

Government of India  
Bhabha Atomic Research Centre  
Personnel Division

Advertisement No: **2/2017 (R-V)**  
Last date for receipt of applications is **August 21, 2017**

**Diploma in Radiological Physics ( Dip. R. P.) – One year Post-M.Sc. programme**

Radiological Physics and Advisory Division (RP&AD) of Bhabha Atomic Research Centre (BARC) is conducting the Diploma in Radiological Physics (Dip.R.P.) course since 1962. This is a post-M.Sc. programme and the duration is one year. Fifty-four courses have been successfully conducted and 55<sup>th</sup> course (academic year 2016 – 2017) is scheduled to be completed by September 30, 2017. Initially, the course was affiliated to University of Bombay/Mumbai and since 2007, this course is conducted under the aegis of Homi Bhabha National Institute (HBNI a deemed to be University), Mumbai (more details can be obtained from <http://www.hbni.ac.in>). The 56<sup>th</sup> Dip.R.P. course is scheduled to commence from the first week of October 2017. Total allocated seats for admission to the course is 30 (25 non-sponsored candidates + 5 sponsored candidates from Government Institution). In case, sufficient number of suitable sponsored candidates will not be available, the allocated seats for the sponsored candidates may be filled-up by suitable non-sponsored candidates.

**1. Course content**

The course contains radiation physics (including statistics, numerical methods), principles of radiation detection and measurement, radiation dosimetry and standardization, radiation biology, applications of ionizing radiation and radioisotopes in medicine, industry, agriculture and research, physics of radiotherapy and medical imaging; transport of radioactive materials, radiation hazard evaluation and control, radiation emergencies and its management. The course also contains practicals and field training relevant to the practice of Medical Physicists and Radiological Safety Officers. The total duration of the field training is ten weeks [six weeks at BARC, two weeks each at Tata Memorial Hospital (TMH) and Radiation Medicine Centre (RMC), Mumbai]. The medium of instruction is English.

**2. Eligibility criteria**

The eligibility for admission to the Dip. R.P. course is M.Sc. (Physics) with not less than 60% marks in aggregate. In addition, the candidates should have B.Sc. Degree (Physics as a main subject) with not less than 60% marks in aggregate. In case of grade system, grade to percentage of marks conversion scheme obtained from the University should be submitted along with the application, failing which application will not be considered. **The sponsored candidates** should have at least **one-year working experience** in a radiotherapy department of Government Institution in India. The working experience will be counted from the date of enrolment in personal monitoring services. A certificate/declaration in this matter should be attached along with the application. The sponsored candidate should also submit a documentary evidence of availing personal monitoring service from BARC/accredited laboratories.

Those who await the final results of M.Sc. (Physics) may also apply. However, such candidates should necessarily attach copies of the mark sheets of B.Sc. Degree and a copy of M.Sc. first year mark sheet(s) along with the application. If appearing candidates are selected for admission to DipRP course, they should submit their M. Sc. Degree mark sheets by October 30, 2017 failing which their candidature may be terminated. In case the appearing candidates admitted to the course do not secure 60% marks in aggregate in the M.Sc. (Physics) examination, their candidature will be terminated.

### 3. Age limit

The upper age limit as on October 01, 2017: (a) **General Category-26** years, b) **OBC-29** years, (c) **SC/ST-31** years. For physically challenged (**PH**) candidates, there is a relaxation of age by **up to 10 years**. The candidates with physical disabilities limited to the lower extremities, but permitting to stand, move and physically able to carry out the course work will only be considered. For the **sponsored candidates** of all categories the upper age limit as on October 01, 2017 is **40** years.

### 4. Selection procedure

Selection of non-sponsored candidates is based on written test followed by an interview. Please note that CET is meant for screening the candidates and the final selection to the course is solely based on performance in the interview.

(a) **Common Entrance Test (CET)** :The CET will be held at **11.00 hrs.** on **03/09/2017** at **New Training School Complex,, Anushaktinagar, BARC, Trombay, Mumbai – 400094**. **Admit Card** will be generated on **25.08.2017**, candidates are required to print Admit Card using their own login details. **Without admit card**, candidates will **not be permitted** to appear for CET. The **result of CET** will be declared on the **same day** at the same venue by **17.00 hrs.** The CET (2 hours duration) will be based on Multiple Choice Questions with **negative marking** for incorrect answers.

#### (b) Interview :

- I. **Qualified Candidates** of CET will be interviewed from **04/09/2017 (Monday)** to **06/09/2017 (Wednesday)** commencing from **10.00 hrs.** at **New Training School Complex, Anushaktinagar, Mumbai – 400 094**.
- II. Selection of **Sponsored Candidates** is through interview only and hence eligible sponsored candidates will be called for the **interview directly**.

(c) M.Sc. (Physics) candidates who are waitlisted for admission to one-year Orientation Course for Engineering Graduates and Science Post-Graduates for the year 2017-2018 (OCES – 2017) conducted by BARC Training School may also be considered for admission to the Dip. R. P. course.

(d) The successful candidates will be admitted to the course only after they are declared medically fit by the BARC hospital, Mumbai.

### 5. Travelling allowance and stay

The candidates called for the written test are eligible for traveling allowance (round trip **sleeper class** railway fare). Round trip defines travel from his/her place of permanent

residence to Mumbai and back by the shortest route. The candidates need to produce the railway tickets while claiming traveling allowance. However, sponsored candidates and the candidates from Mumbai and its suburban regions are not eligible for travelling allowance (TA). The candidates are required to make their own arrangements for stay in Mumbai at least for three days, as the candidates screened through written test will be interviewed on the subsequent days of the written test.

## **6. Stipend**

On admission to the course, each non-sponsored candidate is eligible to receive a stipend of **Rs.9300/-** (Rupees nine thousand and three hundred only) per month for a period of one year. The sponsored candidates are not eligible for the stipend.

## **7. Accommodation**

All the candidates admitted to the course will be provided hostel accommodation at Anushaktinagar, Mumbai for one year. The charges as applicable towards this accommodation should be borne by the candidates.

## **8. Admission fee**

The candidates should pay an admission fee of ₹ **3000/-** (Rupees three thousand only) at the time of admission. The fee should be paid in the form of a crossed Demand Draft (DD) drawn in favour of **Accounts Officer, HBNI**, payable at Mumbai.

## **9. Bond**

Non-sponsored candidates are required to execute a bond at the time of admission for continuing in the Dip. R. P. course for the full one year period. In case, the candidate desires to discontinue the course, he/she needs to refund the entire amount of the stipend received along with interest, as applicable.

## **10. Award of certificate and employment opportunities**

On successful completion of the Dip. R.P. course, the candidates will be awarded Post M. Sc. Diploma in Radiological Physics by HBNI. However, as per the requirement of Atomic Energy Regulatory Board (AERB) to qualify as Medical Physicist to serve in radiotherapy centres, the candidates are required to complete one-year internship in AERB recognized radiotherapy centre on successful completion of the DipRP Course. Please note that BARC does not provide stipend during the one year internship. However, radiotherapy centres that offer internship programme may provide the stipend to the candidate. On successful completion of this internship programme, the candidates are eligible to participate in the Radiological Safety Officer-Medical (RSO-Medical) Certification Examination, which is conducted by RP&AD, BARC. On successful completion of this RSO (Medical) examination, the candidates are eligible to be nominated as RSO (Medical) in medical institutions subject to the approval by the AERB. To work as RSO in industrial establishments, the candidates need to pass RSO (Industrial) Certification Examination, separately. It is not required to undergo the medical physics internship at radiotherapy centre if a candidate wishes to appear for the RSO (Industrial) examination on successful completion of the Dip.R.P. course. RSO (Industrial) certification examination is also be conducted by RP&AD, BARC along with RSO (Medical) Certification Examination.

The requirement of Medical Physicists in India is increasing due to increase in the number of radiotherapy centres to cater to the growing need of cancer patients. Almost all the candidates find employment opportunities with good emoluments on successful completion of Dip. R. P. course and medical physics internship. The RSO (Medical)/ RSO (Industrial) certified candidates have extra advantage of working as Radiological Safety Officers in the medical/ industrial institutions. There is a scope for the deserving candidates to get internship at Tata Memorial Hospital (TMH), Mumbai for a period of one year. TMH, Mumbai is one of the leading cancer centres in the Country with ultra modern radiotherapy facilities. The internship at TMH provides value addition towards the employment opportunities in India and abroad. In addition, there is a scope for the first few rank holders of the Dip. R.P. course to be recruited in the DAE establishments as Scientific Officer in the grade of SO/C. This recruitment is subject to the availability of vacancies in DAE establishments.

### 11. Application fee

Interested candidates should submit their applications in an appropriate format along with a non-refundable application processing fee of ₹ 200/- (Rupees two hundred only). With regard to payment of application fee, the candidate may download the three fold challan from the BARC website [recruit.barc.gov.in](http://recruit.barc.gov.in) and make the payment in any branch of the State Bank of India from **29/07/2017 to 21/08/2017**. The portion of the challan marked “**Institution Copy**” should be attached along with the application by shortlisted candidates at the time of interview. The **SC/ST** applicants, Dependents of Defense Personnel Killed in Action (DODPKIA), women candidates and physically challenged candidates are exempted from payment of application fee. **Payment of fees should be done only by using Challan. Any other mode of payment will not be accepted.**

### 12. NOTE :

- Applications will be accepted online only. Facility for online application will be available from **29/07/2017 to 21/08/2017**.
- At the time of Online application, **Only Sponsored Candidates** should specifically indicate **Sponsorship details** such as Name of Institution sponsoring the candidate with address in the column titled “**Other Information**”.
- Photograph : Front face photograph (passport size) with light background should be uploaded with the application.
- In the case of sponsored candidates, the sponsoring institute must certify (**Annexure I**) that their candidate is a full time/permanent employee employed by the Institution and on successful completion of the course and subsequent successful completion of one-year internship programme in a reputed radiotherapy centre, he/she would be designated as a Medical Physicist.
- Person working in the Central / State Government / Public Sector Undertaking should submit their applications through proper channel. They may however, submit advance copy online. Applications, which are not in the prescribed form (Online) are liable to be rejected.
- Applications, which do not adhere to the requirements as described in the advertisement will be rejected. Mere fulfilling of requirements as laid down in the advertisement does not qualify a candidate for the written test or interview as only limited number of candidates (selection is based on the merit) will be called for the written test or interview.
- No correspondence shall be entertained from the candidates who are not called for the written test/ interview.
- Canvassing in any form will lead to a disqualification.
- For online submission of application visit the website [recruit.barc.gov.in](http://recruit.barc.gov.in).

**Proforma for the Certificate of Sponsorship**  
(To be issued on letterhead of the Institution)

I, \_\_\_\_\_, Head/Director of this Institute, hereby sponsor Shri/Smt./Kum. \_\_\_\_\_, to undergo the One Year Post-M.Sc. Diploma in Radiological Physics Course conducted by the Radiological Physics & Advisory Division, Bhabha Atomic Research Centre under the aegis of Homi Bhabha National Institute for the academic year 2017-18.

I certify that Shri/Smt./Kum. \_\_\_\_\_ has been working as \_\_\_\_\_ on permanent basis in this Institute since \_\_\_\_\_. He/She is under the Personnel Monitoring Service and his/her TLD personal monitoring number is \_\_\_\_\_. I further declare that on successful completion of the course and subsequent successful completion of one-year internship programme in a reputed Radiotherapy Department/Centre, he/she will be designated as a Medical Physicist in our Institute.

I hereby undertake to bear all the expenses in connection with the training of the above candidate and also pay him/her a monthly stipend/salary of ₹ \_\_\_\_\_ (Rupees \_\_\_\_\_) during the training period.

Place:  
Date:

\_\_\_\_\_  
(Signature)  
Head/Director of the Institution with the  
Name, Designation, Address and Office Seal  
Phone (Office & Mobile):  
E-mail: