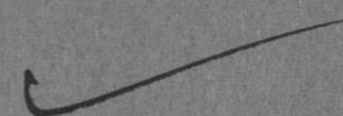


Eol (1915) Department.

*His* SERIES.

G.O. No. 383

DATED 9-4-15

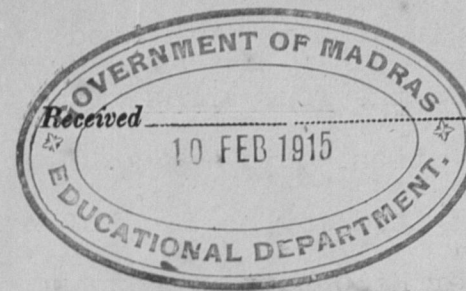


Madras Leather Trade School [Despatch Abstract.]  
Recording letter from the Director  
of Industries regarding the electric  
installation of the Madras Leather  
Trade School.



✓ *Col. No. 499* C.F.-31

DEPARTMENT.



191

Registered

*10. 2*

1915.

Subject.

SUBMITTING PROPOSALS REGARDING AN INDEPENDENT ELECTRIC  
INSTALLATION FOR THE MADRAS LEATHER TRADE SCHOOL.

ENCLOSURES.

No.

No.

*E 3*

Spare copies

Station M A D R A S ., Dated the 9TH FEBRUARY 1915.

From (Name) K. T. B. TRESSLER ESQ.,

(Designation) AG. DIRECTOR OF INDUSTRIES.

To The SECRETARY TO THE GOVERNMENT OF MADRAS,  
EDUCATIONAL DEPARTMENT.

Sir,

I have the honour to inform you that the Leather Trade School is complete except for the installation of the machinery as this has arrived late. The estimate provides for an electric drive for the machinery and the matter was discussed unofficially with the Supply Corporation. It was then understood that the Supply Corporation had a main running along the Tiruvottiur High Road. On an estimate being called for, it appears that they propose to connect me up to a pillar several hundred feet short of the Tiruvottiur High Road and the estimate for connections amounting to approximately Rs. 2,500.

*Estimate am't to  
Rs 35,500 sanctioned  
in force 531-487-3-14-15*

*SK*



2 The average load on the Tannery to begin with is estimated at about 5 H. P. or say, 500 units a month. On the four annas rate, the power charges payable to the Supply Corporation would be Rs.125 per mensem or Rs. 1500 per annum. The maximum load may be 10 Kilo Watt of and on the power rate namely Rs.6/- per Kilo Watt of maximum demand plus an anna a unit, the monthly power charges will come to just over Rs.90, or say Rs.1100 per annum. Whether we receive power from the main or generate it ourselves, the cost of switch-board and wiring up is the same. The capital cost of a 15 Kilo Watt plant will be about Rs.3500 plus say Rs.500 for line wire, so that the capital cost of independent installation exceeds the cost of the main connections by about Rs.1500/-

3 Government have called upon me to submit proposals for a Mechanical Trade School at Washermanpet. If this school is started it will be necessary to provide power, which I estimate at an average of 12 H. P. and maximum of 20 for 2 hours a morning: say 480 H. P. hours or 350 units a month. On the power rate the charge for a mains supply will be about Rs. 145: on the 4 anna rate Rs. 90/-

4 A qualified Maistry to look after the mechanical plant will have to be provided and this individual can, without further expense, look after the power plant also. The only establishment required in connection with the departmental plant is an oiler on Rs. 20/- a month. The cost of generating power, will then amount to not more than half anna a unit.

5 Hence taking the tannery only, the relative charges are:-

| Mains.  |                   | Independent supply. |                   |
|---------|-------------------|---------------------|-------------------|
| Capital | Annual recurring. | Capital             | Annual recurring. |
| 2,500   | 1,100             | 4,000               | 440               |

Taking the Tannery and Mechanical School together the charges are approximately.

| Mains.  |                   | Independent supply. |                   |
|---------|-------------------|---------------------|-------------------|
| Capital | Annual recurring. | Capital             | Annual recurring. |
| 3,000   | 2,200             | 5,000               | 580               |

If now we connect up to the mains it will cost Rs.2,500 and when the time for the Mechanical School comes we shall be faced with the alternative of either paying Rs. 2,200/- annually for power or investing a further Rs. 4,000 in plant, bringing the total up to Rs. 6,500/-

6. For these reasons I do not propose to connect up the Tannery to the mains at present. When and if the Mechanical School is sanctioned, I shall put down a combined plant for the whole scheme and meantime I shall fit up the Tannery with the electric fittings sanctioned and drive them by means of a Departmental Engine.

I have the honour to be,

Sir,

Your most obedient servant,

*R.K.N.*

Ag. Director of Industries.

R.K.N.



Office. *Prd*

Enclosures.

Despatch No. *55/146-1 d 24.2.15*

When given to fair-copying

Fair copied by

Fair copy compared by

When despatched

Register No. *55/146/1 dated 19/5*

From *The Director of Industries N.E. 3 2/2*

Subject.

*Electric installation for the  
Madras Leather ~~and~~ School  
Submitting proposals re: an  
independent*

To

*THE*

*Memo*

*Forwarded to the  
Electrical Inspector for  
early remarks.*

*Luc 15  
23.2.15  
He 15  
23/2 23.2.15*

*He 15  
24.2.15*

*for W*

*To The Electrical Inspector  
with the current in  
original to be ret.  
with reply*

*Id - Revised in a month*

*26/2/15*



OFFICE OF THE ELECTRIC INSPECTOR TO THE  
GOVERNMENT OF MADRAS,

Chepauk, Madras,

Dated 6th March 1915.

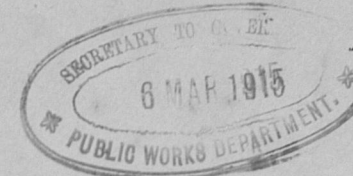
PUBLIC WORKS DEPARTMENT

No.

380

C. NO. 749 W. K. S. B.

DATE, 8-3-1915 From



E. J. B. GREENWOOD, Esq., B.Sc., A.M.I.E.E.,

ELECTRIC INSPECTOR TO THE

GOVERNMENT OF MADRAS,

To

The Joint Secretary to Government,

Public Works Department,

Madras.

SIR.

With reference to the Director of Industries' letter No. E-3 dated 9th February 1915 on the subject of the proposed independent electric installation for the Madras Leather School, forwarded with your Memorandum No. 551 Wks/B-1 dated 24th February 1915, I have the honour to remark as follows:- *page 4 ante*

*2* In connection with the electric lighting in H-1 Police Station on Tiruvottiyur High Road, the Superintending Engineer V Circle is making a canvass of the residents along that road with a view to requisitioning the Supply Corporation to lay distributing mains. The probable requirements of the Leather School are being included in that canvass. If the canvass is successful, and this will be decided in three to four weeks' time, the heavy cost of Rs. 2500 mentioned by the Director of Industries for electric connection will be reduced to about Rs. 150 or Rs. 200 for a short service connection.

*3* Considering the proposal for an independent generating plant, for the Leather School alone the following figures prove that such an expenditure is financially not sound.

| Capital cost.                    | Annual recurring charges |
|----------------------------------|--------------------------|
| Mains supply Rs. 200 or Rs. 2500 | Rs. 1335                 |
| Independent supply Rs. 4830      | Rs. 1269                 |
|                                  | Rs. 66                   |

Enclosures:--

*1 letter*  
*1 cover*  
*1 file*

*2/3*  
*2/3*  
*2/3*

*2/3*  
*2/3*  
*2/3*

*Wks/B-1 24/2/15*  
*Wks/B-1 26/2/15*



By installing an independent plant therefore for the Leather School alone there is a small annual saving of Rs.66, but against this must be set

- (a) the increased capital outlay
- (b) the cost of the additional building space required
- (c) the increased operating burden
- (d) the liability to break down and the delay during repair of the single unit of plant; this is not serious as good facilities exist in Madras for repair work.

4/ Considering the proposal for an independent generating plant for both the existing Leather School and the proposed Mechanical Trades School, it is found that, owing to the plant in the <sup>Latter</sup> ~~Leather~~ School being so little used that it would be cheaper to pay for <sup>the energy</sup> ~~at~~ the lighting rate of 4 annas per unit, the erection of an independent plant is an economy over taking a supply from the public mains.

|                    | Capital cost      | Annual recurring charges. |
|--------------------|-------------------|---------------------------|
| Mains supply       | Rs.200 or Rs.2500 | Rs.2385                   |
| Independent supply | Rs.8270.          | Rs.1597                   |
|                    | Rs.8070 or 5770   | Rs.788                    |

The annual saving of Rs.788 or an increased outlay of Rs.8070 or Rs.5770 should be considered sufficient to warrant the expenditure on an independent plant. This saving is obtained after allowing for depreciation but not for interest, which on Rs.8070 (or Rs.5770) at  $3\frac{1}{2}\%$  is Rs.282 (or Rs.202).

5/ Summarizing, whatever the result of the canvass referred to above, the Leather School alone should <sup>not</sup> be equipped with an independent plant. If however the proposed Mechanical Trades School will be sanctioned and built at an early date, an independent plant may be sanctioned now to ultimately supply both schools.

6/ ~~See~~ A statement showing the details of <sup>my</sup> ~~the~~ calculations.



12  
-5- 1

108 info

calculations made in correction with the above figures *is attached.*

7 The letter under reference from the Director of Industries is returned herewith.

I have the honour to be,  
Sir,  
Your most obedient servant,

E. B. Greenwood  
-6.3.15-  
Electric Inspector.  
c



8

8

DETAILS OF CALCULATIONS.

LEATHER SCHOOL:-

The Director of Industries took Rs.6 instead of Rs.8.

Main Supply

Average 5 H.P.-Maximum 10 K.W.-500 units a month.

Annual charges (Rs.8 per K.W.ore) Rs.1335 to M.E.S.C. anna per unit.

Independent Plant

17 B.H.P.engine, 10 K.W. dynamo, switch-board, cables and erection Rs.4830.

Annual recurring charges.

6000 units at 1.2 annas - fuel oil - Rs. 450

Lubricating Oil and miscellaneous stores. ,, 96

Repairs and renewals 2% } on 4830 ,, 303

Depreciation 5% ,, 420

Establishment at Rs.35. ,, 420

Rs. 1269

LEATHER SCHOOL AND MECHANIC TRADES SCHOOL.

Main Supply.

Leather School 10 K.W. maximum, 6000 units a year. Rs.1335.

Mechanic Trades School, 15 K.W. max, Rs.1050

12 H average ~~units~~, 4200 units a year. Rs.2385.

Independent Plant.

Capital Cost, 35 B.H.P. engine, 22½ K.W. } Rs.8270 dynamo, switchboard, cables and erection

Annual recurring charges.

10200 units at .9 annas - fuel oil Rs. 573

Lubricating oil and miscellaneous stores. Rs. 120

Repairs and renewals 2% } on 7720 Rs. 540

Depreciation 5% ,, 420

Establishment at Rs. 35 Rs. 420

Rs.1653

6-3-15.

6.3.15



Again G.O. No. , dated 191 .  
Current No. from the , No. , dated 191 .  
Current No. 499 from the D. I. , No. E. 3 , dated 9. 2. 1915.

SUBJECT.

Electric installation of the Leather  
Trade School, Madras.

Mr. Dresser considers that it is not economical to connect the Leather Trade School which has been constructed with ~~the~~ <sup>the</sup> Electric Supply Corporation's mains for electric installation, but that a separate power plant may be set up for this School as well as for the Mechanical Engineering Schools, which the Govt propose to locate by its side. It is not known whether Mr. Dresser's proposal is really economical. Recently he wanted to set up a separate electric drive for his own office; but the Supdt. Public Works Workshops advised against the putting up of ~~any~~ such plant for small outposts & the proposal was <sup>accordingly</sup> negative. The present case too is apparently open

for Mr. Dresser's  
4. 7. 14 (A)

Mr. Parice's note  
at (A)



10

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page 1 of 4

open to the objection pointed out by the Supdt. But Mr. Tressler does not now ask for sanction for the purchase of any plant. He states that the estimate for machinery for the Leather Trade School <sup>already</sup> provides for an electric drive. The machinery has been ~~was~~ obtained & it is not known whether the drive has also been purchased with it. As, however, he does not now ask for sanction to the purchase of any fresh plant, the current map perhaps be recorded after the P.W.D. have seen it.

8K CA  
16.2.15 16.2.15

With the P.W.D. please advise?

*[Signature]*

PUBLIC WORKS DEPARTMENT

C. No. 551 W.R.S.

DATE, 19.2.1915.



P.W.D. Uo

Volus 499-1

19/2/15

28

The remarks of the Electrical Inspector may perhaps be invited on the proposal of the Director of Industries. Draft memo is accordingly submitted.

Lee  
23.2.15  
23/2 23.2.15

24.2.15

P.T.O.

The remarks of the Electrical Inspector may perhaps be invited on the proposal of the Director of Industries. Draft memo is accordingly submitted.

6/2

28

P.T.O.



page 4 CF Memo to the Electrical Inspector No 551. Wt/B-1 d 24-2-12  
pp 5-7. Letter from                      to                      No 380 d 6-5-15

DL

The Electrical Inspector's remarks on the proposals of the Director of Industries will be found at pages 5.7 CF.

2 It will be seen from para 5 of his letter (p. 6 CF) that the <sup>Electrical Inspector</sup> is not in favour of installing an independent plant for the leather school alone. The question of an independent source of supply may therefore perhaps be considered after the proposed Mechanical Trades School has been constructed & its <sup>exact</sup> demand known. Meanwhile the proposal of the Director in para 6 of his letter (page 3 CF) may perhaps be agreed to.

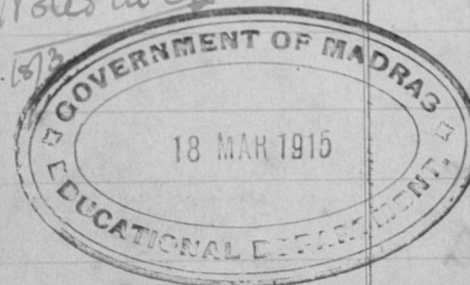
3 With these remarks the file may be returned to Judicial. Educational

lce 11.3.15  
ple 13.3.15  
12/3

17.3.15

P.W. 551 Wt/B-2 Edl u.o.  
17-3-15

Notes in CF





Educational Department.

Please see the Electrical Inspector's letter on pages 5 to 7 of current file. The Inspector states that, if the Mechanical Trades School is also located near the Leather Trade School, an independent plant for both may be sanctioned. It is submitted that the Government have already decided to open a technical school at Washermanpet and Mr. Tressler has submitted proposals relating to the school after consultation with a committee of representative employers of labour, and these are being examined separately. It may therefore be assumed that the school will be established, though a building may not be constructed for it immediately. Thus, eventually, a separate installation for the two institutions will be desirable.

The question, however, is whether such an installation is needed immediately for the Leather School alone. If the latter alone is taken into consideration, the Electric Inspector points out there will not be much difference in the recurring charge between the departmental and the Supply Corporation's installations. He also points out that, if the scheme of electric connection now being worked out by the Superintending Engineer is successful, the heavy initial expenditure of Rs. 2,500 referred to by Mr. Tressler

para 5, page 6 of cf.

 Gp. No. 78080<sup>1</sup>  
 4.7.14 (A)

para 3, page 5 of cf.

para 2, — do —

 WWS/B  
 17/3/15



13

will be reduced to Rs.200 or Rs.150. In these circumstances

it will perhaps be better if Mr.Tressler takes advantage

of the scheme of the Superintending Engineer.

But if a separate plant has already been purchased

for the department, Mr.Tressler's proposal to have an

independent installation for the school need not be

objected. This point may perhaps be ascertained from

Mr. Tressler. The following telephonic message is for

approval:--

TELEPHONIC MESSAGE.

From

The Secretary to the Government,  
Educational Department,

To

The Director of Industries.

"Please refer to your letter No.E.3, dated the  
9th February 1915, and say whether an electric drive  
has already been obtained for the Leather School,  
Madras, and whether any indent for it has been sent.  
Please also say whether an electric drive is needed  
for instructional purposes in the school."

Phase see  
para 1 & 6 on  
page 1 & 3 of cf.

Sp 26/3  
telephone  
Roosevelt  
telephonic  
26-3-15

Uorphy at 6.30 PM

26-3-15

Issued En  
29-3-15

SK  
24-3-15  
24-3-15

*[Signature]*



Telephone

The Director of Industries

To the Secy. to Govt. 201

Ref your ltr. of today.

Reply: Electric fittings have been installed.

29-3-15



Telephone 6/14

From

The Director of Industries

To the Secy. to Govt. 201

Ref your ltr. of today.

Reply: Electric fittings have been installed.

29-3-15





No. E 3

15  
15  
15

FROM

K.T.B. Tressler, Esq.,  
Ag. Director of Industries,

TO

The Secretary to Government,  
Educational Department.

(POST COPY OF TELEPHONE MESSAGE dated 29-3-15).

"Electric fittings have been installed"

Madras, 1st April, 1915.

Director of Industries.

The Secretary to the Government of Madras,  
Educational Department.

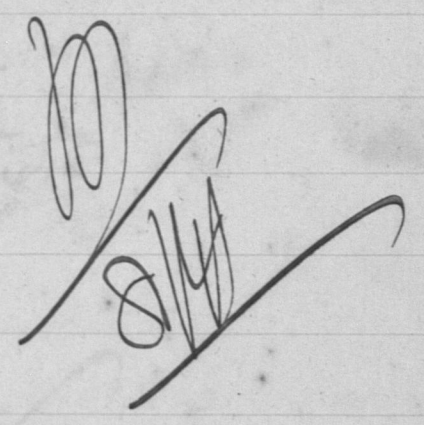
SK



Ed. Department

Please see the telephonic message to  
from the Director of Industries on page 6  
supra. As Mr. Trester states that  
electric fittings for the Leather School  
have already been installed, ~~its~~ his pro-  
posal to have an independent plant  
~~for this school~~ for this school as well as  
for the Technical School to be opened  
need not be objected to. The current  
may simply be recorded as Mr. Trester  
does not require specific orders on  
any point. A draft order is placed  
below for approval.

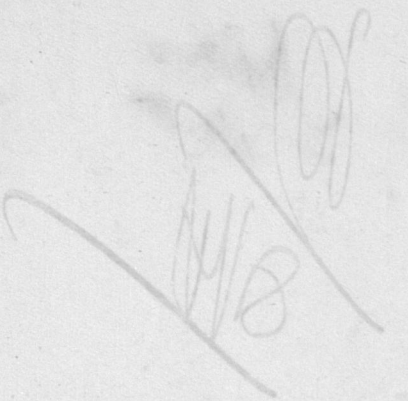
SKA  
31.3.15  
4.4.15



Please see para. 6  
on page 3 of C.F.

Please see para. 6  
on page 3 of C.F.

31.3.15  
4.4.15





” ” ” ” ..... ” ..... 191

C. No. 499, From the S.I., No. 12.3, dated 9.2.1915

Electric Inspector 380  
to the Govt of Madras

“ ” ..... ” ” ..... ” ” ..... ” ” ..... 191 .

No. 3838, dated 9-4-1915

Mis

Records

S.K.  
CR  
4-4-15

To The S. I. (2 of 1 + 0)



When given for copying—  
 When copied—  
 When examined—  
 When signed—

191 .

RECAP AGAIN G.O. No.  
 191 .

DATED

CURRENT No.

ENCLOSURES TO C. No.

ORDER OF GOVERNMENT

A A A A A A A

LETTER OF GOVERNMENT.

STATEMENT WITH RETTO.

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