



# INDIAN ARMY

## PERMANENT COMMISSION

### 10+2 TECHNICAL ENTRY SCHEME

#### COURSE - 31 COMMENCING FROM JUL 2014



1. Applications are invited from unmarried Male Candidates who have passed 10+2 examination with Physics, Chemistry and Mathematics (Hereinafter referred to as PCM) subjects and fulfill the eligibility conditions prescribed in the subsequent paragraphs, for the grant of Permanent Commission in the Army after 4 years of Basic Military Training and Technical Training thereafter with the terms and conditions given in the succeeding paragraphs.

#### 2. ELIGIBILITY:

(a) **Nationality:** A candidate must either be : (i) A citizen of India, or (ii) A subject of Bhutan, or (iii) A subject of Nepal, or (iv) a Tibetan refugee who came over to India before the 1st of January 1962 with the intention of permanently settling in India or (v) a person of Indian origin who has migrated from Pakistan, Burma, Sri Lanka and East African countries of Kenya, Uganda, the United Republic of Tanzania, Zambia, Malawi, Zaire and Ethiopia and Vietnam with the intention of permanently settling in India. Provided that a candidate belonging to categories (ii), (iii), (iv) and (v) above shall be a person in whose favour a certificate of eligibility is necessary may be admitted to the examination provisionally subject to the necessary certificate being given to him by the Govt before declaration of result by SSB/joining training.

(b) **Age Limit:** A candidate must not be below 16½ years and above 19½ years on the first day of the month in which the course is commencing i.e. the candidate should not be born before 01 Jan 1995 and not after 01 Jan 1998 (both days inclusive). The date of birth accepted by the office is that entered in the Matriculation or Secondary School Leaving certificate or in the certificate recognised by an Indian University as equivalent to Matriculation or in an extract from a Register of Matriculates maintained by a University which extract must be certified by the proper authority of the University or in the Higher Secondary or an equivalent examination certificate. No other document relating to age will be accepted. The expression Matriculation/ Higher Secondary Examination Certificate in this part of the instruction includes the alternative certificate mentioned above.

**NOTE 1:** Candidate should note only the date of birth as recorded in the Matriculation/ Higher Secondary Examination Certificate or an equivalent certificate on the date of submission of applications will be accepted and no subsequent request for its change will be considered or granted.

**NOTE 2:** Candidates should also note that once a date of birth has been claimed by them and entered in the records, no change will be allowed subsequently or a subsequent examination on any ground whatsoever.

**NOTE 3:** Candidates must undertake not to marry until they complete their full training. A candidate who marries subsequent to the date of his application, though successful, will not be selected for training. A candidate who marries during training shall be discharged and will be liable to refund all expenditure incurred on him by the government.

(c) **Educational Qualification:** Only those candidates who have passed 10+2 Examination or its equivalent with a minimum aggregate of 70% marks in Physics, Chemistry and Mathematics from a recognized education boards are eligible to apply for this entry. Eligibility conditions for calculating % of PCM will be followed as per the present guidelines/ instructions in vogue of various state/central Boards.

#### 3. VACANCIES: 85

Vacancies are provisional and can be changed depending on the training capacity at the training Academy for this course. The vacancies are subject to increase/decrease keeping the organizational requirement at the point of time.

4. **TYPE OF COMMISSION:** On successful completion of 4 years of the course cadets will be granted Permanent Commission in the Army in the rank of Lt.

5. **Grant of Commission:** On successful completion of total 04 years training, the candidates will be commissioned in the rank of Lt. They will be granted seniority on overall order of merit of the three technical institutes combined i.e. CME, MCTE, MCEME and in case the date of commissioning coincides with that of IMA, Dehradun, they will be placed en-block junior to IMA (NDA / ACC / DE Course ) but above TGC / UES course.

#### TRAINING

6. Total training will be 5 years, Details as under:

(a) **Basic Military Training :** 1 year (Officer Training Academy Gaya). (b) Technical Training: (i)Phase-I (Pre Commission Training): 3 Years (CME Pune, MCTE Mhow and MCEME Secunderabad), (ii) Phase-II (Post Commission Training): 1 year at CME Pune, MCTE Mhow and MCEME Secunderabad. (c) Award of Degree: The candidates will be awarded Engineering degree after successful completion of training as given out in para 6 (a) and (b) above. No ante date seniority will be admissible to candidates on account of this Engineering degree. In case they fail to qualify in the following year examination, the same will result in loss of seniority to them and they will forfeit seniority to the extent of delay in passing Engineering degree examination. If they fail to qualify even within three years of their commissioning, their commission will be terminated.

#### COST OF TRAINING

7. The entire cost of training including books and reading material is borne by the Army. Cadets are also provided with free accommodation and messing. In case the GC is withdrawn from training academy due to reasons other than Medical ground or the reasons not beyond his control, he will be liable to refund cost of training @ Rs. 8135/- per week for the period of his stay at the Officer Training Academy, Gaya/Cadet Training Wing.

#### 8. The selection procedure is as follows:

(a) Short listed candidates will be called for Services Selection Board (SSB) interview at Bhopal, Bangalore or Allahabad. Interviews will be held in Feb/Mar 2014 onwards. (b) Duration of SSB interviews is five days excluding day of arrival. During their stay at SSB, Candidates are put through psychological Test, Group test and Interviews. (c) Candidates will be put through stage - I of the selection procedure on the first day. Only successful candidates shall be retained for balance of the testing. Candidates who fail to qualify in stage - I, will be returned on the first day itself. Stage I are psychologically originated test including intelligence test. (d) Successful candidates at the SSB will be required to undergo medical test lasting 3 to 5 days less Sundays and gazetted holidays. (e) Candidates recommended by the SSB and declared medically fit, will be appointed for training in the order of merit, depending on the number of vacancies available. (f) The finally selected candidates will execute all the Bonds/Certificates as prescribed for the Cadets of NDA entry under AI 53/78.(g) Candidates appearing for SSB interview for the first time for a particular type of commission shall be entitled for AC III tier and to rail/fare or bus fare including reservation cum sleeper charges within the Indian limits. Candidates who apply again for the same type of commission will not be entitled to travelling allowance on any subsequent occasion

#### STIPEND/PAY AND ALLOWANCES

9. The candidates will be given a stipend of Rs. 21,000/- p.m. (Rs 15,600/- as pay in Pay Band plus Grade Pay of Rs. 5,400/-) as is admissible to NDA cadets on completion of 3 years training. On completion of 4 Years training they will be commissioned in the rank of Lt and entitled to pay as admissible to the rank.

(a) The Pay Bands, Grade Pay and Military service Pay are as under:-

RANK	PAY BANDS/SCALE	GRADE PAY	MSP
LIEUTENANT	PB-3/15,600-39,100	5,400	6,000
CAPTAIN	PB-3/15,600-39,100	6,100	6,000
MAJOR	PB-3/15,600-39,100	6,600	6,000
LT COLONEL	PB-4/37,400-67,000	8,000	6,000
COLONEL	PB-4/37,400-67,000	8,700	6,000
BRIGADIER	PB-4/37,400-67,000	8,900	6,000
MAJOR GENERAL	PB-4/37,400-67,000	10,000	NIL
LT GENERAL / HAG SCALE	67,000 - (annual increment @ 3%) - 79,000	NIL	NIL
HAG + Scale * *Admissible to 1/3rd of total strength of Lt Gens	75,500 - (annual increment @ 3%) - 80,000	NIL	NIL
VCOAS / Army Cdr / Lt Gen (NFSG)	80,000 (fixed)	NIL	NIL
COAS	90,000 (fixed)	NIL	NIL

#### (b) Qualification Grant

Officers possessing certain prescribed qualification are entitled to Lumpsum Qualification Grant of 7,500/-, 11,250/-, 18,750/- or 25,000/- based on the qualification held by the them.

(c) The Army Aviators (Pilots) serving in Army Aviation Corps are entitled to the Qualification Pay, based on the Qualification held by them, as under: -

- Master Aviation Instructor - Rs. 500/- p.m.
- Senior Aviation Instructor Class I - Rs. 400/- p.m.
- Senior Aviation Instructor Class II - Rs. 280/- p.m.
- Aviators holding Master Green-Card - Rs. 400/- p.m.
- Aviators holding Green Card - Rs. 280/- p.m.

(d) The Army Aviators (Pilots) serving in the Army Aviation Corps are entitled to flying allowance as under:-

- Brig & above Rs 10,500/- (ii) Maj to Col Rs 14,000/- (iii) Capt Rs 11,000/- (iv) Lt Rs 9,000/-

(e) **Allowances as applicable** -The rates of allowances applicable to officers are as under:-

Allowances	To Whom Applicable	Rates
<b>Hard Area Allowance</b>	Officers Posted to Hard Area	6750PM (25% of Basic pay)
<b>High Attitude/ Uncongenial Climate Siachen</b>	Officers Posted in High Attitude/ Uncongenial Climate Officers Posted in Siachen	11200/- 14000PM
<b>Highly active Field Area Allowance</b>	Officer Posted at Highly Active Field Area	6780PM
<b>Modified Field Area Allowance</b>	Officer Posted at Modified Field Area	4200PM 1600PM
<b>Flying Pay</b>	Officers Posted as Army Aviators	9000PM
<b>Parachute Pay</b>	Officers Posted in Active Parachute BNs/Regt	1200PM
<b>Special Forces Allowance</b>	Officers posted in Special Forces	9000PM
<b>Transport Allowance</b>	Officers Posted in Peace Stations	Rs3200/-+DA PM in A1/A cities and Rs 1600+DA PM at other places
<b>House Rent Allowance</b>	To officers not provided Govt.Accommodation	10-30% of Basic Pay (Pay Band + Grade Pay + MSP)
<b>Kit Maint Allowance</b>	All officers	400PM
<b>Uniform Allowance (Outfit Allowance)</b>	All officers	Initial 14000/- and 3000 every Three Years
<b>Instructional Allowance</b>	All Officers Posted as Instructors	1800/-

In case of allowance specific to Defence Forces, the rates of these allowances have been further enhanced by 25% a Dearness Allowance has gone up by 50%.

(f) **Cost to company(CTC).** The CTC for a Lieutenant would be approximately Rs. 65000/- per month. This includes Basic Pay, DA, Grade Pay, Military Service Pay, Tech Pay, House Rent Allowance and Transport allowance. These rates are not statutory and are subject to change.

(g) **Privileges.** In addition to the CTC mentioned above, Army provides free medical facilities for Self & dependents, Canteen facilities, Entitled Ration, Mess/ Club/Sports Facilities Furnished Govt Accommodation, Car/Housing Loan at subsidised rate.

#### (h) PROMOTION

##### (i) Substantive Promotion

The following are the service limit for the grant of the substantive promotion to higher ranks:

By time scale :	
Lt. (on Completion of training)	
Capt.	2 years of reckonable commissioned service
Major	6 years of reckonable commissioned service
Lt. Col.	13 years of reckonable commissioned service
Col (TS)	26 years of reckonable commissioned service
By Selection :	
Col.	15 years of reckonable commissioned service
Brigadier	23 years of reckonable commissioned service
Major Gen	25 years of reckonable commissioned service
Lt. Gen.	28 years of reckonable commissioned service
General	No restriction

##### (ii) Acting promotion

Officers are eligible for acting promotion to higher ranks on completion of the following minimum Service limits subject to availability of vacancies.

Captain	1 year
Major	4 years
Lt. Colonel	7 years
Colonel	8½ years
Brigadier	12 years
Major General	20 years
Lt. Gen	25 years

(j) **RETIREMENT BENEFITS:-** Pension Gratuity and casual pensionary award will be admissible in accordance with the rules in force from time to time.

(k) Officers may be granted commission in any arms/services and will be liable for service in any part of the world on selected appointments as decided by Army headquarters from time to time.

(l) **LEAVE:** Leave will be admissible in accordance with the rules in force from time to time.

10. On commission, officers are entitled to 60 days annual leave and 20 days casual leave LTC, and other concessions.

11. On being commissioned, all officers will be guided by the terms and conditions as given out by the Army Group Insurance Scheme and as amended from time to time.

(a) Army Group Insurance Fund Provides Insurance cover of Rs. 15 Lac on payment of one time non-refundable premium of Rs. 8200/- by cadets from the date of joining for pre-commission training i.e. for 3 years. If a cadets is relegated an additional premium of Rs. 1,444/- per relegated term will be paid. Those who are medically boarded out on account of disability, the disability cover provided for 100% disability will be Rs. 7.5 Lac reduced up to Rs. 1.5 Lac for 20 per cent disability. However, disability for less than 20 percent, an ex-gratia of Rs. 50,000/- will be paid and Rs. 1 lac ex-gratia will be paid to cadets invalid out during their last year of trg wef 01 Jan 2011. There is no saving component under this scheme. Disability due to alcoholism, drug addiction and due to the diseases of pre-enrolment origin will not qualify for disability benefit and ex-gratia Grant.

(b) The Gentlemen Cadets when in receipt of stipend of Rs. 21,000/- per month are insured for Rs. 50 lac wef 01 Sep 2013. For those who are medically boarded out of Academy on account of disability, the disability cover provided for 100% disability will be Rs. 25 Lac which is proportionately reduced up to Rs. 5 Lac for 20% disability. However, for disability less than 20 percent an ex-gratia grant of Rs. 50,000/- for first two years of training and Rs 1 lac during the 3rd year will be paid. Disability due to alcoholism, drug addiction and due to the diseases of pre-enrolment origin will not qualify for disability benefit and ex-gratia grant. Subscription at the rate of Rs. 5000/- will have to be paid in advance on monthly basis by the Gentlemen Cadets to become member under the main AGI Scheme as applicable to Regular Army Officers. The subscription for the relegated period would also be recovered at the same rate.

#### 12. GUIDELINES FOR PHYSICAL STANDARDS FOR ADMISSION TO THE 10+2 (TES) ENTRY PERMANENT COMMISSION.

**Note:** Candidates must be physically fit according to the prescribed physical standards. The guidelines for the same are given below.

A number of qualified candidates are rejected subsequently on medical grounds. Candidates are, therefore, advised in their own interest to get themselves medically examined before submitting their applications to avoid disappointment at the final stage. Candidates are also advised to rectify minor defects/ailments in order to speed up finalisation of medical examination conducted at the Military Hospital after being recommended at the SSB. The undermentioned ailments are considered, common minor ailments:- (a) Wax (Ears), (b) DNS, (c) Hydrocele/ phimosi, (d) Overweight/Underweight, (e) Piles, (f) Gynecomastia, (g) Tonsillitis, (h) Varicocele. Civilian candidates appearing for all types of commission in the Armed Forces will be entitled to outpatients treatment from services sources at public expense for injuries sustained or disease contracted during the course of their examination by the selection Board. They will also be entitled to in-patient treatment at public expense in the Officers ward of a hospital provided, (a) the injury is sustained during the test or; (b) the disease is contracted during the course of the examination by selection board and there is no suitable hospital; or (c) the medical board requires the candidates admission for observation.

#### **NOTE: They are not entitled to special nursing.**

A candidate recommended by the Services Selection Board will undergo a medical examination by a Board of Service Medical officers. Only those candidates will be admitted to the academy who are declared fit by the Medical board. The proceeding of the Medical Board are confidential and will not be divulged to anyone. However, the candidates declared unfit will be intimated by the president of the Medical Boards and the procedure for request for an Appeal Medical Board will also be intimated to the candidate. Candidates declared unfit during Appeal Med. Board will be intimated about the provision of Review Med. Board. (a) The candidates must be in good physical and mental health and free from any disease/disability which is likely to interfere with the efficient performance of duties. (b) There should be no evidence of weak constitution, bodily defects or under weight. (c) The minimum acceptable height is 157.5 cms. For Gorkhas and individuals belonging to hills of North Eastern regions of India, Garhwal and kumaon, the minimum acceptable height will be 5cms. less. In case of candidates from Lakhadweep the minimum acceptable height can be reduced by 2 cms. Height and weight standards are given below:-

#### HEIGHT/WEIGHT STANDARDS 10+2 (TES) TABLE 1

Height In centimeters (without shoes)	Weight in kgs.			
	16-17 Years	17-18 years	18-19 years	19-20 years
152	43	44	45	46
155	44	45	47	48
157	45	47	48	49
160	46	48	49	50
162	48	50	51	52
165	50	52	53	54
167	51	53	54	55
170	52.5	55	56	57
173	54.5	57	58	59
175	56	59	60	61
178	58	61	62	63
180	60	63	64.5	67

A 10% departure from the average weight given in the Table 1 above is to considered within normal limits. However, in individuals with heavy bones and broad built and as well as individuals with thin built otherwise healthy, this may be relaxed to some extent on merit.

**NOTE:** Height relaxation upto 2.5 cm. may be allowed where the Medical Board certifies that the candidate is likely to grow and come up to the required standard on completion of his training.

On account of lower age of candidate, a margin of upto 5.00 cm. in height, 2.5 cm. in leg length (minimum) and 1.0 cm sitting height (minimum) may be given provided it is certified by the Medical Board that the candidate is likely to grow and come up to the required standard on completion of his training. (d) Chest should be well developed. The minimum range of expansion after full inspiration should be 5 cms. The measurement will be taken with a tape so adjusted that its lower edge should touch the nipple in front and the upper part of the tape should touch the lower angle of the shoulder blades behind. X-ray of the chest is compulsory and will be taken to rule out any disease of the chest. (e) There should be no disease of bones and joints of the body. X-ray of Spine of candidates will not be carried out as a routine. It will, however, be done on the advice of Surgical Specialist wherever, clinically indicated. Minor congenital defects which are not likely to interfere in the performance of military duties may be acceptable on merit though congenital defects are considered as a cause for rejection.

**Spinal conditions :** (f) Thorough Clinical examination of the spine including its shape, local tenderness if any, spinal movements etc. is to be carried out. (g) Mild kyphosis or Lordosis where deformity is barely noticeable and there is no pain or restriction of movement will not preclude acceptance. (h) In case of noticeable Scoliosis or suspicion of any other abnormality of spinal deformity, more than mild, appropriate X-ray of the spine are to be taken and the Examinee referred for specialists advice (j) A candidate should have no past history of mental breakdown or fits (k) The hearing should be normal. A candidate should be able to hear a forced whisper with each ear at a distance of 610 cms in a quiet room. (l) There should be no signs of functional or organic disease of the heart and blood vessels, Blood pressure should be normal. (m) The muscles of abdomen should be well developed and there should be no enlargement of liver or spleen. (n) Un-operated hernia will make a candidate unfit. If operated this should have been done at least a year prior to the present examination and the healing is complete. (o) There should be no hydrocele, varicocele or piles. (p) Urine examination will be done and any abnormality if detected will be a cause for rejection. (q) Any disease of skin which is likely to cause disabilities or disfigurement will also be a cause of rejection. (r) A candidates should be able to read 6/6 in a distant vision chart with each eye, with or without glasses. Myopia should not be more than 2.5 D and hypermetropia not more than 3.5 D including Astigmatism. Internal examination of the eye will be done by means of ophthalmoscope to rule out any disease of the eye. A Candidate must have good binocular vision, the colour vision standard will be CP III for Army. A candidate should be able to recognise red and green colours. Candidates will be required to give certificates that neither he nor any member of his family has suffered from congenital night blindness. Candidates who have undergone or have the evidence of having undergone Radial Keratotomy, to improve the visual acuity, will be permanently rejected. (s) The candidates should have sufficient number of natural and sound teeth. A minimum of 14 dental points will be acceptable. When 32 teeth are present, the total dental points are 22. A candidate should not be suffering from severe pyorrhoea. (t) "Physical conditioning". Prospective candidates are advised to keep themselves in good physical condition, by following the undermentioned regimen daily:- (i) Jogging 3 to 5 Kms interspersed with short sprints (ii) Skipping (iii) Pushups and sit ups (minimum 20 each). (iv) Chin ups (Minimum 08). (v) It would be of immense benefit the candidates could learn the basic of swimming. However, non swimmers will be taught swimming at the training academy.

13. Permanent body tattoos are only permitted on inner face of forearm i.e. from inside of elbow to the wrist and on the reverse side of palm / back (dorsal) side of hand / Permanent body tattoos on any other part of the body are not acceptable and candidates will be barred from further selection. Tattoos with tattoo marks on the face or body as per their existing custom and traditions will be permitted on a case to case basis.

14. **HOW TO APPLY:** Application will only be accepted on line. To do so the candidates needs to click on the "online application" button on website www.joinindianarmy.nic.in

(i) Candidates must enter their particulars in the online application. Terms and conditions linked to the form must be read, prior to submitting the form

(ii) After submitting the form an acknowledgement with a Roll number will be provided to the candidate. If the system does not generate Roll Number, it is an indication of non acceptance of application by the system.

(iii) After submitting online application, candidates are required to obtain two copies of the application printout and the Roll Number generated by the system. One copy of the print out application duly signed and affixed photograph attested by a gazetted officer of Central/State Govt, photocopies of Class 10th Certificate/Mark sheet showing date of birth and 12th Class Certificate alongwith mark sheets duly attested by Gazetted officer and all the above certificates in original are to be carried to the Selection Centre by the candidate for the SSB interview. Any candidate who does not carry all these document for the SSB interview, his candidature will be cancelled. The second copy of the printout of online application is to retained by the candidate for his reference. No need to send any hard copy to DG Rtg / Rtg Dte.

(iv) Candidates must submit only one application. Receipt of multiple applications from the same candidate will result in cancellation of candidature

(v) **ONLINE APPLICATION WILL OPEN ON 22 OCT 2013 AT 1000 HRS AND WILL BE CLOSED ON 29 NOV 2013 AT 1000 HRS**

15. **Note:** (a) Any change in your postal address after submission of application must be communicated by post duly quoting your Roll No, name and course opted for.

(b) All original certificates along with two attested copies each Will be carried by the candidate for SSB interview. Originals will be returned after verification at the Service Selection Board itself.

#### 16. IMPORTANT INSTRUCTIONS

(a) The candidate needs to apply 'on line' on Indian Army Website www.joinindianarmy.nic.in

The application will be screened at Recruiting Directorate, Integrated Headquarters, Ministry of Defence (Army) and the candidate thereafter will be detailed for SSB.

(b) For SSB interview, print out of online application must be accompanied by attested (By a Gazetted Officer of the Central/State Govt/1st Class Magistrate etc.) photocopies of 10th class certificate issued by the Board concerned (CBSE/ State Boards/CSE) in which date of birth is reflected for proof of date of birth (Admit card/Marksheet/Transfer/Leaving Certificate etc. are not acceptable for proof of date of birth) and 10+2 certificate and marksheet for proof of education. Revised marksheets issued by a Board/University after last date of submitting online application will not be accepted for this course, however, the same will be accepted for the subsequent course. (c) While filling up the application form, candidates are required to indicate exact PCM percentage of Class 12th upto two decimals and are not to be rounding off. Any false entry of PCM percentage, detected at any stage of selection will be outrightly rejected.

(d) Army Headquarters reserves the right to short list applications and to fix cut off percentage of PCM marks without assigning any reason. No communication will be entertained on this account. (e) Shortlisted candidates will be detailed to undergo SSB interview from Feb 2014 onwards. No compensation will be paid in respect of any injury sustained as a result of test conducted at SSB. All incompleting online applications will be rejected outright. No intimation will be given to the candidate in writing or verbally. (f) Candidate withdrawn from NDA, OTA, IMA, Naval Academy, Air force Academy on disciplinary grounds are not eligible to apply. (g) Final merit list will be displayed at the notice board of Rtg Dte. (Offers Selection), DG Rtg, West Block-III, R K Puram, New Delhi PIN-110066 as well as Indian Army, Recruiting Directorate website www.joinindianarmy.nic.in before induction for pre-conditioning training. For any queries regarding SSB interview centre, call up details, reporting date and merit list, contact: 011-26175473 between 1400 hrs to 1700 hrs on working days or visit www.joinindianarmy.nic.in. DG Rtg's fax No is 011-26196205

17. **CHANGE OF INTERVIEW DATES** Request for change of SSB Interview date should be avoided. However, under most unavoidable circumstances, such change may be considered based on the circumstances of the case. This will be an exception rather the rule. Request for such change should be forwarded to Selection Centre from where the call-up letter for SSB interview has been received and not to Directorate General Recruiting. The Selection Centre may permit change of date at their discretion.

#### 18. REASONS FOR REJECTION OF APPLICATION

(a) Incomplete applications in any respect. (b) Variation in names and spellings as recorded in application/Matric or equivalent certificate not supported by affidavit. (c) Non-attachment of copy of 10th class certificate for age proof and 12th class marksheet for proof of PCM % duly attested by a Govt. Gazetted officer No other certificate is valid for authentication of age. (d) Without attested photograph affixed on application form (e) Application not signed by Candidate (f) Submission of more than ONE application. (g) Any ambiguity / false information/ concealment of information detected in the certificates (mentioned at para 14(iii)) will result in cancellation of the candidature at any stage of selection.