



GOVERNMENT OF INDIA
BHABHA ATOMIC RESEARCH CENTRE
RECRUITMENT SECTION – IV



Advertisement No. 01/2019 (R-IV)

Government strives to have a workforce that reflects gender balance and women candidates are encouraged to apply
Facility for submission of on-line application start from : 02/01/2019
Last Date for submission of on-line Application: 25/01/2019

BHABHA ATOMIC RESEARCH CENTRE (BARC) invites on-line application for the following posts :

Post No.	Name of the Post	No. of posts			Educational / Technical Qualification
		OBC	UR	Total	
DR/01	Medical/ Scientific Officer/D (Dental Surgeon – Prosthodontics)	00	01	01	M.D.S. (Prosthodontics) from a recognised University
DR/02	Medical/ Scientific Officer/D (Dental Surgeon – Periodontology)	00	01	01	M.D.S. (Periodontology) from a recognised University
DR/03	Medical /Scientific Officer-D (Psychiatry)	00	01	01	M.D./ DNB or equivalent in Psychiatry/Psychological Medicine from MCI recognized Institution with preferably 2 year clinical/teaching experience.
DR/04	Medical /Scientific Officer-C (General Duty Medical Officer)	03	02	05*	MBBS with one-year institutional experience. Mandatory internship shall not be counted as experience.
DR/05	Scientific Assistant-C (Medical Social Worker)	00	01	01	Post-Graduate Degree in Medical Social Service with Medical and Psychiatric Social work as specialization subject with minimum 50% marks. Experience in Medical / Psychiatry Social work will be preferred.
DR/06	Pharmacist-B	01	01	02*	HSC (10+2) + 2 years diploma in pharmacy + 3 months training in Pharmacy + Registration as Pharmacist with Central or State Pharmacy Council. Note - Candidate should possess necessary registration certificate at the time of application
DR/07	Technician/C (CSSD- Centralised Sterilisation Supply Department)	01	00	01	HSC (10+2) Science with minimum 60% aggregate marks and 2 years experience in Central Sterilization Department of any reputed hospital having more than 50 bed strength
DR/08	Technician/C (X-Ray/Radiography)	01	00	01	HSC (10+2) Science with minimum 60% marks and plus one year Medical Radiography/X-Ray Technique Trade Certificate with 2 years experience in Medical Radiography/X-Ray.

* Post No. DR/04 (one post) & DR/06 is identified for PWD (Divyang) candidates.

Criteria For PWD (Divyang) candidates

Post No.	Name of the Post	Disability applicable for the post	Remark
DR/04	Medical /Scientific Officer-C (General Duty Medical Officer)	OH (OL)	OL - Physical deformity should not be less than 40 percentage.
DR/06	Pharmacist-B	HH (PD), OH (OL)	PD- loss of 60 decibels or more in the better ear in the conversational range of frequencies. OL - Physical deformity should not be less than 40 percentage.

[HH- Hearing Handicapped or Impaired ; PD- Partially Deaf, OH- Orthopaedically Handicapped ; OL- One Leg Affected]

Important requirement about Physical Disability Certificate –

- Minimum degree/percentage of disability for reservation : 40%
- According to the persons with disabilities (Equal Opportunities, Protection of Rights and Full Participation) Rules, 1996 notified on 31/12/1996 by the Central Government in exercise of the powers conferred by sub-section (1) and (2) of Section 73 of the Persons with Disabilities (Equal Opportunities, Protection of Rights and Full Participation) Act, 1995 (1 of 1996), a disability certificate shall be issued by a Medical Board duly constituted by the Central or a State Government. The Central / State Government may constitute a Medical Board consisting of at least three members, out of which, at least, one member shall be a Specialist from the relevant field.
- The certificate would be valid for a period of 5 years for those whose disability is temporary. The Medical Board shall indicate the period of validity of the certificate where there are chances of variation in the degree of disability. For those who acquired permanent disability, the validity can be shown as Permanent. On representation by the applicant, the Medical Board may review its decision having regard to all the facts and circumstances of the case and pass such orders in the matter as it thinks fit.

AGE LIMIT AND EMOLUMENTS:

Post No.	Posts	Level in Pay Matrix	Entry Pay* ₹	Minimum Age	Maximum Age (as on last date of application)			
					SC	ST	OBC	UR
DR/01	Medical/ Scientific Officer/D (Dental Surgeon – Prosthodontics)	11	67700	18	NA	NA	NA	40
DR/02	Medical/ Scientific Officer/D (Dental Surgeon – Periodontology)	11	67700	18	NA	NA	NA	40
DR/03	Medical/Scientific Officer-D (Psychiatry)	11	67700	18	NA	NA	NA	40
DR/04	Medical/Scientific Officer-C (General Duty Medical Officer)	10	56100	18	NA	NA	38	35
DR/05	Scientific Assistant-C (Medical Social Worker)	7	44900	18	NA	NA	NA	30
DR/06	Pharmacist-B	5	29200	18	NA	NA	28	25
DR/07	Technician/C (CSSD- Centralised Sterilisation Supply Department)	4	25500	18	NA	NA	28	NA
DR/08	Technician/C (X-Ray/Radiography)	4	25500	18	NA	NA	28	NA

* Plus allowances as admissible under Central Government Rules.

Note : Only Date of Birth indicated in School Leaving Certificate or equivalent certificate will be accepted, no subsequent request for change shall be granted.

Additional Benefits:

In addition to the normal Pay and Allowances as admissible under rules, the employees of the Department of Atomic Energy are entitled for -

- Exciting Working environment.
- Promotion for technical/scientific higher grades which are covered under the Merit Promotion Scheme of DAE.
- Healthcare for self and family members.
- Attractive performance related incentive.
- Attractive professional update allowance.
- Departmental accommodation as per Govt. of India orders.
- Crèche facility in the residential campus.

NATURE OF DUTIES

Name of the Post	Nature of Duties
DR/01- Medical/ Scientific Officer/D (Dental Surgeon – Prosthodontics)	<ol style="list-style-type: none"> 1) The candidates will have to perform routine dentistry alongwith Prosthodontics 2) Practicing general dentistry for all age groups 3) To perform all procedures including conservative & restorative dentistry 4) To perform endodontic procedures like root canal treatment, post endodontic restoration including core build up and post & core 5) To perform complete dentures, crown & bridge work, full mouth rehabilitation and implant supported rehabilitation. 6) To perform minor oral surgical procedures like disimpactions, alveoloplasty, & frenectomy, apicoectomy. 7) To perform advanced surgical procedures like bone grafting & dental implant placement 8) Management of peri implantitis, implant related complication and supportive therapy for implant maintenance
DR/02- Medical/ Scientific Officer/D (Dental Surgeon – Periodontology)	<ol style="list-style-type: none"> 1) Practicing general dentistry for adult and all age groups 2) To perform all procedures including conservative & restorative dentistry 3) To perform endodontic procedures like root canal treatment, post endodontic restorations including core build up, post & core 4) To perform complete denture, crown & bridge work and implant supported prostheses 5) To perform all minor surgical procedures like apicoectomy, frenectomy, flap surgery, granuloma & gingival enlargement management 6) To perform advanced surgical procedures like bone grafting, dental implant placement 7) Management of peri implantitis, implant related complications and supportive therapy for implant maintenance

DR/03- Medical/ Scientific Officer/D (Psychiatry)	<ol style="list-style-type: none"> 1) Management of all types of Psychiatric disorders on an outpatient basis and those needing indoor care. 2) Consultation liaison Psychiatry, Management of cross referrals from other disciplines. 3) Apart from Adult Psychiatry, some exposure and training in dealing with children and elderly is desirable. 4) Handle Psychiatric emergencies and perform on call duties by rotation. 5) Training and teaching DNB post graduate students with active participation in academic and research activities. 6) Participate in preventive and promotive mental health activities of the department.
DR/04- Medical /Scientific Officer-C (General Duty Medical Officer)	<ol style="list-style-type: none"> 1) Attending to patients of all age groups & providing health care at the periphery level. 2) Attending to routine ailments, chronic cases like Diabetes mellitus, Hypertension, Ischemic Heart Disease, Tuberculosis, epilepsy etc. 3) Follow-up of patients with chronic illnesses with regular monitoring & reference to hospital as and when required 4) Management of emergencies at dispensary and after stabilization referring to hospital if necessary 5) Data Entry in computer, including General case notes, diagnosis, online prescription, creating Service Order, Appointments etc. 6) Conducting preventive clinics like Well Baby Clinic, Antenatal clinic, screening programs and participation in academic activities 7) Candidates will also have to work in the Casualty Department as Casualty Medical Officer as and when deployed 8) Candidates should also be conversant with basic knowledge of computers to enter the data in Hospital Information System
DR/05- Scientific Assistant-C (Medical Social Worker)	<p>The Medical Social Worker will have to work with individuals, families, groups, conduct awareness activities, pay home visits, school visits, office visits as and when required, and will have to liaise with co professionals as well as stake holders. The Medical Social Worker will also assist in all the activities of the Social Service Section and the Department of Psychiatry.</p>
DR/06- Pharmacist-B	<p>Dispensing medicines to patients as per doctor's prescription and explaining dosage, providing medicines to indoor units of the hospital as per indents raised, inspection of medicines in pharmacy received from stores, raising indents to procure medicines from the hospital stores, data entry of medicines and stock keeping in both manual and on-line, raising indents regarding other requirements of the pharmacy e.g. furniture, equipments etc.</p>
DR/07- Technician/C (CSSD- Centralised Sterilisation Supply Department)	<ol style="list-style-type: none"> 1) To work in round the clock shift. 2) Following SOP's (standard operating procedures) to maintain good practices for Sterilization, Packaging of instruments. 3) Mainly to handle & Operate- <ol style="list-style-type: none"> (i) Manual/Fully automatic steam sterilizers (ii) Vapour hydrogen peroxide sterilizer (iii) Ethylene oxide gas sterilizer 4) Manual, ultrasonic, fully automated cleaning, packaging and sterilization. 5) Testing-verification/validation of all types of sterilizers (steam, plasma and Ethylene oxide gas) with biological, chemical indicators for proper functioning and assured sterilization. 6) Daily preparation of different instrument sets used in OT.
DR/08- Technician/C (X-Ray/Radiography)	<ol style="list-style-type: none"> 1) Handling of advance imaging modalities like computerised radiography, digital Radiography and also experience in handling CT Scan, etc. 2) Handling of various X-ray machines, carrying out general radiography including attending portable X-ray in operation theatre and special radiological investigations 3) Assisting Head, Radiology in various aspects of departmental work.

SELECTION PROCEDURE

DR/01- Medical/ Scientific Officer/D (Dental Surgeon – Prostho Dontics)	<p>Selection will be on the basis of performance in personal interview. In case, the response is more, this Research Centre reserves the right to restrict the number of candidates to be called for interview by conducting screening test of the eligible candidates. The decision of the Research Centre will be final and binding</p>
DR/02 – Medical /Scientific Officer-D (Dental Surgeon – Periodontology)	
DR/03- Medical/ Scientific Officer/D (Psychiatry)	
DR/04- Medical /Scientific Officer-C (General Duty Medical Officer)	

DR/05- Scientific Assistant-C (Medical Social Worker)	Selection for Scientific Assistant/C (MSW) will be on the basis of performance in personal interview. An initial screening written examination will be arranged in case of more number of applications.
DR/06- Pharmacist-B	<p><u>Stage 1 - Preliminary Test :</u></p> <ul style="list-style-type: none"> Examination will consist of 50 multi choice questions(choice of 4 answers) of one hour duration in the following proportion- <ul style="list-style-type: none"> a) Mathematics – 20 questions b) Science – 20 questions c) General awareness – 10 questions '3' marks awarded for each correct answer and '1' mark will be deducted for each incorrect answer. All candidates with less than (<) 30% in OBC category and less than (<) 40% in other categories will be screened out.
	<p><u>Stage 2 - Advanced Test :</u></p> <ul style="list-style-type: none"> All candidates Screened in Stage 1 will be allowed to undertake an Advanced Test for the said post. The Test will comprise 50 multi choice questions (choice of 4 answers) of two hours duration. '3' marks awarded for each correct answer and '1' mark will be deducted for each incorrect answer. All candidates with less than (<) 20% in OBC category and less than (<) 30% in other categories will be screened out. Merit List of candidates will be prepared after Stage-2 based upon the scores obtained in Stage-2 only.
	<p><u>Stage 3 - Skill Test :</u></p> <ul style="list-style-type: none"> Based upon the Merit List prepared after Stage-2, candidates will be shortlisted for Skill Test. The number of candidates shortlisted for Skill Test would depend upon the number of candidates qualifying for stage-2 but will not exceed 4-5 times the number of vacancies for the said post. The skill test will be conducted on a Go/No-Go basis for qualifying the candidates. <p>Candidates clearing the Skill Test will be shortlisted and empanelled in order of merit based on marks secured in Stage-2.</p>
DR/07- Technician/C (CSSD- Centralised Sterilisation Supply Department) & DR/08- Technician/C (X-Ray/Radiography)	<p><u>Stage 1 - Preliminary Test :</u></p> <ul style="list-style-type: none"> Examination will consist of 50 multi choice questions(choice of 4 answers) of one hour duration in the following proportion- <ul style="list-style-type: none"> a) Mathematics – 20 questions b) Science – 20 questions c) General awareness – 10 questions '3' marks awarded for each correct answer and '1' mark will be deducted for each incorrect answer. All candidates with less than (<) 30% will be screened out.
	<p><u>Stage 2 - Advanced Test :</u></p> <ul style="list-style-type: none"> All candidates Screened in Stage 1 will be allowed to undertake an Advanced Test for the said post. The Test will comprise 50 multi choice questions (choice of 4 answers) of two hours duration. '3' marks awarded for each correct answer and '1' mark will be deducted for each incorrect answer. All candidates with less than (<) 20% will be screened out. <p>Merit List of candidates will be prepared after Stage-2 based upon the scores obtained in Stage-2 only.</p>
	<p><u>Stage 3 - Skill Test :</u></p> <ul style="list-style-type: none"> Based upon the Merit List prepared after Stage-2, candidates will be shortlisted for Skill Test. The number of candidates shortlisted for Skill Test would depend upon the number of candidates qualifying for stage-2 but will not exceed 4-5 times the number of vacancies for the said post. The skill test will be conducted on a Go/No-Go basis for qualifying the candidates. Candidates clearing the Skill Test will be short listed and empanelled in order of merit based on marks secured in Stage-2.

COPIES OF CERTIFICATES:

At the time of written test/Interview, candidates should submit along with their application an attested SINGLE COPY of the certificates in support of :

1. Educational qualifications, experience (as applicable) and technical qualifications (supported by appropriate mark sheets indicating the subjects offered at the examinations).
2. Date of birth/Proof of age.
3. SC/ST certificate should be issued by authorized authority in the prescribed format and the caste/community should have been included in the Presidential orders in relation to the concerned state. (as per the format given at *Annexure-1).(Applicable in case of fee exemption)
4. OBC candidate's caste certificate should be issued by authorized authority in the prescribed format with non-creamy layer certificate and the caste/community should have been included in the Central lists of Other Backward Caste. The crucial date for determining the OBC non-creamy layer certificate will be the *closing date of on-line application* (25/01/2019). The OBC candidates should also enclose self declaration of non-creamy layer status in the format as given in *Annexure-2. (Applicable for posts DR/04, DR/6, DR/07 & DR/08)
5. OBC for the purpose of AGE RELAXATION AND RESERVATION will mean "persons of OBC categories not belonging to the Creamy Layer" as defined in Government of India, Department of Personnel & Training OM No.36012/22/93-Estt.(SCT) dated 08.09.93, modified vide Government of India, Department of Personnel & Training OM No.36033/3/2004-Estt.(Res) dated 09.03.2004 and 14.10.2008, and latest modification vide Government of India, Department of Personnel & Training OM No.360331/1/2013-Estt.(Res) dated 27.05.2013 (as per the format given in *Annexure-3) & latest modification vide Govt. of India DoPT OM. NO. 36033/1/2013-Estt (Res.) dated 13/09/2017 (Applicable for posts DR/04, DR/6, DR/07 & DR/08).
6. Proof to the effect that they have been affected by 1984 riots (as applicable).
7. Certificate regarding domiciled in Kashmir Division from 01.01.1980 to 31.12.1989 (if claiming age relaxation for Kashmir division).
8. Any other relevant certificates (as applicable).

***Annexures can be downloaded by following the link recruit.barc.gov.in / Job Application/ Download Forms**

GENERAL CONDITIONS:

1.(a)	Applications will be accepted on-line only
(b)	For detailed information and on-line application, please log in to website recruit.barc.gov.in . Candidates are advised to read instructions on a Home page of website by clicking on 'How to Apply'.
(c)	The facility of online application will be opened from 02/01/2019 to 25/01/2019.
(d)	The candidates are required to produce printout of online application, admit card (to be downloaded from the website) and submit the same with original certificates along with the attested copies (self attested) of all relevant documents in support of date of birth, educational qualification (certificates & mark sheets), caste, experience certificate etc., only at the time of interview. <u>Candidates who report for the Written test/Screening test /Skill Test/interview without any of the supporting documents will not be allowed to appear for the Written test/Screening test /Skill Test/interview.</u>
2.	In case, the response is more, this Research Centre reserves the right to restrict the number of candidates to be called for interview by conducting screening test of the eligible candidates. The decision of the Research Centre will be final and binding.
3.	Final selection will be based on the performance in the Written test/Screening test /Skill Test/Interview.
4.	The validity of operation of wait-list will be one year from the date of preparation of the Select Panel.
5.	The candidates will be given choice to answer the questions in written test in Hindi or English (For post no. DR/6, DR/07 & DR/08).
6.	The nature of duties to be performed by the above categories involves working in round the clock shift duties.
7.	Selected candidates, on their appointment, will be governed by the National Pension System.
8.	Selected candidates will initially be posted at Mumbai or Navi Mumbai. They are also liable to be posted to any of the Units of BARC located in India or to any part of India and in any of the Constituent Units of Department of Atomic Energy.
9.	The candidates called for interview from outstation for the post of DR/01, DR/02, DR/03 & DR/04 and SC/ST outstation candidates called for interview/written test for the post of DR/05 & DR/6 will be paid to and from travelling allowance of sleeper/second-class Railway fare by the shortest route or actual fare whichever is less (subject to production of tickets) as per rules The allowance are not admissible to those candidates who are already in Central/State Government services, Central/State Government Corporation, Public Sector Undertakings, Local Government institutions and the concession availed from Railways, if any, for undertaking journey for attending written test/interview.

	<p><u>RELAXATION IN UPPER AGE LIMIT:</u></p> <ul style="list-style-type: none"> Regular Government servants working in posts which are in the same line or allied cadre will be relaxed as per Govt. orders. Departmental candidates who have rendered not less than three years continuous service in Central Government in the same line or allied cadre will be relaxed as per Govt. orders. Widows, divorced women and women judicially separated from their husbands and who are not re-married are eligible for relaxation in upper age limit as per government orders. Relaxation in the upper age limit of 5 years shall be admissible to children/family members of those who died in the 1984 Riots. <p>Proof to the effect that the person has been affected by 1984 Riots if they are availing age relaxation in this regard.</p> <ul style="list-style-type: none"> Upto Ten years for Physically Challenged UR candidates and thirteen years for Physically Challenged OBC candidates (applicable for DR/04 & DR/06). Relaxation in age for Ex-Servicemen. Meritorious sportspersons are eligible for relaxation in the upper age limit as per the Govt. orders. Relaxation in the upper age limit of 5 years shall be admissible to all persons who had ordinarily been domiciled in Kashmir division of the state of Jammu & Kashmir during the period from the 1st day of January 1980 to 31st day of December, 1989 provided that the relaxation in the upper age limit for appearing at any examination shall be subject to the maximum number of chances permissible under the relevant rules <p>Certificate regarding proof of residence – any person intending to avail of this relaxation of age limit admissible under rule 3 shall submit a certificate from:</p> <ol style="list-style-type: none"> The Dist. Magistrate in the Kashmir division within whose jurisdiction he had ordinarily resided; or Any other authority designated in this behalf by the Government of Jammu & Kashmir to the effect that he had ordinarily been domiciled in the Kashmir division of the state of Jammu & Kashmir during the period from the 1st day of January, 1980 to the 31st day of December, 1989.
10.	
11.	The crucial date for determining the age limit shall be the closing date for the receipt of the applications (25/01/2019)
12.	BARC reserves the right to reject or accept the candidature of any applicant at any stage.
13.	BARC reserves the right to cancel/restrict/modify/alter the recruitment process, if need arises, without issuing any further notice or assigning any reason thereof.
14.	The vacancies shown above are provisional and subject to variation. The filling up of vacancies indicated in the advertisement is also subject to the approval of Competent Authority and may not be filled up if decided otherwise in terms of the orders issued by Govt. of India from time to time.
15.	The eligibility criteria including the period of experience (as applicable) as prescribed in the advertisement will be determined with reference to the last date of receipt of applications (25/01/2019).
16.	Candidates may ensure that they fill in the correct information. Candidates who furnish false information will be disqualified for Written test/Screening test/Skill Test/Interview. BARC further reserves the right to reject the candidature of any applicant at any stage.
17.	<p><u>Application Fee & Payment Procedure -</u> Mode of payment of the Application Fee is through Online.</p> <p><u>Amount of Fee -</u></p> <ol style="list-style-type: none"> For DR/01, DR/02, DR/03 & DR/04 - ₹500/- (Rupees five hundred only) For DR/05 - ₹150/- (Rupees one hundred & fifty only) For DR/6, DR/07 & DR/08 - ₹100/- (Rupees one hundred only) <p><u>Payment Procedure -</u></p> <ul style="list-style-type: none"> The Application number generated after the submission of the online application is required to make the online payment of the application fee and hence submission of application is mandatory before the online payment of application fees. However, fee NOT paid will be treated as incomplete application and hence will be rejected. For payment of fee, candidates should click on the 'Make Payment' option under the 'My Account' menu. The Application number generated while submission of application can be selected from the Drop-down box and on clicking the 'submit' button candidates can go to the next pages for making the online payment. Detailed guidelines for payment of application fee is available under the menu "Payment of fees" → "How to Apply". Fee once paid shall not be refunded under any circumstances and cannot be held in reserve for any other recruitment. Application fee should be paid on or before the last date of receipt of online applications. <p>Note - Candidates belonging to SC/ST, Persons with Disability and women candidates are exempted from payment of this fee. Candidates belonging to Ex-Serviceman category (For DR/6, DR/07 & DR/08) are also exempted from payment of this fee.</p>
18.	Persons working in the Central/State Government/Public Sector Undertakings should submit a ' NO OBJECTION CERTIFICATE ' from the employer at the time of written test/interview/Skill test. If candidates fail to submit 'NOC' at the time of written test / interview /skill test, they will not be allowed to appear for the written test/ interview/skill test.
19.	Compensatory time for persons with disabilities shall be provided as per the extant order.
20.	SC/ST/OBC persons with disabilities selected on their own merit without relaxed standards along with other candidates, will be considered against unreserved vacancies provided the post is identified for the persons with disability of relevant category.

21. Ex-servicemen who have already secured employment in civil side under Central Government on regular basis after availing the benefit of reservation given to ex-servicemen for their re-employment are NOT ELIGIBLE for claiming benefits of reservation under Ex-servicemen category.

- Note:**
- i. In case Universities award letter grades/CGPA/OGPA/SGPA the same will have to be indicated as equivalent percentage of marks as per the norms adopted by that University. In the absence of the same the candidature will not be considered for Written test/Screening test/Skill Test/Interview.
 - ii. Candidates who have not acquired/will not acquire the Educational qualification as on the closing date of receipt of application (25/01/2019) will not be eligible and need not apply.

WARNING: Applications which are not in conformity with the requirements will be rejected. No correspondence will be entertained with the candidates not selected for Written test/Screening test/Skill Test/Interview.

Records of the candidates not selected shall not be preserved beyond 6 months from the date of publication of select list

CANVASSING IN ANY FORM SHALL BE A DISQUALIFICATION

CHECK LIST FOR THE CANDIDATES

(To be attached to the application and submitted at the time of interview)
Put 'X' in the boxes applicable

An attested copy of each of the following certificates/mark sheets is attached

- | | | |
|---|---|--------------------------|
| 1. Print out of the on-line application | : | <input type="checkbox"/> |
| 2. Date of Birth/Proof of age (Certificate) | : | <input type="checkbox"/> |
| 3. SC/ST/OBC (if applicable) | : | <input type="checkbox"/> |
| 4. NOC (if applicable) | : | <input type="checkbox"/> |
| 5. Educational & Professional Qualifications (Certificates & mark sheets) | : | <input type="checkbox"/> |
| 6. Experience Certificate | : | <input type="checkbox"/> |
| 7. Any other relevant certificates | : | <input type="checkbox"/> |

Signature : _____

Date: _____

Name of the candidate : _____