper will include questions covering the following field of knowledge:

(i) English composition — 20 marks

(ii) General Science — 25 marks

(iii) Current Events of National and International Importance — 25 marks

(iv) History of India — 25 marks

(v) World of Geography — 25 marks

(vi) Indian Polity and Economy — 20 marks

(vii) Indian National Movement — 20 marks

(viii) General Mental Ability — 20 marks

(ix) Arithmetic — 20 marks

The Preliminary examination is meant to serve as a Screening Test only for the purpose of selection of candidates for the Main Examination. The marks obtained in this examination by the candidates will not be considered for final selection. Only those candidates who will be declared qualified at the Preliminary Examination in a year will be eligible for admission to the West Bengal Subordinate Forest Service (Main) Examination of that year.

The commission shall have the discretion to fix the qualifying marks in the examination.

B. Scheme of Main Examination:

Written Examination:

The written examination shall be held in two groups:

(a) Compulsory Subjects and (b) Optional Subject

(a) Compulsory Subject:
There shall be three compulsory subjects as stated below:

(i) English (Essay, Precis writing and Composition);
(ii) Bengali or Hindi or Urdu or Nepali (Essay, Précis writing and Composition);
(iii) General Studies

(b) **Optional Subjects**

Candidates for the aforesaid examination shall take up any one subject from the following list of subjects:

(i) Agriculture; (ii) Botany; (iii) Chemistry; (iv) Computer Application, Computer Science; (v) Engineering (Agriculture, Chemical, Civil, Computer, Electrical, Electronics, Mechanical); (vi) Forestry; (vii) Geology; (viii) Horticulture; (ix) Mathematics; (x) Physics; (xi) Statistics (xii) Veterinary Science; (xiii) Zoology and (xiv) Environmental Science.

(c) **Syllabus for the examination in above subjects shall be as follows:**

Agriculture:

Agriculture Botany (Plant Cytology, Genetics, Breeding and Physiology, Morphology of Crop Plants), Agriculture Entomology and Plant Pathology, Agriculture Chemistry, Soil Science.

Botany:

Physiology, Plant Geology and Dispersal of Plants, Morphology, Anatomy, Embryology and Taxonomy of Angiosperms, Plant Pathology, Evolution, Cytology, Genetics and Plant Breeding, Economics Botany, Origin and importance of cultivated plants;

Chemistry:

Physical and organic (including photo chemistry), Inorganic and Industrial.

Computer Science / Computer Application:

Digital computer fundamental, discrete mathematics, Numerical method, Resource Management Techniques, Operating System, Data and File Structure. C programming object oriented programming, relation data base management system, MC and Assembly language programming, system software, design and analysis of algorithms, computer system architecture, PC maintenance and trouble shooting, software engineering computer networks, computer graphics, visual programming, Internet and Java Programming.

Agriculture Engineering:

Soil and Water Conservation, Investigation and Planning in river Valley Projects, irrigation and Drainage, Building materials, Farm Power and Machinery, Electricity and Rural Electrification, Power Generation and Transmission;

Chemical Engineering:

Transport phenomena (under steady state condition), Thermodynamics, Reaction engineering, Transportation, Materials, Instrumentation and process control.

Civil Engineering:

Building material and properties and strength of materials, Structural Engineering, Building construction, water supply and sanitary engineering, Road and Bridges.
Computer Engineering:
Number system, Data representation, Programming, Elements of a high level programming language PASCAL/C, use of data structure, Fundamentals of computer architecture, Processor design, control unit design, Memory organization, System organization, Microprocessors, Architecture and instruction set of Microprocessors, Assembly language programming, microprocessors based system design, Personal Computer and their typical use;

Electronics Engineering:
Physical Electronics, Electronics circuits, Operational Amplifiers and Analog Computers, Control system, Digital Electronics, Instrumentation and Measurement, Principles of Communication, Electromagnetic Fields and Antennas, Microprocessor Fundamentals;

Electrical Engineering:
Network Statics, Magnetics, Measurement, Electronics, Electrical Machines Control System, Industrial Electronics, Electrical Machines (Heavy Current), Synchronous Machines Special Machines, Power System and Protection, Utilisations, Economic and other aspects of different systems or rail, traction, communication system (light current), Microwaves, D.C. Amplifiers.

Mechanical Engineering:
Strength of materials, Applied thermodynamics, Theory of machine and machine designs Production Engineering Fluid mechanics and water power;

Forestry:

Geology:
General Geology, Structural Geology and Geotectonic, Stratigraphy, Palaeontology, Crystallography and Mineralogy, Petrology Economic Geology;

Horticulture:
Principals of fruit and vegetable production, Principles of Horticulture, Post harvest technology of Horticulture crop, plant propagation and Nursery Management, Regulation of growth and bearing in fruit crop, Production technology of tropical, sub-tropical and temperate fruit crop, Production technology of vegetable, tuber, plantation, spice, ornamentals, medicinal, aromatic and indoor plants, Breeding of vegetable crops, Gardens design, Nursery layout and management, Elementary Statistics, Experimental design and computer application.
Mathematics:

Physics:

Statistics:

Veterinary Science:
Gross anatomy I, II and III. Veterinary Physiology I, II, III and IV, General Veterinary Biochemistry, Biostatistics and Computer application, General Livestock Management, Fodder production and grassland management, Sociology and principles of veterinary and A.H. Extension Physiological Chemistry, Introduction to Molecular Biology and Biotechnology, Principles of Genetics and Population Genetics, Animal Housing Sanitation, Livestock Economics, Marketing and Business Management, Histology and Embryology, Principles of Animal Nutrition and Breeding (includes avian), evaluation of feed staff and feed technology, General veterinary parasitology, microbiology and pathology, Applied anatomy, Applied nutrition I and II, Veterinary helminthology, Bacteriology, Protozoology, Epidemiology and Mycology, Immunology and Serology, Systemic pathology, Livestock breeding system, General and CNS pharmacology, entomology and aracology, special pathology I and II, milk and hygiene and public health, swine or equine or camel or yak production and management, wild and zoo animal healthcare and management, fish production, Lab animal or rabbit or fur animal care and management and pet animal care, Autonomic and systemic pharmacology, veterinary and systemic virology, special pathology I, II, Cattle or Buffalo or sheep or goat and avian production and management, Milk and Meat and their product technology, abattoir practice and animal by-product technology, clinical bio-chemistry, chemotherapy, zoonosis and human health, environmental hygiene, general surgery and anaesthesia, extension techniques, toxicology, gynaecology and obstetrics, regional and clinical surgery, clinical and preventive veterinary
medicines, andrology and artificial insemination, lab diagnosis and ambulatory clinics.

**Zoology:**


**Environmental Science:**


(The Standard of Syllabus of these subjects shall be that of Bachelor’s degree in Science or Engineering of a recognized Indian University or Institute).

**Note-I:**

The compulsory subject will carry 100 marks and the examination will be of 3 hours duration. The optional subject will have two papers carrying 100 marks each and examination will be of 3 hours duration for each paper.

(d) Personality Test:

There shall be a Personality Test Carrying 100 marks.

A number of candidates to be selected in order of merit on the results of the Main Examination (Written) for the service will have to appear for the Personality Test.

Each candidate will be asked questions on matters of general interest. The purpose of the test will be to assess the personal qualities of the candidate, e.g. alertness of mind, power of clear and logical exposition, intellectual and moral integrity, leadership and also the range of interest of the candidate.

The Commission shall have the discretion to fix qualifying marks in any paper or all papers and in the aggregate.

5. In-service Training:

(a) Candidates provisionally selected through direct recruitment shall be sent to Forest Rangers’ college at any place in India for in-service training except candidates securing 1st position for Deputy Ranger/Forester at the final examination of State FTC followed by practical training in the State.

(b) Nomination for in-service Training:

Name of the candidates selected for admission together with attested copies of all certificates prescribed hereunder shall be submitted to the Director, Forest Education Government of India by the Forest Department of the State Government.

(c) Certificates:

The following certificates or Mark sheet as the case may be in original must be submitted by the candidate for verification to the Principal at the time of admission:

(i) Proof of age;

(ii) Bachelor’s Degree;
(iii) Certificate of physical test issued by the Competent Authority;
(iv) Certificate of health issued by Medical Board;
(v) Appointment and Nomination letter issued by the sponsoring authority.
(d) The cost on account of tuition fees, travelling expenses and equipment allowances sanctioned by the Government of India from time to time as per rules for the Forest Rangers course in connection with the training, shall be borne by the State Government.

6. Special Condition:
(a) Selected candidates shall, before being deputed for training, execute a bond undertaking to serve the Government of West Bengal for a period of five years. In the event of non-fulfilment of such condition, be required to refund to the State Government all costs incurred by the State Government in connection with the training including salaries.
(b) All selected candidates shall undergo compulsory training which will be conducted for the service as applicable prior to confirmation in the service.
(b) Procedure of recruitment by promotion:
The recruitment to vacancies by promotion shall be made from amongst the persons adjudged suitable by the Departmental Promotion Committee constituted by the State Government.

7. There will be a combined examination for the recruitment for the posts of West Bengal Forest Service and for the posts of Forest Ranger to be conducted by the West Bengal Public Service Commission.

By order of the Governor