

*Proceedings of the Madras Government, Public Works Department,  
20th January 1876.*

No. 233.

Read the following letters :—

From Captain R. F. MORRIS, R.E., District Engineer, Trichinopoly, to Major-General G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Trichinopoly, 26th June 1875, No. 340.

With reference to letter No. 630, dated 25th April 1874, from the Inspecting Engineer for Buildings, I have the honor to forward plan, estimate, and specification for a second-class range and Overseer's office at Keelapalur, and an estimate and specification for a similar one at Musiri.

2 Abstract Estimates.  
2 Specifications.  
1 Plan of Office.  
1 Site Plan.

2. The plans have been prepared in accordance with the instructions contained in G.O., No. 262, dated 8th March 1875, and the only noticeable difference between the two is that the floor of the office at Keelapalur is laid with paving tiles instead of stone, which cannot be obtained there. As the buildings are to be of a permanent character and jungle-wood cannot readily be procured here, teakwood is provided for throughout.

3. At Musiri a small thatched building, altogether inadequate for the purpose, is used as a range office. At Udaiyarpolliam, the present head-quarters of No. 3 range, there is no accommodation whatever, a portion of a chuttrum being used as an office. No site has been fixed upon at Keelapalur pending the decision of Government with regard to the strong recommendation made in last year's Administration Report, that the ranges should be made to correspond with the Judicial and Revenue divisions of the district, which arrangement would at the same time more nearly equalize the work between the ranges.

No. 234. From the same Officer, dated Trichinopoly, 19th August 1875, No. 478.

REFERRING to your Memorandum, No. 283, of 23rd July 1875, I have the honor to retransmit the plan and estimates,\* &c., for constructing range offices at Keelapalur and Musiri respectively, corrected in accordance with your instructions.

\* Rupees 5,380.  
" 5,060.

No. 235.

ORDER THEREON, 20th January 1876, No. 120.

CIVIL WORKS, No. 12:

\* Keelapalur, Rupees 5,380.  
Musiri, " 5,060.

that the head-quarters of the Udaiyarpolliam range will remain at Udaiyarpolliam.

(True Extract.)

(Signed) G. W. WALKER, Major-General, R.E.,

Secretary to Government.

To the District Engineer, Trichinopoly.  
" Controller of Public Works Accounts.

Exd. S. T. Austin.  
Spare Copies

No. 1.—ESTIMATE PARTICULARS.

Main Budget Head to which chargeable.

*Provincial*

Purpose of work as given by District Engineer. *Range & Mueseri's Office at Kellapalur & Musiri.*

Original sanction for the preparation of the detailed estimate. Date and number sanctioning and Public Works Department. *Letter from Insp. G. East for Buildings No. 630 of 25 April 1874*

Amount of present estimate and its district number. *Kellapalur Rs 5380 Musiri .. 5060*

Budget head to which chargeable if sanctioned (in detail.) *New Works Civil Buildings*

Provision has been made in the Budget of in anticipation.

(— No.)

Funds can be made available during the current year.

(Yes or No, and state how in former case.)

*Not probable*

Brought forward as urgent.

(Yes or No; and if former, state by whom.)

*Not stated*

Number on last revised list of works approved and brought forward in due order of precedence.

*Not entered*

No. Yes No.

DOCUMENTS IN FILE.

From District Engineer—

1 Covering letter No. 340 date 26/4/75  
+ 178 of 19/8/75

1 Letter from Range Officer, No. 111

1 Detailed Estimate

2 Abstract do.

2 Plans

2 Specification Report

From Office—

Memor. No. 283 of  
23/7/75 + Cir. No. 262 of 8/7/75  
Original sanction, No. 630, date 25/4/74  
for detailed estimate preparation.  
from Insp. Engr for  
Buildings &c.

| Orders and Proceedings. | No. | Date. | Under<br>P. W. D.<br>G. O. |
|-------------------------|-----|-------|----------------------------|
| P. W. Department        | ... | ...   | ...                        |
| Public do.              | ... | ...   | ...                        |
| Revenue do.             | ... | ...   | ...                        |
| Financial do.           | ... | ...   | ...                        |
| Military do.            | ... | ...   | ...                        |

CIRCULAR MEMORANDUM.

No. 262.

IN forwarding for the guidance of the District Engineer a design for a 1st Class Range Office, a 1st Class Range and Overseer's Office connected, and an Overseer's Office, which have been drawn up by the Inspecting Engineer for Buildings in communication with the Chief Engineer, the undersigned is directed to record the following notes by the Chief Engineer for the information of Officers designing Offices for other classes of Range and for Sub-divisional Officers.

2. The principle on which the size of the office rooms should be based is that of a uniform area for each member of the Office Establishment, Draughtsmen being allowed double space. The strength of the 1st Class Range Establishment being compared with the space allotted on the standard design, the data for the proper reduction of space for the inferior classes can be easily obtained.

3. The reduction above mentioned will be limited by the dimensions of the room assumed as the minimum for any office.

4. The minimum size of room for an office for a Range will be 12' x 12'.

5. The dimensions of Officers' rooms for 2nd and 3rd Class Ranges are not to be less than those of the minimum Range Office, viz., 12' x 12'. For a District Engineer's Office room 18' x 18' would be a proper size.

6. Sub-divisional and special Officers may be allowed three rooms 12' x 12'.

7. For Stores a space equal to that of the office room should suffice.

8. The Plans lithographed embody the ideas of the Chief Engineer with the exceptions noted in them.

By Order,

FORT ST. GEORGE,  
8th March 1875.

(Signed) A. deC. SCOTT, Major, R.E.,  
Under Secretary to Government.

To Superintending Engineers.  
,, District Engineers.  
To the Executive Engineer, Wynaad.

Exd. S. T. Austin.  
Spare Copies

Endorsement

No 283

Returned to the D.E.  
Trichinopoly with notes  
on plan and estimate, with  
a request that he will be good  
enough to amend the specification  
and estimate in accordance  
therewith.

M. Adrb. Scott. Major R.  
Under Secy to Govt. R.D.  
Potacamund  
23<sup>rd</sup> July 1875

To  
The D.E. Trichinopoly

D. 1875 Sept.

No 4254

From

The District Engineer  
Trichinopoly

No 360

Dated 26 June 1875

En: 6.

Recd 20/1/1876  
No 283

Returned

No 283

Returned to the District Engineer Trichinopoly  
with note on plan and estimate with a request  
that he will be good enough to amend the  
specification and estimate in accordance therewith.

Potacamund  
23<sup>rd</sup> July 1875

District Engineer's office  
Madrach  
26<sup>th</sup> June 1875  
P 340

From  
The District Engineer  
Madrach  
To The Secretary to Government  
P. W. D  
Madrach

Sir  
With reference to letter h<sup>c</sup> 630 dated 25<sup>th</sup>  
April 1874 - from the Inspecting Engineer  
for buildings I have the honor to forward  
Plan & estimate and Specification  
for a 2<sup>nd</sup> class Range and Quarters office  
at Keelapalur, and an estimate and  
Specification for a similar one at Masore  
Encls: 6.  
Abstracts }  
Estimates } 2.  
Specifications }  
Plan of office } 1.  
Site Plan } 1.  
6

The plans have been prepared  
in accordance with the instructions contain-  
ed in G.O. h<sup>c</sup> 262 dated 8<sup>th</sup> March 1875  
and the only noticeable difference between  
the two is that the floor of the office  
at Keelapalur is laid with paving tiles  
instead of stone which cannot be  
obtained there. As the buildings <sup>are</sup> to be  
of a permanent character and jungle

23- July 1875.

wood cannot readily be procured.  
here teakwood is provided for throughout.

At Musiri a small thatched building, altogether inadequate for the purpose, is used as a Range office. At Udangarpollam the present head quarters of No III Range there is no accommodation whatever a portion of a Chuttrum being used as an office. No site has been fixed upon at Karlapalem pending the decision of Government with regard to the strong recommendation made in last year's Administration Report that the Range should be made to correspond with the judicial and Revenue divisions of the District which arrangement would at the same time more nearly equalize the work between the Ranges.

I have the honor to be

Sir

Yours Obedt Servant

R. H. M. S. Captain

District Engineer

Rev. 24/1/1901

Noted Particulars  
 Note of Remarks  
 one Comparative Table  
 the Super Design for a 1st Class Range  
 Circular Memo No 262 of 8th March 1875  
 With 7 Papers to the Dist. Eng. Inclined

D. W. 1875 Dept.  
 From. No: 4252  
 The Dist Engineer  
 Trichinopoly  
 To. The Secretary to Govt  
 S. P. W. Madras.

No 340.

Dated 26th June 1875  
 Recd 30th June 1875  
 Reference. { Dist. Eng. No 630  
 25 April 1875

Enclosures.

Submits Plans  
 Estimate, &c. for  
 Constructing Range  
 Office at Nilapaluri  
 & Masiri.  
 1875/608/75  
 7/75

Submitted 1875/75/26/75

## Notes of Remarks

On Range and Compound Office at Masiri  
 and Nilapaluri.

## Notes on Plan.

Differences. Range Office  
 room reduced from 21 x 14 to  
 18 x 14. Officers room from  
 14 x 14 to 12 x 14. Record room  
 from 14 x 14 to 12 x 14. Store  
 room from 21 x 14 to 18 x 14.

The number of Columns  
 round verandah is reduced  
 from eleven to seven, in other  
 respects the District Engineer  
 Plan agrees with the Standard  
 of July 1874 vide Circular  
 of 8th March 1875.

The general arrangements  
 are approved.

## Notes on Specification

Showering. Six inches for the  
 stone slab is too much,  
 3 inches would be ample.  
 The asphalt mixture may  
 be

The Standard Plan is  
 for a 1st Class range this  
 is for a 2nd Class. Range  
 the reduction is in accordance  
 with Circular Memo No 262  
 of 8th March 1875.

The estimate and  
 Specification altered  
 accordingly.

be 7" deep by 5" wide.

## Notes on Estimate

altered accordingly

The rate for brick work should be per 100 Cubic feet not per Cubic foot.

will be attended to in the next Schedule of rates -

The item "tiled roofing" does not accord with that in the District Schedule. The Estimate rate includes repairs. The Schedule excludes them. This should be attended to as comparison of rates is otherwise impracticable.

Cable. The nature of the foundation soil should be ascertained & stated.

attended to.

Signed / A. S. Scott Major R.E.  
Under Secy to Govt.  
P.O.D.

G. F. Massie C.E. & A.  
D. E. Lindy

Alfred

With business office  
Lucknow  
21<sup>st</sup> Aug 1875

as per plan of ...

prepared in the following proportion 100 lbs asphaltum 75 lbs sand 3 lbs of Coal tar. A bed of concrete 3 inches thick well rammed and levelled should be substituted for the brick on edge.

Roofing The Specification should be one course of flat tiles with pan tiles over. Sound and well burnt.

Specification corrected accordingly.

Chimney borders at 2 feet clear interval; ridge to be plastered.

Wood work It is not understood why purlins are required for the roof or where they are to be placed.

The transverse beams or girders over officers and record rooms have been called purlins though of course they are not. Such with the increased scantlings in the rafters of these rooms now ordered they are not required and have been taken out of the plan and

placed. The rafters over the Officers room and store should be 7 inches deep & 3 inches wide. The brass estimate which are corrected in the Errata should be

be

Specification to Accompany Estimate  
for Constructing a Range and  
Customs Office at Musiri.

1. The foundations to be excavated to the several depths shown in the drawings or to such depth as the Executive Officers may think necessary to secure a proper foundation.

2. All surplus earth from the trenches to be removed to a distance not exceeding 100 yards and deposited as directed.

3. No foundation to be laid till the excavations have been examined by the Executive Officers who will give the Contractor written orders to proceed.

4. All the brickwork to be executed in Mortar composed of one part well-burnt Churnam to two parts of clean sharp sand.

Mr. 5408/95

No 10/16 B.A. 233

and to be properly bonded throughout  
to bricks to be sound, well burnt and  
of a uniform size.

Flat arches 15 feet high  
to be turned over all doors and  
windows.

6. Floor (except verandah)  
to be of cut stone 3 inches thick with  
joints squared  $\frac{3}{4}$  of their thickness  
and pointed with Chunar verandah  
floor to be asphalted  $1\frac{1}{2}$  inch over  
a layer of concrete 3" high well  
rammed and levelled asphalt  
to be mixed in the proportion of  
100 lbs asphalt 75 lbs sand and 3  
lbs coal tar.

7. The timbers to be sound  
well seasoned, bent throughout, the  
timbers of the roof to be of the  
scantlings marked on the plan the  
couplers to be placed  $1\frac{1}{2}$  feet apart  
from Centre to Centre the piers to  
be  $\frac{1}{4}$ " thick 2" wide and 6" apart  
from Centre to Centre.

8. The Store rooms to be provided  
with  $1\frac{1}{2}$ " teak batten doors and 1" teak  
batten windows all other doors to be of  
 $1\frac{1}{2}$ " teak  $\frac{1}{2}$  pannelled & venetianed and  
the windows 1" teak venetianed with  
all necessary hinges bolts &c.

9. The roof to be covered with  
one course of flat tiles with pantiles  
over, sound and well burnt, Chunar  
borders at 2 feet clear intervals  
ridge to be plastered.

10. The building throughout  
to receive 2 coats of the best plaster

11. All doors windows and  
bressummers to receive 3 coats of  
paint and the roof 2 coats of  
wood oil.

G. H. M. S. D. Captain R. L.  
District Engineer

Dist Engr. Office  
Machinipooly  
20<sup>th</sup> August 1870  
Compd. A. R. S.

Provincial. Trichinopoly District New work  
 Civil Building. No. 2 or Musiri Range.  
 Abstract Estimate No. 1875-76.  
 Work. Constructing a new Range and Overseer's  
Office at Musiri as per photographed design received with  
Circular Memo. No. 362, dated 8th March 1875.

| Contents                             | Particulars                                                                                                                              | Rate | Per    | Amount   |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------|--------|----------|
| <u>Range &amp; Overseer's Office</u> |                                                                                                                                          |      |        |          |
| 8735                                 | Left Brick in chumam                                                                                                                     | 12   | 100    | 1048 3 2 |
| 231 3/4                              | Flat archwork                                                                                                                            | 26   | eff    | 36 3 5   |
| 72 65                                | Sft of Plastering 2 coats                                                                                                                | 2 8  | Sq     | 181 10 " |
| or say                               | 72 3/4 Squares                                                                                                                           |      |        |          |
| 62                                   | Running sft of cornice at ends of gables of roof, brick in chumam with Plastering                                                        | 4    | eff    | 15 8 "   |
| 2946                                 | Sft Roofing with teakwood paper                                                                                                          |      |        |          |
| 29 1/2                               | nails, flat and fan tiles with squares. chumam borders &c complete                                                                       | 20   | " Sq   | 590 "    |
| 277 3/4                              | Left Stone flooring 3" high including Pointing                                                                                           | 1 4  | eff    | 347 3 "  |
| 583                                  | Sft Asphalt 1 1/2" thick over layer of concrete 3 high well rammed and levelled in proportion with asphalt 1/5 lb Sand and 3 lb coal tar | 25   | Sq     | 145 12 " |
| 285 3/4                              | Left Teakwood wrought and put up                                                                                                         | 4    | eff    | 1143 "   |
| 6                                    | Half painted & half varnished teakwood doors, with frames, bolts hinges &c, complete 4' x 7'                                             | 32   | " each | 192 "    |
| Carried Over                         |                                                                                                                                          |      |        | 3699 77  |

Trichinopoly District

Mr. S. G. S. 1/35

Specification to accompany estimate for constructing a Range and Overseer's office at Musiri.

No. 20/1/76 B.M. 233

|                 |                                                                                         |           |
|-----------------|-----------------------------------------------------------------------------------------|-----------|
| Brought forward |                                                                                         | 3699 7/11 |
| 9               | Veneered Teakwood windows - 2 1/2 x 3 1/2 - 18 each                                     | 162 "     |
| 2               | Teakwood Battens, doors, with frames, hinges, bolts &c. complete 4' x 7' - 22 1/2 "     | 458 "     |
| 4               | Teakwood, Battens windows with frames, wooden bars hinges &c. complete 3 1/2 x 5 - 12 " | 48 "      |
| 1               | Teakwood, Battens window &c. - 2 1/2 x 3 1/2 - 68 "                                     | 68 "      |
| 13 1/2          | Squares Pointing 3 coats, Red ochre to doors, windows and brasses - 3 15 Sqs            | 51 3 "    |
| 36 1/2          | Squares Wooding to roof &c. - 3 "                                                       | 73 "      |
| 73              | Whitewashing - 2 "                                                                      | 9 2 "     |
| 162             | Excavating foundations - 1 Sqr                                                          | 10 3 "    |
| 85              | Filling in - 6 "                                                                        | 2 10 6 "  |
|                 | Scaffolding - 35 "                                                                      | 35 "      |
| Total           |                                                                                         | 4142 10 1 |

|                      |                                      |          |
|----------------------|--------------------------------------|----------|
| <u>Compound Wall</u> |                                      |          |
| 40 1/2 Sqr           | Mudwalling                           | 101 3 10 |
| 32 3/4 Sqr           | of tiled coping in<br>chumam 9" high | 163 12 " |
| 8 1/2 Sqr            | Mud Plastering 2 coat                | 49 3 6   |
| by 779 Sqr           | Brick in chumam                      | 93 7 8   |
| 42 3/6 Sqr           | Plastering with<br>1 coat of chumam  | 73 13 3  |
| <u>Carried Over</u>  |                                      | 4624 2 4 |

|                                                              |                                |          |
|--------------------------------------------------------------|--------------------------------|----------|
| Brought forward                                              |                                | 4624 2 4 |
| <u>Farming Road.</u>                                         |                                |          |
| 20 1/4                                                       | Earthwork including Sectioning | 12 12 "  |
| 128                                                          | Gravelling the above           | 52 " "   |
| <u>Slab Drain</u>                                            |                                |          |
| 7 1/2                                                        | Rough stone in chumam          | 16 4 "   |
| 186                                                          | Brick in chumam                | 22 5 1   |
| 47 1/4                                                       | Slab Stones                    | 4 6 10   |
| Excavating foundations to compound wall and well (hard soil) |                                | 15 " "   |
| Clearing rubbish & stepping the well                         |                                | 35 " "   |
| 1                                                            | Teakwood gate 9x5              | 25 " "   |
| Compensation for 158 acres of Punjab land                    |                                | 23 11 2  |
| Total                                                        |                                | 4830 9 5 |
| Sundries & Contingencies                                     |                                | 229 6 7  |
| Total Estimate Rupees                                        |                                | 5060 " " |

District Engineer's Office  
 Dated July 26<sup>th</sup> August 1875  
 Compd. a. r. s.

J. H. Morris. Captain R.E.  
 District Engineer.

P. W. 1895 Sept.  
Trichinopoly District  
From No. 5108  
The District Engineer  
Trichinopoly

The Chief Engineer  
P.W. Department  
Maurice

No. 178 for Range & T.  
Station 600 m from  
at Ymanis  
St. Joseph's  
mile S of Co  
Estimate of \$5300

Dated 19<sup>th</sup> Dec 21<sup>st</sup>

Recd 22 } August 1951  
11 Sept 1951  
3 sent to D.E.  
Inclosure paid  
C.R. 2951/57  
1957

Resubmits for Executive plan  
Estimates & for Constructing  
Range offices at Killaapulur  
and Muesery Rs. 5380 and  
5060 respectively

With orders

[illegible]

Michinojoly, District

Francisco

Devil & Devils

New York

Waters

William H. A.  
1875-76

20/75

[illegible]

to the Editor of the

Ad Mauri.

Estimado Sr. D. D. 60-

Pro 20/1/16 B N 233

1. *Handwritten signature*  
 2. *Handwritten signature*

4254  
5408  
Sect. of 1876

PUBLIC WORKS

To

214 Jan 17  
Richinopolis

Date

Per

By

Encl.

G. O. 20 Jan. 1876, No. 12

232-233

Owner of the Mill  
+ the Mill, Richinopolis  
For - Estimate under  
to Pas 5380 and 5000  
- including for constructing  
- sanctioned.