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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	1282	Press
B.P. No.		Mis.
290-291		
Dated	12-5-1876	195

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**Proceedings of the Madras Government, Public Works Department,
12th May 1874.**

No. 290. Read the following letter from Colonel E. A. FOORD, R.E., Inspecting Engineer for Civil and Military Buildings, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Chepauk, 25th March 1874, No. 490 :—

With reference to the Order of Government of the 21st of October 1873, No.

2,572, I have the honour to forward estimates, accompanied by plans and specifications, for a Recreation-room and a Canteen for the European Infantry at Bangalore.

3 Plans.

1 Site Plan.

2 Abstract Estimates.

1 Specification.

2. The plan of the Recreation-room is in accordance with the standard plan, but the elevation is in accordance with the blocks of barracks adjoining, all of which have tiled roofs with sloping terrace verandahs. The estimate amounts to Rupees 28,400.

3. The estimate for the Canteen, if built exactly in accordance with the standard plan, amounts to Rupees 21,800, but if the verandah has a sloping terrace with swing windows between it and the roof of the main building, the cost will be Rupees 25,900, and I recommend that this sum be sanctioned.

4. The estimates for the Canteen and Recreation-room, as at first submitted by the District Engineer, amount to Rupees 32,400 and Rupees 31,800, respectively. The plan of the Cavalry Canteen built in 1865 was adopted for the proposed Infantry Canteen, and the Recreation-room was designed externally like the Canteen, as the two buildings would be placed immediately opposite to each other. The strength of the Infantry Regiment is nearly double that of the Cavalry, and if the standard plans are adopted the Infantry will have a smaller Canteen and Recreation-room than have been provided for the Cavalry.

5. The approximate estimate for a Recreation-room at Bellary is only Rupees 12,060, but if the same plan is adopted in both places, it is not likely that there will be a great difference in the cost of the buildings.

No. 291. ORDER THEREON, 12th May 1874, No. 1,282.

MILITARY WORKS No. 16. His Excellency the Governor in Council approves of the Recreation-room and the Canteen at the Parade Barracks, Bangalore, being constructed on the design of the Cavalry Canteen, the estimated cost being for the former building Rupees 31,800, and for the latter Rupees 32,400. A sum of Rupees 25,000 has been provided for these buildings in the current year's Budget, and the District Engineer will arrange to utilize the amount.

(True Extract.)

Colonel, R.E.,
Secretary to Government.
To the Inspecting Engineer for Buildings.
,, District Engineer, Bangalore.
,, Officiating Controller of Public Works Accounts.
,, Military Department.

Exd. E. C. Shunker.

Spare Copies

Specification to accompany
Plan and Estimate for constructing
a Recreation Room for a Regiment
of European Infantry proposed to
be built at the Parade Barracks
at Bangalore.

Amount of Estimate Rupees 25,400

Excavation

The excavation for foundation
to be taken down to such a depth
as the District Engineer may consider
necessary and the bottom taken out
perfectly level.

Concrete

The lower steps of foundation
to be built with concrete; the propor-
tion of the concrete will be as follows:-
5 parabs of good gravel broken into
cubes of 1 to 2 inches free of quarry
sweepings; 1 parabh of good
unslaked lime; two parabs of
ground bricks: the lime to be slaked
while mixing the concrete.

Foundation

The foundation is to be laid
with stone in chunam; stones laid
closely fitted with good bond and
well

well flushed up with chunam (2 parts of sand to one of fresh and well burnt lime) slaked on the work. Every sixth stone at least to be a through leader.

The basement to be similar. Basement
laid with outer joints scraped out and pointed. The top course of the basement to be of flat stones of as great a length as possible.

The superstructure is to be Superstructure
of hammer dressed stone in chunam laid in even courses, not less than 12 deep, and level beds closely fitted with good bond, every sixth stone at least to be a through leader and well flushed up with chunam consisting of one part of fresh and well burnt lime to 2 of sand. The plan in the front elevation.

The arches to be neatly finished with well dressed stone in chunam. The joints all to be radiated.

correctly according to the nature of the arches stones to be well dressed to the required shape, and the key stone to be well driven home. Joints not to exceed $\frac{1}{4}$ inch. Joints to be scraped out before plastered or pointed.

Cornice work

Steps

Dressing

Plastering

The description of the cornice should be of the pattern supplied by the District Engineer. Cornice stone to have proper bearing and set with strong lime. Stone slabs for steps to be of one stone of the required dimensions according to the nature and size of the steps having the outer sides and edges dressed square, and upper surface smoothly dressed.

The arches sides of door and windows and piers of verandah to be well dressed.

The joints to be scraped out and the rooms plastered inside with two coats of chunam. First coat to consist of one part of lime to 2 of river sand well ground together and

we want the second coat to be of 8 parts
of lime to one of white sand well
smoothed off.

The room to be whitewashed. The inside
with two coats of chunnam.

The following proportions
to be used in mixing the whitewash.

For whitewashing 108 lbs. two coats.
1 Parah of stone chunnam
of $\frac{1}{2}$ Polums of gum
of $\frac{3}{4}$ measure of raw rice.

The joints of the walls to be scraped out, and pointed
with strong lime putty.

The whole of the timber to
be of well seasoned and
to be free from all shakes, knots,
and neatly finished off.

No timber to be put in until
by the District Engineer.

The roof of the main hall
to be built roof supported on
trusses as shown on the plan each
truss

truss to bear on stone plates not less
than $(2 \times 2 \times \frac{1}{3})$. The trusses to be 10
feet apart from centre to centre.
The common rafters to be $1\frac{1}{2}$ feet
apart, and to be well secured with
proper nails. The whole to be
nailed with teak reaper $(2\frac{1}{2} \times \frac{3}{4})$ and
to be covered with flat and plan the
with chunnam borders.

The various parts of the
trusses to be fixed together to the joint
by means of iron clamps $(2 \times \frac{1}{4})$ bolts
 $\frac{3}{4}$ or wider screw heads and nuts
and plates to be punk and screwed
to the principal rafters to support
purlins 8".

The verandah to be Bangal
terrace with four courses of flat tiles
laid in chunnam, and to have 3 coats
of plaster teak reaper $(2\frac{1}{2} \times \frac{3}{4})$ sup-
ported on rafters placed $1\frac{1}{2}$ feet
apart.

a apart from centre to centre existing
on bresummers placed over the pit
as shown on the plan.

The scantlings of the various
timbers to be of those written on the
plan.

The wood work of the roof
to be coated with two coats of wood oil.

The basement to be filled
in with earth well watered, and
rammed till thoroughly consolidated.

over this a flooring of concrete
well watered, and smoothed on
which stone slabs to be laid, having

a smooth surface not less than 1/2 inch
thick with the edges dressed square.

The joints scraped out and pointed
with strong lime putty.

No part of stone to be permitted
junctions and glazed with
glazed fire light (11x8) frames

11x12 with strong hinges both
locks &c. Complete are to be provided

Wood oiling

Floors

Doors

and fixed to the position shown on
the plan.

Ventilating
swing
windows
to be glazed ventilating swing
windows (4x12) frames (8x24) and
other fittings &c. complete are to be
provided and fixed over the exterior
doors of the building.

Painting
The doors, windows, and
ventilating swing windows to be
painted with two coats of Carsons
anti corrosive paint, chocolate color.

Drain
A stone drain (9' broad at top
and 8' inches deep) V shaped to be
constructed around the building, and
the same extended for 100 feet in a
direction to be pointed out by the
District Engineer for carrying
off the water. The drain to consist
of paving stone, not less than
3 inches thick, with the edges neatly
dressed, and set in chunam. The
joints scraped out and pointed
with strong lime.

All

All materials used and the work done are to be of the best description; and subject to the approval of the District Engineer of Bangalore who shall have the entire power of ordering the removal of any work with which he is dissatisfied.

Major Robert Campbell R.E.
District Engineer Bangalore.
Dist. Eng. Office,
Bangalore.
28 Jan'y 1874.

No. 49
OFFICE OF THE INSPECTING ENGINEER
FOR CIVIL AND MILITARY BUILDINGS,
Chepauk, 25 March 1874.

From

Major Robert Campbell R.E.
District Engineer Bangalore.
Dist. Eng. Office,
Bangalore.
28 Jan'y 1874.

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the
der of
tober 1873,
to forward
plans and
tion room
European
ration room
standard
in accordance
the adjom
bled roofs
indash. The

estimate amounts to Rs. 284.00.
3. The estimate for the lantern, if
built exactly in accordance with the
standard plan, amounts to Rs. 24.800
but

1282

P. W. D.

Proceedings of the Madras Government,

Under date the

187.

Read the following:—

From the *Sup. Sur.*
to *Public Works* —

(H.E. No. 490 of 25th
March 1874)

His Excellency the
Governor in Council ap-
prove of the Recreation
Room and the Canteen at the
Parade Barracks, Bangalore,
being constructed on the
design of the Cavalry can-
teen, the estimated cost
being for the former build-
ing Rs 3,800, and for the
latter Rs 32,600. A sum of
Rs 25,000 has been provided
for these buildings in the
current year's budget
and the *Sup. Engineer* will
arrange

Sanitation Dept.

Abstract Statement
for constructing a *Recreation*
for a *Regiment of Infantry*
infantry barracks to be
built on the *Parade*
Barracks (according to
Standard Plan) at
Bangalore (H.E. No. 2188)

Arrange to utilize the amount.

Sum.

Letter from the Inspecting Engineer for Buildings at \$90 dated 25 March 1874.

For Orders

Circulated for orders whether the Standard Plans for Recreation Room and Canteen modified as to the elevation to meet the design of the other buildings in the Barrack Square be adopted at a cost of Rs. 28,400 and Rs. 28,900, or whether buildings in accordance with the Plans of the Cavalry Canteen be adopted at a proposed cost of

We adopt the plans designated "Cavalry Canteen"

29/4

J.M.

I fully agree with Mr Robinson. The drawing on works of such importance even if he had small amount there can be no doubt of the superiority of the "Cavalry Canteen" design. J.

Rs. 31800 - as given of
32400 - as 3400
Rs. 9900

Commodore J. H. D.
Secretary to the Barrack

290-291

Lt. for Buildings

D. J. H. D.

with Mr. Robinson

Sept. of 1874 Madras.
PUBLIC WORKS.


The Inspr. Ingr.
for Buildg.

Dated

Recd.

Encl. 5.

12 May 1874 No. 1282

No. 290-291

~~Recreation Room~~
Recreation Room & Carriage

Estimate of Rs. 31800/-
£2,400 respectively for
the construction of a Re-
creation Room & Carriage
for the European In-
habiting at Bangalore.

20/6/74 & 1 May/74