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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 2097 (W) Press
Mis.

Dated 17-12-1877.

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GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

14th December 1877, No. 2,097 W.

Buildings and Roads.
Military Works.

Read the following paper:—

No. 134. Proceedings of the Madras Government in the Military Department, dated 6th December 1877, No. 6,745.

ABSTRACT.—Approving and transferring to the Public Works Department, for the early consideration and orders of Government, an estimate for improving the Commissariat godown at Vizagapatam.

No. 135. ORDER THEREON, 14th December 1877, No. 2,097 W.

THE estimate of Rupees 270, as prepared by the Chief Engineer, for improving one block of the Commissariat godown at Vizagapatam is sanctioned, and the amount is appropriated from the Reserve under Military at the disposal of Government for 1877-78.

2. This sanction has been registered as Imperial No. 88 B of 1877-78.

(True Extract.)

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

To the District Engineer, Vizagapatam, with copy of estimate.
" Examiner of Public Works Accounts, with estimate.
" Military Department.

Exd. E. C. Shunker.
Spare Copies

Abstract Estimate No 252 of 1877-78

Taluk Vinagapatam

District Vinagapatam

Imperial Ordnance

General Store

Commissioner's Office

Work

Improving the Commissariat godowns at Vinagapatam

Quantity	Description of Work	Rate	Per Unit	Amount	Total	
31.05	Sqrs of removing roof	2	sq	62	17	
70 $\frac{5}{9}$	Cyds of Brick in chunam	2	12	6yd	194	5
3 $\frac{2}{3}$	D ^o of Flat brick work brick in chunam	4	12	6yd	17	68
28.67 $\frac{2}{3}$	Sqrs of plastering with 2 coats of chunam	2	3	sq	62	118
40.42	D ^o of whitewashing with 2 coats inside	3	D ^o	7	93	
27.82 $\frac{1}{2}$	D ^o of Blue washing with 2 coats outside	3	D ^o	5	35	
31.05	D ^o of replacing roof with additional flat and pan-tiles and chunam borders &c complete	5	D ^o	155	4	
				504	5	
	Petty Supervision	6	ct	28	9	
	Lundries	1	D ^o	4	12	
	Contingencies	8		2	6	
	Total Rupees				540	

District Engineer's Office
Camp Walhai
22 September 1877

Approved Major R. E.
District Engineer
Vinagapatam

Specification to accompany the Plan and Estimate
for improving the Commissariat Godowns at
Viragapatam.

Estimate Rupees 540.

orning }

The present roof will be removed and the wood work,
doors, windows, &c carefully secured under shelter.
Tiles &c to be heaped carefully so as to be used again
for the roof.

ick in
nam }

The present walls and windows are to be raised
by 4 feet (the windows above sill level) the
present window portions to be blocked up in brick
in mortar. The brick work is to be built of well
burnt bricks 9 inches long, 4 $\frac{1}{2}$ inches broad, and
2 $\frac{1}{4}$ inches thick laid in English bond with
mortar composed of 1 part of well slaked stone
lime and 2 parts of clean sharp river sand well
beaten or pounded by hand.

st arches

Flat arch work over windows is to be built of
well burnt and properly trimmed bricks in fine
lime putty composed of equal parts of lime and
brick dust.

stering

All the exposed surfaces of the building are to be
plastered with 2 coats of chunam. Before laying
the first coat the walls to be trimmed with trowels
and well sprinkled with water. The plaster to the
first coat to be composed of one part of well slaked
lime and 1 $\frac{1}{2}$ parts of clean sharp river sand, thorough-

thoroughly mixed and well beaten up with water.
A day or two after the first coat is put on and
while it is moist, the second coat is to be applied.

The plaster used for the second coat consists
of 3 parts of lime and 1 of white clean sharp river
sand. These are to be mixed as before and after-
wards ground on a flat stone with a small
stone roller till they are raised to a fine paste.

During the process of the work the plaster is to
be occasionally sprinkled with a little pure lime
mixed with water to give it a hard and even surface.

The walls inside to be whitewashed two
coats with wash composed for ten squares of 1 lb.
pounds of chunam mixed with water in which
one ounce of raw rice has been boiled. The walls
should be well scraped before the new wash
is applied.

To complete a wall the plaster is to be the
same as that of white washing except a touch of
chunam is to be added to the mixture. These
walls inside to be well scraped previous to the new
wash being used.

The flat roofs with double eaves, where the
roofs are to be raised on beams with additional
pan and flat tiles, have chunam borders so complete.
The eaves (to be) should be placed to suit
about 6 inches from eave to eave and the eaves each (to be)
to be 5 inches apart from eave to centre.

Tiling

The flat Tiles to be laid on the rafters with mortar
between the joints and then to be covered with 2 courses
of pan tiles. The pan tiles are made somewhat small-
er at one end than at the other, and the 1st
course is to be laid over the flat tiles, in rows with
the concavity upwards touching each other from
top to bottom and overlapping each other, a distance
of not less than $\frac{1}{4}$ their length; care should be
taken to keep the overlap uniform throughout
the work. Over the concave layer will be laid
a second layer of pan tiles overlapping each
other as before, but with the concavity downwards
and covering the edges of the under-lying layer.

The ridges to be covered with larger tiles over-
lapping each other and set in mortar. The
ridge is then to be plastered 3 coats and chunam
borders 9" wide at intervals of one and a half
feet are to be laid over the tiling. A border is
also to run along the lower edges of the roof.

On completion of the work all rubbish and
dust heaps to be removed, and the premises
to be left in a clean condition.

District Engineer's Office
Camp Malabar
22nd September 1877

M. V. 1700 Major R. E.
District Engineer
Vizagapatam

GOVERNMENT OF MADRAS.

MILITARY DEPARTMENT.

6th December 1877, No. 6745.

Barracks and Buildings—Commissariat.

Read the following papers :—

No. 130. From Brigadier-General H. O'CONNELL, Quartermaster-General, to Colonel J. MICHAEL, C.S.I., Secretary to Government, Military Department; dated Bangalore, 23rd October 1877, No. 908-7101.

I have the honor, by order, to submit, for the orders of Government, an estimate (Rupees 540) with plan and specification, for improving the Commissariat godown at Vizagapatam by raising the roof.

2. As the godown is used chiefly for storage of malt liquor, and the number of European Veterans at Vizagapatam is small and decreasing, the Commissary-General was asked if it was desirable to incur the expense of improving these godowns.

3. In letter, No. 5610, dated 13th instant, enclosed, the Commissary-General recommends that the roof of one block only, and not the whole of the godowns, be raised. His Excellency the Commander-in-Chief supports this recommendation. If approved by Government, it is requested that the documents may be transferred to the Public Works Department for disposal.

From Colonel J. LOUDON, Commissary-General, to the Quartermaster-General, Fort St. George; dated Madras, 13th October 1877, No. 5610.

I have the honor to acknowledge the receipt of your letter,* forwarding for my opinion an estimate for raising the walls of the Commissariat godowns at Vizagapatam.

* No. 858, dated 5th October 1877.

2. This measure was proposed first in 1875, in consequence of the lowness of the roof and want of sufficient ventilation, to which was ascribed the cause of "immense wastage," during the hot months, of rum and malt liquor.

3. Wastage should not exceed 8 per cent. per annum, and Captain Magrath, anxious to keep his wastage down, brought the subject to notice. In referring, however, to the average for the last seven years as shewn in the margin, it does not appear that the wastage has latterly been greatly in excess of this average.

	Malt Liquor.	Rum.
1870-71	10-75	7-7
1871-72	11-32	8-12
1872-73	9-44	7-24
1873-74	10-24	7-33
1874-75	9-09	7-82
1875-76	7-81	8-07
1876-77	8-39	8-55

† No. 653, dated 16th November 1875.

Government lay great stress on proper godown accommodation being provided for the custody of malt liquor, I take the liberty to recommend, for His Excellency the Commander-in-Chief's approval, that only one block be raised as proposed.

5. The enclosures of your letter are herewith returned.

No. 131. ORDER THEREON, 6th December 1877, No. 6745.

Approved, as recommended by His Excellency the Commander-in-Chief, and transferred to the Public Works Department for the early consideration and orders of Government.

(True Extract.)

(Signed) J. MICHAEL, Colonel,
Secretary to Government.

(True Copy.)

Wm. A. James
First Assistant, Mil. Dept.

To the Quartermaster-General.

" Commissary-General.

" Public Works Department, with three enclosures. *and 100/100*

Bd. A. Raitt.

Vizagapatam

14-12-77

W. 6/15/77

No 2097 W

1317

Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 14th Decr/77.

Read the following:—

Pro: in the Mily Dept (H.E. No 6745 of 6 Decr/77)

The estimate of Rs 270, as prepared by the Chief Engineer, for improving one block of the Commissariat yard at Vizagapatam is sanctioned. and the amount is appropriated from the Reserve under Military at the disposal of Government for 1877-78.

13
Sd/- Vizagapatam
P.W. Dept
Mily Dept
15-12-77

X M S Sripada

14-12-77

This sanction has been registered as Imperial No. 88 B of 1877-78.

DEPT. MIL.
No. 133-131.

MILITARY

GOVT OF MADRAS

REVENUE DEPARTMENT

10/12/77

10/12/77

21

10/12/77

Ch. 12655
Govt. of 1877
PUBLIC WORKS.
Re D. B. Vigayafatam

12 Dec 1877, 2097

Nos. 131-135
Commisariat Vigayafatam
at Vigayafatam

Set of Rs. 270 for Vigayafatam
Dec. 1877 of the
Sanctioned & funds of
appropriated from the Mil.
Revenue for 1877-78.

Ant. in Rs.