

- (1) Number of pages _____
(2) Date of repair _____
(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 1099 (W) Press
Mis-

Dated 4-4-1877.

Not to be folded or roughly handled

No. 34. Read the following letter from R. F. CHISHOLM, Esq., Consulting Architect to Government, to the Secretary to Government, Public Works Department, Buildings and Roads Branch, dated Chepauk, 12th March 1877, No. 859 :—

I HAVE the honor to acknowledge the receipt of your letter No. 455, dated 22nd February 1877, regarding the Madura Clock Tower and I beg leave to submit the following report on the result of my inspection of the Madura palace and works. I will retain for the present the enclosures accompanying your letter :—

Clock Tower.

I found the old arch of the roof had already been pierced, the foundations for the drum laid at the level of the ground and the drum raised some 6 or 7 feet. I gave orders for the work to be stopped, as the design in my opinion is unstable for two reasons, first, because the drum which must eventually be connected with the old work will materially damage it by settling down; and, secondly, because the thickness of the lower ring (12 inches) is inadequate to support a height of 60 feet. At one cwt. a foot (a low estimate for the weight of masonry when the spiral is taken into consideration) the pressure per foot will equal 3 tons, while first-class brick work actually crushes in this country under a pressure of 21 tons to the superficial foot.

It will be injudicious I think to adhere to my original design now that the roof is actually broken through, unless the Municipality do not object to mount their clock in the southern tower. On the other hand, for the reasons above stated, I would not prosecute the work further according to the *revised* design. If the Municipality prefer their clock to be placed in the northern tower, I would submit a scheme embodying a totally different form of construction. Should they not object to the southern tower, I would debit the amount spent on the northern tower to the general sum allotted for restorations and work on the original estimate. I will send a copy of this paragraph to the Madura Municipality, and on receiving their reply will communicate further.

Restorations.

Although the money expended seems fairly spent, there is everywhere apparent a want of earnestness and a half-heartedness which seems singularly out of place in a work of this nature. Many of the iron ties cling feebly round the tottering walls, because the Overseer objected to take the responsibility of applying the screw. A lightning conductor meanders in a kind of purposeless way about the roof and ends not on earth but in air, and although one is met everywhere with excellent reasons why so and so and such and such should be, there can be no doubt that the work has not enlisted the sympathy of the restorers, and it is impossible, under these circumstances, to expect a fair return for the expenditure. This general impression is no doubt intensified by the hasty, I may say *horrible*, adornments added previous to the Prince's visit.

General Walker agreed to allow the allotments to accumulate for this work during my late furlough. I believe this has not been done. Now that the railway is open to Madura my visits can be much more frequent, and when money is forthcoming I trust to make arrangements which will in every way produce satisfactory results.

Proceedings of the Madras Government, Public Works Department,
4th April 1877. No. 1,099.

Napier Gateway.

The Napier Gateway is progressing slowly but accurately. The work appears to me unnecessarily expensive, and I have addressed the District Engineer on this point.

Racket Court.

The new Racket Court is finished, and in all but one respect it is sound and substantial though somewhat grotesque in appearance.

Through some negligence or oversight the stone facing of the back wall was not built according to my drawing and specification, but the brick and stone were bonded together. The back wall has consequently "buckled" to the extent of three-eighths of an inch at the top. I think the masonry has now taken the full set, and after the first heavy monsoon the defect may be concealed.

No. 35. ORDER THEREON, 4th April 1877, No. 1,099.

CIVIL WORKS, No. 1-A.

THE Government will await the further report respecting the Clock Tower promised by the Consulting Architect, on whose frequent and close supervision of the work, now that he is in India and the railway to Madura is open, they confidently rely.

(True Extract.)

Colonel,
Acting Joint Secy. to Govt., P.W.D.,
Buildings and Roads Branch.

To the District Engineer, Madura.
„ Consulting Architect.
„ Financial Department.

Exd. E. C. Shunker.
Spare Copies

No. 859

CONSULTING ARCHITECT'S OFFICE.

Chennai, 12th March 1877.

From

THE CONSULTING ARCHITECT TO GOVERNMENT.

To

THE Chief Engineer
Roads and Buildings Branch
P. W. D.

SIR,

I have the honor to acknowledge the receipt of your letter No. 455 dated 22nd February 1877, regarding the Madura Clock Tower and I beg leave to submit the following Report on the result of my inspection of the Madura Palace & works. I will retain for the present the enclosures accompanying your letter.

Clock Tower

I found the old arch of the roof had already been pierced, the foundations for the drum laid at the level of the ground, and the drum raised some 6 or 7 feet. I gave orders for the work to be stopped as the design in my opinion is unstable for two reasons. First ^{because} that the drum which must eventually be connected with the old work will materially damage it by settling down, and secondly ^{because} that the thickness of the lower ring (12 inches) is inadequate to support a

a height of 60 ft. At one cwt a foot (a low estimate for the weight of masonry when the spiral is taken into consideration) the pressure per foot will equal 3 Tons, while first class brick work actually crushes in this country under a pressure of 21 Tons to the sq. ft.

It will be injudicious I think to adhere to my original design now that the roof is actually broken through. Unless the Municipality do not object to mount their Clock in the Southern Tower. On the other hand for the reasons above stated, I would not prosecute the work further according to the revised design. If the Municipality prefer their Clock to be placed in the Northern Tower I would submit a scheme embodying a totally different form of construction.

Should they not object to the Southern tower, I would debit the amount spent on the Northern Tower to the general sum allotted for restorations and work on the Original Estimate. I will send a copy of this para to the Madras Municipality, and after receiving their reply will communicate further.

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511 2
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Engineer on this point.

Racket Court

The new racket court is finished and in all but one respect it is sound and substantial, though somewhat grotesque in appearance.

Through some negligence or oversight the stone facing of the back wall was not built according to my drawing and specification but the brick and stone were banded together. The back wall has consequently "buckled" to the extent of $\frac{3}{8}$ of an inch at the top. I think the masonry has now taken the full set, and after the first heavy monsoon the defect may be concealed.

I have the honor to be

sir

Your most obedt servt.

R. Krishnam.

Consgr Archt to Government.

29.1.76. 20243. 10.6.70. 1436.
6.1. " 36. 12.12.68. 3577
19.11.75. 3311. 6.10. " 3143

28.10. " 3035.
5.6. " 1587.
14.8. " 2446.
14.12.74. 3515.

27.7. " 3029.
24.4. " 3033.
3.9.74. 2503. A.

25.3. " 2416. B.
20.2. " 2450.
22. " 2386.

6.7. " 1872.
10.5. " 1342.
8.5. " 1260.

7.5. " 1247.
2.5. " 1162.
21.4. " 1032.

31.3.74. 902C.
21.3. " 785.
23.1. " 1657B.

20.10.73. 266.
27.10. " 2638.
26.10. " 2626.

6.10. " 2453.
18.9. " 2304.
1.8. " 1927.

2.7. " 1706.
13.5. " 1325.
25.4. " 1194.

7.3. " 745.
4.2. " 571.
4.2. " 642.

17.2. " 520.
6.2. " 384.
24.10.72. 243

10.1. " 267min
9.12.72. 2906
25.11. " 209 min

24.10. " 2476.
19.10. " 2468.
25.11. " 2768.

19.10. " 2470.
26.9. " 2236.
7.8. " 1886.

8.8. " 1869.
5.8. " 1839.
15.6. " 1417.

13.3. " 703.
11.1. " 69.
14.6.71. 1871.

16.6. " 1701.
6.8. " 1255. - 4 Q. 14.11.77. 100
17.4. " 1065.

13.4. " 1021.
12.4. " 1010.
24.2. " 97.

5.1. " 62.
19.3.77. 22.3.77. 10-31-3-77

12.4. " 1010.
24.2. " 97.
5.1. " 62.

19.3.77. 22.3.77. 10-31-3-77

12.4. " 1010.
24.2. " 97.
5.1. " 62.

19.3.77. 22.3.77. 10-31-3-77

12.4. " 1010.
24.2. " 97.
5.1. " 62.

19.3.77. 22.3.77. 10-31-3-77

Roads & Buildings

R.W.D.

13th 377

No. 2697

From The Consulting Architect
to Government

To The Chief Engineer
Roads and Buildings
P.W.D.

No. 859

Dated 12th March 1877.

Terumal Naicks Palace Madura
Inspection Report of works—

Papers returned from Circulation

with remarks.

29.3.

Read the following:—

Letter from the Consulting Architect
to Government No 859 of 12th March 1877.

FOR ORDERS.

Warrant Colonel

Ag. Joint Secy. to Govt. of India
Buildings & Roads Branch

I doubt that we can
do any thing but await
the further report from
about the flock down. &
rely on Mr. Chisholm
close supervision now
he is here. & the rest
is open to inspection.
19/3.

I have collected the
very interesting facts of
the case. I am going to present
it to the public as soon as
I may modify it. Perhaps
19/3

FOR ORDERS.

2697

2697

RECORDED

L.O. 1099 April 77

19-3-77

163

Cir.

No. 1099

Public Works Department.

1321

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 4 April 77
Read the following:-

From
The Cons. Architect to Govt. (L.O. No. 859 of 12th March 1877)

The Government will
await the further report
respecting the Clock Tower
promised by the Consulting
Architect, on whose frequent
and close supervision of
the work, now that he is
in India, and the Railway
to Madurai is open, they
confidently rely.

LD

Received by the
Public Works Department
on 19-4-77

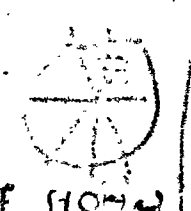
D.O. Madurai.
Cons. Architect.
Min. Dept.

Despd 19-4-77

W. H. P.

23.3.77

12/26/97



Obt. of 1877 Madras
PUBLIC WORKS.

To
The N. E. Madras
Dated
Issued
Recd. Encl.

G. O. 14th April 1877 No. 1099

Nos. 7-8

Terminal Mark Palace
Madras - Writing
Further report provided
by the Consulting Architect
respecting the clock
tower of —

But no Ref



19/2/1877