

- (1) பக்கங்களின் எண்ணிக்கை 22
 (2) புதுக்கித் திருப்பிய நாள் 05.1990
 (3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் bur

தமிழ்நாடு ஆவணக் காப்பகம்.

(122)

தமிழ்நாடு அரசு

P. W. D. துறை

அரசாணை எண். மு. கோப்புத் தாள் எண்.	<u>2223</u>	அச்சகம் பலவகை
நாள் :	<u>17-8-1891</u>	198

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

11 Sheets

2223
1
17TH AUGUST 1891, No. 2223 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers :—

Endorsement of the Superintending Engineer, V Circle, dated 21st May 1891, No. 245 W.
Letter from the Superintending Engineer, I Circle, dated 1st August 1891, No. 267 V.Z.

ORDER—dated 17th August 1891, No. 2223 W., Public Works.

The first paper recorded above submits the explanation of Mr. Sub-Engineer T. T. Raghavachariyar, called for in G.O., No. 1078 W., dated 18th April 1891, in regard to the failure of the police station-house at Jagannadharajapuram in the Vizagapatam district, built under the Sub-Engineer's supervision in 1884. It is clear, from the correspondence, that the failure of the building is due to the use of inferior materials.

2. The Sub-Engineer's explanation of his neglect of supervision is unsatisfactory and the result of the work is discreditable to the local Public Works officers.

(True Extract.)

Major, R.E.,
Under-Secy. to Govt., P.W.D.

To the Superintending Engineer, I Circle.
" Judicial Department." V "

Exd. A. D. Xavier.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of [1891] Madras.
PUBLIC WORKS.

Dated August, 17th.

Recd.

Encl.

G.O., 17th Aug. 1891, No. 2223 W.

AUGUST.

Police Station-house at Jagannadharajapuram, Vizagapatam District

Orders regarding the failure of the — built under the supervision of Mr. Sub-Engineer T. T. Raghavachariyar.



Enclosures

1 Vizagapatam Subdiv. Office
Report No 257 d/23.7.91
1 Sketch

2.

N^o 957 Vizagapatam D. Office
Dattair 28 July 1891
2223/2 From 29

A. H. Moss, Esquire
Offg. Executive Engineer
Vizagapatam D. Office

The Supl. Engineer
V. L. L. L.

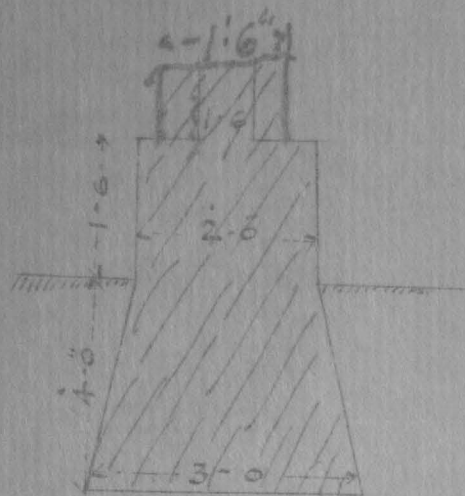
Sir, Rowlishmaram
Ref. S.E. No. 157 V.L. of 13.6.91

With reference to the above I have the honor to report as follows:-

I examined the buildings of the Lunatic Asylum. The walls of almost all of them are cracked, and in several instances very badly so. I attribute this to defective drainage, insufficient width of foundations, and to the fact of the foundations

being built entirely of rough stone in mortar.

2 The buildings are on sidelong ground of a porous sandy description and the variations from wet to dry must be frequent and extreme. The form of foundation for the main walls is given in the sketch. The verandah and other smaller foundations are 2'-9" wide and 3' deep, as the main walls are 16' high and 1'-6" thick of rough stone in Chumam it is evident that these foundations are very small compared with those of the standard police station where the foundations are 4' wide 4' deep, and carry walls 10'-6" high



2223/3

1'-3" thick and of brick.

3 The foundations too being built entirely of rough stone, probably from the first never had a full bearing on the ground. The rubble work here I have noticed is generally very bad and the interiors of the walls are full of open spaces. Drainage water intercepted by the foundations, and finding its way through any cracks that may have formed would be conducted down to the ground under the foundations and go far to encourage unequal settlement.

4 This cracking of these walls has not ceased but is still in progress

many of the cracks
having opened only
recently.

23/8/81

5. I send for your in-
formation Mr. Fonseca's
report on the police sta-
tions at Kumara da and
Kuiapam. The damage
to the latter is evidently
due to defective material
and workmanship
(and partly to design)
and not to insufficient
foundation. Besides
I think that were any
cracking to originate
from the defective nature
of the ground, the cracks
would be sure to extend
through the foundations
themselves as is the case
at the Lunatic Asylum.

I have the honor to be
Sir
Yours most obedt servt.

H. Hoops
Off. Executive Engineer
Muzajapatam &c. PS

23/8/81

+ A copy of this has not
been sent up to the
12-VIII-81

PS

The sanctioned plan
according to which the
bagamdarajapuram
Police Station was built
is the standard design
issued with G.O. No. 18286
dated 2^o August 1880.

I have &c

H. Hoops
Off. Executive Engineer
Muzajapatam &c.
28.7.81

See file
28-7.

File

The Executive Engineer
Vizagapatam Division

To, The Superintending Engineer
First Circle

Dated 28th 3 July 1891.
Depd 29th 3 July 1891.

Encls: 2.

N: 957.

Waltan Lunatic Asylum
Buildings & Police Station Houses
at Murapam and Humarada.
Submitting report on
the state of the —

No. 259

223/4

From

Mr. J. F. Fennell

Officer in charge

Vizagapatam Sub Division.

To

The Executive Engineer
Vizagapatam Division
Sd/-

Sir,

Adverting to your No. 201, I have the honor to report
18.7.91

as follows:—

Police Station
at Humarada

This building is of the usual plan (Type design) and similar
to that at Jagannadhapuram referred to in G. O. No. 1078 W
18.1.91
bearing your endorsement No. 578
12.6.91. The walls are in perfect
good order, no cracks of any kind on any part of building being
found to appear.

The roofing is being retiled by the Police Department.

Police Station
at Murapam

This is on the same design as above but has four light
cracks on the rear wall and four more but very slight on
the south side wall (gabled) as shown in the rough elevation
annexed.

The cracks on the rear wall are visible both inside and
outside but are so slight as not to be considered serious.
On examining the foundations none of the cracks appear
to have extended below the top of basement which
together with the foundations consist of rough stone
in chunam while the superstructure is of Brick in
Chunam. The walls are plumb, workmanship as
fair

fair as can be expected in an out of the way agency station and bricks fairly good. The mortar used seems indifferent and to this I attribute the cracks on the rear wall. The reflecting on purlins being nailed on there could not be much lateral thrust and if the mortar used had been made of fresh lime would have set properly and the cracks could not have been formed.

The cracks in the outside wall are not visible inside they start in each case from a purlin and are due to the absence of stones under the purlins to distribute equal pressure also bad mortar.

Besides the above cracks there is one on the crown of the segmental arch of the entrance door and another by its side, but not serious, these are due to the settlement of the arch and must have appeared soon after the completion of the building.

It is reported that all the cracks above described have been in existence there last three years and have not shown any signs of enlargement. I consider them to have properly settled and require but to be raked out and filled in with Chinaman grout.

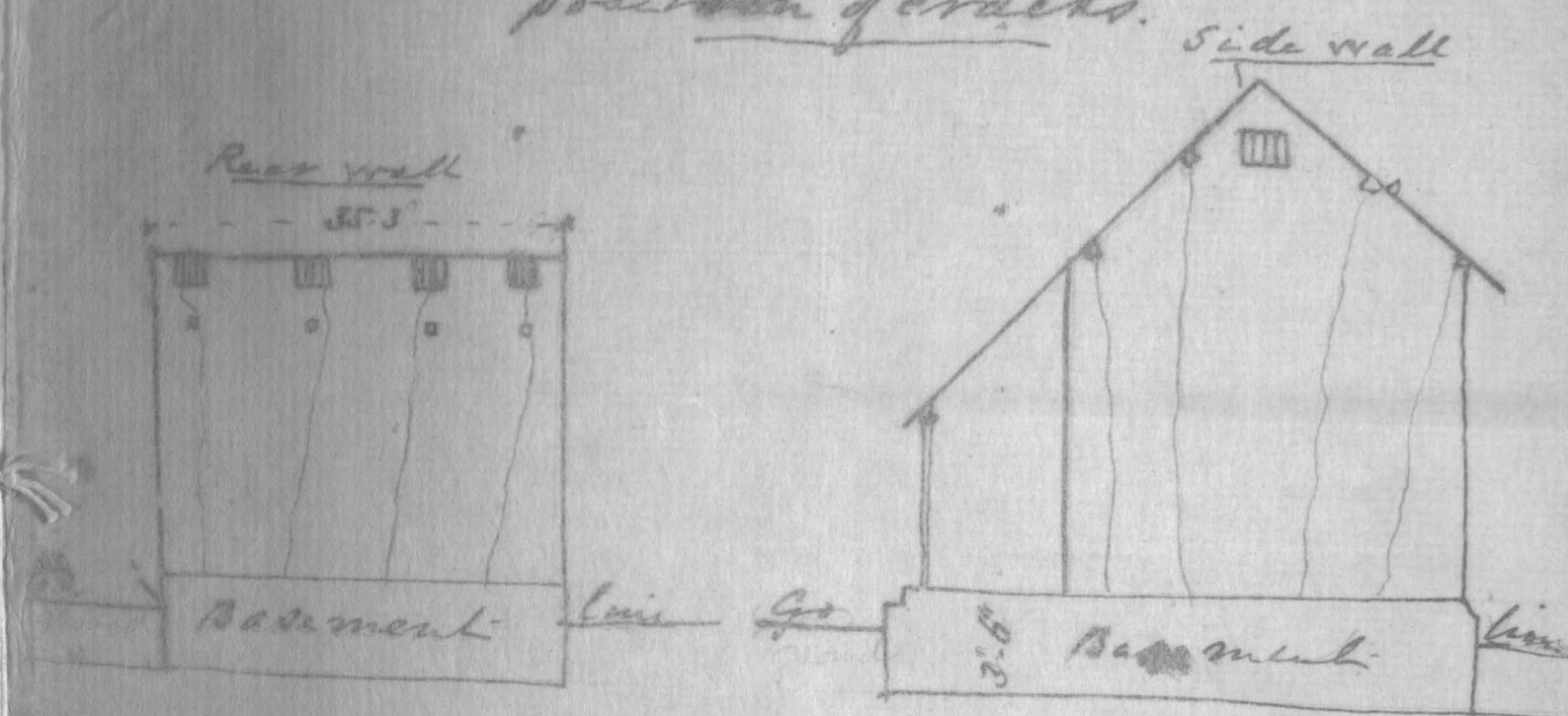
I have the honor to be
Sir

Yours obedient servant
28.7.91
J. H. [Signature]
Sub. Officer

No. 2674.L.

Police Station at Kuaupau
Rough Elevations showing
position of cracks.

22/6



[Signature]

The Police station in question was

No. 2678.L.

FROM,

G. D. Wyllow Esq.

SUPERINTENDING ENGINEER

FIRST CIRCLE.

TO,

THE CHIEF ENGINEER

PUBLIC WORKS DEPARTMENT.

DOWLAISHWERAM, 1st August 1891.

SIR,

With reference to your endorsement subsequent reminder of 24-7-91 No. 269 D dated 29th May 1891st - on letter No. 436 of 16th May 1891 from Sub-Engineer T. J. Raghunacharyar, I have the honor to forward a report from the Executive Engineer Tiragapattam regarding the cracking of the walls of the Lunatic Asylum at Waltair. It will be seen from this report that the cracks appear to be due to inferior workmanship, insufficient width of foundation and to defective drainage.

2. The cracks in the walls of the Jagannath Rajapuram ^{Police station house} can I think hardly be attributable to the underground action referred to by the Sub-Engineer, as if such was the case, it is more than probable that the foundations would have cracked also. As it is, the foundations are said to be intact, & it is now proposed to reconstruct the building on the old foundations.

3.

Your para 2.

The Police station in question was

Encls. 3

1. Tiragapattam office letter

29/5/91

1. Tiragapattam office letter

29/5/91

1. Sketch

2

Yours faithfully

Subd Officer

constructed in accordance with the standard
plan issued with G.O. No. 1828 W. dated 2nd August 80.

4. I beg to withdraw the latter part of
para 3 of my letter No. 3 T.L. dated 27-3-91. 1078 W
which was based on Mr. Traill's report -
The clear span is 15' 4" not 14' 10" and the
rafters rest on purlins rendering collar
beams unnecessary.

5. Your para 3.

The Police station at Kāmārāda
is reported to be in perfectly good order, as
regards the masonry, & free from cracks.

The Police station at Kurupam is
reported to be slightly cracked, but the
foundations are sound.

I have the honor to be,

Sir,

Your most obedient

J. D. Wilson.

Sup^r Engineer 1st Circle.

C/S

2223
8

DATED 10
 DESPATCHED
 RECEIVED

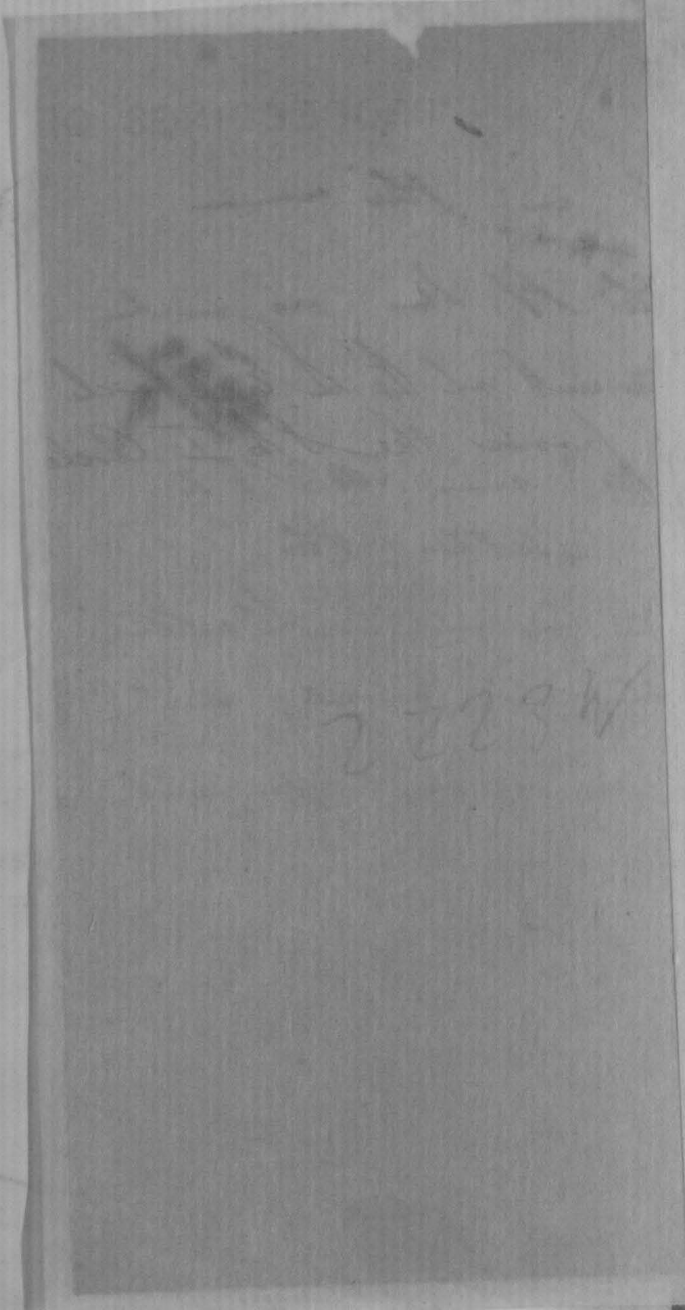
TO,

THE CHIEF ENGINEER

12.17.8.91

5477

For file 10782 of 10.4.91
Memo no 210 of 10.5.91



27.8.91

Handwritten initials or mark.

No. 2223 of 17th May 1891

1317
Handwritten notes.

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

Endorsement of the S.E. I Circle S.E. no. 245 of 21st May 1891
referring to the S.E. I Circle S.E. no. 267 of 1st April '91

The first paper recorded above submits the explanation of Mr. Sub Engineer J. J. Raghavacharyar, called for on G.O. 1078 of 18th April '91, in regard to the failure of the Police Station house at Jagannadharajapuram in the Vizagapatnam District built under the Sub Engineer's supervision in 1884. It is clear from the correspondence that the failure of the building is due to the use of inferior materials.

The Sub Engineer's explanation of his neglect of supervision is unsatisfactory and the result of the work is discreditable to the local Public Works officers.

This means work to be started, & in S.E. to be looked very much after here
The S.E. I Circle
S.E. II Circle
Judt. Dept.
Note. The Chief Eng. is making inquiries as to the safety of the Walling Lunatic Asylum buildings

Memo 5552
drafted 14/5/91

Handwritten initials.

21.8

11m

2023
11

4

11m

11

Obs 69-11m
11m 13-11m
in 15 Vill

P. P.

Cobt. 1848 Madras
PUBLIC WORKS.

Date

Recd

60.17 Aug. 91. 72234

Police Station House
St. Jaganmoharapuram
Vijayapalan St.

Orders regarding the
failure of the — built
under the supervision
of Mr. Sub. Engr. J. J. Hay
= valhaviya

84

4



190/18/5 1/18