

- (1) பக்கங்களின் எண்ணிக்கை 28
 (2) புதுக்கித் திருப்பிய நாள் 6-88
 (3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் 6/8

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

மாண்புமிகு துறை

அரசாணை எண். மு. கோப்புத் தாள் எண்.	1180 W	அச்சகம் பலவகை
நாள் :	20. 4. 1988	198 .

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

02/8

180
1

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following letter from G. T. WALCH, Esq., Superintending Engineer, I Circle, to the Chief Engineer, Public Works Department, dated Dowlaishweram, 26th March 1888, No. 15 V.Z.:—

I have the honor to submit herewith a second supplemental estimate,* amounting to Rs. 530, together with a report and specification for the work "Providing additional accommodation to the Huzur

treasury at Vizagapatam," and to request that you will be good enough to obtain the early sanction of Government to the same.

2. The original estimate, Rs. 8,870, was sanctioned in G.O., No. 2138 W., dated 29th August 1884, and a supplemental estimate, Rs. 490, was sanctioned in G.O., No. 540 W., dated 24th February 1887, and they have been completed. The necessity for the present estimate is explained in the accompanying extract from my inspection notes, dated 8th January 1888, sent to the Executive Engineer, Vizagapatam, with description of how to lay the concrete.

EXTRACT.

PROVIDING additional accommodation to the Huzur treasury at Vizagapatam, Rs. 8,870 (sanctioned in G.O., No. 2138, dated 29th August 1884), and supplemental estimate Rs. 490 (sanctioned in G.O., No. 540 W., dated 24th February 1887).

This new building leaks so much that the Revenue authorities refuse to take it over. The leaks arise partly from sagging or movement of the timbers of the flat-roof and partly from the want of proper slope* to shed off the water quickly. Such a slope ought to have been given to the main roof by forming pieces on the beams and to the verandahs by placing the joists with a slope. To make up the necessary slopes now by merely adding material would put too much weight on the timbers.

* One-third of an inch to a foot.

The specification shows that the roof was to have been constructed of a layer of brick on edge—3-inch of concrete and 3 layers of pan-tiles with 3 coats of plaster—instead of the plaster, or in addition to it a coat of Portland cement was put. From the roof over the main building the pan-tiles will be removed and concrete (made of three parts of small pebbles† or stone to one hydraulic‡ mortar) put so as to form a slope of 3-inch from centre to each side, and this will be covered with Portland cement plaster§ carefully executed and kept continuously damp for at least a month. In the surrounding

parapet the drainage vents will be made at least twice as numerous as now, with a sharp fall from the surface of the roof through them; in laying the cement plaster "runs" from each side should be made to each of these openings so that no water can lodge anywhere.

† Varying in size from a pea to a walnut.

‡ 1 Stone lime.

§ Surki.

|| Sand.

¶ First coat—1 Portland cement, 2 sand.

Second coat—Pure Portland cement, total thickness about 3".

It is not considered necessary to deal with the verandah roofs in the same way, but the surface must be "doctored" with Portland cement at all cracks, special care being also taken to make good the junction between the wall and roof and to give sufficiently numerous and efficient drainage openings through the parapet. All such drainage openings should of course have their floors lower, and not in the slightest degree higher, than the surface of the roof, and with a rapid fall through them.

When sending in an estimate for this work, steps from the verandah roof to main roof and any extra shutters, &c., which the Collector may wish, should be included.

The Executive Engineer will himself see that the estimate is completely and clearly prepared and that the specification of the work to be done is in full detail. He will also, when the work comes to be done, give it all the personal attention in his power and see if he cannot remove to some extent the discredit which the present state of affairs throws on the department.

ORDER—dated 20th April 1888, No. 1180 W., Public Works.

The estimate, amounting to Rs. 530, for providing additional accommodation in the Huzur treasury at Vizagapatam is sanctioned as supplemental to the estimate sanctioned in G.O., No. 540 W., dated 24th February 1887.

2. This sanction has been registered as Provincial, No. 3 W. of 1888-89, and classified as Civil Buildings, Original Works.

(True Extract.)

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, I Circle, with three enclosures.
" Examiner, Public Works Accounts, with copy of the abstract estimate.
" Revenue Department.

Exd. J. Moses.
Spare Copies

1180
2

BUILDINGS AND ROADS.
CIVIL WORKS.

Gobt. of 1888 Madras.
PUBLIC WORKS.

Dated April, 20th.

Recd.

Encl.

G.O., 20th Apr. 1888, No. 1180 W.

APRIL.

Huzur Treasury

Supplemental estimate for providing additional accommodation in the — at Vizagapatam, sanctioned.

29TH AUGUST 1884, No. 2138 W., PUBLIC WORKS.

180
3

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following proceedings of the Board of Revenue, dated 7th July 1884, No. 2308 :—

Read—the following letter from H. G. TURNER, Esq., Acting Collector of Vizagapatam, to the Secretary to the Board of Revenue, dated 20th June 1884, No. 642 :—

With reference to G.O., No. 202, dated 2nd February 1883, I have the honor to submit, herewith, plans, estimates, &c., as per margin, received from the Superintending Engineer, I Circle, for providing additional accommodation to the huzur treasury at Vizagapatam, and for adding a treasury-room to the deputy tahsildar's office at Vizianagrum at a cost of Rs. 8,870 and Rs. 1,620, respectively, and request you will be so good as to transmit them for the sanction of Government.

Huzur Treasury.	
2 Estimates.	1 Copy of Executive Engineer's letter, No. 2461, dated 29th March 1884.
3 Plans.	
1 Specification.	
1 Report.	
Vizianagrum Tahuk Treasury.	
2 Estimates.	1 Copy of Executive Engineer's letter, No. 2460, dated 29th March 1884.
1 Plan.	
1 Specification.	
1 Report.	

ENCLOSURES.

From T. D. HARRIS, Esq., Executive Engineer, Vizagapatam Division, to the Superintending Engineer, I Circle, Dowlaishweram, dated Pottingy Ghât, 29th March 1884, No. 2461.

With reference to your No. V.Z.-354, dated 12th November 1883, I have the honor to resubmit, for sanction, the enclosed revised plans and estimates for providing additional accommodation to the huzur treasury at Vizagapatam. The instructions contained in the above quoted have been carefully attended to. The Collector of Vizagapatam has been again consulted with on the subject, and a copy of his demi-official letter is herewith forwarded to you for your perusal. The iron strong-rooms have been dispensed with, and, as instructed, terraced rooms have been designed for the treasury. The dimensions of the rooms are just what have been wanted by the Treasury Deputy Collector; the figures he gives in his letter are yards, feet and inches. The doors and gratings are all of iron and closely barred.

2. The plans have not been countersigned by the Collector, but they are sent on with reference to G.O., No. 483 W., dated the 21st February 1884.

From T. D. HARRIS, Esq., Executive Engineer, Vizagapatam Division, to the Superintending Engineer, I Circle, Dowlaishweram, dated Pottingy Ghât, 29th March 1884, No. 2460.

With reference to your No. V.Z.-384, dated 17th November 1883, I have the honor to resubmit, for sanction, the enclosed revised plans and estimates for adding a treasury-room to the deputy tahsildar's outcherry at Vizianagrum. The instructions contained in the above quoted have been carefully attended to. The Collector of Vizagapatam has been again consulted with on the subject, and a copy of his demi-official letter is herewith forwarded to you for your perusal. The iron strong-rooms have been dispensed with, and, as instructed, terraced rooms have been designed for the treasury. The dimensions of the rooms are just what have been wanted by the Treasury Deputy Collector; the figures he gives in his letter are yards, feet and inches. The doors and gratings are all of iron and closely barred.

2. The Treasury Deputy Collector wants for Vizianagram a room of the same dimensions as of the one in a second-class taluk cutcherry standard plan to accommodate the shroff as well as the treasury, and so a room 15' x 19' has been designed for the shroff and treasury.

3. The plans have not been countersigned by the Collector, and they are sent on with reference to G.O., No. 483 W., dated the 21st February 1884.

ENCLOSURES Nos. 3 to 6.—Plans.

ENCLOSURES Nos. 7 and 8.—Estimates, &c.

Resolution—dated 7th July 1884, No. 2308.

The plans and estimates for providing additional accommodation to the huzur treasury at Vizagapatam and for building a treasury-room to the deputy tahsildar's office at Vizianagram, at a cost of Rs. 8,870 and Rs. 1,620, respectively, are herewith submitted for the sanction of Government.

(True Copies and Extract.)

(Signed) E. GIBSON,
Secretary.

No. 1617, Judicial.

Approved and transferred to the Public Works Department.

Ootacamund,
22nd July 1884.

(Signed) E. F. WEBSTER,
Chief Secretary.

ORDER—dated 29th August 1884, No. 2138 W., Public Works.

The following estimates, aggregating Rs. 10,470, for works in the Vizagapatam division, are sanctioned, for execution when funds are available:—

	RS.
¹³³ ₁ Providing additional accommodation to the huzur treasury at Vizagapatam	8,870
¹³³ ₂ Constructing a treasury-room in the taluk cutcherry at Vizianagram	1,620

2. These sanctions have been registered as Provincial Nos. ^{133 W.}_{1 & 2} of 1884-85, and classified as Civil Buildings, Original Works.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, I Circle, with ten enclosures.

„ Examiner, Public Works Accounts, with one duplicate abstract estimate.

„ Financial Department.

Exd. E. Fernandez.
Spare Copies

1180
2

24TH FEBRUARY 1887, No. 540 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper—

Proceedings of the Board of Revenue, dated 9th February 1887, Mis. No. 977.

Read the following letter from O. WOLFE-MURRAY, Esq., Acting Principal Assistant Collector in charge of the district, to the Secretary to the Board of Revenue, dated Vizagapatam, 18th January 1887, No. 120 :—

I have the honor to forward, herewith, a supplemental estimate, amounting to Rs. 490, for providing additional accommodation to the new Huzur treasury, received from the Superintending Engineer, I Circle, with his letter, No. 305 G.N., dated 30th ultimo, herewith submitted, and to request that the sanction of Government to the same may be obtained.

2. The reasons for the supplemental estimate are given in the accompanying letter from the Executive Engineer, Vizagapatam division, No. 1315, dated 27th November last. The supplemental estimate provides for wooden frames and shutters to the open iron bars in the doors and windows, for an exterior coat of Madras cement plaster to the terrace, and for wood-oiling, all of which were omitted in the original estimate.

Resolution—dated 9th February 1887, Mis. No. 977.

The supplemental estimate for Rs. 490, for providing wooden frames and shutters to the new treasury room at Vizagapatam and for repairing the terrace, is submitted for the sanction of Government and for provision of funds in the Public Works Department.

(A true Copy and Extract.)

(Signed) H. A. SIM,
Ag. Sub-Secretary.

No. 967, Revenue.

Approved and transferred to the Public Works Department for the necessary orders.

FORT ST. GEORGE,
14th February 1887.

(Signed) J. F. PRICE,
Ag. Secretary to Government.

ORDER—dated 24th February 1887, No. 540 W., Public Works.

The estimate, amounting to Rs. 490, for providing wooden frames and shutters to the new treasury room at Vizagapatam, is sanctioned as supplemental to the estimate

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1884) Madras.

PUBLIC WORKS.

Dated August, 29th.

Recd.

Encl.

G.O., 29th Aug. 1884, No. 2138 W.

AUGUST.

Works in the Vizagapatam
Division

Estimates for certain —, sanctioned.

24TH FEBRUARY 1887, No. 540 W., PUBLIC WORKS.

of Rs. 8,870 sanctioned in G.O., No. 2138 W., dated 29th August 1884, and the amount is allotted from the Provincial reserve with the Government.

2. This sanction has been registered as Provincial, No. 185 W: of 1886-87, and classified as Civil Buildings, Original Works.

(True Extract.)

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, I Circle, with two enclosures.
" Examiner, Public Works Accounts, with the abstract estimate.
" Revenue Department.

Ed. P. L. Pereira.
Spare Copies

1180
6

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of 1887 Madras.
PUBLIC WORKS.

Dated February, 24th.

Recd.

Encl.

G.O., 24th Feb. 1887, No. 540 W.

FEBRUARY.

Treasury room at Vizagapatam

Estimate of Rs. 490 for providing wooden frames and shutters to the new —, sanctioned and the amount allotted.

Public Works Department.

Current No. 3311

Letter No. 15 V. Z.

Dated 26th March 1888

From the Supg. Engr. to Govt.

Sanction - In note by E.W.

NOTE & REMARKS. 11.4.88

The accompanying is a 2nd supplemental estimate amounting to Rs 530 for providing additional accommodation to the Treasury at Vizagapatam.

The original estimate of Rs 800 was sanctioned in G.O. No 2138 W.

d/29-8-84, & supplemental estimate of Rs 490 was sanctioned in G.O. No 540 W.

d/24-2-87. These estimates have been carried out and the necessity for the present estimate is explained in the report in the extract.

from Mr. Lupton, Engineer.
inspection report.

The new building was
found to be in such
the Towne Authorities
declined to take charge
of it. The roof is of
exposed brick on edge
3" inches of concrete,
3 layers of par-tiles
(most likely flat-tiles)
and instead of plaster,
or in addition to it,
a coat of Portland cement.
It is now proposed to
remove the par-tiles
(flat tiles) from the
roof of the main
building and to
substitute concrete
composed of 3 parts
of pebbles or stone
to one of hydraulic
mortar laid with
a slope of 3" and
coated with Portland
cement, finished

openings are to be
provided in the
pavement with
facilitate drainage.
The veranda is
to be covered
with the same
concrete with
Portland cement
and the junction
of the roof with
the wall will be
similarly protected
& made perfect.

It is also proposed
to provide a
ladder from the
roof of the veranda
to the main roof
and to provide the
iron windows in
the shop room
with like parallel
shutters and frames
and other minor

improvements.

From the description given of the construction of the roof it is evident the brick walling course has been entirely omitted. This item forms a most important component in a trussed roof as

by it the falls or slopes are arranged. The walling course should follow

The brick on edge after which the concrete and flat tiles are laid on keeping to the slopes already determined.

If pan tiles have really been

used this should be removed entirely and flat tiles put. It is stated, but to substitute concrete for flat tiles does not appear to be a good arrangement.

As the case stands it would be well to remove the tiles put on a brick walling course over the existing concrete, then on the layer of concrete over the walling course with only two courses of flat tiles & plaster.

As far as can be checked the rates are fair.

The Estimate has been compared

by the Collector.

11/4/88

Note by C.W.

It is not advisable
to substitute concrete
for the three courses of
flat tiles.

After the roofing has
been removed down
to the course of brick on
edge, a levelling
course of brick & flat
tiles should be laid
to form the slopes of
the roof; which should
then be finished off
with three ^{inches} of
concrete, and two courses
of flat tiles and plaster.

11.4.88

11/4/88

Note by the Chief Engineer
R.W. Department

11/4/88

Submitted for the
sanction of the Govt.

2. It is not advisable
to substitute concrete for
the three courses of flat
tiles.

3. After the tiles have
been removed, a levelling
course of brick should
be laid over the concrete
to form the slopes of the
roof; which should
then be grouted with
mortar and finished
off with two courses of
flat tiles, two coats of
plaster, and one coat
of Portland cement.

The S.E. end of the roof is to be raised up to the existing slope and
levelled with concrete. The S.W. end is to be levelled with concrete and
plaster. The whole of the roof is to be covered with flat tiles.

11/4/88

14.4.88

EW

No. 1542.

1P.

FROM,

G. I. Walch Esq. 11³⁰/₁₁

THE SUPERINTENDING ENGINEER

FIRST CIRCLE.

TO,

THE CHIEF ENGINEER

PUBLIC WORKS DEPARTMENT.

DOWLAISHWARAM, 26th March 1888

Wpd 5/4/

SIR,

Countersigned
by the Collector.

I have the honor to submit herewith a 2nd Supplemental Estimate amounting to Rs. 530 together with a report and specification for the work "Providing additional accommodation to the Huzjer Treasury at Vizagapatam and to request that you will be good enough to obtain the early sanction of Government to the same.

2. The original estimate Rs. 8870 was sanctioned in G.O. No. 2138 Wd/29-8-84 & a supplemental estimate Rs. 490 was sanctioned in G.O. No. 540 Wd. dated 24-2-87 and they have been completed. The necessity for the present estimate is explained in the accompanying extract from my Inspection Notes 8-1-88 sent to the Executive Engineer Vizagapatam with description of how to lay the concrete.

I have the honor to be,
Sir,

Your most Obedient St.

C. Swait
Sup^r Eng^r 1st Circle.

Extract.

Providing additional accommodation
to the Mizir Treasury at Vizagapatam
Rs 8870 (sanctioned in G.O 2138-29-8-84)
and supplemental estimate Rs 490 (san-
ctioned in G.O 540 W. 24-2-87).

This new building leaks so much that
the Revenue authorities refuse to take it
over. The leaks arise partly from sagging
or movement of the timbers of the flat roof
& partly from the want of proper slope to
shed off the water quickly. Such a slope
ought to have been given to the main
roof by forming piers on the beams and
to the verandah by placing the joints with
a slope. To make up the necessary slopes
now by merely adding material would
put too much weight on the timbers.

The Specification shows that the roof
was to have been constructed of a layer
of brick on edge - 3" of concrete & 3 layers of
pantiles with 3 coats of plaster - instead
of the plaster, or in addition to it, a coat

2 272

* $\frac{1}{2}$ of an inch
to a foot.

flat tile

* Varying in size
from a pea to a
walnut

1 Stone lime.
 $\frac{1}{2}$ Surki.
 $\frac{1}{4}$ Sand.

* Coat. 1 Portland Cement
2nd - Portland Cement
Total thickness
about $\frac{3}{4}$ "

of Portland cement was put. From the
roof over the main building the pantiles
will be removed and concrete (made of
three parts of small pebbles or stone, to one
hydraulic mortar) put so as to form a slope
of 3" from center to each side - & this will be
covered with Portland Cement plaster carefully
executed & kept continuously damp for at least
a month. In the surrounding parapet the
drainage vents will be made at least twice
as numerous as now, with a sharp fall from
the surface of the roof through them; in laying
the cement plaster "runs" from each side should
be made to each of these openings so that no water
can lodge anywhere.

It is not considered necessary to deal
with the verandah roof in the same way but
the surface must be "doctored" with Portland
cement at all cracks, special care being also
taken to make good the junction between the
wall & roof and to give sufficiently numerous
& efficient drainage openings through the parapet.
All such drainage openings should of course
have their floors lower, & not in the slightest
degree higher, than the surface of the roof, & with
a rapid fall through them.

When sending in an estimate for this work
steps from the verandah roof to main roof and
any extra shutter on which the Collector may
wish should be included.

The Executive Engineer will himself see
that the estimate is completely & clearly prepared



From the Supt Engineer I. Birch N.E. No. 75 V. 4 of
26 March 1888

The estimate amounting
to Rs 530 for providing
additional accommodation
ⁱⁿ the ~~the~~ ^{the} ~~the~~ Treasury
at Vizagapatnam is sanctioned
as supplemental to the
estimate sanctioned in
G.O. No. 540 W. dated 24th
February 1887.

3. This sanction has been registered as Provincial No. 3 W of 1888-89 and classified

as Civil Buildings
Original Works.

~~Attention is drawn~~
~~to the note by the Chief~~
~~Engineer P. & Department~~
~~above recorded.~~



WOM

14.4.55

S
17/4/55

J
16/4/55

J
15/4/55

2/5/88

The Deputy Engr of Works
with 3 inclosures

Examiner W. Aceto with
copy of the abstract estimate

Revenue Dept

To The Revenue Secretary
for favour of communication

Cu

1/5/4

O.L. 574 Rev. Eng. 16/4/55

13/4

14/4

15/4 17.4.55. 18.4.55

1180
14

Govt. of Madras.

PUBLIC WORKS.

Dated

Recd.

Encl.

20th April 1888 No. 1180 W.

Huzar Treasury
Supplemental =
Estimate for providing
additional accommodation
in the — at Vizagapatnam
Sanctioned.

Done at
1/10