(1) Number of pages 32

(2) Date of repair 9.87

(3) Initials of the Referencer

# TAMIL NADU ARCHIVES

## GOVERNMENT OF TAMIL NADU

P.W. DEPARTMENT

| G.O. No. / B.P. No: 720-W | Press. / Mis. |
|---|---|
| Dated 23.3.1885 | 198 . |

ML

*Not to be folded or roughly handled*

Archives 1--10,006 1 -80.

GOVERNMENT MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following letter from Colonel H. D. CLOETE, Inspector-General of Police, to the Chief Secretary to Government, Fort St. George, dated Madras, 5th March 1885, No. 1186:—

I have the honor to forward, for the sanction of Government, a Public Works Department estimate, amounting to Rs. 2,150, for the construction, according to standard design, of a second-class police station-house at Poonamallee, Chingleput district.

2. The District Superintendent states that a plot of Government land has been secured as a site for the above building.

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No. 613, Judicial.

Approved and transferred to the Public Works Department.

(By Order.)

14th March 1885. (Signed) H. A. STUART,
Acting Assistant Secretary.

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Order—dated 23rd March 1885, No. 720 W., Public Works.

The estimate, amounting to Rs. 2,150, for constructing a second-class police station-house at Poonamallee, in the Chingleput district, is sanctioned for execution when funds are available.

2. This sanction has been registered as Provincial No. 281 W. of 1885-86, and classified as Civil Buildings, Original Work.

(True Extract.)

Major, R.E.,
Under Secy. to Govt., P.W.D.

To the Superintending Engineer, V Circle, with three enclosures.
" Judicial Department.
" Examiner, Public Works Accounts.

Exd. A. Grubert.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

# Govt. of {1885} Madras.

PUBLIC WORKS.

*Dated March, 23rd.*

*Read.* *Encl.*

**G.O., 23rd March 1885, No. 720 W.**

MARCH.

**Police Station-house**

Estimate, amounting to Rs. 2,150, for constructing a second-class — at Poonamallee, in the Chingleput district, sanctioned.

2/720

2/720

DEPARTMENT PUBLIC WORKS.

POLICE STATIONS.

*Specification of Works to be performed in executing the Standard Designs of Police Stations with Sloped Roofing according to Drawings Nos. 1, 2, 3, A.*

EXCAVATOR.

*Clearing Site.*—Take down any existing buildings on the site stacking such materials as it may be desirable to use again.

*Excavation.*—After the centre lines have been pegged and lined, set out on either side of the lines half the total breadth of the foundations and excavate to the depth or depths shown on the drawing, or to such depth as the officer in charge of the works may direct.

*Slips and Baling.*—If slips occur during the progress of the works, clear the material away and bale any water lodging in the trenches from a hole or holes made without the limits of the same.

*Ramming.*—After the officer in charge of the work has seen that the trenches are the full and proper widths and depths well ram the bottom with heavy beaters for the after reception of the concrete.

BRICKLAYER.

*Concrete.*—Lay over the full breadth of the foundations about 9″ of concrete as hereinafter specified and well ram with heavy beaters to a thickness of about 6″. After the first layer has been consolidated, lay a second, and execute as before. The completed concrete should be about 12″ thick.

*Brickwork.*—Mark out carefully the centre lines and lay off the thickness of the first footing course. The steps of brickwork should be two courses high and not more than half a brick broad. When the bricks are very inferior it would be advisable to make each offset three bricks high.

The brickwork will be executed in sound material, and care will be taken to insert during the progress of the work the door frames, nogs and brackets for the arm-racks, &c.

The walls will be a brick and a half thick (not less than 1′ 1½″ or greater than 1′ 5″. The quantities allow 1′ 3″).

*Splays.*—The openings will be splayed as shown on the plan.

*Loopholes.*—Loopholes of the form and dimensions shown on the drawing will be left in the walls. After the masonry is set build in with half a brick in mud and plaster all flush on the outside.

*Arching.*—The heads of the openings will be covered by segmental arches built in concentric rings clear of the frame. The space between the rough and the top of the frame will be carefully closed in after the brickwork has settled down.

*Bond.*—The bond should be English if possible.

*Stones.*—Fix the stones under the verandah posts, also those under the truss, and fasten properly all wood supplied by the carpenter.

STONE MASON.

Provide and dress two lines, No.—stones 1′ 1′ × 4″ with mortice holes 2″ square and 2″ deep to receive the verandah posts.

*Steps.*—Provide and dress two lines, the steps shown on the drawing, tailing each stone not less than 3″.

CARPENTER.

*Truss.*—Frame a truss of the dimensions and form shown on the drawing. The heels of the rafters will be tenoned into the tie-beam and strapped down tight, and the heads allowed to butt simply. Over the heads place a chock, hollowed out so as to cover the joints, and fasten it down by the first nut (the struts having been cut to admit of the camber), lap a rope round the

*Note.*—Vary this clause according to class.

truss twist up the tie-beam to the required camber, and screw home the first nut on the king rod. The lower ends of the struts will butt simply against the tie-beams and against each other, and they will be held in their places by round pieces of wood; the upper ends will be tenoned into the rafters. When the truss is hoisted, put on the ridge over the king rod head and screw the second nut down tight. Halve the purlins and rafters each to the extent of 1", support the purlin over the wall.

*Rafters.*—Supply and fix common rafters 2" × 3" spaced 18" from centre to centre. Let the ends of ridge and purlins project beyond the face of the outer wall to the extent of 1' 8", spike on the ends the ornamental pieces shown on the plan.

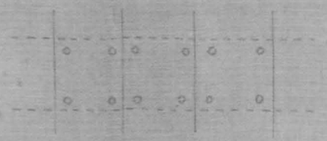
*Ventilators.*—Supply frame and fix two end ventilators, build the shoulders of the cills into the walls, and fasten the top by halving to the extent of 1" into the ridge and screw to the last rafter. Frame the side ventilators into the wall purlin. Frame the roof of the verandah as shown in the details on the drawing.

*Reepers.*—Under the tiles lay reepers 2" × 1" spaced 5" from centre to centre.

*Planking.*—Over the rafters of the lock-up cells lay 1" planking in lieu of reepers, fasten the same strongly, so that prisoners cannot easily remove the planking and escape by the roofs.

*Arm-racks.*—Provide and fix arm-racks in strict accordance with the dimensions set forth on the drawing.

Provide strong batten doors made of three-quarters of an inch planks horizontal and vertical well held together with palm



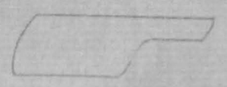
trenails four to each crossing, cut in suitable positions clear of joints and of the holes for firing through. Provide strong fastenings and iron bars on the inside of each opening.

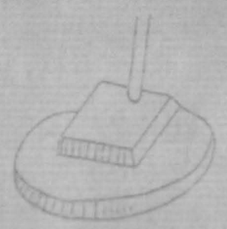
(Here specify whether the woodwork is to be painted or oiled. Painting in Carson's oak color being preferable for all wood exposed to the weather.)

FLOOR.

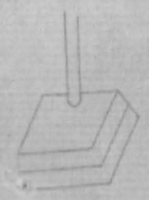
Fill in plinth with earth (specify sand if procurable), well ram the same. Put down a layer of old broken rubbish about 6" thick under the tiling and bring all to an even surface for the reception of the tiles. Lay a tiled floor of 6" square tiles.

*N.B.*—The ordinary tiles may be greatly improved at a very little extra cost in the following manner:—Mould in slop work in the ordinary way and allow to dry until the earth just receives the impression of the finger pressed upon it, generally from 48 to 72 hours. Then beat with a wooden mallet on a hard surface to about an inch thickness from say 1½"; provide a template the size of the tile required and cut with sloping sides.





Tile uncut.



Tile cut.

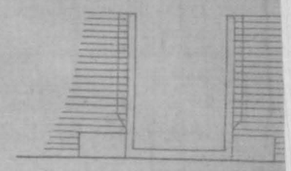
3/720



when laid the underside should be turned up thus



the texture of the earth being closer will require h firing. Where stone is cheap it will add much to the durability of the building to curb th verandah with stone and to place stone at the bott of all openings.



ROOF

The roof will consist of tiles neatly shaped a ll burnt.
Lay in the valleys caused by the two slopes e verandah roof either sheet lead or zinc. Then tile over the whole protecting by chunam b if necessary.

IRONMO n.

Provide iron doors as shown on the drawing tly rivetted, bolted or screwed as the case may be.
Provide for the entrance a rim lock with a k le on either side; the other iron gratings may be padlocked.

PLASTE

Plaster the whole of the interior and exter wo coats of plaster, making the last coat sufficiently smooth for the after reception of wash.
Wash the interior and exterior with two coat wash well sized. The general tint of the interior should be composed of—

40 parts lime,
1 part yellow ochre.

This tint should be used on the parts marked A or. Those marked B should be washed with—

200 parts lime,
8 „ yellow ochre,
2 „ red ochre,
1 part lampblack.

The imitation arch bricks marked C—

20 parts lime,
5 „ yellow ochre,
10 „ red ochre.

The colors may be renewed from year to year will always have a neat and finished appearance.

MATERI

The bricks will be cast in a mould * * * well burnt and free from defects.
The tiles will be * * well burnt and w ght.
The timber will be well seasoned, sound and rom defects.
The lime will be collected at ly burnt and slaked.
The sand will be collected at
The iron work will be prop d from the Gov ent Workshops.

CHEPÁK,
9th July 1880.

(Signed) R. F. CHISHOLM,
Consulting Architect to Government.

MADRAS,
20th July 1880.

ed) T. K. GUTHRIE, Major,
Asst. Inspector-General of Police,
*for* Inspector-General of Police.

ESTIMATE of the Cost of constructing a First-class Police Station-house with Sloped Roofing according to Standard Design No. 1-A.

*Detailed Quantities.*

| Description of Work. | No. | Length. | Breadth. | Depth. | Contents. | Total. |
|---|---|---|---|---|---|---|
| | | FT. IN. | FT. IN. | FT. IN. | | |
| *Excavation for Foundations.* | | | | | | |
| Outer walls ... ... ... ... | | 112 0 | 4 0 | 3 0 | 1,344 | |
| Partitions ... ... ... ... | 2 | 12 3 | 4 0 | 3 0 | 294 | |
| Do. ... ... ... ... | 1 | 6 3 | 3 6 | 3 0 | 86 | |
| Verandah walls ... ... ... | | 48 3 | 3 3 | 3 0 | 567 | |
| Steps ... ... ... ... ... | | 11 0 | 3 0 | 1 6 | 50 | |
| Cubic feet ... ... | | ... | ... | ... | 2,261 | |
| Cubic yards ... ... | | ... | ... | ... | ... | 84 |
| *Earth-filling in Basement.* | | | | | | |
| Guard-room ... ... ... ... | 1 | 18 0 | 15 0 | 1 6 | 405 | |
| Lock-up ... ... ... ... | 1 | 9 0 | 15 0 | 1 6 | 203 | |
| Do. and Inspector's ... ... | 2 | 9 0 | 7 1½ | 1 6 | 192 | |
| Verandah ... ... ... | | 37 0 | 6 3 | 1 6 | 347 | |
| Cubic feet ... ... | | ... | ... | ... | 1,147 | |
| Cubic yards ... ... | | ... | ... | ... | ... | 43 |
| *Concrete 12 inches thick* | | | | | | |
| Excavation 2,211 cubic feet ÷ 3 = ... | | ... | ... | ... | 737 | |
| Steps ... ... ... ... | | 11 0 | 3 0 | 1 6 | 33 | |
| Cubic feet ... ... | | ... | ... | ... | 770 | |
| *Brickwork in Foundations.* | | | | | | |
| Footings— | | | | | | |
| Outer walls ... ... ... | | 112 0 | 2 3 | 1 6 | 378 | |
| Partitions ... ... ... | 2 | 14 6 | 2 3 | 1 6 | 95 | |
| Do. ... ... ... | 1 | 3 0 | 1 9 | 1 6 | 21 | |
| Verandah walls ... ... | | 50 3 | 1 9 | 1 6 | 131 | |
| Above footings to ground level— | | | | | | |
| Outer walls ... ... ... | | 112 0 | 1 3 | 0 6 | 70 | |
| Extra thickness for plinth ... | | 79 6 | 0 3 | 0 8 | 10 | |
| Partitions ... ... ... | 2 | 15 0 | 1 3 | 0 6 | 13 | |
| Do. ... ... ... | 1 | 6 0 | 0 9 | 0 6 | 2 | |
| Verandah walls ... ... | | 51 0 | 1 3 | 0 6 | 10 | |
| Steps ... ... ... | | 11 6 | 3 0 | 0 6 | 17 | |
| Cubic feet ... ... | | ... | ... | ... | 763 | |
| *Brickwork in Basement.* | | | | | | |
| | | 112 0 | 1 3 | 2 0 | 280 | |
| Outer walls ... ... ... | | 79 6 | 0 3 | 2 0 | 40 | |
| Extra thickness for plinth ... | | 15 0 | 1 3 | 2 0 | 75 | |
| Partitions ... ... ... | 2 | 6 0 | 0 9 | 2 0 | 14 | |
| Do. ... ... ... | 1 | 51 0 | 0 3 | 2 0 | 77 | |
| Verandah walls ... ... ... | | 11 6 | 3 0 | 0 6 | 17 | |
| Steps ... ... ... ... | 1 | 9 0 | 2 0 | 0 6 | 9 | |
| Do. ... ... ... ... | 1 | 7 0 | 1 0 | 0 6 | 4 | |
| Deduct stone in steps ... ... | | ... | ... | ... | ... | 516 |
| Cubic feet ... ... | | ... | ... | ... | ... | 493 |



*Detailed Quantities*—cont.

| Description of Work. | No. | Length. | Breadth. | Depth. | Contents. | Total. |
|---|---|---|---|---|---|---|
| | | FT. | FT. IN. | FT. IN. | | |
| *Brickwork in Superstructure.* | | | | | | |
| Outer walls ... ... ... ... | | 11 | 1 3 | 10 6 | 1,470 | |
| Partitions ... ... ... ... | 2 | 15 0 | 1 3 | 10 6 | 394 | |
| Gables ... ... ... ... | 4 | 17 6 | 1 3 | 2 10½ | 252 | |
| Partition ... ... ... ... | 1 | 9 0 | 0 9 | 16 3 | 110 | |
| *Deductions.* | | | | | | 2,226 |
| Doors ... ... ... ... ... | 2 | 3 9 | 1 3 | 6 6 | 61 | |
| Do. ... ... ... ... ... | 4 | 2 9 | 1 3 | 6 0 | 83 | |
| Window ... ... ... ... | 1 | 3 0 | 1 3 | 4 0 | 15 | |
| Ventilators ... ... ... ... | 5 | 4 9 | 1 3 | 1 9 | 52 | |
| Do. in gables ... ... ... | 2 | 3 6 | 1 3 | 2 7 | 23 | |
| Archwork as per details ... ... | | ... | ... | ... | 33 | |
| Cubic feet ... ... | | ... | ... | ... | ... | 267 |
| | | | | | | 1,959 |
| *Archwork.* | | | | | | |
| Segmental arches over doors ... ... | 2 | 4 6 | 1 3 | 1 0 | | |
| Do. do. do. ... ... | 4 | 3 6 | 1 3 | 1 0 | | |
| Do. do. windows ... | 1 | 3 6 | 1 3 | 1 0 | 33 | C. ft. |
| *Stonework if easily procured.* | | | | | | |
| Steps ... ... ... ... ... | | 37 0 | 1 3 | 0 6 | 23 | Do. |
| *Teakwood.* | | | | | | |
| Verandah posts ... ... ... | 2 | 0 5 | 0 5 | 8 0 | | |
| Do. ... ... ... ... | 4 | 0 5 | 0 5 | 5 9 | | 3 |
| Breastsummers ... ... ... | 2 | 17 0 | 0 5 | 0 5½ | | 4 |
| Rafters for verandah ... ... ... | 20 | 10 6 | 0 2½ | 0 3½ | | 6 |
| Ridge for entrance ... ... ... | 1 | 9 0 | 0 2½ | 0 5 | | 13 |
| Hip rafters for do. ... ... ... | 2 | 12 6 | 0 3 | 0 4½ | | 1 |
| Small rafters for do. ... ... ... | 4 | 9 0 | 0 2½ | 0 3½ | | 2 |
| Do. do. ... ... ... | 4 | 8 0 | 0 2½ | 0 3½ | | |
| Do. do. ... ... ... | 4 | 6 6 | 0 2½ | 0 3½ | | |
| Do. do. ... ... ... | 2 | 5 0 | 0 2½ | 0 3½ | | 7 |
| Do. do. ... ... ... | 4 | 4 0 | 0 2½ | 0 3½ | | |
| Barge board for do. ... ... ... | 2 | 9 8 | 0 7 | 0 4 | | 1 |
| Struts for do. ... ... ... | 2 | 5 0 | 0 2½ | 0 10½ | | 2 |
| Cleats to secure verandah— | | | | | | |
| Rafters to breastsummers ... | 20 | 0 2½ | 0 8 | 1 0 | | 3 |
| Truss, 15 feet span. Tie beams ... | 1 | 17 6 | 0 4 | 0 6 | | 3 |
| Truss, 15 feet span. Principal rafters. | 2 | 9 6 | 0 4 | 0 4 | | 2 |
| Truss, 15 feet span. Struts ... ... | 2 | 4 9 | 0 3 | 0 3 | | 1 |
| Purlins ... | 2 | 45 0 | 0 4 | 0 5 | | 13 |
| Wall purlins ... | 2 | 45 0 | 0 4 | 0 4 | | 10 |
| Ridge ... ... | 1 | 45 0 | 0 2½ | 0 7 | | 5 |
| Common rafters. | 31 | 11 9 | 0 2 | 0 3 | | 15 |
| Do. do. ... | 27 | 10 6 | 0 2 | 0 3 | | 12 |
| Do. at ends ... | 4 | 11 9 | 0 3 | 0 3 | | 3 |
| Barge boards ... | 4 | 12 6 | 1 0 | 0 1 | | 4 |
| Cubic feet ... | ... | ... | ... | ... | | 110 |
| *Wrought Iron Work in Truss.* | | | | | | |
| 1" diameter king rod ... ... ... | 1 | 6 9 | × | 2·62 | | 17·68 |
| 1" hex. nut and bolt head ... ... | 3 | ... | × | 0·55 | | 1 65 |

*Detailed Quantities*—cont.

| Description of Work. | No. | Length. | Breadth. | Depth. | Contents. | Total. |
|---|---|---|---|---|---|---|
| *Wrought Iron Work in Truss*—cont. | | FT. IN. | FT. IN. | FT. IN. | | |
| 3 inches × 3 inches × ¼ inch washers | 3 | ... | × | 0·32 | 0·96 | |
| 1½ inches × ⅜ inch flat iron straps ... | 2 | 2 6 | × | 1·87 | 9·35 | |
| 1½ inches × ½ inch bearing plates ... | 2 | 0 6 | × | 2·92 | 2·92 | |
| ½ inch hex. nuts for straps ... ... | 4 | ... | × | 0·06 | 0·24 | |
| 2 inches × 2 inches × ½ inch washers | 4 | ... | × | 0·14 | 0·56 | |
| lbs. ... | ... | ... | ... | ... | 33·93 | |
| *Inner Doors.* | | | | | | |
| Inner doors ... ... ... ... | 4 | 2 9 | ... | 6 0 | 66 | S. ft. |
| *Teak Batten Doors with Frames and Fastenings.* | | | | | | |
| Outer doors ... ... ... ... | 2 | 3 9 | ... | 6 6 | 49 | Do. |
| *Batten window* ... ... ... ... | 1 | 3 0 | ... | 4 0 | 12 | Do. |
| *Ventilators, wooden frames, and venetians with iron bars.* | 5 | 4 9 | ... | 1 9 | 42 | Do. |
| *Ventilators, wooden frames, and iron bars at gable ends.* | 2 | 3 6 | ... | 2 7 | 18 | Do. |
| *Frames with fixed venetians in gables* ... | 2 | 7 6 | ... | 1 3 | 19 | Do. |
| *Moulding over exterior opening.* | | | | | | |
| Doors ... ... ... ... ... | 2 | 5 0 | ... | ... | 10 | |
| Window ... ... ... ... | 1 | 4 6 | ... | ... | 4½ | |
| Lineal feet ... | ... | ... | ... | ... | 14½ | |
| *Stones under verandah posts* 1′ × 1′ × 4′. | ... | 6 in number. | | | | |
| *Stones under truss* ... ... ... | ... | 2 in number. | | | | |
| *Tiled Roofing with Pan Tiles over 1″ Teak Planking.* | | | | | | |
| Lock-up ... ... ... ... | 2 | 12 6 | ... | 12 0 | 326 | |
| Do. ... ... ... ... | 1 | 1 8 | ... | 12 0 | | |
| Do. ... ... ... ... | 1 | 19 10 | ... | 10 6 | 114 | |
| Square feet ... | ... | ... | ... | ... | 434 | |
| Squares ... | ... | ... | ... | ... | ... | 4·34 |
| *Tiled Roofing with Flat and Pan Tiles over Teak Keepers.* | | | | | | |
| Guard-room, look-up, &c. ... ... | 1 | 13 4 | ... | 12 0 | 252 | |
| | 1 | 1 8 | ... | 12 0 | | |
| | 1 | 10 10 | ... | 10 6 | | |
| | 1 | 19 4 | ... | 10 6 | 317 | |
| Verandah ... ... ... ... | ... | 33 10½ | ... | 10 0 | 339 | |
| Entrance ... ... ... ... | 2 | 9 0 | ... | 4 10 | 87 | |
| Square feet ... | ... | ... | ... | ... | 995 | |
| Squares ... | ... | ... | ... | ... | ... | 9·95 |



*Detailed Quant[illegible]ont.*

| Description of Work. | No. | [illegible] | Breadth. | Depth. | Contents. | Total. |
|---|---|---|---|---|---|---|
| | | FT. IN. | FT. IN. | FT. IN. | | |
| *Flooring with Square Tiles.* | | | | | | |
| Guard-room ... ... ... ... | 1 | 15 0 | ... | 18 0 | 270 | |
| Inspector's room ... ... ... | 1 | 7 1½ | ... | 9 0 | 64 | |
| Verandah ... ... ... ... | 1 | 38 6 | ... | 7 0 | 270 | |
| Door pieces ... ... ... ... | 2 | 3 9 | ... | 1 3 | | |
| Do. ... ... ... ... | 1 | 2 9 | ... | 1 3 | 13 | |
| Do. ... ... ... ... | 3 | 2 9 | ... | 0 7½ | 5 | |
| Square feet ... | ... | ... | ... | ... | 622 | |
| Squares ... | ... | ... | ... | ... | ... | 6·22 |
| *Flooring with Jelly 6″ thick and painting over with a composition of 1 lb. of Asphalte to 5 lbs. of Tar.* | | | | | | |
| Lock-up ... ... ... ... | 1 | 15 0 | ... | 9 0 | 135 | |
| Do. ... ... ... ... | 1 | 7 1½ | ... | 9 0 | 64 | |
| Door pieces ... ... ... ... | 3 | 2 9 | ... | 0 7½ | 5 | |
| Square feet ... | ... | ... | ... | ... | 204 | |
| Squares ... | ... | ... | ... | ... | ... | 2·04 |
| *Plastering interior and washing.* | | | | | | |
| Guard-room ... ... ... ... | ... | 66 0 | ... | 10 6 | 693 | |
| Gables ... ... ... ... ... | 2 | 17 6 | ... | 2 10½ | 101 | |
| Lock-up ... ... ... ... ... | ... | 48 0 | ... | 10 6 | 504 | |
| Gables ... ... ... ... ... | 2 | 17 6 | ... | 2 10½ | 101 | |
| Lock-up and Inspector's room ... | 2 | 32 3 | ... | 10 6 | 677 | |
| Do. partition, upper portion ... | 2 | 9 0 | ... | 5 9 | 104 | |
| Gables ... ... ... ... ... | 2 | 16 3 | ... | 2 10½ | 93 | |
| Door jambs ... ... ... ... | 2 | 17 0 | ... | 1 3 | 43 | |
| Do. ... ... ... ... | 4 | 15 0 | ... | 1 3 | 75 | |
| Window jambs ... ... ... | 1 | 14 0 | ... | 1 3 | 18 | |
| Ventilator do. ... ... ... | 5 | 8 3 | ... | 1 3 | 52 | |
| Do. do. ... ... ... | 2 | 7 6 | ... | 1 3 | 19 | |
| | | | | | | 2,480 |
| *Deductions.* | | | | | | |
| Doorways .. ... ... ... | 2 | 3 9 | ... | 6 6 | 49 | |
| Do. ... ... ... 2 × | 4 | 2 9 | ... | 6 0 | 132 | |
| Window ... ... ... ... | 1 | 3 0 | ... | 4 0 | 12 | |
| Ventilators ... ... ... ... | 5 | 4 9 | ... | 1 9 | 42 | |
| Do. ... ... ... ... | 2 | 3 6 | ... | 2 0 | 14 | |
| | | | | | | 249 |
| Square feet ... | ... | ... | ... | ... | ... | 2,231 |
| Squares ... | ... | ... | ... | ... | ... | 22·31 |
| *Plastering exterior and washing.* | | | | | | |
| Basement ... ... ... ... | ... | 132 6 | ... | 2 0 | 265 | |
| Superstructure ... ... ... ... | ... | 117 0 | ... | 10 6 | 1,229 | |
| Gables ... ... ... ... ... | 2 | 17 6 | ... | 2 10½ | 101 | |
| | | | | | | 1,595 |

*Detailed Quantities*— cont.

| Description of Work. | No. | Length. | Breadth. | Depth. | Contents. | Total. |
|---|---|---|---|---|---|---|
| | | FT. IN. | FT. IN. | FT. IN. | | |
| *Deductions.* | | | | | | |
| Door ... ... ... ... ... | 2 | 3 9 | | | | |
| Window... ... ... ... ... | 1 | 3 0 | ... | 6 6 | 49 | |
| Ventilators ... ... ... ... | 5 | 4 9 | ... | 4 0 | 12 | |
| Do. ... ... ... ... | 2 | 3 6 | ... | 1 9 | 42 | |
| | | | ... | 2 0 | 14 | |
| | | | | | | 117 |
| Square feet ... ... | ... | ... | ... | ... | ... | 1,478 |
| Squares ... ... | ... | ... | ... | ... | ... | 14·78 |
| *Painting with three Coats of Wood-oil.* | | | | | | |
| Rafters for verandah ... ... ... | 20 | 10 6 | ... | 0 9½ | 166 | |
| Ridge for entrance ... ... ... | 1 | 9 0 | ... | 1 ½ | 9 | |
| Hip rafters for do. ... ... ... | 2 | 12 6 | ... | 1 0 | 25 | |
| Tie-beam ... ... ... ... | | 120 0 | ... | 0 9½ | 95 | |
| Principal rafters ... ... ... ... | 1 | 17 6 | ... | 1 8 | 29 | |
| Struts ... ... ... ... ... | 2 | 9 6 | ... | 1 4 | 25 | |
| Purlins ... ... ... ... ... | 2 | 4 9 | ... | 1 0 | 10 | |
| Wall purlins ... ... ... ... | 2 | 44 4 | ... | 1 2 | 103 | |
| Ridge ... ... ... ... ... | 2 | 44 4 | ... | 1 0 | 89 | |
| Common rafters ... ... ... ... | 1 | 44 4 | ... | 1 4½ | 61 | |
| Do. ... ... ... ... | 31 | 11 9 | ... | 0 8 | } 432 | |
| Do. at ends ... ... | 27 | 10 6 | ... | 0 8 | | |
| Planking ... ... ... ... | 4 | 11 9 | ... | 0 6 | 24 | |
| Reepers ... ... ... ... ... | ... | 2,488 0 | ... | 0 3½ | 726 | |
| Square feet ... ... | ... | ... | ... | ... | 2,228 | |
| Squares ... ... | ... | ... | ... | ... | ... | 22·28 |
| *Painting with three Coats of Carson's Oak Color.* | | | | | | |
| Doors ... ... ... ... 2 × | 2 | 3 9 | ... | 6 6 | 98 | |
| Do. ... ... ... ... 2 × | 4 | 2 9 | ... | 6 0 | 132 | |
| Window ... ... ... ... 2 × | 1 | 3 0 | ... | 4 0 | 24 | |
| Ventilators with venetians and iron bars ... ... ... 3 × | 5 | 4 9 | ... | 1 9 | 125 | |
| Ventilators with iron bars .. 2 × | 2 | 3 6 | ... | 2 7 | 36 | |
| Frames with venetians in gables 3 × | 2 | 7 6 | ... | 1 3 | 56 | |
| Posts ... ... ... ... ... | 4 | 1 8 | ... | 5 5 | | |
| Do. ... ... ... ... ... | 2 | 1 8 | ... | 7 8 | } 62 | |
| Breastsummers ... ... ... .. | 2 | 17 0 | ... | 1 9 | 60 | |
| Cleats ... ... ... ... .. | 20 | 0 6 | ... | 0 9 | 8 | |
| Barge board over entrance ... ... | 2 | 9 8 | ... | 0 4½ | 8 | |
| Struts for do. ... ... | 2 | 4 0 | ... | 1 0 | 8 | |
| Barge board in gables ... ... ... | 4 | 12 6 | ... | 1 0 | 50 | |
| Square feet ... ... | ... | ... | ... | ... | 667 | |
| Squares ... ... | ... | ... | ... | ... | ... | 6·67 |
| *Arm-rack for ten rifles* ... ... ... | 7 lineal feet. | | | | | |
| *Pegs for accoutrements* ... ... ... | 12 in number. | | | | | |
| *Moveable shelf for Inspector's room* ... ... | 1 in number. | | | | | |



ABSTRA

First-class Police Station-house with T 1 Roofing, Plan No. J-A.

| Quantity. | Item. | Rate. | Per | Amount. |
|---|---|---|---|---|
| | | RS. A. P. | | RS. A. P. |
| 84 C. yds. | Excavation for foundations ... | | | |
| 43 „ | Earth-filling in basement ... | | | |
| 770 C. ft. | Concrete ... ... ... | | | |
| 763 „ | Brickwork in foundations ... | | | |
| 493 „ | Do. in basement ... | | | |
| 1,959 „ | Do. in superstructure ... | | | |
| 33 „ | Archwork ... ... ... | | | |
| 23 „ | Stonework in steps (if easily procure | | | |
| 110 „ | Teakwood wrought and put up | | | |
| 33·36 lbs. | Wrought iron work in truss .. | | | |
| 66 S. ft. | Iron doors ... ... ... | | | |
| 49 „ | Teak batten doors with frames a fastenings. | | | |
| 12 „ | Teak batten window do. | | | |
| 42 „ | Ventilators, wooden frames, and ven tians with iron bars. | | | |
| 18 „ | Do. wooden frames and iron ba at gable ends. | | | |
| 19 „ | Frames with fixed venetians in gable | | | |
| 14½ L. ft. | Mouldings over exterior openings | | | |
| 6 No. | Stones under verandah posts .. .. | | | |
| 2 „ | Do. under truss ... ... .. | | | |
| 4·34 Sqs. | Tiled roofing with pan-tiles over 1 inch teak planking. | | | |
| 9·95 „ | Tiled roofing with flat and pan-tiles over teak reepers. | | | |
| 6·22 „ | Flooring with square tiles ... ... | | | |
| 2·04 „ | Do. with jelly 6 inches thick and painting over with tar and asphalte composition. | | | |
| 22·31 „ | Plastering interior and washing ... | | | |
| 14·78 „ | Do. exterior and washing ... | | | |
| 22·28 „ | Painting with three coats of wood-oil. | | | |
| 6·67 „ | Do. with three coats of Carson's oak color. | | | |
| 7 L. ft. | Arm-rack for ten rifles ... ... | | | |
| 12 No. | Pegs for accoutrements ... ... | | | |
| 1 „ | Moveable shelf for Inspector's room ... | | | |
| | Contingencies at 5 per cent ... | | | |
| | Total ... | | | |

CHEPÂK,
9th July 1880.

(Signed) R. F. CHISHOLM,
Consulting Architect to Government.

MADRAS,
20th July 1880.

(Signed) T. K. GUTHRIE, Major, R.E.,
Asst. Inspector-General of Police,
*for* Inspector-General of Police.

ESTIMATE of the Cost of constructing a Second-class Police Station-house with Sloped Roofing according to Standard Design No. 2-A.

*Detailed Quantities.*

| Description of Work. | No. | Length. | Breadth. | Depth. | Contents. | Total. |
|---|---|---|---|---|---|---|
| *Excavation for Foundations.* | | FT. IN. | FT. IN. | FT. IN. | | |
| Outer walls | | 100 0 | 4 0 | 3 0 | 1,200 | |
| Partitions | 2 | 12 3 | 4 0 | 3 0 | 294 | |
| Do. | 1 | 6 3 | 3 6 | 3 0 | 66 | |
| Verandah walls | | 41 3 | 3 6 | 3 0 | 433 | |
| Steps | | 11 0 | 3 0 | 1 6 | 50 | |
| Cubic feet | | | | | 2,043 | |
| Cubic yards | | | | | | 76 |
| *Earth-filling in Basement.* | | | | | | |
| Guard-room | 1 | 12 0 | 15 0 | 1 6 | 270 | |
| Lock-up | 1 | 9 0 | 15 0 | 1 6 | 203 | |
| Do. and Inspector's | 2 | 9 0 | 7 1½ | 1 6 | 192 | |
| Verandah | | 31 0 | 5 9 | 1 6 | 267 | |
| Cubic feet | | | | | 932 | |
| Cubic yards | | | | | | 35 |
| *Concrete 12 inches thick.* | | | | | | |
| Excavation 1,993 cubic feet ÷ 3 = | | | | | 664 | |
| Steps | 1 | 11 0 | 3 0 | 1 0 | 33 | |
| Cubic feet | | | | | 697 | |
| *Brickwork in Foundations.* | | | | | | |
| Footings— | | | | | | |
| Outer walls | | 100 0 | 2 3 | 1 6 | 338 | |
| Partitions | 2 | 14 0 | 2 3 | 1 6 | 95 | |
| Do. | 1 | 8 0 | 1 9 | 1 6 | 21 | |
| Verandah walls | | 43 0 | 1 9 | 1 6 | 113 | |
| Above footings to ground level— | | | | | | |
| Outer walls | | 100 0 | 1 3 | 0 6 | 63 | |
| Extra thickness for plinth | | 74 0 | 0 3 | 0 6 | 9 | |
| Partitions | 2 | 15 0 | 1 3 | 0 6 | 19 | |
| Do. | 1 | 9 0 | 0 9 | 0 6 | 3 | |
| Verandah walls | | 44 0 | 0 9 | 0 6 | 17 | |
| Steps | 1 | 11 0 | 3 0 | 0 6 | 17 | |
| Cubic feet | | | | | 695 | |
| *Brickwork in Basement.* | | | | | | |
| Outer walls | | 100 0 | 1 3 | 2 0 | 250 | |
| Extra thickness for plinth | | 74 0 | 0 3 | 2 0 | 37 | |
| Partitions | 2 | 15 0 | 1 3 | 2 0 | 75 | |
| Do. | 1 | 9 0 | 0 9 | 2 0 | 14 | |
| Verandah walls | | 44 0 | 0 9 | 2 0 | 66 | |
| Steps | 1 | 11 0 | 3 0 | 0 6 | 17 | |
| Do. | 1 | 9 0 | 2 0 | 0 6 | 9 | |
| Do. | 1 | 7 0 | 1 0 | 0 6 | 4 | |
| Deduct stone in steps | | | | | 472 | |
| Cubic feet | | | | | 23 | |
| | | | | | 449 | |



*Detailed Quantities* ...nt.

| Description of Work. | No. | Leng... | Breadth. | Depth. | Contents. | Total. |
|---|---|---|---|---|---|---|
| *Brickwork in Superstructure.* | | FT. | FT. IN. | FT. IN. | | |
| Outer walls | 2 | 100 0 | 1 3 | 10 6 | 1,313 | |
| Partitions | 4 | 15 0 | 1 3 | 10 6 | 394 | |
| Gables | 1 | 17 6 | 1 3 | 2 10½ | 252 | |
| Partition | | 9 0 | 0 9 | 16 3 | 110 | |
| | | | | | | 2,069 |
| *Deductions.* | | | | | | |
| Door | 1 | 3 9 | 1 3 | 6 6 | 30 | |
| Do. | 4 | 2 9 | 1 3 | 6 0 | 83 | |
| Do. | 1 | 3 0 | 1 3 | 4 0 | 15 | |
| Window | 4 | 4 9 | 1 3 | 1 9 | 42 | |
| Ventilators | 2 | 3 6 | 1 3 | 2 7 | 23 | |
| Do. in gable ends | | | | | 28 | |
| Archwork as per details | | | | | | 221 |
| Cubic feet | | | | | | 1,848 |
| *Archwork.* | | | | | | |
| Segmental arches over door | 1 | 4 6 | 1 3 | 1 0 | 28 | C. ft. |
| Do. do. | 4 | 3 6 | 1 3 | 1 0 | | |
| Do. window | 1 | 3 6 | 1 3 | 1 0 | | |
| *Stonework if easily procured.* | | | | | | |
| Steps | | 37 0 | 1 3 | 0 6 | 23 | Do. |
| *Teakwood.* | | | | | | |
| Posts | 4 | 0 5 | 0 5 | 6 1½ | 4 | |
| Do. | 2 | 0 5 | 0 5 | 8 0 | 3 | |
| Breastsummers | 2 | 14 0 | 0 5 | 0 5 | 5 | |
| Rafters for verandah | 16 | 10 0 | 0 2½ | 0 3½ | 10 | |
| Ridge for entrance | 1 | 8 7 | 0 2½ | 0 5 | 1 | |
| Hip rafters for do. | 2 | 11 6 | 0 3 | 0 4½ | 2 | |
| Small rafters for entrance | 2 | 8 6 | 0 2½ | 0 3½ | 6 | |
| Do. do. | 4 | 7 0 | 0 2½ | 0 3½ | | |
| Do. do. | 4 | 6 0 | 0 2½ | 0 3½ | | |
| Do. do. | 4 | 4 6 | 0 2½ | 0 3½ | | |
| Do. do. | 4 | 3 6 | 0 2½ | 0 3½ | | |
| Barge board | 2 | 9 0 | 0 4 | 0 ¾ | 1 | |
| Struts for entrance | 2 | 0 10 | 0 2½ | 5 1 | 2 | |
| Cleats to secure verandah rafters to breastsummers. | 18 | 0 2½ | 0 8 | 1 0 | 3 | |
| Purlins over guard room | 2 | 14 0 | 0 5 | 0 6 | 6 | |
| Do. over lock-up and Inspector's room. | 4 | 12 8 | 0 4 | 0 5 | 7 | |
| Wall purlins | 2 | 38 6 | 0 4 | 0 4 | 9 | |
| Ridge | 1 | 38 6 | 0 2½ | 0 7 | 5 | |
| Common rafters | 27 | 11 9 | 0 2 | 0 3 | 23 | |
| Do. | 23 | 10 6 | 0 2 | 0 3 | | |
| Common rafters at ends | 4 | 11 9 | 0 3 | 0 3 | 3 | |
| Barge boards | 4 | 12 6 | 1 0 | 0 1 | 4 | |
| Cubic feet | | | | | 94 | |
| *Iron inner doors* | 4 | 2 9 | | 6 0 | 66 | Sq. ft. |
| *Teak batten door with frames and fastening.* | 1 | 3 9 | | 6 6 | 24 | Do. |

*Detailed Quantities*—cont.

| Description of Work. | No. | Length. | Breadth. | Depth. | Contents. | Total |
|---|---|---|---|---|---|---|
| *Teakwood*—cont. | | FT. IN. | FT. IN. | FT. IN. | | |
| *Batten window with frames and fastenings.* | 1 | 3 0 | ... | 4 0 | 12 | Sq. ft |
| *Ventilators, wooden frames and venetians with iron bars.* | 4 | 4 9 | ... | 1 9 | 33¾ | Do. |
| *Ventilators, wooden frames and iron bars at gable ends.* | 2 | 3 6 | ... | 2 7 | 18 | Do. |
| *Frame with fixed venetians in gables* ... | 2 | 7 6 | ... | 1 3 | 19 | Do. |
| *Stones under posts 1'×1'×4"* ... | ... | 6 in number. | | ... | ... | |
| *Moulding over exterior openings.* | | | | | | |
| Door ... ... ... ... ... | 1 | ... | ... | ... | 5 | |
| Window ... ... ... ... | 1 | ... | ... | ... | 4½ | |
| Lineal feet ... | ... | ... | ... | ... | 9½ | |
| *Tiled Roofing with Pan Tiles over 1" Teak Planking.* | | | | | | |
| Lock-up ... ... ... ... | 2 | 12 6 | ... | 12 0 | 320 | |
| Do. ... ... ... ... | 1 | 1 8 | ... | 12 0 | | |
| Do. ... ... ... ... | 1 | 10 10 | ... | 10 6 | 114 | |
| Square feet ... | ... | ... | ... | ... | 434 | |
| Squares ... | ... | ... | ... | ... | ... | 4·34 |
| *Tiled Roofing with Flat and Pan Tiles over Teak Reepers.* | | | | | | |
| | 1 | 13 4 | ... | 12 0 | 180 | |
| | 1 | 1 8 | ... | 12 0 | | |
| | 1 | 10 10 | ... | 10 6 | 254 | |
| Verandah ... ... ... ... | 1 | 13 4 | ... | 10 6 | | |
| Entrance ... ... ... ... | ... | 28 4½ | ... | 9 6 | 270 | |
| ... ... ... ... | 2 | 9 0 | ... | 4 6 | 81 | |
| Square feet ... | ... | ... | ... | ... | 785 | |
| Squares ... | ... | ... | ... | ... | ... | 7·85 |
| *Flooring with Square Tiles.* | | | | | | |
| Guard room ... ... ... ... | 1 | 12 0 | ... | 15 0 | 180 | |
| Inspector's room ... ... ... | 1 | 9 0 | ... | 7 1½ | 64 | |
| Verandah ... ... ... | 1 | 32 6 | ... | 6 6 | 211 | |
| Door piece ... ... ... ... | 1 | 3 9 | ... | 1 3 | 8 | |
| Do. ... ... ... ... | 1 | 2 9 | ... | 1 3 | | |
| ... ... ... ... | 3 | 2 9 | ... | 0 7½ | 5 | |
| Square feet ... | ... | ... | ... | ... | 468 | |
| Squares ... | ... | ... | ... | ... | ... | 4·68 |



*Detailed Quantities*—cont.

| Description of Work. | No. | Length. | Breadth. | Depth. | Contents. | Total. |
|---|---|---|---|---|---|---|
| *Flooring with Jelly 6" thick and Painting over with a composition of 1 lb. Asphalte to 5 lb. of Tar.* | | FT. | FT. IN. | FT. IN. | | |
| Lock-up ... ... ... ... | 1 | 15 0 | ... | 9 0 | 135 | |
| Do. ... ... ... ... | 1 | 7 1½ | ... | 9 0 | 64 | |
| Door pieces ... ... ... ... | 3 | 2 9 | ... | 0 7½ | 5 | |
| Square feet ... | ... | ... | ... | ... | 204 | |
| Squares ... | ... | ... | ... | ... | ... | 2·04 |
| *Plastering interior and washing.* | | | | | | |
| Guard room ... ... ... ... | ... | 54 0 | ... | 10 6 | 567 | |
| Gables ... ... ... ... ... | 2 | 17 6 | ... | 2 10½ | 101 | |
| Lock-up ... ... ... ... | ... | 48 0 | ... | 10 6 | 504 | |
| Gables ... ... ... ... ... | 2 | 17 6 | ... | 2 10½ | 101 | |
| Lock-up and Inspector's room ... | 2 | 32 3 | ... | 10 6 | 677 | |
| Partition, upper portion ... ... | 2 | 9 0 | ... | 5 9 | 104 | |
| Gables ... ... ... ... | 2 | 16 3 | ... | 2 10½ | 93 | |
| Door jambs ... ... ... ... | 1 | 17 0 | ... | 1 3 | 21 | |
| Do. ... ... ... ... | 4 | 15 0 | ... | 1 3 | 75 | |
| Window jambs ... ... ... ... | 1 | 11 0 | ... | 1 3 | 14 | |
| Ventilator ... ... ... ... | 4 | 8 3 | ... | 1 3 | 41 | |
| Do. ... ... ... ... | 2 | 7 6 | ... | 1 3 | 19 | |
| | | | | | | 2,317 |
| *Deductions.* | | | | | | |
| Doorway ... ... ... ... | 1 | 3 9 | ... | 6 6 | 24 | |
| Do. ... ... ... 2 × | 4 | 2 9 | ... | 6 0 | 132 | |
| Window ... ... ... ... | 1 | 3 0 | ... | 4 0 | 12 | |
| Ventilators ... ... ... ... | 4 | 4 9 | ... | 1 9 | 33 | |
| Do. ... ... ... ... | 2 | 3 6 | ... | 2 0 | 14 | |
| | | | | | | 215 |
| Square feet ... | ... | ... | ... | ... | ... | 2,102 |
| Squares ... | ... | ... | ... | ... | ... | 21·02 |
| *Plastering exterior and washing.* | | | | | | |
| Basement ... ... ... ... | ... | 119 6 | ... | 2 0 | 239 | |
| Superstructure ... ... ... ... | ... | 105 0 | ... | 10 6 | 1,103 | |
| Gables ... ... ... ... ... | 2 | 17 6 | ... | 2 10½ | 101 | |
| | | | | | | 1,443 |
| *Deductions.* | | | | | | |
| Doors ... ... ... ... ... | 1 | 3 9 | ... | 6 6 | 24 | |
| Window ... ... ... ... | 1 | 3 0 | ... | 4 0 | 12 | |
| Ventilators ... ... ... ... | 4 | 4 9 | ... | 1 9 | 33 | |
| Do. ... ... ... ... | 2 | 3 6 | ... | 2 0 | 14 | |
| | | | | | | 83 |
| Square feet ... | ... | ... | ... | ... | ... | 1,360 |
| Squares ... | ... | ... | ... | ... | ... | 13·60 |

*Detailed Quantities*—cont.

| Description of Work. | No. | Length. | Breadth. | Depth. | Contents. | Total. |
|---|---|---|---|---|---|---|
| | | FT. IN. | FT. IN. | FT. IN. | | |
| *Painting Roof with three coats of Wood oil.* | | | | | | |
| Rafters for verandah ... ... ... | 16 | 10 0 | ... | 0 9½ | 127 | |
| Ridge for entrance ... ... ... | 1 | 8 7 | ... | 1 ½ | 9 | |
| Hip rafters for do. ... ... ... | 2 | 11 6 | ... | 1 0 | 23 | |
| Small rafters for do. ... ... ... | ... | 101 0 | ... | 0 9½ | 80 | |
| Purlins ... ... ... ... | 2 | 12 0 | ... | 1 5 | 34 | |
| Do. ... ... ... ... | 4 | 10 8 | ... | 1 2 | 50 | |
| Wall purlins ... ... ... ... | 2 | 38 0 | ... | 1 0 | 76 | |
| Ridge ... ... ... ... | 1 | 35 6 | ... | 1 4½ | 49 | |
| Common rafters ... ... ... | 27 | 11 9 | ... | 0 8 | 373 | |
| Do. ... ... ... | 23 | 10 6 | ... | 0 8 | | |
| Planking ... ... ... ... | 4 | 11 9 | ... | 0 6 | 24 | |
| Reepers ... ... ... ... | ... | ... | ... | ... | 434 | |
| | ... | 1,945 0 | ... | 0 3½ | 567 | |
| Square feet ... | ... | ... | ... | ... | 1,846 | |
| Squares ... | ... | ... | ... | ... | ... | 18·46 |
| *Painting with three coats of Carson's Oak color.* | | | | | | |
| Doors ... ... ... ... 2 × | 1 | 3 9 | ... | 6 6 | 49 | |
| Do. ... ... ... ... 2 × | 4 | 2 9 | ... | 6 0 | 132 | |
| Window ... ... ... ... 2 × | 1 | 3 0 | ... | 4 0 | 24 | |
| Ventilators with venetians and iron bars ... ... ... 3 × | ... | 4 9 | ... | 1 9 | 100 | |
| Do. with iron bars ... 2 × | 2 | 3 6 | ... | 2 7 | 36 | |
| Frames with venetians in gables 3 × | 2 | 7 6 | ... | 1 3 | 56 | |
| Posts ... ... ... ... ... | 4 | 1 8 | ... | 5 9 | 64 | |
| Do. ... ... ... ... ... | 2 | 1 8 | ... | 7 9 | | |
| Breastsummers ... ... ... ... | 2 | 14 0 | ... | 1 8 | 47 | |
| Cleats ... ... ... ... ... | 18 | 0 6 | ... | 0 9 | 7 | |
| Barge board over entrance ... ... | 2 | 9 0 | ... | 0 4¾ | 7 | |
| Struts ... ... ... ... ... | 2 | 4 0 | ... | 1 0 | 8 | |
| Barge board in gables ... ... ... | 4 | 12 6 | ... | 1 0 | 50 | |
| Square feet ... | ... | ... | ... | ... | 580 | |
| Squares ... | ... | ... | ... | ... | ... | 5·80 |
| Arm-rack for four rifles ... ... | ... | 2¾ lineal feet. | | | | |
| Pegs for accoutrements ... ... | ... | 6 in number. | | | | |
| Movable shelf for Inspector's room ... | ... | 1 in number. | | | | |



ABSTRAC

Second-class Police Station-house with Sl ...ofing, Plan No. 2-A.

| Quantity. | Item. | ...co. | Per | Amount. |
|---|---|---|---|---|
| | | ... P. | | Rs. A. P. |
| 76 C. yds. | Excavation for foundations ... | | | |
| 35 „ | Earthfilling in basement ... | | | |
| 697 C. ft. | Concrete ... ... ... ... | | | |
| 695 „ | Brickwork in foundations ... | | | |
| 449 „ | Do. in basement ... | | | |
| 1,848 „ | Do. in superstructure ... | | | |
| 28 „ | Archwork ... ... ... | | | |
| 23 „ | Cut-stone work in steps ... | | | |
| 94 „ | Teakwood wrought and put up ... | | | |
| 66 Sq. ft. | Iron inner doors ... ... | | | |
| 24 „ | Teak batten door with frames and fastenings. | | | |
| 12 „ | Do. window do. ... | | | |
| 33½ „ | Ventilators, wooden frames, and venetians with iron bars. | | | |
| 18 „ | Ventilators, wooden frames and iron bars for gable ends. | | | |
| 19 „ | Frames with fixed venetians for do. do. | | | |
| 6 No. | Stones under posts ... ... | | | |
| 9½ L. ft. | Moulding over exterior openings. | | | |
| 4·34 Sqs. | Tiled roofing with pan tiles over one inch teak planking for lock-up. | | | |
| 7·85 „ | Tiled roofing with flat and pan tiles and teak reepers. | | | |
| 4·68 „ | Flooring with square tiles ... | | | |
| 2·04 „ | Do. lock-up with jelly six inches thick and painting over with tar and asphalte composition | | | |
| 21·02 „ | Plastering and washing interior.. | | | |
| 13·60 „ | Do. do. exterior... | | | |
| 18·46 „ | Painting roof with three coats of wood-oil. | | | |
| 5·80 „ | Do. doors and windows and exposed wood work with three coats of Carson's oak color. | | | |
| 2¾ L. ft. | Arm-rack for four rifles ... ... | | | |
| 6 No. | Pegs for accoutrements ... | | | |
| 1 „ | Movable shelf for Inspector's room. | | | |
| | Rupees ... | ... | ... | ... |
| | Contingencies at 5 per cent... | ... | ... | ... |
| | Total ... | ... | ... | ... |

Chepâk,
9th July 1880.

(Signed) R. F. CHISHOLM,
Consulting Architect to Government.

Madras,
20th July 1880.

(Signed) T. K. GUTHRIE, Major,
Asst. Inspector-General of Police,
*for* Inspector-General of Police.

ESTIMATE of the Cost of constructing a Third-class Police Station-house with Sloped Roofing according to Standard Design No. 3-A.

*Detailed Quantities.*

| Description of Work. | No. | Length. | Breadth. | Depth. | Contents. | Total. |
|---|---|---|---|---|---|---|
| | | FT. IN. | FT. IN. | FT. IN. | | |
| *Excavation for Foundations.* | | | | | | |
| Outer walls ... ... ... ... ... | ... | 69 6 | 4 0 | 3 0 | 945 | |
| Partition ... ... ... ... ... | 1 | 9 3 | 4 0 | 3 0 | | |
| Verandah walls ... ... ... ... | ... | 28 0 | 3 6 | 3 0 | 294 | |
| Steps ... ... ... ... ... | 1 | 11 0 | 3 0 | 1 6 | 50 | |
| Cubic feet ... | ... | ... | ... | ... | 1,289 | |
| Cubic yards ... | ... | ... | ... | ... | ... | 48 |
| *Earthfilling in Basement.* | | | | | | |
| Guard room ... ... ... ... | 1 | 12 0 | 12 0 | 1 6 | 342 | |
| Lock-up ... ... ... ... | 1 | 7 0 | 12 0 | 1 6 | | |
| Verandah ... ... ... ... | 1 | 18 9 | 5 3 | 1 6 | 148 | |
| Cubic feet ... | ... | ... | ... | ... | 490 | |
| Cubic yards ... | ... | ... | ... | ... | ... | 18 |
| *Concrete 12 inches thick.* | | | | | | |
| Excavation 1,239 cubic feet ÷ 3 = ... | ... | ... | ... | ... | 413 | |
| Steps ... ... ... ... ... | 1 | 11 0 | 3 0 | 1 0 | 33 | |
| Cubic feet ... | ... | ... | ... | ... | 446 | |
| *Brickwork in Foundations Footings.* | | | | | | |
| Outer walls ... ... ... ... | ... | 69 6 | 2 3 | 1 6 | 272 | |
| Partition ... ... ... ... | 1 | 11 0 | 2 3 | 1 6 | | |
| Verandah walls ... ... ... ... | ... | 29 9 | 1 9 | 1 6 | 78 | |
| Above footings to ground level— | | | | | | |
| Outer walls ... ... ... | ... | 69 6 | 1 3 | 0 6 | 51 | |
| Partition ... ... ... | 1 | 12 0 | 1 3 | 0 6 | | |
| Extra thickness for plinth ... | ... | 55 3 | 0 3 | 0 6 | 7 | |
| Verandah walls ... ... | ... | 30 9 | 0 9 | 0 6 | 12 | |
| Steps ... ... ... ... | 1 | 11 0 | 3 0 | 0 6 | 17 | |
| Cubic feet ... | ... | ... | ... | ... | 437 | |
| *Brickwork in Basement.* | | | | | | |
| Outer walls ... ... ... ... | ... | 69 6 | 1 3 | 2 0 | 174 | |
| Extra thickness for plinth ... ... | ... | 55 3 | 0 3 | 2 0 | 28 | |
| Partition ... ... ... ... | 1 | 12 0 | 1 3 | 2 0 | 30 | |
| Verandah walls ... ... ... | ... | 30 9 | 0 9 | 2 0 | 46 | |
| Steps ... ... ... ... | 1 | 11 0 | 3 0 | 0 6 | 17 | |
| Do. ... ... ... ... | 1 | 9 0 | 2 0 | 0 6 | 9 | |
| Do. ... ... ... ... | 1 | 7 0 | 1 0 | 0 6 | 4 | |
| | | | | | 308 | |
| Deduct stone in steps ... ... ... | ... | ... | ... | ... | 23 | |
| Cubic feet ... | ... | ... | ... | ... | 285 | |
| *Brickwork in Superstructure.* | | | | | | |
| Outer walls ... ... ... ... | ... | 69 6 | 1 3 | 10 6 | 1,070 | |
| Partition ... ... ... ... | 1 | 12 0 | 1 3 | 10 6 | | |
| Gables ... ... ... ... | 3 | 14 6 | 1 3 | 2 5 | 131 | |
| | | | | | | 1,201 |



*Detailed Quantities.*

| Description of Work. | No. | Length. | Breadth. | Depth. | Contents. | Total. |
|---|---|---|---|---|---|---|
| | | FT. | FT. IN. | FT. IN. | | |
| *Deductions.* | | | | | | |
| Door ... ... ... ... ... | 1 | 3 | 1 3 | 6 6 | 20 | |
| Do. ... ... ... ... ... | 1 | 2 9 | 1 3 | 6 0 | 21 | |
| Ventilators ... ... ... ... | 3 | 4 9 | 1 3 | 1 9 | 31 | |
| Do. in gables ... ... ... | 2 | 3 6 | 1 3 | 2 4 | 20 | |
| Archwork as per details ... ... | ... | ... | ... | ... | 10 | |
| Cubic feet ... | ... | ... | ... | ... | | 112 |
| *Archwork.* | | | | | ... | 1,089 |
| Segmental arch over door ... | 1 | 4 6 | 1 3 | 1 0 | 19 | C. ft. |
| Do. do. ... | 1 | 3 6 | 1 3 | 1 0 | | |
| *Stonework if easily procured.* | | | | | | |
| Steps ... ... ... ... ... | ... | 37 0 | 1 3 | 0 6 | 23 | Do. |
| *Teakwood.* | | | | | | |
| Posts ... ... ... ... | 2 | 6 5 | 0 5 | 6 4 | 2 | |
| Do. ... ... ... ... | 2 | 0 5 | 0 5 | 8 1½ | 3 | |
| Breastsummers ... ... ... | 2 | 7 10 | 0 5 | 0 5 | 3 | |
| Rafters, verandah ... ... ... | 8 | 9 6 | 0 2½ | 0 3½ | 5 | |
| Ridge for entrance ... ... ... | 1 | 8 3 | 0 2½ | 0 5 | 1 | |
| Hip rafters for do. ... ... ... | 2 | 11 0 | 0 3 | 0 4½ | 2 | |
| Small rafters do. ... ... ... | 2 | 8 0 | 0 2½ | 0 3½ | 2 | |
| Do. ... ... ... | 4 | 7 0 | 0 2½ | 0 3½ | 6 | |
| Do. ... ... ... | 4 | 6 9 | 0 2½ | 0 3½ | | |
| Barge board for do. ... ... ... | 2 | 5 9 | 0 4 | 0 5½ | 1 | |
| Struts ... ... ... ... ... | 2 | 3 0 | 0 2½ | 0 10½ | 2 | |
| Cleats to secure verandah rafters to breastsummers ... ... ... | 6 | 6 2½ | 0 8 | 1 0 | 1 | |
| Purlins over guard room ... ... | 2 | 15 9 | 0 5 | 0 6 | 1 | |
| Do. over lock-up ... ... ... | 2 | 10 6 | 0 4 | 0 5 | 1 | |
| Wall purlins ... ... ... ... | 2 | 26 6 | 0 4 | 0 4 | 3 | |
| Ridge ... ... ... ... ... | 1 | 26 6 | 0 2½ | 0 6 | 3 | |
| Common rafters ... ... ... ... | 19 | 9 10 | 0 2 | 0 3 | 3 | |
| Do. ... ... ... ... | 15 | 8 3 | 0 2 | 0 3 | 2 | |
| Do. end ... ... ... | 4 | 9 10 | 0 3 | 0 3 | 4 | |
| Barge board ... ... ... ... | 4 | 10 7 | 0 1 | 1 0 | 64 | |
| Cubic feet ... | ... | ... | ... | ... | 17 | Sq. ft. |
| *Iron inner doors* ... ... ... | 1 | 2 9 | ... | 6 0 | 34 | Do. |
| *Teak batten door with frames and fastenings* ... ... ... ... ... | 1 | 3 9 | ... | 6 6 | 25 | Do. |
| *Ventilators, wooden frames and venetians with iron bars* ... ... ... | 3 | 4 9 | ... | 1 9 | 16½ | Do. |
| *Ventilators, wooden frames and iron bars at gable ends* ... ... ... | 2 | 3 6 | ... | 2 4 | 15 | Do. |
| *Frames with fixed venetians in gables* ... | 2 | 6 6 | ... | 1 1½ | | |
| *Mouldings over exterior openings.* | | | | | | |
| Door ... ... ... ... ... | ... | ... | ... | ... | 5 | L. ft. |
| *Stones under verandah posts 1' × 1' × 4"* ... | ... | 4 in number. | | | | |

*Detailed Quantities*—cont.

| Description of Work. | No. | Length. | Breadth. | Depth. | Contents. | Total. |
|---|---|---|---|---|---|---|
| | | FT. IN. | FT. IN. | FT. IN. | | |
| *Tiled Roofing with Pan Tiles over 1 inch Teak Planking.* | | | | | | |
| Lock-up | | | | | | |
| Do. | | 10 6 | | 10 6 | 128 | |
| Do. | | 1 8 | | 10 6 | | |
| | | 8 10 | | 8 9 | 77 | |
| Square feet | | | | | 205 | |
| Squares | | | | | | 2·05 |
| *Tiled Roofing with Flat and Pan Tiles over Teak Reepers.* | | | | | | |
| Guard room | | | | | | |
| Do. | | 15 7 | | 10 6 | 181 | |
| Do. | | 1 8 | | 10 6 | | |
| Verandah | | 13 11 | | 8 9 | 122 | |
| Do. over entrance | 2 | 16 4½ | | 8 0 | 131 | |
| | 2 | 7 3 | | 4 4½ | 63 | |
| Square feet | | | | | 497 | |
| Squares | | | | | | 5 |
| *Flooring with Square Tiles.* | | | | | | |
| Guard room | | | | | | |
| Verandah | 1 | 12 0 | | 12 0 | 144 | |
| Door piece | 1 | 20 3 | | 6 0 | 122 | |
| Do. | 1 | 3 9 | | 1 3 | 5 | |
| | 1 | 2 9 | | 0 7½ | 2 | |
| Square feet | | | | | 273 | |
| Squares | | | | | | 2·73 |
| *Flooring with jelly 6" thick and painting over with a composition of 1 lb. asphalte to 5 lb. of tar.* | | | | | | |
| Lock-up | | | | | | |
| Door piece | 1 | 7 0 | | 12 0 | 84 | |
| | 1 | 2 9 | | 0 7½ | 2 | |
| Square feet | | | | | 86 | |
| Squares | | | | | | ·86 |
| *Plastering interior and washing.* | | | | | | |
| Guard room | | | | | | |
| Lock-up | | | | | | |
| Gables | | 48 0 | | 10 6 | 504 | |
| Door jambs | | 38 0 | | 10 6 | 399 | |
| Do. | 4 | 14 6 | | 2 5 | 140 | |
| Ventilator jambs | 1 | 17 0 | | 1 3 | | |
| Do. | 1 | 15 0 | | 1 3 | 88 | |
| | 3 | 8 3 | | 1 3 | | |
| | 2 | 7 0 | | 1 3 | | |
| *Deductions.* | | | | | | 1,131 |
| Door | | | | | | |
| Do. | 1 | 3 9 | | 6 6 | 24 | |
| Ventilators | 1 | 2 9 | | 6 0 | 33 | |
| Do. | 3 | 4 9 | | 1 9 | 25 | |
| | 2 | 3 6 | | 1 6 | 11 | |
| | | | | | | 93 |
| Square feet | | | | | | 1,038 |
| Squares | | | | | | 10·38 |



*Detailed Quantities*—cont.

| Description of Work. | No. | Length. | Breadth. | Depth. | Contents. | Total. |
|---|---|---|---|---|---|---|
| | | FT. IN. | FT. IN. | FT. IN. | | |
| *Plastering exterior and washing.* | | | | | | |
| Basement | | 88 0 | | 2 0 | 176 | |
| Superstructure | | 74 6 | | 10 6 | 782 | |
| Gables | 2 | 14 6 | | 2 5 | 70 | |
| | | | | | | 1,028 |
| *Deductions.* | | | | | | |
| Door | 1 | 3 9 | | | | |
| Ventilators | 3 | 4 9 | | 6 6 | 24 | |
| Do. | 2 | 3 6 | | 1 9 | 25 | |
| | | | | 1 6 | 11 | |
| | | | | | | 60 |
| Square feet | | | | | | 968 |
| Squares | | | | | | 9·68 |
| *Painting with three coats of wood oil.* | | | | | | |
| Rafters for verandah | 8 | 9 6 | | | | |
| Ridge for entrance | 1 | 8 3 | | 0 9½ | 60 | |
| Hip rafters for do. | 2 | 11 0 | | 1 ½ | 9 | |
| Small do. do. | | 91 0 | | 1 0 | 22 | |
| Purlins over guard room | 2 | 15 7 | | 0 9½ | 72 | |
| Do. over lock-up | 2 | 10 4 | | 1 5 | 44 | |
| Wall purlins | 2 | 26 1 | | 1 2 | 24 | |
| Ridge | 1 | 26 1 | | 1 0 | 52 | |
| Common rafters | 19 | 9 10 | | 1 2½ | 32 | |
| Do. | 15 | 8 3 | | 0 8 | 207 | |
| Planking | 4 | 9 10 | | 0 6 | 20 | |
| Reepers | | | | | 205 | |
| | | 1,250 0 | | 0 3½ | 365 | |
| Square feet | | | | | 1,112 | |
| Squares | | | | | | 11·12 |
| *Painting with three coats of Carson's Oak color.* | | | | | | |
| Posts | 2 | 6 0 | | | | |
| Do. | 2 | 7 9 | | 1 8 | | |
| Breastsummers | 2 | 7 10 | | 1 8 | 72 | |
| Barge board for entrance | 2 | 8 9 | | 1 8 | | |
| Struts | 2 | 5 0 | | 0 4½ | 7 | |
| Cleats | 8 | 0 6 | | 1 0 | 10 | |
| Barge board | 4 | 10 7 | | 0 9 | 3 | |
| Door 2 × | 1 | 3 9 | | 1 1 | 46 | |
| Do. 2 × | 1 | 2 9 | | 6 6 | 49 | |
| Ventilators with venetians 3 × | 3 | 4 9 | | 6 0 | 33 | |
| Do. with iron bars 2 × | 2 | 3 6 | | 1 9 | 75 | |
| Frames with fixed venetians 3 × | 2 | 6 6 | | 2 4 | 33 | |
| | | | | 1 1½ | 44 | |
| Square feet | | | | | 372 | |
| Squares | | | | | | 3·72 |
| *Arm-rack for two rifles* | 1½ lineal feet. | | | | | |
| *Pegs for accoutrements* | 4 in number. | | | | | |
| *Movable shelf for records* | 1 in number. | | | | | |

## ABSTRACT.

THIRD-CLASS Police Station-house with Tiled Roofing, Plan No. 3-A.

| Quantity. | Item. | Rate. RS. A. P. | Per | Amount. RS. A. P. |
|---|---|---|---|---|
| 48 C. yds. | Excavation for foundations ... ... | | | |
| 18 „ | Earthfilling in basement ... ... | | | |
| 446 C. ft. | Concrete ... ... ... ... | | | |
| 437 „ | Brickwork in foundations ... ... | | | |
| 285 „ | Do. in basement ... ... | | | |
| 1,089 „ | Do. in superstructure ... ... | | | |
| 10 „ | Archwork ... ... ... ... | | | |
| 23 „ | Stonework in steps (if easily procured) | | | |
| 64 „ | Teakwood wrought and put up ... | | | |
| 17 S. ft. | Iron inner doors ... ... ... | | | |
| 24 „ | Teak batten door with frames and fastenings ... ... ... | | | |
| 25 „ | Ventilators, wooden frames, and venetians with iron bars ... ... ... | | | |
| 16½ „ | Ventilators, wooden frames, and iron bars at gable end ... ... ... | | | |
| 15 „ | Frames with fixed venetians in gables. | | | |
| 5 L. ft. | Moulding over exterior opening ... | | | |
| 4 No. | Stones under verandah posts ... ... | | | |
| 2·05 Sqs. | Tiled roofing with pan tiles over 1 inch teak planking ... ... ... | | | |
| 5 „ | Tiled roofing with flat and pan tiles over teak planking ... ... | | | |
| 2·73 „ | Flooring with square tiles ... | | | |
| ·86 „ | Do. with jelly 6 inches thick and painting with tar and asphalte composition ... ... ... ... | | | |
| 10·38 „ | Plastering interior and washing ... | | | |
| 9·68 „ | Do. exterior and washing ... | | | |
| 11·12 „ | Painting with three coats of wood oil .. | | | |
| 3·72 „ | Do. with three coats of Carson's oak color ... ... ... ... | | | |
| 1½ L. ft. | Arm-rack for two rifles ... ... | | | |
| 4 No. | Pegs for accoutrements ... ... | | | |
| 1 „ | Movable shelf for records ... ... | | | |
| | Contingencies at 5 per cent ... ... | | | |
| | Total ... | | | |

CHEPÂK,
9th July 1880.

(Signed) R. F. CHISHOLM,
Consulting Architect to Government.

MADRAS,
20th July 1880.

(Signed) T. K. GUTHRIE, Major,
Asst. Inspector-General of Police,
*for* Inspector-General of Police.

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Four Copies for B12/10239 / 1886

12/720

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

2nd August 1880, No. 1828 W.

**Buildings and Roads.**
**Civil Works.**

Read the following paper:—

No. 4. From R. F. CHISHOLM, Esq., Consulting Architect to Government, to the Chief Engineer, Public Works Department, Buildings and Roads Branch, dated Chepâk, 21st July 1880, No. 276.

I HAVE the honor to return the plans and estimates of the alternative design for first, second and third-class stations with sloped roofing countersigned by the Assistant Inspector-General of Police.

3 Plans.
3 Estimates.
1 Specification.

No. 5. ORDER THEREON, 2nd August 1880, No. 1828 W.

THE Government approve the alternative standard designs for first, second and third-class Police stations submitted by the Consulting Architect, and direct their adoption in supersession of all previous designs for such buildings.

2. The designs will be lithographed and the specification and estimates of quantities printed and circulated for the information of the department.

(True Extract.)

(Signed) R. H. SANKEY, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Superintending Engineers.
„ Superintendents of Works.
To the Consulting Architect.
„ Judicial Department.

Exd. A. Aubert.

BUILDINGS AND ROADS.
CIVIL WORKS.

# Govt. of {1880} Madras.

PUBLIC WORKS.

Dated August, 2nd.

Read. Encl.

G.O., 2nd Aug. 1880, No. 1828 W.

AUGUST.

*Standard Designs for Police Stations.*—
irecting the adoption of the alternative —
ubmitted by the Consulting Architect in
upersession of all previous designs for such
buildings.

Works Department 188 4-5

Current No. 2352
Letter No. B/P. 613
Dated the 14th March/85
From the Secy to Govt- Judl. Dept.

Sanctioned
Cd.
17.3.85

Note of Remarks.

1. The accompanying estimate provides for constructing a 2nd class Police station house at Poonamallee in the Chingleput district. The estimate amounts to Rs. 2,150.

2. Except that greater breadths and depths are allowed to the trenches of the foundations, the estimate submitted is in strict accordance with the standard sanctioned in G.O. No. 1828. of the 2nd August/80.

3. The estimate has been countersigned by the Inspr. Genl. of Police.

17th March,
GH

Inspr Genl of Police
For Inspr Genl of Police

31-7-13.

No 86.

Office of the Inspector General of Police,

Madras, 5th March 188

From

Colonel H. D. Clerke

Inspector General of Police,

To

The Chief Secretary

to Government

Fort Saint George.

Sir,

Enclosures. 3

1. Estimate.
1. Specification.
1. Report.
3

I have the honor to forward for the sanction of Government D. P. W. Estimate amounting to Rupees 2150 for the Construction according to standard design of 2nd Class Police Station House at Poonamallee Chingleput District

2. The District Superintendent states that a plot of Government land has been secured as a site for the above building.

I have the honor to be
Sir
Your Most Obedt Servant

H. D. Clerke Lieut Col
Offg Insp Genl of Police
for Insp Genl of Police

8/3

Judicial (1885) Department.

From Col. A. D. Cleete

Inspector General of Police,

No. 1186 G

Dated 5th March 1885.
Received

No.

Subject.

Forwarding for sanction a D. P. W. estimate amounting to Rs 2150/- for the Construction of a 2d Class Police Station house at Poonamallee as per standard design.

m/ 13/3

Ap 613 of 14 March /85

Approved and transferred to the Public Works Department.

By order.

H A Stuart
Ag: Asst: Secy:

3. 85

km 13/3
kj 14/3

No. 720 W. Public Works Department.

15/720

Proceedings of the Madras Government.

Under date the 23d March /85.

Read the following

Endt: Jndl Dept for letter from the Inspr. General of Police No 1186 of 5th March /85. (H.O. No: 613 of 14th March /85)

3

The estimate amounting to Rs 2150, for constructing a second Class police station house at Poonamallee, in the Chingleput District is sanctioned for execution when funds are available.

2. This sanction

has been registered
as Provincial No. 28½
of 1885-86, and
Classified as Civil
Buildings Original
Work.

CW
21.3.85

CW
27.3.85

J — BH
BW 27/3

DC
27/3

To The S.E. & Enclosures
" Judl Dept. 3 Enclosures ✓
" Ex: P.W.A ✓

CW/

W 21/3

Dd/W

W 14/3.

16/720

16/3/28. Br

2382.

Govt. of 1885 Madras.

PUBLIC WORKS.

Press 25—3—85—

Dated

Recd.

Recd.

G.O. 23 March 1885, No. 720 W.

Police station house

Estimate for Rs 2150.
for constg. a second
Class — at Poonamallee
in the Chingleput Dist.
Sanctioned—

60

11