

(1) Number of pages _____

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MADRAS RECORD OFFICE.

Government of Madras.

Public Works **DEPARTMENT.**

G.O. No. 2030	(W)	Press ~~Mis.~~
Dated	10-12-	1877.

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

10th December 1877, No. 2,030 W.

Buildings and Roads.

Civil Works.

Read the following paper:—

No. 100. From Major H. R. MEAD, R.E., District Engineer, South Arcot, to the Chief Engineer, Public Works Department, dated Camp, Cuddalore, 3rd November 1877, No. 170.

I HAVE the honor to submit, for the sanction of Government, estimates accompanied by plans and specifications for the undermentioned Police Buildings proposed by the Police Department to be carried out by the Department Public Works in the ensuing year:—

Three plans.
" estimates.
" specifications.
Two site plans.

Tindivanam Division.

1. Constructing a 4th-class Station at Kalianur, Tindivanam Taluq,	rs.
Estimate	1,067

Cuddalore Division.

2. Constructing a 4th-class Station at Muttathur, Villapuram Taluq,	
Estimate	1,047

Virdachellum Division.

3. Constructing four Huts at Pinnalur, Chillambram Taluq,	
Estimate	1,440

Total ... 3,554

2. The estimates have been prepared at the request of the Superintendent, and they have met with the approval of the Inspector-General. The plan of the huts has been prepared according to the suggestion of the Inspector-General, as directed in your No. 1,509, of the 7th June 1877; the design for the stations is the standard one.

3. In 1871-72 a station was built at Kalianur at a cost of Rupees 390 on the sanction accorded in G.O., No. 529, dated 23rd February 1871. This building has been abandoned as it is not worth repairing. The causes of the failure of this building are two: 1st, the site is bad, being close to a square tank which is much higher in level and keeps the ground always a swamp; 2nd, the building is constructed of burnt brick in clay for foundations and sun dried bricks in clay for walls. These walls had consequently crumbled away, and very little of the roofing materials is good. Another site for the new station has been selected on the opposite side of the road to the present station; this is the only building site available. It is however proposed to raise the ground, for which a sum of Rupees 60 has been now included in the estimate.

4. The site plan for the huts at Pinnalur will be forwarded on its receipt from the Superintendent.

No. 11. ORDER THEREON, 10th December 1877, No. 2,030 W.

The plans and estimates for the undermentioned Police buildings are sanctioned :—

1. Police Station at Kalianur	...	...	rs. 1,067	No. 231
2. Do. do. at Muttathur	...	...	1,017	" 232
3. Four Huts at Pinnalur	...	...	1,440	" 233
Total ...				3,554

B of 1877-78.

- The work will be carried out from the provision for Police works to be made in the Public Works Budget for 1878-79.
- This sanction has been registered as Provincial and numbered as shown above.

(True Extract.)

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

To the District Engineer, South Arcot.
" Examiner of Public Works Accounts, with three Estimates.
" Inspector-General of Police.
" Judicial Department.

Specification to accompany the Estimate for constructing Police huts for 1 Head Constable and 3 Constables at Pinnalur.

Amount of Estimate Rs. 14,410.

Description

2. The Estimate provides for constructing 4 huts one of 18x10 ft for a head constable and each of remaining three huts 12x10 ft for a constable with a verandah of 5 ft wide all round. The huts will be built on one row & a court yard of 12 ft wide in rear of the huts will be enclosed by a compound wall of 6 ft high including coping. There will be a passage of 3' wide to the court yard. The roof of the huts will be supported on by masonry pillars and by walls of sundried bricks in clay. The foundation and superstructure of main and Verandah pillars will be of brick in chunam. The main walls between pillars and retaining walls of verandah including foundation will be of sundried brick in clay. The compound wall and pilasters in it will be built with burnt brick in clay.

Foundation

3. Foundation for main pillars will be 2 ft square & 4 1/2 ft deep and for those in Verandah 1 1/2 ft square & 4 1/2 ft deep. The foundation of walls between main pillars and the retaining walls of the verandah will be 4 1/2 ft deep but the former will be 2 ft and the latter 1 1/2 ft broad. Foundation for compound wall will be 1 1/2 ft broad & 2 ft deep and for pilasters 2 ft broad & 2 ft deep.

Superstructure

4. The main and verandah pillars will be 1 1/2 ft square.

square and 9 and 5 ft high respectively. The walls between main pillars will also be 9 ft high with 1 ft brick work in chunam on top. The compound wall will be $1\frac{1}{2}$ ft broad and $5\frac{1}{2}$ ft high with coping of $1\frac{1}{2}$ ft broad and $\frac{3}{4}$ ft high and the pilasters in the compound wall will be $\frac{1}{2}$ square with caps of 2 ft square and 1 ft high.

5. The Pillars, Top of main walls to a depth of 1 ft coping of the compound, Caps to Pilasters and Flat arch work over the door and windows to be of brick in chunam. The compound wall and Pilasters to be brick in clay; the bricks of English size are to be saturated in water before being put into work and English bond to be observed throughout.

The mortar is to be prepared with 1 lime to 2 of sand to be carefully mixed and ground in a mill or pounded with sticks as may be most convenient.

All lime to be slaked on the work in the presence of the Overseer.

The main walls between pillars including foundation and the retaining walls in verandah will be of sundried brick in clay. The clay to be well tempered; if very plastic, a proportion of sand to be added and worked down with water till it is perfectly free from lumps before being put into work.

The caps to the Pilasters and coping over the compound wall will be plastered with two coats of chunam. The compound wall will be pointed with chunam.

Masonry

Mortar

Lime

Sundried brick in clay

Plastering

Pointing & whitewash

the joints raked out to a depth of $1\frac{1}{2}$ inches and washed over with 2 coats of whitewash.

The main walls of huts will be plastered with mud and whitewashed with 2 coats of lime.

The basement to be filled in with earth well watered and rammed till thoroughly consolidated over this brick jelly with clay to be laid 6" deep and perfectly levelled and rammed.

The roof over the huts will consist of palmirah couples with single collar piece, rafters tarred & reapers well nailed down. Couples and rafters to overlap at least 9" to be set $1\frac{1}{2}$ ' apart and secured properly to the wall plates and reapers 4" from centre to centre. The whole will be covered with single course of plain tiles of best description procurable and with chunam borders.

The wood for the summers & wall plates and for doors and windows to be well seasoned country wood (Palay) of the best description procurable fairly and neatly finished off.

The hut for head Constable will be provided with 1 door & 2 windows and each Constable hut with 1 door and 1 window. Each door measuring 3x6 ft and each window 2x3 ft with frames and iron hinges & fittings complete.

The excavation for foundation is to be taken out to a depth of $1\frac{1}{2}$ ft at highest point of site; the bottom is to be taken perfectly level any superfluous excavation is to be filled in again and well rammed.

When work is finished the whole compound is to be properly cleared up and all debris removed and ground levelled.

District Engineer's office, South Arcot
Lundalove 28 August 1877


Major R.E.
District Engineer

South Arcot District
Vindachellum Division
Cheddumburam Taluk

Enclosure No 16

Specification for Construction
 Police huts for 1 Head Constable
 and 3 Constables
 at Pinnali.

Amount of Estimate Rs 137

Specification to accompany the Estimate for
 constructing a fourth Class Police Station at Pinnali
 in Indiananur Taluk South Arcot District.

1. Amount of Estimate Rs 1000

Description

2. The Estimate provides for constructing a police
 station containing a hall of $15\frac{1}{2} \times 12$ ft, a room 14×17 ft
 and a Verandah of 7 ft wide in front of the building.

Foundation

3. Foundation for the walls and Verandah base-
 -ment will be 5 ft deep built in 2 footings. The founda-
 -tion for outer walls and Verandah basement will be
 3 ft broad at bottom and $2\frac{1}{4}$ ft at top and that for the
 walls of the room $2\frac{3}{4}$ ft at bottom and $2\frac{1}{2}$ ft at top. All
 foundations are to be laid on a bed of 1 ft concrete ha-
 -ving an over lap of 6" all round.

Basement

4. Basement for the outer walls will be 2 ft broad &
 $1\frac{1}{2}$ ft deep for the room $1\frac{3}{4}$ ft broad and $1\frac{1}{2}$ ft deep
 and for the Verandah basement 2 ft broad & 1 ft deep.

Superstructure

5. Outer walls will be $1\frac{1}{2}$ ft thick and those of the
 room $1\frac{1}{4}$ ft thick and $9\frac{1}{2}$ ft high, the Verandah pillars
 will be 1 ft square & 8 ft high. The side walls of the ventilators
 on the terrace will be 6" thick and the same in height with
 6 pillars 6" square & 6" high supporting the roof. Interme-
 -diate between pillars being enclosed with honey comb
 work.

Flat Arch work

6. The door, windows and ventilator will have
 flat arch work over them, the arches are to be neatly
 turned.

turned and only selected hard bricks used, joints to radiate correctly from centre, the bricks are to be ground down to the required shape and they bricks to be well driven home, joints are not to exceed $\frac{1}{4}$ of an inch in thickness. No special allowance is made in the Estimate for this work but to cover the cost of it only half the quantity of void is deducted.

7. Outside of the outer walls & the Verandah will be provided with cornice work as shown on the plan.

8. The building both inside & outside will be plastered with 2 coats of chunam & the surface polished with an agate.

9. The basement to be filled in with earth well watered and rammed till thoroughly consolidated, over this a course of 3" concrete to be laid and perfectly levelled and then 8" square tiles to be laid in chunam ~~and jointed in putty~~, the joints afterwards to be scraped out and pointed with strong lime putty, joints not to exceed $\frac{1}{4}$ of an inch in width. The square tiles being laid should be rubbed down to a smooth surface and gauged to fit to each other closely and neatly. The floor of the Lockup will be asphalted $\frac{1}{4}$ " thick over a bed 3" concrete.

10. Terracing will consist of brick on edge 3" brick pelly in chunam 3 courses of flat tiles and 3 coats of plastering.

Cornice

Plastering

Flooring

Terracing

The

Honey Comb Work

Masonry

Mortar

Lime

Concrete

Timber

40
The ends of the Verandah & the sides of the ventilator on the terrace will be closed with honey comb work of ordinary pan tiles.

12. Throughout to be of brick in chunam, the bricks to be English size and will be steeped in water before being used. English bond to be observed throughout.

13. The mortar is to be prepared with 1 lime to $\frac{1}{2}$ of sand to be carefully mixed and either ground in a mill or passed through sticks as may be most convenient.

14. All lime to be slaked on work in the presence of the Overseer.

15. Concrete to be composed of 1 lime, $\frac{3}{4}$ sand, $\frac{1}{4}$ broken bricks or screened gravel, the whole will be mixed dry that is with only sufficient water to prevent lime being blown away, and put down in courses of $7\frac{1}{2}$ inches and will be beaten down to 6" a small quantity of water to be put whilst beating but directly water begins to stand on surface no more water to be put or lime will all be washed away.

16. All wood work to be of well seasoned & sound teak free from all shakes & knots and neatly finished off the joists of the main room to be teak wood those of the Lock up & Verandah to be palmira.

The

17. The building will be provided with an iron door - Door, windows
- 3x6 ft two windows 3x4 ft iron grated with bottom ventilator
- shutters outside and an iron grated ventilator
- 3x1 ft and fixed in the positions shown on the
- plan with all necessary fittings. The wood work
- of the door, windows & ventilator will be painted
- with 2 coats of wood oil and the iron bars with black
- oil paint.

18. The wood work in the terrace will also Wood oiling
- be painted with 2 coats of wood oil & the palisade
- joists with tar.

19. The excavation for foundation is to be taken Excavation
- to a depth of 6 ft at highest point of site. The
- bottom is to be taken out perfectly level and
- superfluous excavation is to be filled in again
- and well rammed.

20. When work is finished, the whole com- Clearing up
- pound to be properly cleared up and all debris
- removed and ground levelled.

Diott Eng's Office & Co
Cuddalore 1st June 1877 }
Major D.C.
Diott Engineer

5/107/77
South Arcot District

Tindivanam Taluk

Enc: No 2.

Specification to accompany
the Estimate for constructing
a fourth Class Police Station
at Kilianur

Amount of Estimate Rs 1000

No 2030 W

BSP
clerk
Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 10th Dec 1877.

Read the following:—

From,

The District Engineer

South Arcot

(N.C. No 170, 73rd Nov 1877)

The plans and
estimates for the
undermentioned Police
buildings are sanctioned.

- | | |
|---------|--|
| No. 231 | 1. Police Station at Kilianur. Rs 1067 |
| No. 232 | 2. do do at Mattathur. 1047 |
| No. 233 | 3. Four huts at Pinnalur. 1440 |
| | Total Rs 3554 |

2. The work will be
carried out from the
provision for Police
work to be made in
the Public Works Budget
for

for 1878-79 - Wt
7/12/77

This sanction has been
registered as Provincial and
numbered as shown above.

Disptd - 17-12-77
To the E. South Area
Examiner R. W. A. Smith 3/2/78
Supr. Genl. of Police
Judicial Dept 7/17

Wt
Ar 7-12

for 1878-79-111

Cp 11297

Govt. of 1877 India

PUBLIC WORKS.

To

Dated

Issued

Recd.

Encl.

1000
11-12-7

G. O., 10 Decr 1877, No. 2030w

Nos. 100-101

Police buildings, S. Arcot.
Luncheon plans, etc.
✓ per return —