

(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.
B.P. No.

1459

Press
-Mis.-

Dated

26-5-

1875
195-

Not to be folded or roughly handled

11

*Proceedings of the Madras Government, Public Works Department,
26th May 1875.*

No. 491. Read the following letter from Lieutenant-Colonel R. A. ROBERTS, R.E., Superintending Engineer, Tanjore, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Tanjore, 12th November 1874, No. 1,924 :—

I HAVE the honor to call your attention to the correspondence noted marginally.

- 1 Letter No. 613, dated 10th September 1873, from District Engineer, Tanjore, to Inspecting Engineer for Buildings.
- 1 Letter No. 1,104, dated 13th September 1873, from Inspecting Engineer for Buildings, to District Engineer, Tanjore.
- 1 Plan of Range Office.
- 1 Detail Plan of ornamental window.
- 1 Do. of Codungay.
- 1 Estimate.
- 1 Specification.
- 1 Copy of Nellore Plan.

You will observe that Major Mead, R.E., reports that Range Office buildings are required for only Ranges Nos. II. and V. in this district, and that the cost of these will be Rupees 2,400 each on what is called the 'Nellore plan.'

2. In his reply Colonel Foord, R.E., states that the Nellore plan need not be adopted in all its details, and explains how these deviations can be made.

3. The so-called Nellore plan is enclosed. It will be seen that this plan is an adaptation of the old travellers' bungalow, and it has all the appearance of an enlarged godown.

4. There appears no occasion at the present day to repeat these unsightly buildings, as they cannot but fail, by their common appearance, to provoke remark at the poverty of invention of a department that cannot get beyond a godown as their standard for a public building.

5. Independently of this, with the increased and almost daily increasing price of wood, structures of the kind under reference are now very expensive to build, and costly to maintain, inasmuch as they consist of materials constantly requiring repair, and indeed ever tending to decay. Their abandonment, therefore, in favor of more permanent structures is a matter of urgency and necessity.

6. The plan I now submit for a Range Office contains no perishable material beyond of course that required for the doors and windows. The space afforded is as much as is required, and the estimate Rupees 1,520 is but little more than one-half that required for the Nellore plan.

7. It will be observed that at Combaconum the cost of the site will be Rs. 300, but at Munnargoody a suitable site can be obtained for Rs. 100.

8. In the event of these two Range Offices being sanctioned and of there being money available to allot for the service, one-half of the amount of each, or Rs. 1,720 in all, can be spent upon them during the current year.

No. 492. ORDER THEREON, 26th May 1875, No. 1,459.

CIVIL WORKS, No. 31.

LIEUTENANT-COLONEL ROBERTS' design for Range Offices in the Tanjore District does not commend itself to Government, either by the convenience of its arrangements, or its relative cost for the area covered.

2. The building is cut up inconveniently by arches and columns, and is destitute of verandah space, which is always a great desideratum.

Proceedings of the Madras Government, Public Works Department,
26th May 1875.

3. The Chief Engineer has circulated a drawing and memorandum* relating to the subject of Range Offices, which should be consulted; and if it be desired to adopt arched roofs, and so dispense with timber as much as possible, the principle of Mr. Clark's tied arches may, it is thought, be introduced with advantage.
- * No. 262, dated 8th March 1875.

vide paper read at the Bengal Social Science Meeting, held at Calcutta on the 26th March 1872.

(True Extract.)

Major, R.E.,

Offg. Joint Secretary to Government.

To the District Engineer, Tanjore.

P. W. D.

Proceedings of the Madras Government,

Under date the

187

Read the following:—

From
The District Engineer
Tanjore } (N.L. No. 1924 d/12 Nov/74).

The Government
will be glad to give effect
whenever practicable to
the views of St. Leall
Roberts, regarding the
desirability of studying
aesthetic principles in
designs for Public build-
ings but in regard to
the question of economy
the Govt is unable to
variate the substitu-
tion of the plan & details
for the Standard plan.
Officers of the Class referred
to by him Economy is
a more important

Consideration

Consideration and they fail to see that the Office designed by that Officer has the advantage in this respect over that of the Bellows pattern regard being had to the accommodation afforded in each case. A comparison of the two in this respect gives the following results:-

Superficial Area	Bellows Office	Proposed Jan. Office
Cubical Space - Estimate	14,116 Sq ft 16,995 Cft 24,000 Rs	6588 ft 7296 Cft 1520 Rs
Rate per square ft of accommodation	1.69 Rs	2.31 Rs
Rate per cubic ft of space	0.11 Rs Includes Ventilation	0.20 Rs

Under

Under the circumstances above shown it will be necessary to adhere to the Bellows Plan.

Adm
Adm

I think that the question of accommodation requires your attention
 As Col. R. estimates some 30 or 40 ft less space will suffice for the want of this class of building - why ~~decrease~~ ^{decrease} or adhere to so costly a standard under my circumstances?
 7/12 MM

I am a great advocate for fine building - but advise to small buildings being built on already built-up tenement plans - a pigeon house in fitter is a sound - it is a castle that is of better - castle has for time - what is wanted here is a simple

No 613.

District Engineer's Office
Tanjore, 10th Sept 1873.

From

The District Engineer
Tanjore

To

The Inspecting Engineer for
Buildings

Sir,

As promised by Major
Oakes in his letter No 544 dated -
22nd August, I have the honor to
report the following regarding the
proposal for building Offices &c in -
this District for the D. P. W.

2. I do not consider it at
all desirable that the offices of the
District Engineer Executive Engineer
and Overseers should be all in one
building. I think that the District
Engineer should have a permanent
Office and that at the head quarters
of each Range there should also be
a permanent Office but care must
be taken not to build offices where
hereafter owing to changes they may
not be required. With regard to -
Overseers I quite agree with Major
Oakes that it is not advisable to
build them in this District as their
head quarters are constantly being
changed

Pls 7225/16

changed in order that they may be near any large or important works in progress and the offices if built would probably be used only as rest houses I would further bring to notice that there are numerous Rest houses Store Sheds on large works &c in the District and these probably as the large regulating works are built will be increased and therefore there is less necessity for Overseers' Offices.

3. The District Engineer's Office should of course be at Tanjore. I consider the present building (which was formerly a hospital and which is now rented at Rs 20 a month) not conveniently situated and not well arranged for an Office - but I should much prefer retaining it to moving to a new building such as Government is likely to provide because of the great accommodation it affords as regards space.

4. Should a new permanent Office be built the size allowed would of course be only that required for the permanent establishment and in case of more space being wanted temporary accommodation would have to be provided this would be the case at present -

as

as extra space would be required for the Draftsman to now employed on the Cauvery, Coleroon and other surveys and probably this would be the case for some years to come I therefore consider it best if the present building be retained.

5. With regard to the Range Offices at present the District is divided into 5 Ranges with head quarters as follows.

Sto 1	Tanjore
Sto 2	Combaconum
Sto 3	Tanquebar
Sto 4	Kegapatam
Sto 5	Mannargoody

I think we may consider the head quarters and Ranges of Sto 1, 4, and 5 as fixed.

6. At Kegapatam there is a Range Office which has ample accommodation. At Tanjore a Government building (an old hospital) is used and although badly situated it is commodious and may be I think retained. With regard to Sto 5 Range I would propose an office should be built as the Police hospital proposed by Captain Montfomerie to be altered and made into

into

into a Range Office is not available as the Police require the building - I with your sanction will forward a plan for a building similar to that proposed to be built in Kellore District the estimated cost of which will be about Rs 2,400.

7. I am at a loss to know what to propose with regard to Ranges Nos 2 and 3. Captain Montfomezie speaks of a probability of the 2 Combaconum Range being hereafter a sub-division; this I do not think likely to be the case and I therefore consider accommodation for a Range Office should be provided for in Combaconum at a cost of about Rs 2,400 there is at present a small Government Store Shed but it is inconveniently situated and not large enough for an Office. With regard to the 3 Range consisting of Mayaveram, Sheally and Nuvvillam Talooks at present Tranquebar is the Head quarters and the reason of this is that there are houses available for the Range Officer to live in there and there are none at Mayaveram. Mayaveram is undoubtedly the proper place for the

the head quarters of this Range and if an Office is built it should be at Mayaveram. At present a private house at Tranquebar is rented (for Rs 10 a month) which gives ample accommodation for the establishment and this arrangement might for the present be allowed to continue.

8. From the above it will be seen that I propose the following:

For the District Engineer's Office to retain the present building now rented for Rs 20 a month.

For the 1 Range Office to retain the present Government building

For the 2 Range Office to build a new Office at a cost of about Rs 2,400.

For the 3 Range Office to continue to rent the present house used as an Office for Rs 10 a month.

For the 4 Range Office, is provided with an Office.

For the 5 Range Office to build a new Office at a cost of about Rs 2,400.

9. To Sub Officers and Quarters

Overseers have necessarily their head
quarters constantly changed I do
not propose any permanent offices
to be built and as there are
numerous Rest houses, Store Sheds
&c. &c. in the District which
probably will be added to I see
no necessity to build separate
Offices.

I have &c
(Signed) H. R. Mead Capt R.E.
District Engineer, Tanjore

(True copy)

Recd & Noted Lieut. Col. R.
Supt Engineer, Tanjore.

Enclosure in a letter
from the Dy. Engineer
Tanjore to the Secretary
Dist. P. W. D. No. 1924,
dated 12 November 74.

P. W. 7225/74
2

Copy of letter No. 613,
dated 10 September 1873
from the Dist. Engineer
Tanjore to the Inspecting
Engineer for Buildings.

GP 26 May 75
B. N. 491

177.
Specification Report to
accompany Plan and Estimate for
constructing the Proposed Range
Office at Combaconum and Mannar-
goody Talook, Tanjore District.

1. Amount of Estimate for
Range Office at Combaconum Rs 1820-

2. Amount of Estimate for
Range Office at Mannargoody Rs 1620-

3. The foundation to be
dug to a depth of 4 feet and the
bottom taken out to a uniform
level well watered and rammed.

Before commencing the work the
foundations are to be inspected and
approved by the Quarter or Range
Officer. The concrete may then be
proceeded with and when well set the
foundation work should be put in
hand and the work be made to pro-
gress in even layers throughout.

4. The whole of the foundation
basement and superstructure brick-
work is to consist of sound and well
burnt bricks of the Government size
in chunam prepared in proportion of
one of lime to one of river sand and
one of Soorkhee well beaten or ground,
great care must be taken that the
water

water and sand used are altogether free from salt. English bond to be observed throughout. the bricks to be dipped in water when used, and for the whole of the brickwork jaggety to be used in water when laying the bricks, in proportion of one pound of jaggety to one parah of Chunam.

5. The whole of the walls are to be rubbed inside and out with a moist brick on which has been laid a small portion of Chunam until they have been brought to a tolerably even surface, when they will be buff-colored. The roof will be plastered inside and out with Chunam in proportion of one of lime to $\frac{3}{4}$ of soorkhee and $\frac{3}{11}$ of sand well beaten together and afterwards ground and kept 2 or 3 days to rot before being used, while rotting, it should be kept soaked with water and protected from the sun and rain when this first coat is thoroughly dry the 2nd coat is to be laid on. It is to be of good lime pretty prepared in proportion of one of lime to one of fine sifted river sand, $\frac{1}{8}$ superior well selected yellow ochre and $\frac{1}{8}$ soorkhee, carefully sifted

Sifted. These materials must be carefully measured and properly mixed up before they are wetted; mix sufficient quantity of good sweet water grind them sufficiently for fine plaster, and when applied to the wall particular care must be taken that the bricklayers do not use their iron towels, but their wooden ones (wooden ~~boards~~ ~~boards~~) with these rub the plaster till it is sufficiently dry to receive the polish with the usual polishing stone which should be rubbed fully more than 4 or 5 hours till the plaster gets a good polish and is well consolidated; after the plaster has been exposed for 12 hours take a clean towel and wipe the wall throughout till it is quite dry on the 2nd day a cooly must be detailed to watch the plastered wall and wipe off the perspiration.

6. The dome work to consist of well burnt bricks (6x3x1) and great care must be taken with this work. The Chunam is to be made with one of lime to $\frac{3}{4}$ of clean gritty sand and $\frac{3}{11}$ soorkhee.

7. The Kerandah side openings

with English hinges, bolts &c.

11. Of the 12 windows, each $3\frac{1}{2} \times 4\frac{1}{2}$, 8 are to be made of stout battens as per Drawing, the remainder viz the 4 windows on the East and West sides respectively are to be half ~~battens~~ and half Venetian provided and put up in the places shown on plan the frames to be 3×3 and the shutters to be of 1" teak plank and fixed so as to open internally the windows are to be made of best teak wood as specified for the doors.

12. The 4 windows on the East and West sides respectively are to be provided with Kodunguis, or sun-shades as per Drawing attached to the Plan.

13. Doors and Windows are to be painted Chocolate color and the item to be charged to the Sundries allowed in the Estimate. The Chocolate color is formed by grinding the Sumat-red ochre of the bazaar with linseed oil and toning it down with a few drops of black it is then mixed with sufficient

Sufficient oil and laid on with a palmyrah brush. ^{2/3T}
All rubbish collected during the execution of the work - to be carried off and shot at a proper distance from the building and the whole of the place to be thoroughly cleaned up, before being given over for occupation.

Dickson, Lieut. Col. R. S.
Supt. Engineer, Tanjore

Supt. Engineer's Office, }
Tanjore, 12th Nov, 1874 }

251

Sangre District
Abstract Estimate No of 1874-75
 Work — Constructing Range office at Combaconm
 and Munnargoody

Quantity Description of Work Rate Amount Total

Range Office at Combaconm

890	Cubic feet of Concrete — at	19	975.6
4797	- S of brick in Chumam — at	23	674.93
1387	- S of Archwork brick in Chumam at	26	216.16
$\frac{60\frac{1}{2}}{100}$	S of teellis work in terrace — bricks — at	6	310.6
$43\frac{3}{4}$	S of plastering with 2 Coats of Chumam	24	975.
6	S of flooring with brick on edge	78	48.
6	Teak wood Batten doors $3\frac{1}{2} \times 6\frac{1}{2}$ —	18	108.
8	- S Windows $3\frac{1}{2} \times 4\frac{1}{2}$ with ornamental work on top —	15	120.
4	- S - S $3\frac{1}{2} \times 4\frac{1}{2}$ for side faces —	12	48.
4	Pop Ventilators to be provided on top of domes —	3	12.
2	Iron tie rods 1" diameter 11' long	3	6.
4	Koodingais on E & W sides Windows	10	40.
	Lundris in chubing eccavating foundation, pointing to the doors and Windows &c &c.		51.63

Compensation for site at Combaconm	Ruppes	1520.
Total Ruppes		300.
Range Office to be built at Munnargoody	Rd.	1520.
Compensation for site	Ruppes	100.
Total Ruppes		1620.
Grand Total Ruppes		3440.

Supt. Engr's Office
 Sangre 12th November
 1874.

Picay. Nofar Lieut. Col. R.E.
 Superintendent Engineer Sangre

Enclosure in a letter.
 from the Engr's Office
 Sangre to the Secretary
 of Govt. N.W.S. No. 1924
 dated 12 November 74

P. N. 7225/74

Specification Report
 to accompany Plan
 of building for constructing
 Range Office at Combaconm.
 - Sangre -
 - Combaconm -
 - 8007 -

2926 Sangre/75
 in B. 1491

Office of the Inspecting Engineer
for Civil & Military Buildings
Chennai 13th September 1873
To,
Colonel C. J. Ford R.E.
Inspecting Engineer for Civil
& Military Buildings
The District Engineer
Bangalore

From,
Colonel C. J. Ford R.E.
Inspecting Engineer for Civil
& Military Buildings
The District Engineer
Bangalore

Sir, With reference to para 6 of
your letter of the 10th September, No 13,
I have the honor to request you will
prepare and forward plans and
estimates for Range Office for No 2
and 5 Ranges.

The Nellore plan need not
be adopted in all its details. If
more convenient, two large rooms
may be enclosed in the verandah
instead of four small rooms at
the

Enclosure in letter
from the Inspecting
Engineer Bangalore
Secretary Secy to P.M.D.
No. 19 dated 12 March 74.

P. M. 2225/74
3

Estimate for work:
Constructing Mess Office
at Pudukottai
& Kumbakonam

90-26 Aug/75
B. 491

the corners. A cross wall may be substituted for the screen and the rooms made slightly larger, if necessary. I agree with you that it will not be advisable to build an Officer's Office in every station and I think you are right to retain the buildings at present, used as District and Range Offices at Tanjore.

I have &c

Signed/ P. A. Ford Col. R.
Inspecting Engineer for
Civil & Military Buildings.

Ex. me Copy/

Recd. Notes/ Lieut. Col. R.
Superintending Engineer Tanjore

Enclosure in a letter
from the Insp. Engineer
Tanjore to the Secretary
Govt. P. W. D. No. 1924
dated 12 November 74.

P. W. 7225/74
3

Copy of letter no. 1104,
dated 13 September 1873,
from the Inspecting Eng.
for Civil & Military
Buildings to the District
Engineer Tanjore

90-26 May 75
in B. N. 191

N^o 1924 Superintending Engineer's Office
Bangalore 12th November 1876

From,

Lieut Colonel R. A. Roberts
Superintending Engineer
Bangalore

To,

Colonel C. W. Walker
Secretary to Government
Madras

Sir,

I have the honor to call your attention to the correspondence noted marginally. You will observe that Major Mead reports that Range Office Buildings are required for only Ranges IV, II and V in this District, and that the cost of these will be Rupees 2400 each or what is called the Vellore Plan.

2. In his reply Colonel Ford
P.O. states that the Vellore Plan
need not be adopted in all its details,
and explains how these deviations can
be made.

3. The so-called Vellore
Plan is enclosed. It will be seen
that this Plan is an adaptation of
the old Traveller's Bungalow, and
it has all the appearance of an
enlarged go-down.

4. There appears no occasion,
at the present day to repeat these
unsightly buildings, as they cannot
but fail, by their common appearance,
to provoke remark at the poverty of
invention of a Department that
cannot

531
cannot get beyond a go-down as
their standard for a public building.

5. Independently of this, ^{reg.}
with the increased and almost
daily increasing price of wood,
structures of the kind under reference
are now very expensive to build,
and costly to maintain, in as
much as they consist of materials
constantly requiring repair and indeed
even tending to decay. Their abandon-
ment therefore in favour of more
permanent structures is a matter
of urgency and necessity.

6. The Plans I now submit
for a Range Office contains no
perishable material beyond of course
that

that required for the doors and windows. -
The space afforded is as much as is
required, and the Estimate Rupees
1520 is but little more than one half
that required for the Vellore House. -

7. It will be observed that at
Combacorum the cost of the side
will be Rs 300, but at Mannaroodi
a suitable site can be obtained for
Rs 100. -

8. In the event of these 2
Range Offices being sanctioned and
of there being money available to allot
for the service, one half of the amount
of each, or Rs 1720 will all can be
spent upon them during the current
year. -

I have

I have the honor to be

Sir

Your Most Obedient Servant

Richd. Motar Esq. M. A. C. E.

Superintending Engineer

Bangalore

P. H. Rept.

Proceedings of the Madras Government

Read the following.

From the Superintendents } (H.R. No. 1924 d/12 Nov. 1874
Sanford

G.O. No. 1459 d/26th May 75
Lieut. Col. Roberts

design for Range Offices in
the Sanford District does not
commend itself to Government,
either by the convenience of its
arrangements, or its relative cost
for the area covered.

The building is cut up
inconveniently by arches and
columns, and is destitute of
verandah space, which is
always a great ^{desideratum} ~~convenience~~.

The Chief Engineer has
circulated a drawing and mem-
orandum relating to the subject
of Range Offices, which

should

x No. 262 d/8th May 75

G.O. No. 1924 d/12 Nov. 1874
H.R. No. 1924 d/12 Nov. 1874

P. H. 1874 Report.

From the Superintendents

The Secretary to
the Government

to the Secretary to
the Government

No. 1924

Letter No. 1924

Sept. 16th 1874

Recd. 1924

for the Secretary to
the Government

for the Secretary to
the Government

for the Secretary to
the Government

for the Secretary to
the Government

for the Secretary to
the Government

for the Secretary to
the Government

for the Secretary to
the Government

for the Secretary to
the Government

for the Secretary to
the Government

for the Secretary to
the Government

for the Secretary to
the Government

should be consulted - And
if it be desired to adopt arched
roofs and to dispense with
timber as much as possible,
the principle of Mr. Clark's
Tied Arches may, it is thought
be introduced with advantage.

vide paper read at the Bengal
Social Science Meeting held at
Calcutta on the 26th March /72

Amv

The D.E. Sangre

s-c desps 8-6-75

4491/

7225
Govt. of 1874 Madras.

PUBLIC WORKS.

To The St. Engr.,

De. & C.

Recd.

Tanjore

26 May 1874, No. 459

Nos 491-492

Range Offices at Cumbacoore
and Munnargoody, Tanjore

Passing orders on the
Plans and estimates
for constructing
forwarded by the
Superintending Engineer.