M.R.O. 1—77,006—8-6-37.

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(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 3128 Press Mis.

206-07

Dated 11-12- 1907.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 11th December 1871.

No. 206. Read the following letter from the Inspector-General of Police, to the Secretary to Government, Public Works Department, dated Calicut, 25th November 1871, No. 7,501 :—

WITH reference to G. O., No. 2,854, dated 10th November 1871, I have the honour to suggest that it might be as well to test the Station-houses by actual use before adopting the plans as standard.

No. 207. ORDER THEREON, 11th December 1871, No. 3,128.

CIVIL WORKS, No. 14.

COMMUNICATED to the Superintending Engineer of the 8th Division, with reference to G. O., No. 2,854, dated 10th November 1871. The Government direct that a report be submitted on the suitability of the buildings after they have been in actual use for some time.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

Specification Report to accompany Plan and Estimate for Constructing a Police Station House at Sirooradanai, Sathoorvathamunglum Madura District.

1. Amount of Estimate Rs 980.

Excavation 2. The trenches for foundation to be dug to a depth of not less than 3 feet and the bottom taken out to a uniform level well watered and rammed before filling in the same.

Rough stone in Chunam. 3. The foundation to Consist of rough stone in Mortar prepared in proportion of one of lime to 3/4 cs of river sand & 3/4 cs of Soorkee well beaten or ground care must be taken that the water and Sand used are altogether free from saline particles. The stones Collected for the work to be wedged, flat side and as rectangular as possible so that the joints may be fitted in closely with mortar. Each Course of stone work to be successively finished to a uniform level in a substantial manner.

4. The basement and walls to Con-

Sist

first of sound and well burnt bricks of Government size in Chunam of the above description. The Mortar joints not to exceed ¼ inch thick. English bond to be observed throughout. The bricks to be dipped in water when used.

5. The Pillars to Consist of Cut stone roughly but neatly dressed. Of the dimensions shown in the Plan and Elevation with stone Corbells having a Lap of 6 inches on either side of the pillars. If old Mountfurnu stones are available they should be obtained through the Tahsildar and paid for if necessary. And the pillars to be sunk 2 ft below basement and firmly bedded in the foundation.

6. The flat arches over doors and windows to be of brick in Chunam and of a size and description to suit the dimensions shown on Plan.

7. The verandah parapets to Consist of diagonally laid terrace bricks 6"x3½" in Chunam with a base of 6 inches and 4½ inches Coping on top and the whole finished in the manner shown on Plan and Section the terrace bricks for this work instead of having their longitudinal sides rectangular must be moulded to the Section as shown in the Margin. The terrace bricks diagonally built into the parapets are to be coated with smooth Chunam prepared in proportion of 1 of lime to 1 of Soorkee well ground together with fresh water. Parapets.

Plastering. 8. Brick joints to be properly scraped out and well watered before plastering. The plastering to Consist of two Coats of which the first is to Consist of the Mortar prepared in the manner already described in para 3. The 2nd Coat to be of good lime putty prepared in proportion of one of lime to one of fine white sand well mixed and ground together & well rubbed in and smoothed when applied to the wall.

Coloring of walls 9. The walls to be yellow washed and the basement to be brick Colour washed with two Coats prepared respectively in the following manner free from

dirt and grit ing one part of Chunam to one of yellow ochre mixed in fresh water.

For yellow wash.

One part of Surat red ochre and one of Chunam both mixed as above.

For Red wash

10. The Compound to be built of brick in Chunam in the Italian Manner or Plan.

Compound wall

11 The roof is to consist of terrace bricks on edge laid in Chunam (as described in Para 3) over which is to come a layer of jelly 6" thick beaten to a similar kind (the jelly to consist of 1 of Chunam 1 of sand and 1 of brick bats well mixed in fresh water) then 2 coats of Chunam well rubbed down and smoothed; the Ceiling to be finished with 2 Coats of Chunam prepared as described in para 8.

Terrace

12. For every Collah (a Cubic foot) of fine dashed lime and 2 Collahs of Coarse and 4 Collahs of sand beat as usual with water and then grind twice add one Collah part of boiled rice

Charges for Compo coats and flat ceiling.

2nd sheet.

4

Jelly (under Cubes) and mixe them all up with 3 tts of jaggery water the floor being well levelled watered and tamped and a sprinkling of sand one inch thick and free from all saline articles being laid over it the mixture must be thrown on to the depth of 6 inches. The Concrete to be beaten in with tamarind or Karuvela beaters or any other strong green sticks or iron Crow bar of 1½" in diameter after being well consolidated it must be levelled with a wooden dammer or tamper over this apply one Coat of rough plaster formed of the same mixture as the Chunam above described and when properly dry lay Carefully over it the Cement as specified below to the depth of ¼ of an inch. The cement is to be marked first with wooden boards called "Manivasapalagay" and then with smooth stone called Thaiyporeal the floor to be then marked out into diagonal squares of 2"x2" by means of a thick Cord and the sides of these squares rubbed in with a smooth round stone called (Kambu Curendy) The squares themselves are to be rubbed with another kind of smooth stone (Balapathal) until they are polished

For every Square ft. 100 ft take 3 parts ft fine ground Cinnam (Cinnam) and 5 parts ft well ground red Saut Petre and mix them together with ½ pound ft gum dissolved in a sufficient quantity ft water for its dissolution: The floor ft the verandah is to be as shewn on Plan (AA) 6 inches lower than that ft the main building. — Mixture ft Cinnamon

13. A cut stone 10 x 1 x 3¼ to be provided and bedded over a Layer ft 6 inches Concrete in the foundation shewn on Plan — Steps

14 The stone Corbels to be ft the description and size provided in the Estimate. They are to be dressed in a uniform level and placed over the Pillars & walls for the Beams to rest on. — Stone Corbels

15. The beams, rafters and joists to be ft sound and seasoned Coojang wood free from knots and cracks and to be ft the scantlings provided in the Estimate. All wood work ft the roof to be colored with 2 Coats ft paint prepared in the manner described hereafter in para 16.20 — Woodwork

Doors 16. The Doors to be ft the description and size delineated in the Plan. The frames to be 5" x 4½". The Door to be a plain framed one with iron rails in its upper portion and wooden rails on its lower portion as shewn on Plan. There will be 6 ¾ inch iron bars 4" apart from centre to Centre and each bar 3 ft long besides the setting ft 3 inches at either end. The lower part ft the door to be ft plain planks each 3 inches x 1¼ inches the styles, and the top bottom and centre rails to be 6 inches x 3 inches. The door to be each provided with 3 pairs ft steel strong butt-hinges neatly screwed into their places and a steel bolt with staple and good padlock &c

Windows 17. The windows to be ft the description shewn on plan. The frames to be 4½ inches square & the iron bars to be 1 inch diameter and the shutters to be ft one inch planks each shutter consisting ft one single plank good strong iron hooks and ⊢ hinges to be provided for them and bolted through in the manner to be pointed out by the person superintending the work.

18. A floor Ventilator 3"x4½" with frame 4½"x3" and one inch iron bars placed 3 inches apart from centre to centre to be provided and put up in each lock up at the position shown on Plan and the sill of the ventilator to be flush with the floor of the lock up. — Floor Ventilators

19. The Arm Racks to be provided of the standard pattern of teak wood free from flaws of all description. The master to be obtained from the Police Department. — Arm Racks.

20 All wood work of every description inclusive of Doors, windows &c to be painted with two coats of oil prepared in the following manner. The brick Red ochre of the Bazaar is to be ground down and mixed with linseed oil sufficient to give the consistency of ordinary Paint. — Painting.

21 The Roof Ventilator to stand 18 inches at all above the external surface of terrace and to be constructed of the same dimensions and description as delineated on the Plan. The Floor Ventilators of the Hall to be made with openings each of the size of a pair of ordinary pan tiles, to be placed inside and neatly finished as per design.

3d Sheet

22. All lime used on the work is to be slaked after delivery on the spot.

All rejected materials whether bricks, stones, wood &c if not at once removed by the individual Contracting for the same will be carted away at his cost. 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 thoroughly Cleaned up, before the building is handed over to the Police Department.

24 The building to be finally handed over to the Police Department by a proper receipt to be prepared in Duplicate in the prescribed form.

Rich.d Roberts Lieut.t Col.o RE
Superintending Engineer
8th Division

Abstract Estimate No. of 1871-72

District Madura

Work Constructing a Police Station House at Satthavadamangalam and Thiruvalakai

Quantity	Description of Work.	Rate	Amount	Total
37 3/4	Cubic yds of Rough Stone in chunam for foundation	2 8	94	6.
68 1/8	Do of brick in chunam	4	272	8.
118	Square feet of honey comb of terrace bricks in chunam including chunam coating	2	14	12.
113	R ft of cornice work of brick in chunam including plastering	3	21	3.
4	Cut Stone pillars 10 feet high including dressing Do	4	16	
26 1/2	Squares of plastering in chunam 2 coats including color washing Do	2 8	66	4.
1/9	Cubic yds of Terrazing with brick on edge 3 inches of jelly 2 courses of flat tiles 3 coats of chunam including the ceiling	6	120	10 8
1/4	Cubic yds of flooring with 6 inches of Stone jelly beaten to 3" well rubbed down plastered Do	5	26	4.

Encl 4.

In a letter from the
Supdg Engineer & Surveyor
Madura Proj dated 5th
October 1871. No 2495.

Sd/-
P.R. 489/71.

Specification Report &
accompany Plan and Estimate
for Constructing a Police
Station House at Satthavadamangalam
and Kathiravalakai
Tinnevelly

1	Cut stone for step 10 x 1 x 3/4 bedded on 6" concrete	2	8	2	8
4	Stone corbels over pillars 1½ x 1½ x ¼	"	12	3	"
4	Do. 1¼ x 1¼ x ¼ to form angles of breastsummer	"	4	1	"
83 3/8	Cft. of Vengay wood wrought & put in including painting	2	12	229	4 6
2	Doors with frames 3" Brass bars painting complete	"	20	"	40 "
2	Windows with frames 1 inch iron bars Do. Do.	"	12	"	24 "
2	Cut Stones at the edge of the Hall & Verandah at steps	"	3	8	7 "
2	Ground Ventilator 3' x 4' with frames 1" iron bars	"	3	"	6 "
1	Arm rack		4	8	4 8
					949 4 2

Sundries including excavating foundation Superintendence &c. 30 11 10

Total Estimate Rupees 980 " "

Estimate for constructing a Police Station House at Tiruvadanai 980 " "

Grand Total 1960 " "

Supt. Engineers Office
8th Dec.
Comp. Abermadey
3rd October 1871.

Nich. Roberts Lieut. Col. R.E.
Superintending Engineer 8th Div.

Copy

Encls - 1
in a letter from the Dep.
Engineer Supt. Madura Dist.
Dated 3rd October 1871
No 2 - 35.

P. W. 5551
4836/71

Abstract Estimate for
Constructing a Police Station
House at Pattiveithamunga-
lum and Tiruvadanai.
Madura District.
Estimate Rupees 1,000.....

Abstract Estimate No. of 1871-72

District Madura

Works Constructing a Station House at Puttalagunloo

Quantity	Description of Works	Rate	Amount	Total
29 1/2	Cub. yards of rough Stone in Chunam for foundation	2 8	73 12	
52	Do of bricks in Chunam	4 "	208 "	
105	Square feet of Honey Comb Work of terrace bricks in Chunam including Chunam coating	2 "	13 2	
3	Cut Stone pillars 10 feet high including Dressing &c	4 "	12 "	
96	Running feet of Cornice Work with bricks in Chunam including plastering	3 "	18 "	
20 1/3	Squares of plastering in Chunam 2 Coats including Colorwashing &c	2 8	50 13 4	
14 2/3	Cub. yards of terracing with bricks on edge 3 inches of Jelly 2 Course of flatbites & 3 Coats of Chunam including plastering	6 "	88 " "	
1 1/3	Cub. yards of flooring with Stone Jelly in Chunam well plastered &c	5 "	21 10 8	
1	Cut Stone for Steps 10'×1'×3/4 bedded on 6" Concrete	2 8	2 8 "	
3	Stone Corbels 1/2×1/2×3/4	" 2	2 4	

Copy 14

1	3	Stone Corbels 1½ × 1½ × ¾		4 ·	12 ·
	65/8	Cubic feet of Tongue Wrought Spruce including painting	2	2 ·	179 · 16
4	1	Door with frames ¾ inch bars bars painting &c Complete	20	· ·	20 · ·
4	2	Cill Stones for glazing platform of the floor of Hall & verandah	3	8 ·	7 · ·
83 3/8	2	Windows with frames ¾ inch bars Shutters painting &c Complete	12	· ·	24 · ·
2	1	Ground Ventilator 3 × 1½ with frames & bars &c	3	· ·	3 · ·
2	1	Arm Rack	4	8 ·	4 · 8 ·
2					728 7 6
1		Sundries including Excavating for the Superintendence &c			21 · 8 6
		Total Estimate Rupees			750 · ·

Camp Sherwaden
3rd October 1811

Richd. H. Roberts Lieut. Col. B.E.
Superintending Engineer 8th Div.

Camp Sherwaden

117

10

3 Stone Corbels 1¼ x 1¼ x ¼ —— " 4 " 2"

Encl. 2.
to a letter from the Supt. Engineer Sub Div. Madura
Dated dated 3d October
1871. No. 2426.

P. W. 5651/71

Abstract Estimate for
Constructing a Station
House at Kuttalagoondoo
Madura District.

Estimate Rupees. 750----

Specification Report to accompany Plan and Estimate for constructing a Police Station House at Kuttalagoondoo Madura District.

1. Amount of Estimate Rs 750 ——

Excavation 2. The trenches for foundation to be dug to a depth of not less than 3 feet and the bottom taken out to a uniform level and well rammed before filling in the same.

Coarse Rubble in Mortar 3. The foundation to consist of rough stone in mortar prepared in proportion of one of lime to 3/4 tho of river sand & 3/4 tho of coarse well beaten or ground, care must be taken that the water and sand used altogether free from saline particles. The stones collected for the work to be wedged flat side and as rectangular as possible so that the joints may be fitted in closely with mortar. Each course of stone work to be successively finished to a uniform

laced in a Lahe Lankial manner.

Bricks in Chunam.

4. The basement and walls to consist of sound and well burnt bricks of Government size in Chunam of the above description. The mortar joints not to exceed ¼ inch thick English bond to be observed throughout, the bricks to be dipped in water when used.

5. The pillars to consist of cut stone roughly but neatly dressed of the dimensions shewn in the Plan and Estimate, with stone corbels having a lap of 6 inches on either side of the pillars. If old munkapem stones are available they should be obtained thro the Tahsildar & paid for if necessary, & the pillars to be sunk 2 feet below basement & firmly bedded in the foundation.

6. The flat arches over doors and windows to be of bricks in chunam & of a size and description to suit the dimensions shewn on Plan.

Parapets

7. The Verandah parapets to consist of diagonally laid terrace bricks 6"×3"×1" in chunam with a base of 6 inches and 4½ inches coping over top and the whole finished in the manner shewn on plan & section. The terrace bricks for this work instead of having three longitudinal sides rectangular must be moulded to the section as shewn in the margin. The terrace bricks diagonally built into the parapets are to be coated with smooth chunam prepared in proportion of 1 of lime to 1 of sunkee well ground together with fresh water.

8. Brick joints to be properly scraped out & well watered before plastering. The plastering to consist of 2 coats of which the 1st is to be consist of the mortar prepared in the manner already described in para 3. The 2d coat to be of good lime putty prepared in proportion of one of lime to one of fine white sand well mixed and ground together, and well rubbed in and smoothed when applied to the wall.

Coloring of Walls

9. The walls to be yellow washed and the basement to be brick color washed with 2 coats prepared respectively in the following manner free from dirt & grit Viz. one part of chunam to one of yellow ochre mixed in freshwater.

For yellow wash

One part of surat red ochre

and one of chunam both mixed as above.

10. One cornice to be built of bricks in chunam in the pattern shewn on Plan.

11. The roof is to consist of terraced bricks on edge laid in chunam (as described in para 3) over which is to come a Layer of Jelly 6" thick beaten to 3 inches thick / the Jelly to consist of 1 of chunam 1 of sand & one of brick Jelly well mixed in fresh water / then 2 courses of flat tiles and lastly 3 coats of chunam well rubbed down and smoothed the ceiling to be finished with 2 coats of plastering in chunam prepared as described in para 8.

12 For every cattah (3 Madras parahs) of fine slaked lime add 3/4 ths cattah of sourkee & 3/4 ths cattah of sand beat as usual with water / then grind twice add one Cubic yard of broken stone Jelly (under 1" Cube) & mix them well up with 3 lbs of Jaggery water the floor being well levelled watered and tamped and sprinkling 1/2 inch thick and free from all calcined articles being laid over it the mixture must be thrown on to the depth

Terraced

Plastering

of 6 inches. The concrete to be beaten in with tamarind or Kannada beater or any other strong green sticks or iron crowbar of 1¼" in diameter after being well consolidated to must be levelled with wooden damps or tamped over this apply 1 coat of rough plaster formed of the same mixture as the chunam above described and when properly dry lay carefully over it the cement as specified below to the depth of ¼" of an inch. This cement should be rubbed first with wooden boards called "Moneyasapalaka" and then with smooth stone called "Kaipookal" the floor to be then marked out into diagonal squares of 9" × 9" by means of a thick card and the sides of these squares rubbed with a small round trowel called ("Cambookarandy"). The squares themselves are to be rubbed with another kind of smooth stone ("Palapaka") until they are polished.

Mixture of cement—

For every square of 100 feet take 3 parahs of fine ground chunam (Coope chunam)

and fine parts of well ground red ochre and mix them together with ½ pound of gum dissolved in a sufficient quantity of water for its solution.

13. A Cut stone 10 × 1 × ¾ to be provided Steps and bedded over a layer of 6 inches concrete in the position shewn on plan.

14. The stone corbels to be of the description Stone corbels & size provided in the Estimate. They are to be dressed in a uniform level and placed over the pillars and walls for the breastsummers to rest on.

15. The breastsummers and joints to be of sound. Woodwork and seasoned Tengay wood free from knots & cracks and to be of the scantlings provided in the Estimate. All woodwork of the roof to be colored with 2 coats of paint prepared in the manner described hereafter in para 29.

16. The Door to be of the description and size delineated in the Plan. The frames to be 6" × 4½". Door

The Door to be a plain framed one with iron

iron rails in its upper portion and wooden rails on its lower portion as shewn on plan there will be six ¾ inch iron bars 4" apart from centre to centre and each bar 3 feet long besides the setting of 3 inches at either end. the lower part of the door to be of plain planks each 3" × 1¼" the styles, and the top, bottom and centre rails to be 6" × 3". The Door to be provided with 3 pairs of stout strong butt hinges; neatly screwed into three places & a stout bolt with staples and good padlock &c.

indows 17. The Windows to be of the description shewn on plan. The frames to be 4½ inches square and the iron bars to be ½ inch diameter. the shutters to be of one inch planks, each shutter consisting of single plank. Good strong iron hooks and hinges to be provided for them and bolted through in the manner to be pointed out by the person superintending the work.

Flow Ventilators 18. A flow Ventilator 3' × 4½" with frames 4½" × 3"

and one inch now have placed 3" apart from Centre to centre to be grounded & put up as the section shown on plan of the sill of the Ventilator to be flush with the floor of the lock up.

19 The arm racks to be provided of the standard pattern of the teak wood free from flaws of all description. The muskets to be obtained from the Police Department. Arm Racks

20 All wood work of every description including of Doors windows and Racks &c to be painted with two coats of oil prepared in the following manner. The linseed oil of the Cajan to be ground down and mixed with linseed oil sufficient to give the consistency of ordinary paint. Painting

21. The Roof Ventilators to Stand 18 inches in all above the external surface of the terrace and to be constructed of the same dimensions & description as delineated on the Plan. The flow Ventilator of all to be made with openings of the size of a pair of ordinary Roof Ventilators

ordinary pan tiles to be plastered inside and neatly finished as per design.

22. All lime used on the work is to be slaked after delivery on the spot.

23. All rejected materials whether bricks stone, wood &c if not at once removed by the individual Contracting for the same, will be carted away at his cost. 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 thoroughly cleaned up before the building is handed over to the Police Department

24. The building to be finally handed over to the Police Department by a transfer receipt to be prepared in duplicate in

The

the prescribed form.

Asst Engr Office 8th Div
Camp Shermader
3rd October 1871

Lieut Col Ward
Superintending Engineer
8th Division

Camp 94

Inspector General of Police.

Encloss. 3.
to a letter from the Chief Engineer F.S.W. Madura and Dated 3rd October 1871
No 2436.

5557
P.W. 4836/71

Specification & Estimate accompanying Plan and Estimate for Construction of a Police Station House at Tuttukuzy under Madura District.

Copy to H.

Office of the Inspector General of Police
Cutting & Building Calicut 25th November 1871

No. 7501

From
The Inspector General of Police

To The Secretary to Government
Public Works Department
Fort Saint George.

Sir,

With reference to G. O. No. 2854 dated 10th November 1871 I have the honor to suggest that it might be as well to test the Station Houses by actual use before adopting the plans as Standard.

I have the honor to be,
Sir
Your Most Obedt. Servant
C Mears
Inspector General of Police.

No 10 Govt/71 dt 189-
90

B.N. 1871 Dept.
Offr of Govt for Over.
No. 5651.

From

The Inspector General
of Police.

To

The Chief Secretary
to Government,
Fort St. George.

Dated 25 November 1871.

No. 7501

Suggests that
the Station Houses
should be tested by
actual use before
adopting the plans
as standard.

No 206
to 2nd Dec/71

Donnie Anno

29 Nov

C/45551.

Govt. of {1871} Madras.

PUBLIC WORKS.

To The Superintending Engr.
8th Division

Dated

Recd. 19

G. O. No. 3128.

Nos. 206207