

D.O. No.....975/

10 S.R.I.



*Sursenarath*  
Telegrams :- "~~WARSEARCH~~" Dehra Dūn  
Telephone :-  
Office 508  
Residential 719  
Post Box No.77

Survey of India  
SURVEY RESEARCH INSTITUTE  
DEHRA DUN (U.P.)

Dated, the 6th March, 1947.

From

B.L.Gulatee Esqr., M.A.(Cantab)  
President, Survey Research Institute

Dear Professor Krishnan,

I have under separate parcel sent you a chunk of manganese ore, and shall be extremely grateful if you could let me have

- (i) an idea of the proportion of the induced and remanent magnetism in it when placed in the magnetic field of the Earth.
- (ii) Its magnetic susceptibility  $K$  in the magnetic field of the Earth.

Ordinarily the magnetic susceptibility of manganese is negligible so far as I know, but this specimen has a certain percentage of iron ore in it. I suspect that its  $K$  will be of the order of  $45 \times 10^{-4}$  but I would like to make sure. An answer correct to 20% will suffice for my purpose. (ii) is more important than (i) and if (i) is likely to entail unnecessary work for you, you need not bother. I do not require the specimen back so you can pulverise it, if you want or do whatever you like with it.

I hope you won't mind the trouble I am giving you,  
With kindest regards,

Yours sincerely,  
*B.L. Gulatee*

Dr. K.S.Krishnan, F.R.S.  
Professor of Physics,  
Allahabad University,  
Allahabad, U.P.

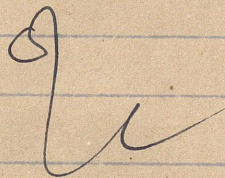
3  
~~to~~  
March 26 1947

Dear Mr Gulatee,

8  
2/13.  
Thank you for your letter of March 6, and the parcel of manganese ore sent by you. I ~~am~~ glad to agree to make the magnetic measurements ~~on the specimen~~ which you require on the specimen. ~~I shall write to~~ I may not be free for ~~about~~ till about the 8<sup>th</sup> of April owing to some examination work, and I shall take up the measurements soon after, and write to you.

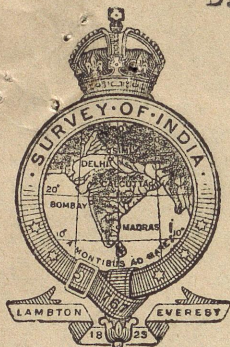
With kind regards

Yours sincerely



D.O. No. 1740./47N

10 S.R.I.



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Survey of India  
SURVEY RESEARCH INSTITUTE  
DEHRA DUN (U.P.)

Dated, the 14<sup>th</sup> May 1947.

From

B. L. Gulatee Esqr., M. A. (Cantab)  
President Survey Research Institute

Dear Prof. Krishnan,

Kindly refer to your letter dated March 26, 1947 in which you were so good as to offer to undertake magnetic measurements on the manganese ore I sent you. Could you please let me know if any progress has been made. I would appreciate very much if you could also send me an account of the method you have used for the measurements. I am going aboard on the 25<sup>th</sup> of this month and shall be grateful of an early reply.

With kind regards.

Dr. K. S. Krishnan, F. R. S.  
Professor of Physics,  
Allahabad University,  
Allahabad U.P.

Yours Sincerely,

*B. L. Gulatee.*

22, Curzon Road,  
New Delhi.

June 5, 1947.

Dear Mr. Gulatee,

Excuse me for the  
delay in undertaking the magnetic  
measurements on the manganese ore,  
which you sent. One of my research  
students has been working on it and  
and I shall write to you as soon  
as he completes the measurements.

With kind regards,

Yours sincerely,

To

B.L. Gulatee, M.A.(Cantab),  
President,  
Survey Research Institute,  
Dehra Dun, U.P.