

Lynnwood, Dick Road  
Mussoorie  
June 14, '43

My dear sir,

I have sent today the application for admission to the Indian Institute of Science. ~~today~~. They want a certificate of character and a certificate of the Professor under whom the candidate has worked. Prof. Jha has been kind enough to give me the certificate of character. I hope you would do me the favour of sending to the Registrar of the Institute a certificate for me. I have written in the application that your certificate will follow separately. The last date for the application to reach is 21<sup>st</sup> June. I hope you will send the certificate immediately so that it may reach before that date.

Prof. Rawan seems to have been very lenient generous in giving marks this year. This is specially striking in view of the fact that he had been rather strict last year. I do not suppose we were such a good lot as to deserve six first-classes out of a total of seven boys.

You have not written to me anything about the public-library-books. Now, I shall get down from here on the 22<sup>nd</sup> and reach Allahabad by the 26<sup>th</sup>. I shall bring them along with me.

With best respects

Yours Obediently  
Harish Chandra

Bangalore  
Oct 25, '43.

My dear Sir,  
Thank you very much for your letter. Sir C.V. was telling me the other day about your coming, but that was in connection with the annual session of the Indian Academy at Hyderabad. Are you coming again during Christmas or you have by mistake written Nov. instead of Dec. in your letter? I am sorry I am not coming to attend the invocation. It is not worth while to come to Allahabad for a day or two and I cannot manage to be off from here for more than a week.

I have been doing some work in regard to the classical theory of point particles. A point particle involves infinite field-energy. In contrast to the Born-Infeld method of modifying field equations Dirac in '38 gave a method which could be used to determine the equations of motion (including the radiation reaction) of an electron under arbitrary incident field, assuming the electron to be a point. Later Pryce showed that even the infinities from the total energy could also be removed. Prof. Bhabha extended Dirac's method to the case of neutron and protons with a meson-field (analogous to an E.M. field in case of electrons). Bhabha & Cohen carried out the calculations; (on the same lines as that of Dirac for a charged particle), in case of a charged dipole. I have found a method of removing infinities in energies from any arbitrary field, which means that as far as classical theory is concerned, we can

talk of point particles without getting into difficulties about infinite self-energies. It will be a much greater step to develop an analogous scheme in Quantum theory.

I very much like my work here and also the very comfortable life I have here. I work mostly in my room. The only snag is that the Institute is too far away from the town and there is no regular and convenient means of conveyance. I am staying here with Dr. Kati as a paying guest, as they would not give me a single-seated room in the Hostel.

Sir C.V. is in a grand fighting mood these days. You know he was up against Born, but now he is also up against the Bloch-Sommerfeld Electron theory of metals. We have had long and animated discussions sometimes, I of course taking the more conservative side. He said he hopes to have a 'full dress debate' on the subject when you come. It is always very animating to talk with him.

I hope you have been able to fix up the various research students there on suitable proper tracks and they are doing well. I believe Bhatnagar must have left. I came to know that Miss Dey was wanting to come here. I am sure Rajendra Singh is doing very well. Kindly remember me to them all.

I should love to hear from you whenever you can find time to write.

With best respects,

Yours sincerely,  
Harish Chandra

Lynwood, Drek Road  
Mussoorie  
May 8, 1943

My dear Sir,

Pray excuse my impatience. I wish to know when you expect a reply from Prof. Bhabha and what that reply is likely to be. When do you think it will be necessary for me to come down? I cannot fix up any suitable place for my stay here till I have some idea of the date when I am likely to be called back. When does the institute reopen after the summer recess?

I shall be obliged if you could let me know how long I can safely extend the period of my stay. I need that information rather urgently to book a room for myself somewhere. Mussoorie is daily getting fuller. At present I am staying in Prof. Jha's cottage. He was kind enough to offer it to me for such length of time as I would need to find a suitable place for myself.

Thanking you for the trouble

Yours Obediently  
Harsh Chandra

Bangalore  
April 17, '45

My dear Sir,

Thank you very much for your wire, which I got this morning. I am very grateful to you for your concern.

Nobody here seems to know who is the present Secretary of the Inter-University Board. Perhaps it is Sidhant, but I am not certain. I am therefore sending the application to you and addressing it through the Vice-Chancellor. I think that is the best procedure.

In case you think that a letter of recommendation is needed you may ~~write~~ write one yourself or write to Bhabha about it. I think the letter of recommendation <sup>from Bhabha</sup> may be sent separately afterwards without harm.

I imagine the examinations are over by now and you are having comparatively free time.

I have not yet heard anything from the National Academy about my paper. Will they send the proofs to me or get them corrected by somebody there?

I am also writing to Prof. Jha about this application.

With kind regards,

Yours sincerely  
Hasib-Chaudhry

May 21, '43  
Lynwood, Dick Road  
Mussoorie

My dear Sir,

Thank you very much for your two letters, which I found lying here on returning yesterday from Haridwar, where I had gone away on the 15<sup>th</sup>. I must thank you for taking the trouble of going to my father yourself and showing him Prof. Bhabha's letter. In fact I can never thank you too much and am aware that the only way of repaying your kindness would be to justify the hope and confidence you have put in me. Pray bless me to succeed in doing that.

You may assure Prof. Bhabha, if you think it proper, that I wish to take up research as a career and not merely as a necessary means of getting a degree, calculated to fetch me a lucrative appointment, and that I am prepared to spend a good many years in study and reading, provided I can receive his assurance that I possess the necessary clarity of understanding which, together with proper effort, can prove fruitful.

I am writing to the Registrar of the Institute to send me the application form for admission. So arrange for my stay, I should like to get some information about the various hostels there. I think Dr. Bishambhar Dayal could give me the necessary details. Will you kindly request him, in case he is at Allahabad, to write

to me advising me on the subject? Otherwise, please let me know his address. I am also writing to Mrs. Kale at Bangalore about it.

If I have to reach Bangalore in the first week of July, I shall not be at Allahabad before June 15. I should be very reluctant to part with the library books earlier, because I think it is essential for me to go through them and be familiar with their content before reaching Bangalore. Of course, in case it is absolutely necessary to return them before end of May, and Prof. Banerji can find no way at all of granting this very special favour, I shall send them to you (or directly to the library) by post, on hearing from you.

With best respects,

Yours Obediently,  
Harish Chandra

Replied  
H.S.L.

6 Brookside  
Cambridge  
July 18, '46

Dear Sir K. S.,

I am sorry I couldn't see you when you came here last Tuesday. There seemed to be no notice about the lecture and I couldn't locate where it was going to be held.

Sharma from Allahabad wrote to me recently asking me to send him back either the manuscript or the corrected proofs of my paper. I understand the manuscript is with you. I should be grateful if you bring it along with you when you come here next Monday. — Hoping to meet you then.

Yours sincerely  
Harsh Chaudron.

P. S. My father has asked me to convey his congratulations to you on getting the Knighthood.  
H.S.L.