

(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. <i>2008</i>	Press Mis.
Dated <i>2-0-18</i>	<i>1877</i>

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

16th June 1877, No. 248 W.

Buildings and Roads.
Civil Works.

Read the following paper:—

No. 139. From R. F. CHISHOLM, Esq., Consulting Architect to Government, to the Chief Engineer, Public Works Department, Buildings and Roads, dated Chepauk, 30th May 1877, No. 1,008.

I HAVE the honor to acknowledge the receipt of your memorandum No. 1,409, dated the 29th instant, and beg to return the plan and estimate for adding buttresses to the new Racket Court at Madura.

One Tracing.
„ Estimate.

2. The late District Engineer proposed to add buttresses under the impression that the defect at the corners was caused by settlement. I inspected the work in January, and pointed out that inasmuch as the defects were due to "buckling" and not to bad foundations, no mere buttress power would prevent a further set from taking place, and also that the defects had in my opinion nearly reached their maximum. Recently (in the early part of this month) I again inspected the structure, and I am happy to state that no further set had occurred up to that time. After heavy rain there will be no doubt a slight movement; if so it will be duly reported upon after my next visit to Madura.

No. 140. ORDER THEREON, 16th June 1877, No. 248 W.

RECORDED, pending further report.

(True Extract.)

Colonel, R.E.,
Secretary to Government, P.W.D.

To the Consulting Architect.
„ District Engineer, Madura.

Exd. E. C. Shunker.
Spare Copies

Care must be taken that the water.

Specification to accompany an estimate for constructing 4 additional buttresses to the Raquet Court, Madras.
Amount of estimate Rs 230.

Excavation

The foundation is to be excavated to the full depth shown in the plan, or to such depth as the Executive Officer may consider necessary. The trenches to be well rammed and watered for the reception of the concrete.

Concrete foundation

The bottom step of foundation of the buttresses will consist of concrete, composed of 5 parts of stone jelly (broken to an average size of $\frac{3}{4}$ ") to one part of burnt limestone slack in contact with the jelly. The concrete is to be placed in layers 6" inches thick and each layer to be tamped with ordinary rammers. Care must be taken that too much water is not used, or the lime will pass to the bottom and ooze out underneath.

Brick in chunam

The whole of the foundations and walls above except the bottom step, are to consist of sound and well burnt bricks of the Government size laid in chunam, the latter prepared in parts of one of lime to $1\frac{1}{2}$ of coarse river sand well beaten or ground together. Care must be taken that the water

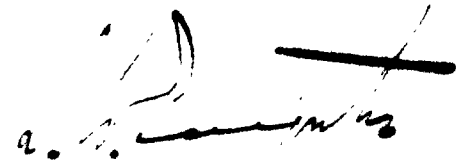
and sand used are, altogether free from salt. English bond to be observed throughout, and the masonry of buttresses to be bonded into the existing walls. The bricks to be dipped in water for 15 minutes before they are used.

Plastering

The whole of the brickwork for the walls above to be plastered with 2 coats of chimney, the first prepared in proportion of one of lime of $1\frac{1}{2}$ of sifted river sand and well beaten and mixed together, and the second coat, one of good white chimney, one of powdered sifted river sand, $\frac{1}{8}$ pound of yellow ochre, and $\frac{1}{8}$ of surkoe. The materials must be carefully measured and properly mixed before they are wetted, with sufficient water and grind them for fine plaster, and when applied to the wall, particular care must be taken that the bricklayers do not use their iron trowels, but a wooden rubbers, with those rub the plaster till it is sufficiently dry to receive the polish, with the finishing stone which should be rubbed fully 4 or 5 hours till the plaster gets a good polish, and well consolidated. After the plaster has been exposed for 12 hours take a towel and wipe the wall throughout till it is quite dry, and the 2nd day a coolly must be employed to watch the plastered wall much

16
16
wipe off perspiration.

All the rubbish collected during the execution to be carried off and shot at a proper distance from the site of the building, and the whole of the place to be thoroughly cleaned up before the building is handed over.


Executive Engineer,
Madras Division.

Detailed Estimate. No. of 1876 17
 Madurai District Madurai Division Madurai Taluk
 No. Constructing 4 additional buttresses to
 our Parquet court. Madurai.

P.W.D.
 405076
 No. 3718

Particulars	Number	Length	Breadth	Height	Contents
Concrete Foundation					
do rear buttresses	2	3 1/2	6	1 1/2	63
do sides	2	3 1/2	6 3/4	1 1/2	60 3/8
Total concrete in chunam Cft.					123 3/8
or Cys					4 5/9
ick in chunam foundation & basement					
do lower steps of rear buttresses	2	3 1/2	4	1 1/4	35
do centre steps of rear	2	3 1/4	3 1/4	2 1/2	52 13/16
do top	2	3	2 1/2	1 1/4	18 3/8
do basement	2	3	2	1	12
do lower steps of side buttresses	2	3 1/2	3 3/4	1 1/4	32 13/16
do Centre	2	3 1/4	3	2 1/2	48 3/4
do top	2	3	2 1/4	1 1/4	16 7/8
do basement	2	3	1 3/4	1	10 1/2
Total Foundation & basement brick in chunam Cft.					225 1/2
or Cys					8 1/3
ick in chunam Superstructure					
do rear buttresses up to backing	2	3	1 1/2	22 1/2	202 1/2
do backing	2	1 1/2	1 1/2	7 1/2	33 3/4
do side	2	3	1 1/4	21 1/2	161 1/4
do backing	2	1 1/2	1 1/4	8 1/2	31 7/8

4616 June 77. 2 B 20 129

B. ch...	Blocking above, arches	2	4	3	2	48
sal	Arch	2	8	3	3/4	36
...	Total superstructure brick in chunam	at 513 1/2				
la	Plastering	2	2 1/2	8		19
er	rear buttresses up to stringing	of arch				
ee	face of arches including blocking	2	7 1/2		16 1/2	27 1/2
...	top of arches between backing walls	2	4		3	24
...	backing of rear buttresses	2	4	3		24
...	side buttresses up to backing	2	3 3/4		7 1/2	56 1/4
...	backing	2	7 1/4		22 1/2	31 3/4
...	offset of arches	2	3 1/8		5 1/2	61 1/8
...	Total Plastering in square feet	2	6	3		36
...	or square	7 1/2				

Abstract Estimate No. of 1876-77
Madura District, Madura Division, Madura Taluk?
Work = Constructing 4 additional buttresses to new Raza
Court Madura

Description	Rate	Per	Amount
4 1/4 Cyls of Concrete in chunam foundation	3	"	Cyl 14 10 8
8 1/3 " " " "	5	"	" 41 10 8
8 1/3 " " " "	6	"	" 114 " "
19 " " " "	3	"	" 23 11 2
7 1/10 " " " "			15 16 6
Scaffolding			10 " "
Sundries at 10% per cent			10 " "
Superintendence			10 " "
Total Estimate Rs			230 " "

Madura Divn Office
Madura 24th Nov 1876

W. T. ...
District Engineer, Madura

...
Executive Engineer
Madura Division

ROADS AND BUILDINGS.

CONSULTING ARCHITECT'S OFFICE,

No. 1008

Chennai, 30th May 1877.

FROM

THE CONSULTING ARCHITECT TO GOVERNMENT,

TO

THE CHIEF ENGINEER, PUBLIC WORKS DEPARTMENT,
BUILDINGS AND ROADS BRANCH.

SIR,

I have the honor to acknowledge the receipt of your memorandum No. 1409 dated the 29th instant and beg to return the plan and Estimate for adding buttresses to the new Racket Court at Madras.

The late District Engineer proposed to add buttresses under the impression that the defect at the corners was caused by settlement. I inspected the works in January, and pointed out ^{that} inasmuch as the defects were due to "buckling" and not to bad foundations, no more buttresses would prevent a further set from taking place, and also that the defects had in my opinion nearly reached their maximum. Recently (in the early part of this month) I again inspected the structure, and am happy to state that no further set had occurred up to that time. After heavy rain there will be no doubt a slight movement, if so it will be duly reported upon

Enclosures.
1 Drawing
1 Estimate

P.W.D.

45076

N. 3748

3

By O. B. June 11/77

Estimated & abstract
estimate for (one) building
4 additional buttresses
to Racket Court at
Madras
Amount of Estimate Rs.
900-0-0

Estimated by O. B. June 11/77
Madras Engineer
Madras

Madras
District Engineer
in a letter from the
District Engineer to the
Chief Engineer, Madras
dated 29th May 1877
and will be duly reported upon

upon after my next visit to Madura.

I have the honor to be

Sir

your most obedt. servt.

R. Miskell - F.R.I.B.

Genl. Archt. to Governr.

No 1099 of 4/4/77.
 Memo No 1409 of 29/5/77
 " 60 of 10/1/77
 " 1869 of 11/2/76
 " 455 of 22/2/77

ROADS AND BUILDINGS.

From
 The Consulting Architect
 to Government,

 To
 The Chief Engineer, P. W. Department,
 Buildings and Roads Branch.

No. 1008

Dated 30th May 1877
 Received

No. of ENCLOSURES.

The New Racket Court at
 Madras.

2, 6 16 June 77. J.B.R. 139

C-14.3/77

Buildings & Roads

P.M. D

No 240 of 16 June 77

Proceedings of the Madras Govt.
 Under date the
 Read the following.

From the Cong. Architect (H.E. No 1008 of 30 May 1877)

Recorded pending
 further report. W.H.
 13.6.77

W.H.

Cong Architect. ✓
 P. W. Dept. Madras. ✓

Dispd: 23-6-77

X-Attch.

Am 520 Encl notes
PUBLIC WORKS.

The Cong. Architect

Dated

Issued

Recd.

Ind.

G. O. 16 June 1877 2484

139-140

New Racket Court at Madison.

Letter from the Cong. Archi-
tect reporting in ^{con} ^{puttees}
nection with the ~~the~~
of the —, records pending
further report.

Letter in 1877