

Home (1916) Department.
Education

Ordinary SERIES.

G.O. No. 1240

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INDEXED

[Despatch Abstract.]

Dyeing.

Recording papers relating to the proposal
to open technical classes in ----- at Madras and
to transfer Dr. Marsden's headquarters from Madura to
Madras.

BACK PAPERS.

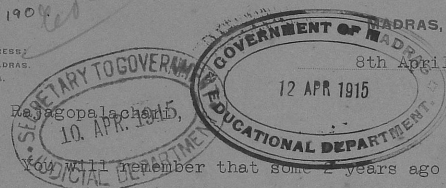
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FURTHER PAPERS.

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D.O. No 190

TELEGRAPHIC ADDRESS:
"CHROMIUM," MADRAS.
POST BOX No. 454.



Dear Mr. Rajagopalachari,

You will remember that some 2 years ago a Tintorial Expert to Government was appointed. Dr. Marsden the officer appointed, was asked to submit proposals and after a preliminary survey of local conditions, suggested that a dyeing school should be started in Madura. I understand that this recommendation was made at the suggestion of Mr. Chatterton.

2. Since that time further experience has been gained and the results of Dr. Marsden's further enquiry make it evident that the position regarding the Dyeing Industry was not in the first instance properly understood. It was apparently thought that dyeing was an Industrial subject whereas it is really a technological one.

3. To make my argument clear I will briefly define my terms. Industrial Education is the practical training of workmen and is essentially a matter of technique: technological education is the training of individuals who are to control but do not necessarily perform industrial operations and is essentially a matter of theory.

4. Now the technique is dyeing, especially in the

case of yarn, is a very simple thing that can be learnt in a fortnight. The real problem of dyeing is to know the action of different dyestuffs and to be able to blend them so as to obtain certain shades. This is purely a question of technology and to be able to understand the theory of dyeing, a man must have attained a very much higher standard of general education than that usually associated with practical work. Dr. Marsden has found - and I agree with him in this - that the minimum educational qualification required is the Matriculation Standard. This is the Standard usually associated with Technological work in this country.

5. Mr. Chatterton appears to have regarded Dyeing as an Industrial subject and his idea seems to have been to train practical workmen. In accordance with this idea he proposed that the Dyeing School should be located at Madura where the largest number of workmen are available. So far as Industrial Education is concerned I entirely concur in the argument that Educational facilities must be localised i.e., provided at the spot when the demand arises. But with regard to Technological Education ^{the} location presents no special advantage as compared with centralisation and

suffers from certain definite disadvantages.

6. The individual who wishes to undergo technological training must be a person of some education and reasonable means. Such individuals are few in number and there are no more men of their type (interested in dyeing) in Madura than in any other centre. If these men are really keen upon improvement they will not be deterred from proceeding to a central place like Madras to receive instruction. On the contrary though the Madura dyer may be somewhat inconvenient, the dyer from other centres such as Salem, Berhampore will prefer Madras not only because it is more central, but also because it is so to speak a "neutral" place, whereas Madura is a hostile one.

7. The next point I wish to lay stress on is the fact that Madura is entirely out of the centre of Departmental activity and that if the Dyeing Expert is to be permanently stationed there he can attend to no other work but dyeing. My frank opinion is that the retention of a comparatively highly paid officer purely for purposes of dyeing instruction is not financially

justifiable under existing conditions. Manchester is the centre of the Textile Industry in England and the Dyeing Department of the School of Technology there is perhaps the best known and most important one in England. When last Home on leave I visited Professor Knecht there and discussed question with him. He told me that it had taken him 20 years or so to work up the Dyeing Department and even now with a recognised position, unlimited raw material to draw on and the closest relations with manufacturers employing dyers, the classes consist of only 14 or 15 pupils. That is all that there is an opening for. In India, where the value of Technological training is less appreciated and there are fewer Factories, the number of similar pupils that will offer themselves for training and the number of openings will certainly be materially less than the figures given and it has taken Professor Knecht 20 years to work up to this point.

8. A simple arithmetic sum will show that the cost of turning out one useful dyer, that is, a man who practices the trade afterwards will be enormous. I do not say that it is not worth it - I think it is - but I do

assert that with the limited funds available an enormously greater and more immediate return may be expected from expenditure in other directions. This being the case I am of opinion that Dyeing as a main and independent item in the industrial programme is, under present conditions not a commercial proposition and does not represent a proper wholetime occupation for a comparatively highly paid expert.

9. Now in connection with the proposals formulated for a Madras Trades School a competent Principal is required and this officer must be a man who not only ^{ses} possesses knowledge and experience of teaching, but also sufficient experience of Industrial work to give a proper character to the teaching. It is a difficult post to fill, more especially in view of the fact that the whole proposal is of an entirely novel character. The Committee recently appointed to consider the question of a Trades School expressed the opinion - in which I concur - that the success of such a school as well as of the proposed Normal Training School, depends entirely on the character of the man in charge. Now I cannot possibly look after the School myself: the Inspector of Industrial Schools will spend most of his time touring and cannot look after it either. We must have a good man and the simplest arrangement and one that meets all requirements, seems to me to appoint Dr. Marsden to

10. The provision I shall make for the dyeing work is to put an Assistant to Dr. Marsden in charge at Madura to look after practical dyeing classes and to transfer the technological classes in dyeing to Madras when Dr. Marsden can look after them himself and attend to the Trades School also. I may add that my scheme involves very little additional expenditure and its financial side is not worth considering. With the object of associating Dr. Marsden with my scheme of Industrial Education I brought him up to Madras to act as Secretary to the Committee. In this capacity he has learnt a good deal about the proposed trades school. There is however still much preliminary work to be done: arranging courses - arranging staff etc., etc., and for this work I must have somebody.

11. I do not care to express officially the opinion on which my recommendation is primarily based - that dyeing is not a whole time occupation for an expert, but if there is no objection I propose to get Dr. Marsden back to Madras when my Code is sanctioned in order to work up the School.

Yours sincerely,

Krus
Dua

The Hon'ble Dewan Bahadur P. Rajagopala Achariar,
Secretary to the Government, Educational
Department, Fort St. George, MADRAS.

Educational Department. 6

When Dr. Marsden was first appointed Dyeing Expert in this Presidency, he was asked to visit the various dyeing centres and to submit a report to the Government on the position of the industry. In this report ~~xxxxxx~~ Dr. Marsden after pointing out the necessity for providing technical instruction in ~~Dying~~ Dyeing wrote as follows in regard to the place at which the institute ~~em~~ could be started:-

"With regard to the location of an institute, the Presidency town offers certain advantages from its central position and the educational institutions to be found there, but these advantages are outweighed, I think, by a consideration of the claims of Madura where the Dyeing industry has made rapid strides and where there is the probability of finding a number of students anxious to take advantage of the training offered and where the institute would be in intimate touch with dyers who appear to be the most progressive in the Presidency".

Mr. Chatterton, to whom the report was referred for remarks, also favoured the idea of establishing an institute to impart instruction in dyeing in Madura. Accordingly the Government fixed Madura as the head quarters of Dr. Marsden and he was asked to carry on experiments in

para 16, page 22 of
S.O. no. 1128 of 9.2.12 (V)

para 6, page 28 of S.O.
no. 1128 of 9.2.12 V

-S.O. 1128-

in a small laboratory with a view later on ^{to} ~~an~~ establish^{ing}

~~the~~ instructional courses in dyeing at the place.

2. Subsequently, when the re-organisation of the --
Madura Technical Institute was sanctioned, the Govern-
ment requested Dr. Marsden to report on the necessity for
the establishment of classes in dyeing in the Institute.
In reply to this, he stated that there was scope for the
imparting ^{of} ~~the~~ instruction in dyeing in Madura ~~the~~ and --
that students admitted to the class should have completed
their high school course. He stated that the course
would include instruction in elementary science, dyeing
materials, technology of textile fibres and dyeing --
processes. These proposals were accepted by the Govern-
ment in G.O.No.725 Edl., dated the 8th August 1913.

3. Pending the construction of a permanent laboratory,
Dr.Marsden held till last year small classes in the ~~brick~~
building hired for his laboratory at Madura. In his --
report for the quarter ending the 4th April 1914 he --
stated as follows:-

"I have brought the class which I formed last year
to a close, having given the young men who attended, a
simple course including the elements of chemistry and
general ~~science~~ science, the nature of vegetable fibres
and their technology and the methods of ~~tying~~ dyeing

para 5, page 34 of G.O. No
6472 Edl (S)
18-7-12

Para 13, page 8 of G.O. No
725 Edl (Z)
8-8-13

page 3 of G.O. No 673 A (N)
6-6-14

the various classes of dyestuffs upon cotton. The interest has been far better maintained than it was in the previous preliminary classes and there is no doubt that, when the institute is erected and the Dyeing Department^W in working order, there will be a demand for the kind of instruction which we shall then be able to give".

Plans and estimates have since been sanctioned for the construction of new buildings for the Madura Technical Institute and these will provide a permanent dyeing laboratory for Dr. Marsden in the Institute.

4. In his D.O. on page 1 supra Mr. Tresler points out that there is no demand for technical instruction in Dyeing in Madura and that what is wanted there is only instruction in the method of dyeing yarn to workmen which can be given in a fortnight and for which the -- services of such a highly-paid expert as ~~Mr. Marsden~~ -- Dr. Marsden are not required. He accordingly suggests that provision for imparting technical instruction in dyeing should be made in Madras where students from all parts of the Presidency may come ^{and} take advantage of the course. In this connection, he states that -- ~~At~~ Dr. Marsden's stay in Madras will have another -- advantage. A Principal

school proposed to be opened at Madras and ~~that~~ ~~Dr. Marsden~~

Dr. Marsden is the best fitted for the post. Mr. Tressler

proposals for the opening of the Trades School are dealt

with in another file. There is no provision made for a

Principal in that connection. As the present proposal

will provide a suitable Principal for the school and as

a dyeing class established in the Presidency town may

attract a larger number of students the proposal of --

Mr. Tresler may, perhaps, be accepted. It will have to

be given effect to only after the Trade School scheme

is sanctioned.

5. So far as Madura is concerned, the present Superin-

tendent of the Institute, Mr. Dunhill, may continue to be

the Superintendent even after the institute is ~~re-~~organised.

The question arises whether there will be any need for

the provision of a big laboratory at Madura for dyeing,

as has been approved in connection with the Madura Tech-

nical Institute scheme. Though there will also be --

practical classes in dyeing in the Institute even after

Dr. Marsden comes to Madras, the laboratory and accommoda-

tion for this class need not be on the scale originally

proposed. A reference to Mr. Tressler may therefore, be

made on this point.

6. Mr. Tressler states that his proposal involves

* This was sent
to Sir for remarks
on 15.6.15

Japu
Ward
order

dyer
Mr. A. B.
one settle

23/6/15

The original proposal
has to make the dyeing
expert the Principal of
the institution.

A

page 6 of 20. on
page 1 supra

very little additional expenditure. As he proposes the appointment of an assistant to teach dyeing in Madura, the cost of the proposal must be ascertained. A reference may perhaps be made on this point also to

Mr. Tresler.

S.K. CR
27/7/15

Pls. take the reports
A and B to Mr
Pentler.

23/6/16

A draft do. is submitted for approval

OK
24.6.16.
CR
27/7/16

28/8

In this case is related
to the Native School
Lahore it was
left back pending exam-
nation of the teachers
proposed in the establishment
of the Native School. The
file relating to the latter
has since been sent
to Mr. Sin. Sept for
remarks.
OK

SK
27/6

Col Deptt.
[CM 1322]

Recd. 1322-1 28/6/15

Dear Fresh.

With reference to your letter No 190, ~~of~~ dated the 8th April 1915, ~~concerning~~ suggesting the transfer of Mr. Marsden's headquarters from Madura to Madras, I am to enquire whether, in case your proposal is approved, there will be any necessity for the provision of a big laboratory ^{at Madras} for dyeing, as has been approved in connection with the scheme for the construction of new buildings for the Madras Technical Institute. I am also to ask what ^{the} approximate cost of your proposal to employ an assistant to look after practical dyeing classes in Madras.

Noted in CB

28.6.15

H. T. B. Fresh.

S. G.

28/6/15

24.6.15 CR
25/6/15

8 / C.N. 241988
12. 7. 5

D.O.

TELEGRAPHIC
"CHROMIUM"
POST BOX



12 JUL 1915 9th July 1915.

Dear Mr. A. A. Acharya

page 7 super

Your D. O. of the 29th ultimo reached my Office when I was in camp--and seems to have been mislaid. I have only just got it.

In reply I have to explain that a Laboratory will be necessary in Madura even if there is only Industrial dyeing teaching there, though the apparatus required will be simpler than for technological work. Such better apparatus as is not required may be sent to Madras. A chemical laboratory I regard as a necessity for all institutions where chemical science is taught, even in its most elementary form.

In Madura there is also provision for a dye-house. This dye-house is required in connection with the Industrial teaching and must therefore remain in any case.

The appointment of an Assistant to Dr. Marsden on Rs. 100/- proposed in my No. 117-G dated 4-6-14 but Government in their Order No. 1191 Edl., dated 22-10-14 confined their sanction to the establishment needed for immediate requirements.

*prop. Rs. 100/-
part 16 of
No. 1191
22/10/14*

82

As I have explained in an official letter, *Separate file about the school*
Mr. Guthrie's departure for the front has necessitated my bringing up Dr. Marsden to Madras now.

Yours sincerely,

[Signature]
gm

[Signature]
gm

The Hon'ble Diwan Bahadur P. Rajagopala Achariyar,
Secretary to Government, Educational Department,
Stone House Hill, Ootacamund.

13
Est. Department.

Please see notes on pages 1 to 6 and Mr. Treacher's letter on page 8 supra. The proposal to transfer Dr. Narayan from Madras to Madras ^{dealt with in this file} connected with the scheme for the establishment of a trades school in Madras. ~~Enclosed~~ In the file relating to the latter a reference has been made to Mr. Treacher for further particulars. It is submitted that this file may lie over till Mr. Treacher's reply to that reference is received. This file will be linked to the main file regarding the Madras Trades School when the latter is submitted for orders.

OK
 20.7.15. CR
 20.7.15

Very well

28
 20.7.15

* linked

(After issue of the reference the papers have been sent to Press for printing.)
 SK
 20.7.15

14
Mr. Dinsley proposes the employment of an assistant on Rios in Madura in case the Dyeing ^(Expert) is transferred to Madura. Apparently this will be necessary only when the new buildings for the Madura Technical Institute, the construction of which has recently been begun are completed. Dr. Marsden has stated that the classes at Madura would have to be closed till the new buildings are ready. The employment of an assistant need not, it is submitted, be sanctioned now.

2. If Dr. Marsden should hold classes in Dyeing at Madras it may be necessary to provide the necessary laboratory for him there. Mr. Dinsley states that such better apparatus as is not required at Madura may be sent to Madras the rest being retained at the former place. He has not furnished any estimate of the expenditure involved in fitting up a Dyeing laboratory at Madura & it seems doubtful if the estimate in the linked file includes the cost of the laboratory. If the Madras Trades School is to have only the Mechanical section to begin with, there may be

page 3 of 6. 673A (N)
1.6.14

page 8 supra.

be any necessity to incur expenditure on the Dyeing Laboratory at present and also for the transfer of Dr. Marsden himself to Madras.

SK

(This file may be dispensed
of after orders have
been issued on the linked
file above.)

For the Under Secretary.

This file was till recently linked with the file regarding the establishment of the Madras Trades School. Orders on the latter have been issued in G.O.No.1092, Home (Education), dated the 17th October 1916. Mr. Tressler's original scheme for the establishment of the school has been abandoned and in its place the Government have sanctioned the opening of classes in plumbing and mechanical engineering ^{for the benefit of} working artisans. The proposal in this file is that the dyeing classes should be opened in Madras and that Dr. Marsden's headquarters should be transferred from Madura to Madras. His Excellency the Governor has declined to accept the proposal to change Dr. Marsden's headquarters. A dyeing laboratory is now being constructed at Madura.

Please see p.23 of
Notes G.O. 1092
17.10.16 (G)

2. It has recently been decided that Mr. Fyfe should be in charge of the Madras Trades School. The experiments in the Punalur Paper Mill have been discontinued and, in connection with Mr. Narayana murti's deputation to study the methods in glass making in other provinces, Mr. Innes stated that Dr. Marsden would be temporarily in charge of the experiments conducted in the local glass factory. When the tinctorial laboratory ^(now) under construction in Madura is completed, Dr. Marsden will have to ~~be~~ back to Madura to be in charge of the laboratory.

3. In these circumstances no further action need be taken on this file and the papers may, it is submitted, be recorded.

SK
22.11.16.
MB
22.11.16

S.
Ech
23.11.16
24/11



READ AGAIN G.O. No. 1148, dated 191.

SA
15.11.18
MK
22/11/18

~~20/24/14~~

(1911) Home

Copy

Library paper relating
to the proposed to open
technical classes in
at the ... to be ...
... ..

12/1/11
21/1/11

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When signed

191

READ AGAIN G.O. No. 191 DATED

CURRENT No.

REFERENCE TO C. No.

ORDER OF GOVERNMENT

LETTER OF GOVERNMENT

STATEMENT WITH DITTO

PAPERS NOT FILED UP, BEING MEANT FOR DESPATCH
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