

Government of Madras.

EDUCATIONAL DEPARTMENT.

Recd.

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} 1912.

Enclosures

Spare copies

G.O. No. 257, 20th March 1912.

Laboratory for the Dyeing Expert.

Directing that Dr. Marsden should lease the old English Club at Madura and that the Superintendent of Industrial Education should prepare estimates for the temporary accommodation, if necessary, of the Technical Institute at Madura.

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GOVERNMENT OF MADRAS.

EDUCATIONAL DEPARTMENT.

READ—the following papers :—

I

G.O. No. 112, Educational, dated 9th February 1912.

ABSTRACT.—Passing orders on the report of Dr. Marsden regarding the state of dyeing industry in Southern India.

II

Letter—from K. T. B. TRESSLER, Esq., Acting Superintendent of Industrial Education.

To—the Director of Public Instruction.

Dated—Madras, the 30th December 1911

No.—96 G.

In connection with the Madura proposals, I have the honour to state that plans for a new institute at Madura were submitted by this office in April 1911. These included—

	RS.
A central building	44,000
A mechanical school	47,500
Machinery	68,500
A weaving school	40,800
Machinery	16,000
A dye house and plant	42,000
Hostel	41,200
Total	3,00,000

These buildings were to be situated on what may be called *block A*. Plans were also submitted for the construction of quarters for the staff on another site, which may be called *block B*. The amount allowed for these buildings was Rs. 30,000. Land schedules were also prepared by the Revenue officer for the acquisition of the two blocks at a cost of Rs. 12,739 and Rs. 2,642-2 respectively. The acquisition of this land has not yet been notified, but, as there are no buildings thereon, I believe I am correct in stating that arrangements could be made to secure possession almost immediately after the notification.

So far no orders have been passed on these proposals. Though I am aware that a scheme of the character contemplated is one that cannot be sanctioned without careful scrutiny, yet I venture to submit that the position is one which calls for early action.

2. As you are aware, the Bank of Madras have made an offer of Rs. 30,000 for the site of the present institute after such buildings, etc., as may be useful to Government have been removed, subject to the condition that the premises are handed over before June 30th, 1912. Mr. Chatterton on 13th October in reporting that the offer made is worth accepting has stated that, if the proposals for the new institute were approved, it would be possible to transfer two or three sheds in January or February to the new site, and so vacate the old building before the date mentioned. He further remarks that "there will be no objection to carrying on the work in temporary sheds till the end of next year, which would give ample time for them to build new premises."

It is clear that the Bank cannot afford to wait indefinitely for a site, and, unless some arrangement regarding a move is immediately arrived at, their offer will probably lapse. A certainty will be sacrificed for a contingency which, at any rate, so far as the sum realised is concerned, must in the case of other purchasers be regarded as remote.

3. As regards the institute itself, the prospect of a change necessitates certain modifications of policy which would not ordinarily be adopted, and which, if continued for an unduly prolonged period, are bound to react unfavourably on the working of the institute. During the past year, work has been carried on under the greatest difficulties and, as time passes, these difficulties become accentuated.

4. Further, the present institute premises are in a very bad state of repair. The Superintendent has repeatedly drawn my attention to extensive defects, which really require immediate attention. So far, in anticipation of an early move, I have not taken any steps to effect repairs, but unless orders are received shortly, I shall be compelled to spend considerable sum on repairs, the whole of which expenditure must be regarded as sheer waste.

5. And now Dr. Marsden proposes to start dyeing work on a small scale. The only premises he can find are situated at the extreme western limits of Madura: as unsuitable a site as it is possible to think of. The beginning of a work on a site differing from that on which it is ultimately carried on involves difficulties of all kinds, and what is more, the selection of temporary quarters in preference to taking the first steps towards carrying out the permanent proposals put forward cannot fail to induce in the mind of the public a feeling that the work now being undertaken is of an ephemeral character.

6. In order to meet these difficulties it is not necessary that the proposals submitted should be sanctioned *in toto*. To begin with, it will be quite sufficient if block A is acquired, and a comparatively small grant made towards putting up such buildings as may be absolutely necessary. For the time being, for instance, the staff can make their own arrangements for accommodation, and block B and the buildings thereon may be allowed to stand over. Then again, the weaving shed and the central buildings may be left for construction later on. So long as the details of the new institute are under consideration, no new plant need be purchased and the proposed hostel may be left out of account. Nor yet need the new mechanical school be completely erected: an expenditure of Rs. 20,000 would probably cover quite as much of the proposed building as will be necessary to enable work to be carried on. As regards the Tinctorial Laboratory, the construction of two rooms will give Dr. Marsden all the accommodation he requires at present. Rs. 10,000 will amply cover this. So that, apart from the cost of the land, the expenditure of the sale-proceeds from the present site on partial construction on the new site will provide sufficient accommodation for carrying on the work, and will give it a fair start.

7. My suggestion, if immediately approved, would not in any way delay Dr. Marsden's work since he must, in any case, wait until the stores now being indented for are received from Europe, by which time I should expect to have sufficient accommodation ready for him.

What with the Bank offer threatening to lapse, the effect on the working of the institute of the present uncertainty regarding the future, the existing buildings falling into disrepair and the necessity for beginning dyeing work at once, I venture to submit that the point I have raised is one that calls for very early decision and I earnestly hope it will be possible to pass orders thereon at an early date. All that is required now is the immediate acquisition of block A at a cost of Rs. 12,739 and the sanction of, say, Rs. 15,000 this year and the same amount next year towards the construction of the buildings required, plans for which have been submitted.

III

Letter—from K. T. B. TRESSLER, Esq., Acting Superintendent of Industrial Education.

To—the Director of Public Instruction.

Dated—Madras, the 30th December 1911.

No.—203 I.

In forwarding herewith Dr. Marsden's report No. 1339, dated 26th December 1911, and detailed estimate, I have the honour to state that the cost as estimated by Dr. Marsden amounts to Rs. 4,470 excluding packing and freight. If these items are added, the total will reach about Rs. 5,000—the figure given by Mr. Chatterton.

2. If no other arrangements can be made, the old English Club buildings referred to by Dr. Marsden may be hired as a temporary laboratory. In connection with this point I would, however, invite attention to my letter No. 96 G., dated to-day, sent herewith.

ENCLOSURE.

Letter—from F. MARSDEN, Esq., Ph.D., M.Sc., Tinctorial Expert, Madura.
To—the Director of Public Instruction (through the Superintendent of Industrial Education, Madras).
Dated—the 26th December 1911.
No.—1339.

I have to report that upon my arrival in Madura, I took steps to discuss with the dyers here the means which might be taken to assist the industry, and also to ascertain what buildings, suitable to the end in view, were available.

After consultation with Mr. L. K. Tulsiram, B.A., B.L., I arranged for a meeting of the people engaged in the trade, and this was attended by about 30 people. I placed the position before them (Mr. Tulsiram translating) and they afterwards had a little discussion among themselves, at the conclusion of which I was informed that it was the unanimous opinion that a Tinctorial Laboratory to which they could come for information would be most helpful and further that a school in which the young men could receive instruction in the principles of dyeing would be most desirable.

I had rather dwelt upon the scope of the work which could be carried out in a consulting laboratory in the way of making tests and trials, also upon the extent of the information upon points which arose in the practical working of the processes in which they were engaged which would be thus obtained, and they appeared to be pleased at the possibility of such a laboratory being started here.

The general type of building in Madura does not lend itself to the purposes of a laboratory, but the chambers attached to the old English Club on the Rāmnād Road are still intact and would serve the purpose very well. The ground was purchased for use in connection with a dyeing factory (which since has been removed) and the chambers were used as a store-house for yarn; the verandah on the north side was walled in, and the room thus formed served as a storage place for dyes and chemicals. The main room is well lighted and ventilated and the building altogether is in a good state of repair.

I enclose a rough plan from which it will be seen that as regards size and arrangement of the rooms, little better could be expected in a building not specially erected for the purpose, and as there is a pipe from the municipal water-supply close to, connections could be made and water laid on inside the building at very little expense.

The rental demanded by the owner is Rs. 50 per month (including about half an acre of ground between the building and the road) or Rs. 45 on an annual lease, the owner stating that he would not consider the question of letting the building for less than a 12 months' period.

I estimate the cost of fitting up the building to serve as a laboratory to be:—

	RS.
(1) Benches with drawers, and shelving for storing apparatus and chemicals.	1,050
(2) Office furniture	450
(3) Cost of apparatus (as per enclosed list)	2,460
(4) " " chemicals (" " ")	510
(Packing and freight on (3) and (4) not included)	
Total ..	4,470

With respect to the future I thought it advisable to make enquiries as to the capacity of the dyeing community for improvement, and find that it is apparently fully alive to the necessity for education. In the Sourastra High School I find that in the higher forms the instruction is mainly given through the medium of English

and that Chemistry and Elementary Science are compulsory subjects in the curriculum. It is also a rule among the leading members of the community that their daughters shall not be given in marriage to anybody who is not educated and has not a good knowledge of English, and from this, I think that there would be no difficulty in obtaining a steady flow of capable students, directly interested in taking full advantage of the instruction which could be given in a dyeing and textile school.

To meet the immediate requirements of the dyers, however, I would suggest that the building on the Rāmnād Road be rented and fitted up as a laboratory, that I may have the means at command of making the tests and trials necessary to permit of my giving advice upon questions submitted to me. I have already been called upon to give an opinion upon certain matters, and although the general information I was able to give has been acknowledged to have been useful, and assisted the dyer to improve his work, I would have been better pleased had I been able to make my own trials beforehand, and been able to base my opinion upon the specific results obtained.

N. Ref. on Cur. No. 417/11, dated 23rd February 1912.

Submitted to Government in continuation of this office letter, Ref. on Cur. No. 6041/11, dated 8th January 1912.

2. The instructions contained in G.O. No. 112, Educational, dated 9th February 1912, are being communicated to the Superintendent of Industrial Education for information and guidance. Meanwhile, orders are requested as to whether the Superintendent's proposal contained in paragraph 6 of his letter No. 96-G., dated 30th December 1911, meets with the approval of Government and, if not, whether Dr. Marsden may be permitted to hire the rooms in the old English Club on the Rāmnād Road referred to in his letter.

3. The indent for stores referred to in paragraph 7 of Mr. Tressler's letter No. 96-G., dated 30th December 1911, has been returned for being printed.

A. G. BOURNE,
Director of Public Instruction.

Order—No. 257, Educational, dated 20th March 1912.

Dr. Marsden should be instructed to take the old English Club on lease at the monthly rate of Rs. 45 for a period not exceeding one year in the first instance. The Government consider it premature to construct permanent buildings at this stage.

2. It is necessary, however, to provide for the contingency of an early transfer of the premises now utilized for the Madura Technical Institute, and to that end the Superintendent of Industrial Education should prepare estimates for temporary accommodation of the character contemplated in Mr. Chatterton's demi-official letter of the 13th October 1911.

(True Extract.)

L. DAVIDSON,
Ag. Secretary to Government.

To the Director of Public Instruction.

EDUCATIONAL DEPARTMENT.

NOTES CONNECTED WITH G.O. No. 257, EDUCATIONAL,
DATED 20TH MARCH 1912.

(SUBJECT.—*Laboratory for the Dyeing Expert.*)

Demi-official—from Dr. F. MARSDEN, Tinctorial Expert, Technical Institute,
Madura.

To—the Hon'ble Mr. L. DAVIDSON, I.C.S., Acting Secretary to Government,
Educational Department.

Dated—the 20th February 1912.

I was pleased to hear through your demi-official of the 9th that orders were being issued on that date with regard to the initial stage of my work here, as it opened out the prospect of having something definite to do. I did not reply to it at once, preferring to wait until I had seen the exact terms of the order, but as there appears to be some little delay in forwarding this, I think it better to take note of the latter part of your letter at once and avoid any charge of dilatoriness being made against me.

With respect to your remarks upon the expert tinctorial chemist active in Bombay, I had heard of Dr. Gugger before I went up there in July last, and made enquiries about him. I gathered that he was now somewhat advanced in years, that he had had a laboratory in which he trained students for laboratory work but that he had not found it remunerative and had left Bombay, his address not being known.

Most of the advisory work with respect to dyestuffs is done by the continental colour firms in the laboratories attached to their offices, the European chemists in charge having Indian youths as assistants who are, as occasion arises, found places in the mills.

The chief work in the laboratories consists in matching shades which have been obtained with the dyestuffs of competing firms and demonstrating how the same effects may be obtained with the dyestuffs of the firm in question, but the services of the chemists are always at the disposal of the mills to assist in elucidating the cause of, and removing any trouble which may arise in the dyeing and printing sections. Still the main object of these laboratories is to serve the interests of the colour firms. During my visit to Bombay I got into touch with the agents and chemists and do not think that any useful purpose would be served by making another visit there at present.

Hoping that, when the time arrives, we shall be able to do some useful work down here.

From the Director of Public Instruction, dated 23rd February 1912, No. 417/11.

In G.O. No. 112, Educational, dated 9th February 1912, Dr. Marsden was ordered to confine himself to detailed study of the existing methods of dyeing with a view to practical demonstration of minor improvements in the industrial process now in vogue and for this purpose a sum of Rs. 5,000 was placed at his disposal for renting a house and for purchasing the necessary apparatus, furniture, chemicals and dyestuffs, etc. Before that order reached him, Dr. Marsden had proposed to rent the old English Club buildings situated on the Rāmnād Road and to fit it up as a laboratory. The Superintendent of Industrial Education (Mr. Tressler), through whom the correspondence has passed, considers the site of the building to be utterly unsuitable as it is situated at the extreme western limits of Madura, different from the place where Dr. Marsden's work will ultimately be carried on. He accordingly advocates the immediate construction, on the site now acquired for the Technical Institute, of two rooms at a cost of Rs. 10,000 to serve as a tinctorial laboratory for Dr. Marsden in addition to Rs. 20,000 required for what is immediately required for the Institute.

2. The Director of Public Instruction enquires whether the proposal of Mr. Tressler meets with the approval of Government or whether Dr. Marsden may be permitted to hire the old English Club buildings on the Rāmnād Road.

3. The site selected by Mr. Chatterton for the Madura Technical Institute has already been acquired—*vide* G.O. No. 309 W., dated 24th February 1912. But the Honourable Member has not approved Mr. Chatterton's scheme for the reorganization of the Madura Technical Institute in *toto*. He has decided that the idea

of starting mechanical engineering classes at the Institute should be dropped at present and that provision should be made for industrial education in (1) weaving, (2) carpentry and (3) blacksmith's work only. Thus modified, the scheme for the re-organization of the Madura Technical Institute will not require such expensive machinery nor such large buildings as those proposed by Mr. Chatterton in his letter, dated 26th April 1911, and in view of this fact the Honourable Member has directed that an estimate should be worked out afresh to show the cost of the modified scheme, care being taken that space is left on the ground for future expansion and that the buildings are designed to allow for development.

4. In these circumstances, it seems inadvisable, before a complete plan of the buildings to be put up on the site newly acquired for the Technical Institute has been drawn up, to construct any rooms for the use of Dr. Marsden. His proposal to rent the old English Club buildings may therefore be approved. The owner of the buildings demands a rent of Rs. 50 per month or Rs. 45, if taken on an annual lease. The buildings may, it is submitted, be rented on an annual lease.

T.K.—13-3-12.

In his demi-official, dated 13th October 1911, Mr. Chatterton suggested that on the sale of the present Technical Institute site temporary sheds might be erected on the new site to carry on the work of the school till new buildings are constructed. Mr. Marsden's work cannot go on in such sheds seeing that he has chemicals and other combustibles to deal with. Moreover the site has not yet been sold. He should have a pukka building and until the plans and estimates ordered by Honourable Member are got ready, he may be permitted to rent the house suggested by him. Under G.O. No. 217, Financial, dated 18th May 1908, the Director of Public Instruction is competent to sanction house-rent up to Rs. 100 *per mensem* and he will sanction the rent if Dr. Marsden's proposal is approved.

In regard to buildings for the Institute for which Mr. Tressler wants Rs. 20,000, the school may, it is submitted, continue where it is until the present site has been sold, when he may carry on the work in temporary sheds as suggested by Mr. Chatterton.

If, however, Mr. Tressler's suggestions are accepted, there will, it is feared, be delay. Plans and estimates will have to be prepared and funds will have to be found.

R. SUNDARAM AIYAR—13-3-12.

The acquisition of the new sites at Madura has been sanctioned and the acquisition should now be in progress.

1. The Bank has just been offered the present site subject to ground-rent at Rs. 12½ per acre for Rs. 30,000, but has not yet replied.

3. Dr. Marsden describes the old club house as suitable for his purposes. I would let him rent it: the Director of Public Instruction can sanction the rate proposed—Rs. 45 *per mensem* for one year.

Sanction this at once for one year.

Yes.

M. H[AMMICK].

home, benches and other office furniture may be put in hand.

4. The Bank will probably buy the site and ask for early possession. We ought therefore to go ahead with plans to "carry on". Mr. Tressler may be asked for detailed proposals for the temporary accommodation necessary. At the present stage I don't think it would be safe to attempt permanent buildings.

I agree.

M. H[AMMICK].

While the chemicals are coming out from

L. DAVIDSON—14-3-12.

A draft is submitted for approval.

R. SUNDARAM AIYAR—17-3-12.

Issue as re-written.

L. DAVIDSON—19-3-12.

[G.O. No. 257, Educational, dated 20th March 1912.]

[L. & M.]
95
5,000-5-1-09.

LOCAL AND MUNICIPAL DEPARTMENT.

Papers to be read in Proceedings:—

Again G.O., No. 112, dated

8-2

1902.

Again G.O., No. , dated

190 .

Current No. 606 From the

DP.

, No 417, dated 23-2-1902

" " " " " " " " " " " "

" " " " " " " " " " " "

ORDER. No. 257, dated 20-3-1902.

P.S.

not for E.T.

at the monthly rate of
Rs. 45.

Leesh. today
7/11
20-3-12

See official letter of the
13th October '11.
DP 1. 21/3/12 L.D.
19.3.12

Dr. Marsden should be in-
-structed to take the old
English club on lease for a
period not exceeding one year
in the first instance. He should
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now utilized for the Madura
Technical Institute, and
to that end the Dept. of
Industrial Education should
prepare estimates for temporary
accommodation of the character
contemplated in W. Chatterton's

EDUCATIONAL DEPARTMENT.

Current No., dated 190 .

G.O., No. 257, dated 20. 3. 1912.Number of MS. pages sent { Correspondence including order or orders
(b)
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