

A. M. College.

Mymensingh.

Dated the 21st July '39.

Dear Sir,

I hope you have returned after a pleasant and happy tour abroad.

I have been appointed as the Head of the Dept. of Physics in the above college where I joined on the 4th inst. last. As regards my work in the Association, I could not make much progress after you left, owing to the fact that none of the chemicals in the long list suggested by you were available in Lab. I was told that they had been ordered for from Germany. I have finished Naphthalene and I hope you can send a note regarding this substance for publication. The results obtained are given below.

Electric field along	Expt no	Diell const.	temp: in °C. (mean)	Date
a-axis	1.	2.63	35	---22-4-39
" "	2	2.60	35°3	---27-4-39
b-axis	1	3.00	29.7	---10-5-39
" "	2	2.99	33.4	---12-5-39
" "	3	2.96	34.6	---16-5-39

Electric field	Expt no.	Diag. Const.	Temp. in $^{\circ}$ C.	Date
1° C - face face	1	3.38	34.5	1-4-39
" " "	2	3.27	33.5	4-4-39
" " "	3	3.25	31.8	6-4-39

These values of the Diel. constants were obtained after a small correction had been made for slight departure from an exact balance of the crystal in the liq. mixture ($C_6H_5NO_2 + CCl_4$). This correction had of course been roughly calculated. No appreciable variation of temp. could be observed for the liq. dielectric while it was under investigation, during a particular expt.

If you think any more details necessary for the publication of the note, I shall be glad to supply them. I intend to come down to Calcutta during the Puja holidays and finish 2 or 3 Crystals more, provided the apparatus is not disturbed or mishandled ^{by anybody;} for, if it is put out of order, it will be difficult, after resetting it, to carry the investigation very far during the course of a month. I have applied to the Secretary I. A. C. S. for leave till the 12th October next. I trust you are keeping quite well. With kind regards,

yours sincerely

H. K. Pals.