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Dr.G.R.Toshniwal, D.Sc.,S.M.I.R.E.,F.N.I.,  
Managing Director,

GRAMS: "ANUSANDHAN"  
PHONE: 88139.

# TOSHNIWAL BROS., LTD.

LADY JAMSHEDJI ROAD, MAHIM.  
BOMBAY - 16.

Ref. 659/50.

23rd February, 1950.

6 MAR 1950

My dear Prof. Krishnan,

~~REGISTERED~~

With reference to our conversation during your visit to our place I take pleasure in enclosing literature on the Collins Helium Cryostat. The price of this Cryostat for export shipment is approximately \$27,800.00. Due to the unique nature of this particular equipment even in the United States one of the Engineers of the manufacturers has to go and supervise the installation and instruct the Research personnel for operating it. I believe you will like to adopt the same procedure here. In case that is so, the cost of services, travelling and subsistence for the Factory engineer to instal the unit would be in the neighbourhood of \$3500.00.

I feel that the literature will be of considerable interest to you and if you are interested in going ahead with the proposal my services are your disposal.

Since we met at Poona we have heard nothing about the purchase of equipment for the N.P.L. I do not know whether you have made up your mind in the matter. All literature was sent to Dr. K.N. Mathur, as desired by you, and I have heard nothing even from him either.

Kindly acknowledge receipt of this particular letter.

With kindest regards,

Yours sincerely,

G. R. Toshniwal -

Sir Professor K.S.Krishnan, F.R.S.,  
Director,  
National Physical Laboratories,  
Tulsa Road,  
New Delhi.

GRT:LCP.

LONDON OFFICE: Dr. G.R. Toshniwal, D.Sc., S.M.I.R.E., F.N.I.,  
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Managing Director.

# TOSHNIWAL BROS., LTD.

LADY JAMSHEDJI ROAD, MAHIM.

BOMBAY - 16.

Ref. 843/50

9 MAR 1950

7th March, 1950.

Dear Prof. Krishnan,

Kindly refer to my letter No.659/50 of 23rd February, 1950. I have just been informed that the latest prices of the Collins Helium Cryostat for export shipment is approximately 24,980/- dollars in place of the earlier price of 27,800 dollars. The service charges of the installation Engineer however remains the same as indicated by me in my earlier letter.

I hope that you got my earlier letter and it has not been possible for you to acknowledge it because of your pressing engagements. I shall be, however, glad if you will kindly acknowledge this letter and also the earlier letter.

With kindest regards,

Yours sincerely,

*G. R. Toshniwal*

Prof. K.S. Krishnan, F.R.S.,  
Director, National Physical Laboratories,  
Hillside Road,  
New Delhi.

GRT:AD

# Arthur D. Little, Inc.

CHEMISTS · ENGINEERS



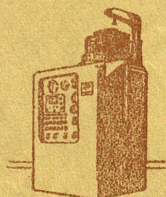
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MECHANICAL DIVISION

March 2, 1951



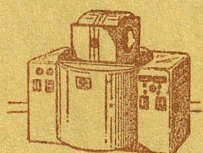
HELIUM LIQUEFIERS  
HYDROGEN LIQUEFIERS

Dr. M. L. Ghai  
Assistant Director and Head  
Heat and Power Division  
National Physical Laboratory of India  
Hillside Road, New Delhi

Dear Dr. Ghai:

ML-502

In answer to your letter of February 13, we are pleased to enclose two copies of a folder and two copies of a technical reprint on the Collins Helium Cryostat. At present there are about thirty-five of these units installed throughout the United States and Canada.



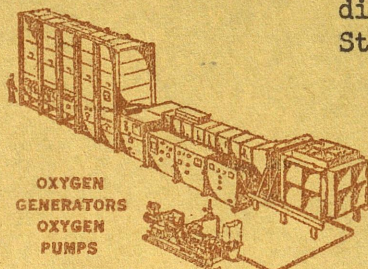
ELECTROMAGNETS

In shipping a Cryostat overseas it is necessary, of course, for us to ship say about twenty cylinders (220 standard cubic feet) of helium with it. Also because of the length of time required for you to get refills on these cylinders, you will probably want to have a recovery system. This can be done but requires some auxiliary equipment, depending upon whether you plan to do experiments within the experimental chamber or transfer the liquid to Dewars. In the United States we have had a technician from the purchaser's laboratory spend about a week with us here in Cambridge and after that our engineer has gone out to help set up the unit and see that it operates correctly. For an overseas location the suggested procedure is for our engineer to go to the place of installation and spend about three weeks in setting up the unit and training personnel in its operation.

When shipping a unit overseas there is one important point to consider. That is the supply of spare parts and the general communication problem to discuss any difficulties when they arise. For example, within the United States, of course, it is very easy for people to pick up the



HELIUM REFRIGERATORS  
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OXYGEN  
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ADVANCED EQUIPMENT FOR SCIENCE AND INDUSTRY

March 2, 1951

To: National Physical Laboratory of India

telephone and call up to discuss any problems that arise. Consequently it is quite easy to solve many of the maintenance problems within a matter of hours, whereas by mail it might take several weeks. Also within the States it is easy to ship parts by air, and of course no export licenses are required. I just mention this so that you will be aware of some of the problems that may arise.

The price of a unit shipped to India would be of the order of \$33,000. This would vary somewhat depending on the type of auxiliary equipment required for the recovery of the helium. This price also would include the shipment of twenty cylinders of helium, plus the services, transportation, and living expenses of our engineer.

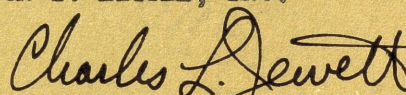
Lastly, but most important, is the question of a defense order priority for materials. Because the present world situation has caused a critical shortage of materials, it is necessary for us to have one of these defense order priorities in order for us to get materials. Do you think it will be possible for you to supply such a defense order priority?

We hope this information is of help to you. We would be glad to try to answer any further questions that you may have.

Very truly yours,

ARTHUR D. LITTLE, INC.

By



Charles L. Jewett  
Mechanical Division

Enclosures  
Air Mail

CLJ:KM

FOREIGN OFFICES:

10. DEVONSHIRE ROW, LONDON E. C. 2.  
8 WEST, 40TH STREET, NEW YORK 18, N.Y.

GRAMS: "ANUSANDHAN"

PHONE: 28232

# TOSHNIWAL BROS. LTD.

DIRECTORS

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G. S. TOSHNIWAL, B.Com. (GENERAL MANAGER); B. P. TOSHNIWAL, B.Sc., (SECRETARY).

198, JAMSHEDJI TATA ROAD, FORT,  
BOMBAY 1.

YOUR REFERENCE

DATED

OUR REFERENCE

DATED

3393 / 53

March 18, 1953.

Prof. K. S. Krishnan, F.R.S.,  
Director,  
National Physical Laboratory,  
Hill Side Road,  
New Delhi - 5.

Dear Prof. Krishnan,

I have been very recently reviewing some of the out-standing dues which we have to receive from some of our esteemed clients and I am rather pained to find that a very small amount has not yet been paid by the Director of National Physical Laboratory. The most surprising part of this small amount is that our Bill is dated the 13th April, 1951 - our reference - Invoice No. 376/51 for the supply of a Zeiss Abbe Aparentometer and the amount is only Rs. 238-9-6. This equipment was specially selected by Dr. Vaidya and we were asked to import it against your order No. 8-NPL/Pur. I(6)/500185.

I find from my office correspondence that approximately 6 reminders were sent for the settlement of this small amount but we have received no replies so far. In my opinion, as far as ~~Physics~~ laboratories as yours are concerned, I personally expect a better cooperation than the one shown in this particular matter. As a matter of fact, it is only when we have such cooperation, we are encouraged to go ahead and try our level best to meet the wishes of our friends. However, if we meet with this type of cooperation, our enthusiasm rapidly wanes and we do not understand where we stand.

Under the circumstances, I request you personally to let me know the exact position in this particular connection. I shall be grateful to have a line in ~~this connection~~ reply.

With kind regards,

Yours sincerely,  
For Toshniwal Bros. Ltd.  
*B. D. Toshniwal*  
Managing Director

GRT:KR.