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MADRAS RECORD OFFICE

Government of Madras

Public Works

DEPARTMENT

G.O. No.	1986.	Press
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Dated	13 - 7 -	25 - 195

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935
Cobl. of 1874
PUBLIC WORKS.

To *Mr. [Signature]*
Dated *[Signature]*
Issued *[Signature]*
Recd. *[Signature]*

G. O. 13 July 1875. No. 354

Nos. 154-155

Kind Standard Specific
& Estimate for the
Construction of a Taluq
Library. - The
estimate circulated for the
attention of Superintending
District Engineers.

No. 354. Read the following letter from R. CHISHOLM, Esq., Consulting Architect to Government, to Major A. DE C. SCOTT, Under Secretary to Government, Public Works Department, dated Chepauk, 10th February 1875, No. 447:—

I HAVE the honor to return the estimate for the Taluq Cutcheries duly corrected. I have added the iron railing and doors for the Treasury.

2. As the plan, dated 17th February 1874, does not show these railings, I beg to enclose a revised sketch* of that portion.

*Proceedings of the Madras Government, Public Works Department,
13th July 1875.*

**SPECIFICATION OF WORKS TO BE PERFORMED IN CONSTRUCTING A FIRST-CLASS
TALUQ CUTCHERRY AND SUBSIDIARY JAIL.**

This specification refers to the Standard Design represented in drawings Nos. 1 and 2, dated the 17th February 1874.

EXCAVATION.

After the centre lines of the walls have been pegged out and the breadths of the foundations lockspitted, excavate the trenches to the full depths shown on the drawing, or to such other depths as the officer in charge of the works may direct.

CONCRETE.

On receipt of a written order from the officer in charge of the works, to the effect that the foundations have been sufficiently sunk, proceed to lay 12 inches of concrete.

The concrete will be laid in two layers, each layer 6 inches thick, well rammed with heavy beaters, and the second layer will not be added to the first, until the latter is thoroughly consolidated.

BRICKWORK.

On the completion of the concrete, the centre lines will be carefully laid out and the footing courses commenced. The footing courses will be carried up in steps 6 inches high with 3 or 4 inch offsets on either side according to the drawing.

Walling.—The walling will consist of brickwork in chunam two bricks thick (about 18 inches).

Splays—All openings will have splayed edges, measuring 3 inches on the face of the splay.

Arching.—All arches will be turned in four concentric rings of brick on edge.

STONEWORK.

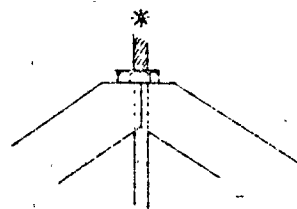
In localities where stone is cheap, a stone curbing should run all round the edge of the verandah and the top of the plinth, and stone slabs should be placed under the wooden posts and trusses. It would be advisable also to construct the spiral of stone steps.

TEAKWOOD.

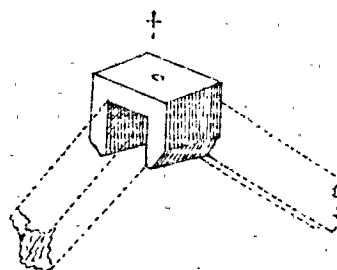
The teakwood trusses, rafters, verandah supports, etc., will be executed in strict accordance with the details shown on the drawing dated April 1872.

(NOTE.—Extra scantlings have been allowed in the quantities for the principal rafters and common rafters.)

In framing the trusses, the heels of the rafters will be let into the tie-beams and strapped down tight, and the heads allowed to butt simply.* Over the head a check hollowed out

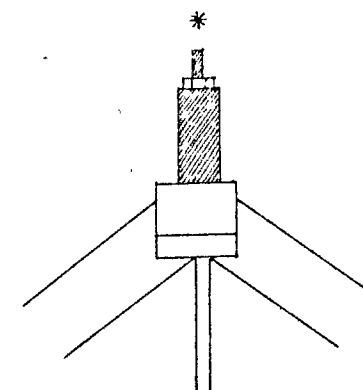


so as to cover the joints† will be fastened by the first nut. After the struts having been cut



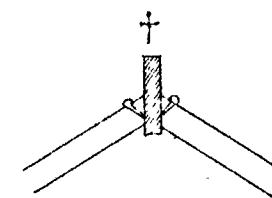
*Proceedings of the Madras Government, Public Works Department,
13th July 1875.*

to admit of the proper camber, lap a rope round the truss and 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-beam and be held in their places by round pieces of wood. The upper ends will be halved into the rafters. When the trusses are hoisted, put on the ridge over the king rod heads, and screw the second nut down tight.* Halve the purlins and rafters each to

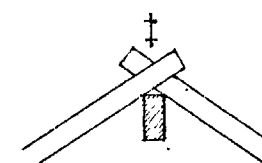


the extent of one inch. Support the purlins over the walls between the trusses.

Rafters.—Notch the rafters into the purlins, but on no account cut the purlins themselves as the full section is required for the roof. Let every rafter project 3 feet 9 inches beyond the purlin over the wall. Where verandahs are shown the rafters will run out over the wall purlin, being supported at their ends by the posts. Bring each rafter up against the ridge and spike it as shown on the drawing.†



(NOTE.—It is customary to make the ridge support the rafters by crossing them above it.† This is necessary; if the rafters are properly halved into the principle purlin, the ridge



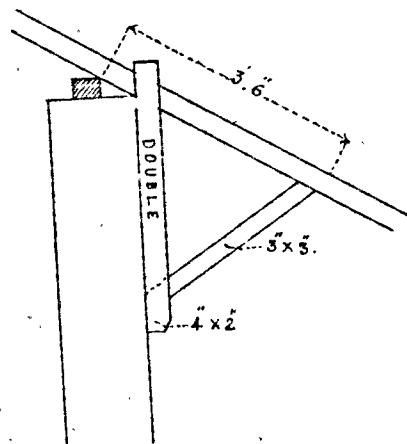
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can only stay their ends, it cannot support them.)

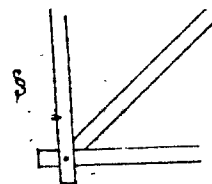
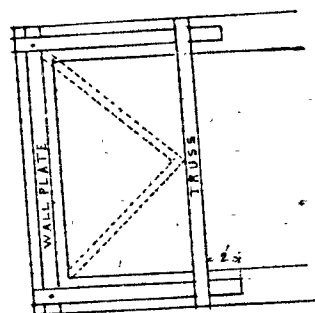
In the jail, strut every rafter from the wall.

The details of this arrangement is shown on the drawing.

Wall-plates.—Where a truss ends a roof at a distance from the wall about equal to half



the span as in the record-room and men's ward, a wall plate should run all along the wall to the angle immediately under the truss. The lower ends of the principal hip rafters will butt against the angles formed by these plates, and the upper ends will be fastened under the ridge



pole. It is not necessary to strut these rafters, as the scantling, 6 inches $\times$ 6 inches, is sufficient without the intermediate support.

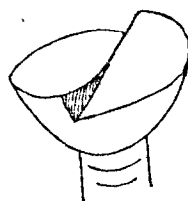
The hip rafter at the spiral angle will be bedded in the masonry of the spiral above the level of the wall-plate, so as to preserve the same angle of roofing.

IRONWORK.

Iron Gratings.—Provide and fix with the screws specified hereafter No. — gratings of the forms and dimensions shown on the drawings.

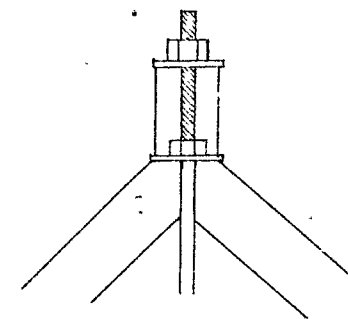
Iron Doors.—Provide and fix No. — doors of the forms and dimensions shown on the drawings.

Screws.—Fasten to frames with unreversible screws. These screws must be specially made. They have large heads filed, so that they can only be screwed in and not out.

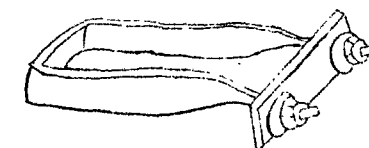


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Tie-rods.—Supply to carpenter No. — tie-rods of the forms and dimensions shown, lower end to have octagonal head and 3 inches by $\frac{1}{8}$ th inch washers.* The upper end 9 inches of worm and double nuts and washers.



Straps.—Supply to carpenter No. — straps for trusses formed of $1\frac{1}{2}$ inches by $\frac{3}{8}$ th inch iron forged to a half inch screw at ends, bearing plate $1\frac{1}{4}$ by half inch, with nuts and washers.



Spikes, Nails, and Screws.—Supply to the carpenter all necessary spikes, screws, nails, and tacks.

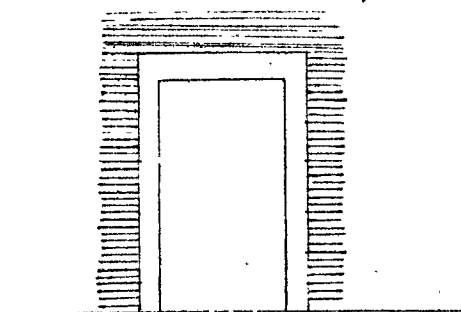
Bolts.—Supply No. — upper bolts inches long, and No. — lower bolts inches long, No. — hinges 6 inches long, four to each folding door, and No. — elbow hinges, No. — rim locks inches by— inches. (Here specify any special fastenings for jail.)

NOTE.—If the building is on the coast all door furniture should be of brass.

PLASTERING.

One coat of rough cast.—Lay with hand floats one coat of rough cast over the whole of the interior, and bring to a smooth and level surface.

Whitewash.—Whitewash all interior jambs and soffits, 9 inches in breadth at sides and 12 at tops of all openings. Color-wash all remaining portions.



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The following proportions make good tints for this work.

Whitewash. { 40 White.
1 Yellow.

Color-wash. { 25 White.
1 Yellow.
1 Red.
1 Black.

POINTING.

Rake out the exterior joints of all masonry work to the depth of half an inch, well wash the surface and point with flush pointing. The mortar should be toned to the color of the brick by the addition of red ochre.

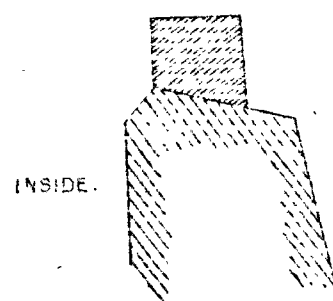
ROOFING.

Leading.—After the whole of the carpentry of the roof has been completed, lay in the valleys 18 inches broad leading (or zine if sheet lead is not procurable) 8 lbs. to the foot superficial, with a lap of 9 inches where joined.

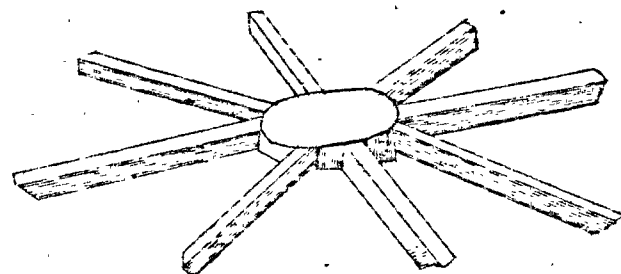
Tiling.—Cover the roof with well-burnt tiles laid in the usual manner, and protect the ridges and hips in tiles specially made for the purpose.

Chunam bands.—Protect the ridges, hips, and eaves with chunam bands, rough cast on the surface, and lay bands on the tiling inches broad and inches apart.

Roof of Spiral.—The curb of wood on which the spiral rests must be bolted down by eight bolts as shown on the drawing. Care must be taken to cut the underside of the curb so as to prevent the water from getting in between the wood and the masonry.



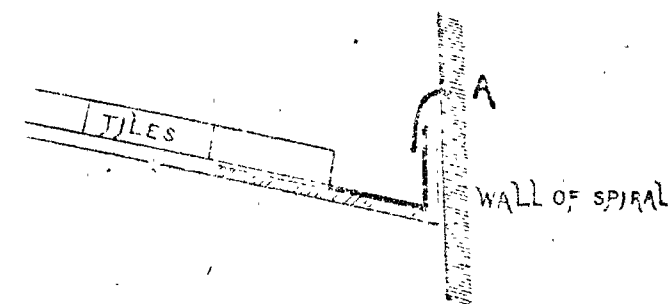
After the uprights and top pieces have been tenoned into the curb, eight horizontal pieces tenoned into a central boss will be spiked on the top.



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From the ends of these rise the eight angle pieces forming the spirelet. A piece 3 inches x 4 inches will receive the lower weather-board, after which the boards will overlap each other to the extent of 2 inches. A neatly cut roll, notched to fit the weather-boarding on the underside and rounded on top, will run up the outer angles.

Flushing at Spiral.—Where the roof butts the spiral, great care must be taken to make it water-tight. Under the tiles must be placed a metal gutter 9 inches broad and 6 inches high securely fastened to three-quarter inch boarding.



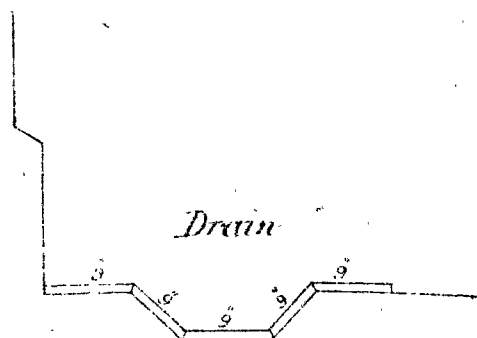
About 1 inch above the gutter, metal "flashing" must be placed in a chiselled groove in the masonry and turned down into the gutter.

FLOORING.

After the masons have brought the surface up ready to receive the floor tiles, lay an even floor of 9 inches square tiles set diagonally. The tiles will be rubbed on the surface and gauged to fit each other.

EXTERIOR DRAIN.

All round the exterior build a drain of flat 9 inch tiles as sketched on the margin, varying the section of the drain according to the slope of the ground.



GENERAL REMARKS.

The finial for the turret can be supplied by the Consulting Architect to Government, each finial costs 40 Rupees in Madras.

The height of the ridge on the jail side of the record room will be 18 feet 3 inches throughout, and the eaves 8 feet 9 inches. The height of the walls will vary so as to secure these dimensions. The height of the ridge and the eaves on the court-house side of the record room will be, respectively, 19 feet 6 inches and 7 feet 6 inches.

Where the roofs butt against the walls of the record room, lead flashing should be employed as specified for the turret.

Steps may be added on either side of the covered way with advantage.

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

21st December 1874.

Proceedings of the Madras Government, Public Works Department,
13th July 1875.

Estimate for constructing a Taluq Outcherry and Subsidiary Jail, as per Drawings, Nos.
1 and 2, dated 17th February 1871.

Detailed Quantities.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Excavation for foundations.</i>						
		FT. IN.	FT. IN.	FT. IN.	C. FT.	
Court-house, etc.	Outer walls ...	1	156 0	5 0	4 0	3,120
	Partitions ...	2	14 6	5 0	4 0	580
	Do. ...	1	6 6	3 10	4 0	100
	Verandah walls ...	1	178 4	3 10	4 0	2,734
	Steps ...	3	11 0	4 0	1 6	198
Clerks' rooms ...	Front wall ...	1	29 0	5 0	4 0	589
	Rear wall ...	1	38 0	5 0	4 0	760
	Partition wall ...	1	14 6	5 0	4 0	290
	End wall ...	1	13 3	5 0	4 0	255
	Front verandah ...	1	22 9	3 10	4 0	349
Turret ...	Back do. ...	1	30 0	3 10	4 0	460
	Steps ...	2	11 0	4 0	1 6	132
	Front wall ...	1	12 0	12 0	6 0	864
	Rear wall ...	1	24 9	5 3	4 0	520
	Partition ...	1	27 9	5 2	4 0	583
Sheristadar and Cashier. ...	End wall ...	1	14 0	4 9	4 0	266
	Back verandah ...	1	27 0	5 0	4 0	540
	Steps ...	1	34 11	3 10	4 0	535
	Front and ends ...	1	11 0	4 0	1 6	66
	Steps ...	1	38 6	5 0	4 0	770
Public ...	Front and ends ...	1	18 0	3 0	1 6	81
	Steps ...	1	51 0	5 0	4 0	1,020
	Front, rear and end. ...	1	14 6	4 9	4 0	276
	Partition ...	1	26 6	4 9	4 0	1,097
	Walls ...	2	11 0	4 0	1 6	132
Inspector and Police. ...	Steps, front and rear ...	2	139 6	5 0	4 0	2,790
	Outer walls ...	1	11 6	4 9	4 0	656
	Partitions ...	3				
					C. feet.	19,674
<i>Concrete, 12" thick.</i>						
Excavation ÷ 4 ...					C. feet	4,918½
BRICKWORK.						
<i>IN FOUNDATIONS AND BASEMENT.</i>						
<i>Footings.</i>						
Court-house, etc.	Outer walls ...	1	156 0	2 10	1 6	663
	Partitions ...	2	16 8	2 10	1 6	142
	Do. ...	1	8 8	1 10	1 6	24
	Verandah ...	1	178 4	1 10	1 6	490
	Front wall ...	1	31 2	2 10	1 6	132
Clerks' rooms ...	Rear wall ...	1	38 0	2 10	1 6	162
	Partition ...	1	16 8	2 10	1 6	71
	End wall ...	1	15 8	2 10	1 6	67
	Front verandah ...	1	26 0	1 10	1 6	72
	Back verandah ...	1	33 0	1 10	1 6	91
Turret ...	Front wall ...	1	9 10	9 10	1 6	145
	Rear wall ...	1	27 3	3 1	1 6	126
	Partition ...	1	29 11	3 1	1 6	138
	End wall ...	1	16 2	2 7	1 6	63
	Back verandah ...	1	23 6	2 10	1 6	100
Sheristadar and Cashier. ...	Front wall ...	1	37 9	1 10	1 6	104
	Rear wall ...	1				
	Partition ...	1				
	End wall ...	1				
	Back verandah ...	1				

* These steps have been omitted on plan, but should be inserted as they are required.

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Detailed Quantities.—(Continued.)

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Footings.—(Concluded.)</i>						
		FT. IN.	FT. IN.	FT. IN.	C. FT.	
Public ...	Front and ends ...	1	40 8	2 10	1 6	173
Inspector and Police. ...	Front, rear and end. ...	1	53 2	2 10	1 6	226
	Partition ...	1	16 8	2 7	1 6	65
Covered way ...	Front and rear walls ...	2	28 8	2 7	1 6	222
Jail ...	Outer walls ...	1	129 6	2 10	1 6	593
	Partitions ...	3	13 8	2 7	1 6	159
<i>Above footings to floor level.</i>						
Court-house, etc.	Outer walls ...	1	156 0	1 6	3 6	819
	Partitions ...	2	18 0	1 6	3 6	189
	Do. ...	1	10 0	0 10	3 6	29
	Verandah walls ...	1	178 4	0 10	3 6	520
	Steps ...	3	11 0	4 0	1 7½	215
Clerks' rooms ...	Do. ...	3	7 0	2 0	1 6	63
	Front wall ...	1	32 6	1 6	3 6	171
	Rear wall ...	1	33 0	1 6	3 6	200
	Partition ...	1	18 0	1 6	3 6	95
	End wall ...	1	16 10½	1 6	3 6	89
Sheristadar and Cashier. ...	Front verandah ...	1	28 6	0 10	3 6	83
	Back verandah ...	1	33 6	0 10	3 6	98
	Steps ...	2	11 0	4 0	1 7½	143
	Do. ...	2	7 0	2 0	1 6	42
	Front wall ...	1	17 9	1 9	3 6	109
Turret ...	Do. ...	1	11 4	2 1	3 6	83
	Rear wall ...	1	31 3	1 9	3 6	191
	Partition ...	1	17 6	1 3	3 6	77
	End wall ...	1	21 6	1 6	3 6	113
	Back verandah ...	1	38 0	0 10	3 6	111
Public ...	Steps ...	1	11 0	4 0	1 7½	72
	Do. ...	1	7 0	2 0	1 6	21
	Front and ends ...	1	9 2	9 2	5 0	420
	Steps ...	1	42 0	1 10	3 6	270
	Do. ...	1	18 0	3 0	1 7½	88
Inspector and Police. ...	Front, rear and end. ...	1	15 0	1 6	1 0	23
	Partition ...	1	54 6	1 10	3 6	356
	Walls ...	1	18 0	1 3	3 6	79
	Steps ...	2	29 4	1 3	3 6	257
	Do. ...	2	11 0	4 0	1 7½	143
Covered way ...	Front and rear ...	2	7 0	2 0	1 6	42
	Outer walls ...	1	139 6	1 10	3 6	895
	Partitions ...	3	15 0	1 3	3 6	197
					C. feet.	10,325
					Do.	502
<i>Deduct cutstone...</i>						
					Do.	9,823
<i>Brickwork in Superstructure.</i>						
Court-house, etc.	Outer walls ...	1	156 0	1 6	11 6	2,691
	Partitions ...	2	18 0	1 6	11 6	621
	Do. ...	1	10 0	0 10	17 6	146
	Gables ...	4	21 0	1 6	3 9	473
	Front wall ...	1	32 6	1 6	11 6	561
Clerks' rooms ...	Rear wall ...	1	38 0	1 6	11 6	656
	Partition wall ...	1	18 0	1 6	11 6	311
	End wall ...	1	16 10½	1 6	12 0	304
	Gables ...	2	21 0	1 6	3 9	236

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Detailed Quantities.—(Continued.)

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Brickwork in Superstructure.—</i> (Concluded.)						
		FT. IN.	FT. IN.	FT. IN.	C. FT.	
Turret	1	8 6	8 6	26 0	1,879	
Sheristadar and Cashier. { Front wall	1	29 9	1 9	12 0	625	
{ Rear wall	1	31 3	1 9	12 0	656	
{ Partition wall	1	17 6	1 3	12 0	263	
{ End wall	1	21 9	1 6	12 0	392	
Record-room	1	97 0	1 6	11 6	1,673	
Public	1	42 0	1 6	12 0	756	
{ Gable	1	18 0	1 6	3 0	81	
Inspector and Police. { Front, rear and end.	1	54 6	1 6	10 3	838	
{ Partition	1	18 0	1 3	10 3	231	
{ Gable	1	21 0	1 3	3 9	93	
{ Do.	1	21 0	1 6	3 9	118	
Jail	1	129 6	1 6	11 6	2,406	
{ Outer walls	3	15 9	1 3	11 6	617	
{ Partitions	3	18 0	1 3	3 0	203	
{ Gables	1	16 0	1 6	3 0	72	
						16,937
<i>Deductions—</i>						
Archway	1	12 0	1 6	4 6	81	
Do.	6	5 0	1 6	5 0	225	
Doorways	4	4 0	1 9	4 0	112	
Do.	2	4 0	1 3	4 0	40	
Do.	28	4 0	1 6	4 0	672	
Spiral doors	2	2 9	1 3	3 3	22	
Jail ventilators	6	4 0	1 6	2 6	90	
Court-house ventilators	2	4 0	1 6	3 0	36	
Record-room windows	7	2 3	1 6	2 9	65	
Turret void	1	28 3	Arca.	26 0	735	
Open work	2	6 0	1 6	4 0	72	
						2,150
					C. feet.	14,787
<i>Filling in basement.</i>						
Court-house	1	44 0	18 0	2 0	1,584	
Do.	1	17 2	10 0	2 0	343	
Clerks' rooms	1	35 0	18 0	2 0	1,260	
Sheristadar, Cashier and Public	1	47 0	15 0	2 0	1,410	
Inspector and Police.	1	15 6	18 0	2 0	558	
Covered way	1	29 4	14 3	2 0	833	
Jail	1	48 0	15 0	2 0	1,440	
Verandahs	1	250 0	5 8	2 0	2,833	
					C. feet.	10,261
<i>Out-stone (if procurable at reasonable rates).</i>						
Capping to plinth... ..	1	576 0	0 10	0 6	240	
Steps	8	45 6	1 3	0 6	228	
Do.	1	55 0	1 3	0 6	34	
					C. feet.	502

N.B.—Half the quantity of void is deducted, the other half covering the cost of centring and archwork.

Proceedings of the Madras Government, Public Works Department,
13th July 1875.

Detailed Quantities.—(Continued.)

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Teak-wood—Court-house, etc.</i>						
		FT. IN.	FT. IN.	FT. IN.	C. FT.	
Two Trusses, 18 feet span. { Tie-beams	2	21 0	0 4	0 8	9	
{ Principal rafters	4	11 3	0 4	0 6	8	
{ Struts	4	5 6	0 3	0 4	2	
{ Purlins	2	64 0	0 7	0 8	50	
{ Do. wall	2	64 0	0 4	0 4	14	
{ Purlin supports	10	1 0	1 0	0 6	5	
{ Ridge	1	64 0	0 3	0 10½	14	
{ Verandah wall plates	2	21 0	0 3	0 3	3	
{ Common rafters	86	13 6	0 3	0 4	97	
<i>Clerks' rooms.</i>						
One Truss, 18 feet span. { Tie-beam	1	21 0	0 4	0 8	5	
{ Principal rafters	2	11 3	0 4	0 6	4	
{ Struts	2	5 6	0 3	0 4	1	
{ Purlins	2	44 0	0 7	0 8	34	
{ Do. wall	2	39 6	0 4	0 4	9	
{ Purlin supports	6	1 0	1 0	0 6	3	
{ Ridge	1	48 6	0 3	0 10½	11	
{ Common rafters	50	13 6	0 3	0 4	56	
{ Small rafters	10	6 9	0 3	0 4	6	
{ Hip do.	2	15 0	0 4	0 5	4	
<i>Sheristadar and Cashier.</i>						
Beams	1	34 0	0 9	1 0	26	
Joists	24	29 0	0 3	0 5	50	
Verandah wall plates	1	31 3	0 3	0 3	2	
<i>Record room.</i>						
Two Trusses, 18 feet span. { Tie-beams	2	21 0	0 4	0 8	9	
{ Principal rafters	4	11 3	0 4	0 6	8	
{ Struts	4	5 6	0 3	0 4	2	
{ Principal hip rafters.	4	15 0	0 6	0 6	15	
{ Purlins	2	23 0	0 7	0 8	18	
{ Do.	2	10 0	0 7	0 8	8	
{ Do. wall	2	34 0	0 4	0 4	8	
{ Do. do.	2	20 0	0 4	0 4	4	
{ Do. supports	8	1 0	1 0	0 6	4	
{ Ridge	1	13 6	0 3	0 10½	3	
{ Common rafters	24	14 6	0 3	0 4	29	
{ Small do.	56	7 3	0 3	0 4	34	
{ Hip do.	4	17 0	0 4	0 5	9	
{ Wall plate	1	104 0	0 5	0 4	14	
<i>Public.</i>						
Purlins	2	13 0	0 6	0 7	11	
Do. wall	2	13 0	0 4	0 4	4	
Rafts	24	12 6	0 3	0 4	25	
Ridge	1	18 0	0 3	0 6	3	
<i>Inspectors and Police.</i>						
Purlins	2	19 9	0 6	0 7	12	
Do. wall	2	19 9	0 4	0 4	4	
Rafts	26	17 0	0 3	0 4	37	
Ridge	1	19 9	0 3	0 6	2	
Struts	26	2 6	0 3	0 3	4	
Uprights (double)	52	4 0	0 4	0 2	12	

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Detailed Quantities.—(Continued.)

Description of Work.				No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Covered way.</i>					FT. IN.	FT. IN.	FT. IN.	C. FT.	
Two Trusses, 15 feet span.	Posts	...	...	4	0 6	0 6	11 9	12	
	Cheek pieces	...	...	8	0 4	0 6	2 3	3	
	Struts	...	...	4	4 6	0 3	0 4	2	
	Tie-beams	...	...	2	18 0	0 4	0 6	6	
	Principal rafters	...	...	4	9 9	0 4	0 5	5	
	Struts	...	...	4	4 9	0 3	0 3	1	
	Ends of principal rafters	...	...	8	7 0	0 11	0 5	3	
	Cleats	...	...	4	0 7	0 4	0 5	1	
	Purlins	...	...	4	33 0	0 5	0 6	28	
	Do.	...	...	2	37 0	0 5	0 6	15	
	Ridge	...	...	1	41 0	0 3	0 9	8	
	Common rafters	...	...	42	15 6	0 3	0 4	54	
	Small do.	...	...	10	7 9	0 3	0 4	6	
	Hip do.	...	...	2	12 6	0 4	0 5	4	
<i>Jail.</i>									
Two trusses, 15 feet span.	Tie-beams	...	...	2	18 0	0 4	0 6	6	
	Principal rafters	...	...	4	9 9	0 4	0 5	5	
	Struts	...	...	4	4 9	0 3	0 3	1	
	Principal hip rafters.	...	...	4	11 6	0 6	0 6	12	
	Purlins	...	...	2	46 0	0 5	0 6	19	
	Do.	...	...	2	9 0	0 5	0 6	4	
	Do. wall	...	...	2	54 9	0 4	0 4	12	
	Do. "	...	...	2	18 0	0 4	0 4	4	
	Ridge	...	...	1	36 0	0 3	0 9	7	
	Common rafters	...	...	52	15 6	0 3	0 4	67	
	Small do.	...	...	40	7 9	0 3	0 4	26	
	Hip do.	...	...	4	17 6	0 4	0 5	10	
	Struts	...	...	86	3 3	0 3	0 3	17	
	Uprights (double)	...	...	172	4 2	0 4	0 2	40	
Wall plates	...	...	2	40 0	0 5	0 4	11		
<i>Turret.</i>									
Wall plates	...	...	8	2 9	0 6	0 5	5		
Uprights	...	...	8	1 0	0 6	0 0	24		
Breastsummers	...	...	8	2 9	0 6	0 6	6		
Brackets	...	...	16	0 7	0 7	0 6	3		
Venetians	...	...	48	1 0	1 0	0 1	11		
Horizontal pieces	...	...	8	4 0	0 4	0 6	5		
Central boss	...	...	1	1 0	1 0	0 7	1		
Angle rafters	...	...	8	0 3	0 4	11 6	8		
Piece under finial	...	...	1	1 4	1 4	2 9	5		
Planks	...	...	22	1 6	0 9	0 3	12		
Plate under plank- ing	...	...	8	3 6	0 2	0 4	2		
Roll caps	...	...	8	11 3	0 3	0 3	6		
<i>Ferandah.</i>									
Posts	...	...	36	0 5	0 5	8 3	52		
Breastsummers	...	...	1	270 0	0 5	0 5	47		
Rafters	...	...	185	11 0	0 3	0 4	170		
Uprights (small)	...	...	185	0 5	0 5	1 0	32		

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Detailed Quantities.—(Continued.)

Detailed Quantities. (Continued.)						
Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Verandah.—(Concluded.)</i>						
		FT. IN.	FT. IN.	FT. IN.	C. FT.	
Side pieces...	370	1 3	0 2	0 1½	10	
Hip rafters...	6	12 6	0 3	0 5	8	
Eaves board through-out...	1	680 0	0 ¾	0 5	18	
Barge board, Court-house gables...	4	13 6	0 1	0 9	3	
					1,509	
<i>Wrought Iron in trusses, etc.</i>						
1" Kin rods for 18 feet trusses...	5	8 0	= 40	× 2.62	104.80	
¾" Do. for 15 " " "	4	7 0	= 28	× 1.48	41.44	
1½" × ¾" Flat iron straps for 18 feet trusses...	10	3 0	= 30	× 1.87	56.10	
Do do for 15 feet do.	8	2 6	= 20	× 1.87	37.40	
1½" × ½" Bearing plates for trusses...	18	0 7	= 10½	× 2.92	30.66	
3" × 3" × ½" Washers for trusses...	27	.....	.....	× 0.32	8.64	
1" Hex nuts and head for 18 feet trusses.	5	.....	.....	× 1.65	8.25	
¾" Do. do. for 15 do. do.	4	.....	.....	× 0.65	2.60	
1" Do. do. for straps...	36	.....	.....	× 0.06	2.16	
1" Bolt for holding down turret wall plate...	8	5 0	= 40	× 2.62	104.80	
¾" Plates 9" × 9" for do.	8	.....	.....	× 3.75	30.00	
1" Hex nut and head for do.	8	.....	.....	× 1.10	8.80	
1" Hex nut and head for do.	8	1 3	= 10	× 0.65	6.50	
1" Bolts for securing covered way posts.	8	.....	.....	× 0.12	0.96	
1" Hex nut and head for do.	12	0 8	= 8	× 0.16	1.28	
1" Bolts for securing covered way rafters.	12	.....	.....	× 0.02	0.24	
1" Hex nut and head for do.				lbs.	444.63	
<i>Stone under trusses</i> ...	18 in No.					
<i>Doors venetian and panel</i> ...	28	4 0	.....	8 0	896	Supl. ft.
<i>Doors with iron bars for Treasury</i> ...	3	4 0	.....	8 0	96	Supl. ft.
<i>Panel door for record room...</i> ...	1	3 0	.....	7 0	21	Supl. ft.
<i>Iron doors with wooden frames and shutters for jail</i> ...	6	4 0	.....	8 0	192	Supl. ft.
<i>Windows with iron bars for record room</i> ...	7	2 3	.....	4 6	71	
..... Cir. portions ..	8½	4 0	Area.	.....	34	
					105	Supl. ft.
<i>Jail ventilators with iron bars</i> ...	6	4 0	.....	2 6	60	Supl. ft.
<i>Venetian Ventilators.</i> ...	2	4 0	.....	3 0	24	Supl. ft.
<i>In Court-house gables</i> ...	2	6 0	.....	8 0	96	Supl. ft.
<i>Open work with 12" square tiles.</i> ...	2	6 0	.....	8 0	96	Supl. ft.
<i>(Vide details of open work)</i> ..	1	15 0	.....	.....	15	Lin. ft.
<i>Iron railing 10 feet high for Treasury</i> ...	1	15 0	.....	.....	15	Lin. ft.
<i>Painting with Oak color.</i>						
<i>Doors, panel portion</i> ...	2	28	4 0	.....	2 8	597
<i>Do. venetians</i> ...	3	28	4 0	.....	5 4	1,792
<i>Do. for record room</i> ...	2	1	3 0	.....	7 0	42
<i>Do. for jail</i> ...	4	6	4 0		8 0	768
<i>Windows for record room</i> ...	3	7	2 3		4 6	213
<i>Do. do. circles</i> ...	2	8½	4 0	Area.		68

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Detailed Quantities.—(Continued.)

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Painting with Oak color.—(Concl'd.)</i>		FT. IN.	FT. IN.	FT. IN.	C. FT.	
Ventilators for jail 2	6	4 0	.....	2 6	120	
Do. for court-house 3	2	4 0	.....	3 0	72	
Covered way posts	4	2 0	.....	11 6	92	
Do. struts	4	4 6	.....	1 2	21	
Verandah posts	36	1 8	.....	8 0	480	
Do. breastsummers	1	270 0	.....	1 3	338	
Inspectors' room struts	26	2 6	.....	1 0	65	
Do. uprights	52	4 0	.....	0 10	173	
Jail struts	86	3 3	.....	1 0	280	
Do. uprights	172	4 2	.....	0 10	597	
Woodwork in turret	1	20 0	.....	12 0	240	
Do. do.	8	2 9	.....	1 4	29	
Do. do.	8	3 0	.....	6 0	144	
Do. do.	8	2 9	.....	2 0	44	
Do. do.	16	0 7	.....	2 0	19	
Eaves board throughout	48	1 9	.....	3 0	252	
Barge board, ends of court-house	1	680 0	.....	0 6	340	
	4	13 6	.....	0 10	45	
				Supl. ft.	6,831	
				Squares.		68½
<i>Pointing exterior walls.</i>						
Court-house and clerks' rooms	1	214 0	.....	11 6	2,461	
Do. gables	2	21 0	.....	3 9	158	
Turret	1	14 6	.....	28 0	406	
Sheristadar and Cashier	1	43 3	.....	12 0	519	
Record room	1	103 0	.....	11 6	1,185	
Public	1	45 0	.....	12 0	540	
Gable	1	18 0	.....	3 0	54	
Inspector's room	1	57 6	.....	10 3	589	
Gable	1	21 0	.....	3 9	79	
Jail	1	145 6	.....	11 6	1,673	
Gable	1	16 0	.....	3 0	48	
Basement throughout	1	577 0	.....	2 0	1,154	
				Supl. ft.	8,866	
				Squares.		88½
<i>Plastering interior and washing.</i>						
Court-house	1	214 4	.....	11 6	2,465	
Do. gables	6	18 0	.....	3 6	378	
Do. partition	2	10 0	.....	17 0	340	
Clerks' rooms	1	142 0	.....	11 6	1,633	
Do.	4	18 0	.....	3 6	252	
Record room	1	98 6	.....	11 6	1,133	
Sheristadar and Cashier	1	130 0	.....	11 6	1,495	
Public	1	54 0	.....	12 0	648	
Do. gables	2	15 0	.....	3 0	90	
Inspector and Police	1	103 0	.....	10 3	1,056	
Do. gables	4	18 0		3 6	252	
Jail	1	216 0		11 6	2,484	
Do. gables	6	15 0		3 0	270	
				Supl. ft.	12,496	
				Squares.		125

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Detailed Quantities.—(Continued.)

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Terracing.</i>		FT. IN.	FT. IN.	FT. IN.	C. FT.	
Sheristadar and Cashier	1	32 0	.....	18 0	576	
					Squares.	5½
<i>Tiling with Flat Tiles underneath, including reepers, nails, etc.</i>						
Court-house	1	64 0	.....	26 0	1,664	
Clerks' rooms	1	43 0	.....	26 0	1,118	
Record room	1	37 3	.....	29 0	1,080	
Public	1	16 6	.....	25 0	413	
Police Inspectors and covered way	1	54 0	.....	33 0	1,782	
Jail	1	62 9	.....	33 0	2,071	
Verandahs	1	256 0	.....	9 6	2,432	
				Supl. ft.	10,560	
				Squares.		105½
<i>Flooring with square pavement tiles.</i>						
Court-house	1	54 0	.....	18 0	972	
Clerks' rooms	1	35 0	.....	18 0	630	
Sheristadar and Cashier	1	30 0	.....	17 6	525	
Public	1	15 0	.....	12 0	180	
Inspector and Police	1	15 6	.....	18 0	279	
Covered way	1	30 0	.....	14 8	440	
Verandahs	1	252 3	.....	5 8	1,429	
Archways	1	12 0	.....	1 6	18	
Do.	6	5 0	.....	1 6	45	
Doorways	4	4 0	.....	1 9	28	
Do.	22	4 0	.....	1 6	132	
Do.	2	4 0	.....	1 3	10	
				Supl. ft.	4,688	
				Squares.		47
<i>Flooring with Asphalte.</i>						
Jail wards	1	48 0	.....	15 0	720	
Doorways	6	4 0	.....	1 6	36	
				Supl. ft.	756	
				Squares.		7½
<i>Cornice.</i>						
Court-house interior	2	54 0	.....	.....	108	
Clerks' rooms, do.	2	35 0	.....	.....	70	
Public do.	2	12 0	.....	.....	24	
Inspector and Police, do.	2	15 6	.....	.....	31	
Record-room, exterior and interior	1	209 0	.....	.....	209	
Turret, exterior	1	28 0	.....	.....	28	
					470	Lin. ft.
<i>Fixing Zinc sheets to the valleys—</i>						
Over Court-house	2	25 0			50	
Do. Jail	2	20 0			40	
					90	Lin. ft.

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Detailed Quantities.—(Concluded.)

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.	C. FT.	
<i>Metal gutter and flashing at spiral.</i>	...				10	Lin feet.
<i>Metal flashing over clerks' room</i>	...				40	Lin. feet.
<i>Exterior drain</i>	...					Lin. feet.
<i>Barge board and finial for entrance complete (vide details dated 8th April 1874)</i>	...					
<i>Wrought Iron finial for turret</i>	...					
<i>Spiral stairs</i>	...					

ABSTRACT.

Quantity.	Item.	Rate.	Per.	Amount.	Total.
		RS. A. P.		RS. A. P.	RS. A. P.
19,674 C. ft.	Excavation for foundations	...			
4,918½ "	Concrete	...			
9,823 "	Brickwork in foundations and base- ment	...			
14,787 "	Brickwork in superstructure	...			
10,264 "	Filling in basement	...			
502 "	Cutstone	...			
1,509 "	Teakwood	...			
444-63 lbs.	Wrought iron in trusses, etc.	...			
18 in No.	Stone under trusses	...			
896 Supl. feet.	Doors, venetian and panel	...			
96 "	Doors with iron bars for Treasury.	...			
21 "	Panel door	...			
192 "	Iron doors with wooden frames and shutters for jail	...			
105 "	Windows with iron bars for record room	...			
60 "	Ventilators with iron bars for jail...	...			
24 "	Venetian ventilators	...			
96 "	Open work with 12" square tiles	...			
15 Lin. feet.	Iron Railing 10 feet high for Treasury	...			
68½ Squares.	Painting with oak color	...			
88½ "	Pointing exterior walls...	...			
125 "	Plastering and washing interior	...			
5½ "	Terracing	...			
105½ "	Tiling roof	...			
47 "	Flooring with pavement tiles	...			
7½ "	Flooring with asphalte	...			
470 Lin. feet.	Cornice	...			
90 "	Fixing zinc to the valleys	...			
10 "	Metal gutter and flushing at spiral.	...			
40 "	Metal flashing	...			
"	Exterior drain	...			
1 No.	Barge board and finial for entrance complete	...			
1 "	Wrought iron finial for turret	...			
1 "	Spiral stairs	...			
	Contingencies at per cent.	...			
	Total...				

(Signed) **R. F. CHISHOLM,**
Consulting Architect

21st December 1874.

*Proceedings of the Madras Government, Public Works Department,
13th July 1875.*

No. 355. ORDER THEREON, 13th July 1875, No. 1,986.

CIVIL WORKS, No. 25.

ORDERED that the accompanying revised standard Specification and Estimate for the construction of a Taluq

Cutcherry be circulated for the guidance of Superintending and District Engineers,
(True Extract.)

Major, B.E.,
Offg. Joint Secretary to Government.

To all Superintending and District Engineers.
To the Executive Engineer, Wynaad.
" Controller of Public Works Accounts.
" Consulting Architect to Government.
" Revenue Departments.
" Judicial do.

Exl. A. Grubert.
Spare Copies

1911
 13th July 1875
 13th July 1875

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Specification of works to be performed in constructing a first class Fishing Cutcherry and Subsidiary, etc.

This specification refers to the Standard design represented in Drawings Nos. 1 and 2, dated the 17th February 1874.

Excavation.

After the centre lines of the walls have been pegged out and the breadths of the foundations laid out, excavate the trenches to the full depths shown on the drawing, or to such other depths as the officer in charge of the work may direct.

Concrete.

On receipt of a written order from the officer in charge of the work, to the effect that the foundations have been sufficiently sunk, proceed to lay 12 inches of concrete. Each layer. The concrete will be laid in two layers, 6 inches thick, well rammed with heavy beaters, and the second layer will not be added to the first, until the latter is thoroughly consolidated.

Brickwork.

On the completion of the concrete, the centre lines will be carefully laid out and the footing course commenced. The footing courses will be in steps 6 inches high with 3 or 4 inch offsets on either side, according to the drawing.

Walling. The walling will consist of brickwork in Chumane two bricks thick, (about 18 inches).

Openings. All openings will have a splag or edge, measuring 3 inches on the face of the wall.

Examined and checked
 Charles J. B. B. B.

1911
 13th July 1875
 13th July 1875

Arching. All arches will be turned in four concentric rings of brick on edge.

Stonework

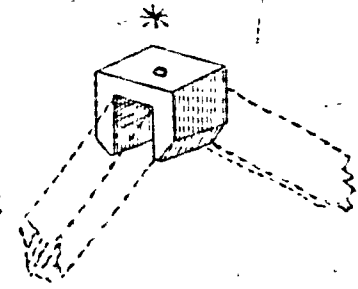
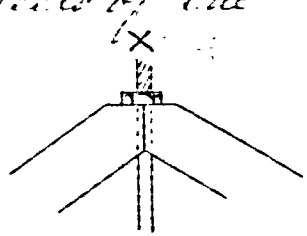
In localities where stone is cheap, a stone curbing should run all round the edge of the verandah and top of the plinth, and stone slabs should be placed under the wooden posts and trusses. It would be advisable also to construct the spiral of stone steps.

Teakwood

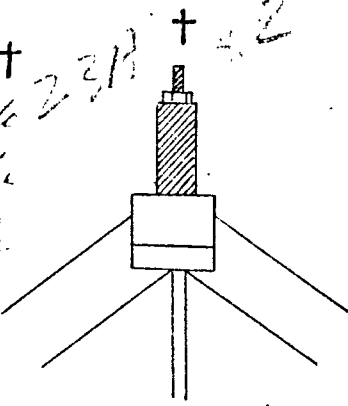
The teakwood trusses, rafters, verandah supports &c. will be executed in strict accordance with the details shown on the drawing dated April 1872.

(Note. Extra scantlings have been allowed in the quantities for the principal rafters and common rafters.)

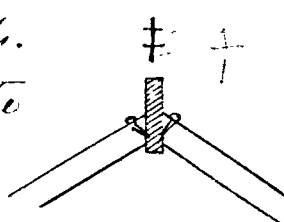
In framing the trusses, the heads of the rafters will be let into the tie beam and strapped down tight, and the heads allowed to butt simply. Over the head a chock hollowed out so as to cover the joints will be placed and secured by the girders and struts having been cut to admit of the camber. Run a rope round and twist up the tie beam to the required camber, and screw down the girders with on the king rod. The lower ends of the struts will butt simply against the tie beam and be held in their places by round pieces of wood. The upper ends will be lapped into the rafters. When the trusses are finished, put on the ridge over the king rods heads and screw



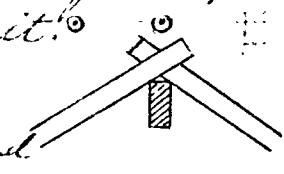
screw the second nut down tight. Have the purlins and rafters each to the extent of one inch. Support the purlin over the wall between the trusses.



Rafters. Notch the rafters into the purlins, but on no account cut the purlins themselves, as the full section is required for the roof. Set every rafter project 3 feet 9 inches beyond the purlin over the wall - Where verandahs are shown, the rafters will run out over the wall purlins supported by the posts. Bring each rafter up against the ridge and spike it as shown in the drawing.

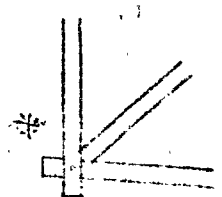
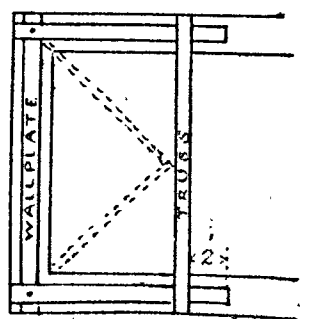
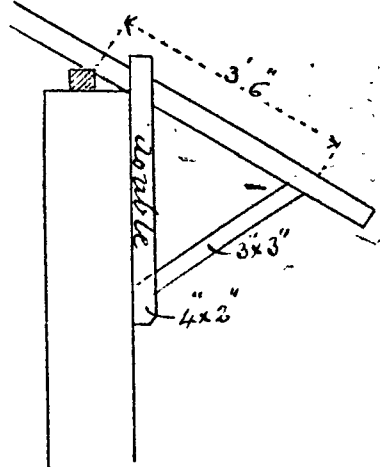


(Note. It is customary to make the ridge support the rafters by crossing them above it. This is unnecessary if the rafters are properly lashed into the principal purlin, the ridge can only stay their ends; it cannot support them.)



In the Sails, strut every rafter from the wall. The details of this arrangement is shown on the drawing.

Wallplates. When a truss ends a roof at a distance from the wall about equal to half the span as in the Record room and mens ward, a wall plate should run all along the wall to the angle immediately under the truss. The lower ends of the principal hip rafters will butt against the angle and



by these plates, and the upper ends, will be fastened under the ridge pole. It is not necessary to strut these rafters, as the scantling 6"x6" is sufficient without the intermediate support.

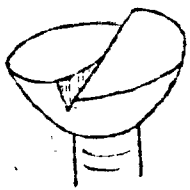
The hip rafter at the spiral angle, will be bedded in the masonry of the spiral above the level of the wall plate, so as to preserve the same angle of roofing.

Ironwork

Iron gratings. Provide and fix with the screws specified hereafter etc. — gratings of the forms and dimensions shown in the drawings.

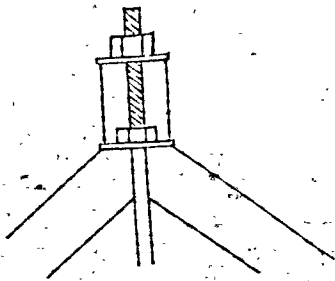
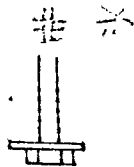
Iron doors. Provide and fix etc. — doors of the forms and dimensions shown in the drawings.

Screws. Fasten to frames, with non-reversible screws. These screws must be specially made. They have large heads filed, so that they can only be screwed in, and not out.



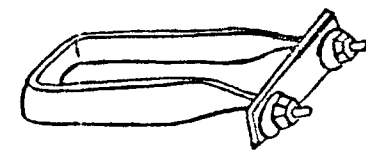
Tie-rods. Supply to carpenter etc. — tie-rods of the forms and dimensions shown, lower end to have octagonal head and 3 inches by one-eighth inch washers.

The upper end also inches of worm and double nuts and washers.



Strap

Straps. Supply to carpenter etc. — Straps for braces formed of one and a half inches by three-eighths inch iron forged to a half inch square at ends, bearing plate one and three-quarters by half inch, with nuts and washers.



Spikes, nails and screws. Supply to the carpenter, all necessary spikes, screws, nails and laths.

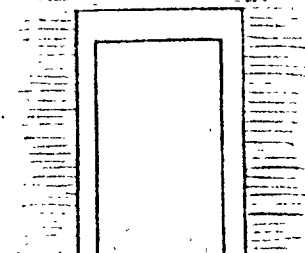
Bolts. Supply etc. — upper bolts inches long, and etc. — lower bolts inches long, etc. — hinges six inches long, four to each folding door, and etc. — elbow hinges, etc. — pin locks — inches by inches. (Here specify any special fastenings for shut.)

Note. If the building is on the coast all door furniture should be of brass.

Plastering

One coat of rough cast. Viny with hand float, one coat of rough cast over the whole of the interior, and bring to a smooth and level surface.

Whitewash. Whitewash all interior panelling and coffers, — nine inches in breadth at sides and twelve at tops of all openings. Colour wash all remaining portions.



The following proportions make good lime for this work.

White wash
40 white
1 Yellow

Colored wash
30 white
1 Yellow
 $\frac{1}{2}$ Red
 $\frac{1}{8}$ Black

Pointing

Take out the exterior joints of all masonry-work, to the depth of half an inch; well wash the surface and point with fresh pointing. The mortar should be toned to the colour of the brick by the addition of red ochre.

Roofing

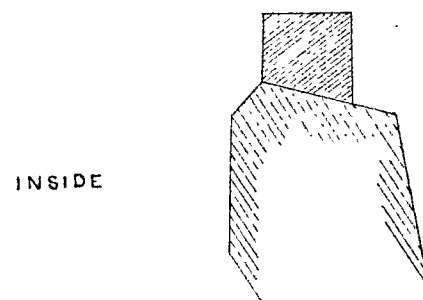
Leading. After the whole of the carpentry of the roof has been completed, lay ^{in the valleys} eight ^{inch} broad leading (or give if sheet lead is not procurable) 8 lbs to the foot superficial, with a lap of nine inches when joined.

Tiling. Cover the roof with weathered tiles laid in the usual manner, and protect the ridges and hips in this of course made in the purpose.

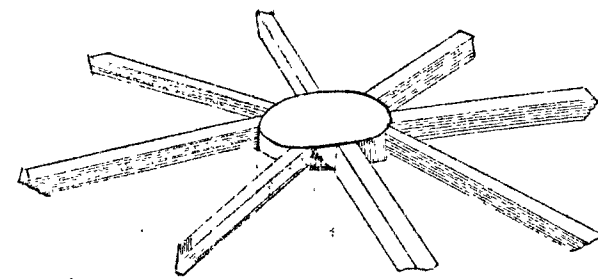
Chimney bands. Protect the ridges, hips and eaves with chimney bands, ^{edge} rough ^{and} on the surface, and lay bands on the tiling inches broad and inches apart.

Roof of spiral. The curb of wood on which the spiral rests must be bolted down by eight bolts as shown in the drawing. Care must be taken to cut the underside of the

the curb so as to prevent the water from getting in between the wood and the masonry.

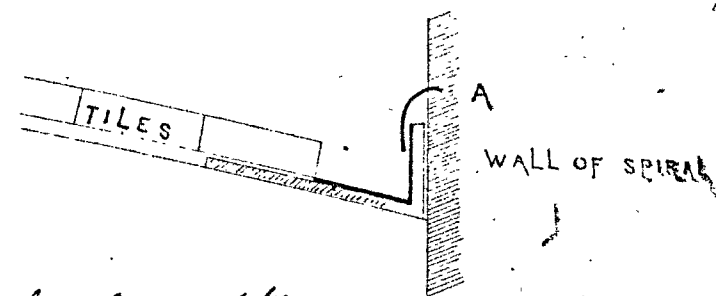


After the upright and top pieces have been tenoned into the curb, eight horizontal pieces tenoned into a central boss will be spiked on the top.



From the ends of these rise the eight angle pieces forming the spiral. A piece 3" x 1/2" wide receive the lower weather board, after which the boards will overlap each other to the extent of 2 inches. A neatly cut roll, notched to fit the weather boarding on the underside and rounded on top will run up the outer angles.

Flashing at spiral. Where the roof meets the spiral great care must be taken to make it watertight. Under the tiles must be placed a metal gutter 9 inches broad and 6 inches high neatly fastened to 3/4 inch boarding.



About 1 inch above the gutter, metal flashing must be placed in a chiselled groove in the

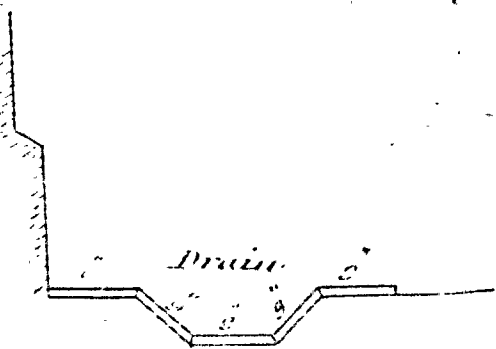
the masonry and turned down into the gutter.

Flooring

After the masons have brought the surface up ready to receive the floor tiles, lay ^{an} even floor of nine inches square tiles set diagonally. The tiles will be rubbed on the surface and gauged to fit each other.

Exterior Drain.

All round the exterior build a drain of flat nine-inch tiles as sketched in the margin, varying the section of the drain according to the slope of the ground.



General Remarks.

The finial for the turret can be supplied by the Consulting Architect to Govt: each finial costs Rs. 200 in Madras.

The height of the ridge on the East side of the Record room will be 18 ft 3 ins. throughout, and the eaves 8 ft 6 ins. The height of the walls will vary so as to secure these dimensions. The height of the ridge and the eaves on the Court house side of the Record room will be respectively 19 ft 6 ins and 7 ft 6 ins.

Where the roofs butt against the walls of the Record room, lead flashing should be employed as specified for the turret.

Steps

Steps may be added on either side of the Covered way with advantage.

R. C. C. C.

Consulting Architect

Office of Consulting Architect to Govt.
21st December 1876.

Estimate for constructing a Salug Lutcherry and
 Subsidiary jail, as per drawings Nos. 1 and 2, dated
 17th February 1874.

Detailed Quantities

Detailed statement		No	Length		Breadth	Depth		Contents	Total
Description of work.			ft	in		ft	in			ft	in
<u>Excavation for foundations</u>			ft	in	ft	in	ft	in	ft
Court house &c	Outer walls	1	156.0	5.0	4.0	3	1	20	
	partitions	2	14.6	5.0	4.0	5	8	0	
	Verandah walls	1	6.6	3.10	4.0	1	0	0	
	steps	3	11.0	4.0	1.6	1	9	2	
	front wall	1	29.0	5.0	4.0	5	8	0	
	rear wall	1	38.0	5.0	4.0	7	6	0	
	partition wall	1	14.6	5.0	4.0	2	9	0	
	end wall	1	13.3	5.0	4.0	2	6	5	
Clerks' rooms	front verandah	1	22.9	3.10	4.0	3	1	4	
	back	1	30.0	3.10	4.0	1	6	0	
	Steps	2	11.0	4.0	1.6	1	3	2	
Turret		1	12.0	12.0	6.0	8	6	4	
Sheristadar and Cashier	front wall	1	24.9	5.3	4.0	5	2	0	
	rear wall	1	27.9	5.3	4.0	5	2	3	
	partition	1	14.0	4.9	4.0	2	6	6	
	end wall	1	27.0	5.0	4.0	5	4	0	
	back verandah	1	34.4	3.10	4.0	5	3	5	
	steps	1	11.0	4.0	1.6	6	6		
Public	front and ends	1	38.6	5.0	4.0	7	7	0	
	steps	1	18.0	3.0	1.6	8	1		
Inspector and Police	front, rear and end	1	51.0	5.0	4.0	1	0	2	
	partition	1	14.6	4.9	4.0	2	7	6	

Carried over Cub. ft. 15,089

Brought forward Cub ft 15,989

Covered way	walls	2	26.64.94.0	1007
	Steps front & rear	2	11.04.01.6	152
Jail	outer walls	1	139.65.04.0	2790
	partitions	3	11.64.94.0	656

Cub. ft. 19,674

Cub. Yds. 729

Concrete 12" thick

Excavation: 14 = Cub. Yds. 1824

Brickwork in foundations & basement

Footings

Court house	outer walls	1	156.02.101.6	663
	partitions	2	16.82.101.6	142
	do	1	8.81.101.6	24
--	Verandah	1	178.41.101.6	1490
	front wall	1	31.22.101.6	132
	rear wall	1	38.02.101.6	162
Clerks' rooms	partitions	1	16.82.101.6	71
	end wall	1	15.82.101.6	67
	front verandah	1	56.01.101.6	72
Turret	back verandah	1	33.01.101.6	91
	do	1	9.109.101.6	145

Sheriff and Cashier	front wall	1	27.33.11.6	126
	rear wall	1	29.113.11.6	138
	partitions	1	16.22.71.6	63
	end wall	1	23.62.101.6	100
Public	back verandah	1	37.91.101.6	104
	front and ends	1	40.82.101.6	173

Inspector and Police	front, rear & end	1	53.22.101.6	226
	partitions	1	16.82.71.6	65

Covered way	front & rear walls	2	28.82.71.6	222
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Jail	outer walls	1	139.62.101.6	593
	partitions	3	13.82.71.6	159

Carried over Cub. ft 14,028

Brought forward Cub ft 14,028

Above footings to floor level

Covered way	outer walls	1	156.01.63.6	819
	partitions	2	18.01.63.6	189
	do	1	10.00.103.6	29
Verandah	Verandah walls	1	178.40.103.6	520
	Steps	3	11.04.01.72	215
	do	3	7.02.01.6	63
Rooms	do	1	32.61.63.6	171
	front wall	1	38.01.63.6	200
	rear wall	1	18.01.63.6	95
do	partitions	1	16.102.1.63.6	89
	end wall	1	28.60.103.6	83
	front verandah	1	33.60.103.6	98
do	back verandah	2	11.04.01.72	143
	Steps	2	7.07.01.6	112
	do	1	17.91.93.6	109
do	front wall	1	11.42.13.6	83
	do	1	31.31.93.6	191
	rear wall	1	17.61.33.6	77
do	partitions	1	21.61.63.6	113
	end wall	1	38.00.103.6	111
	back verandah	1	11.04.01.72	72
do	Steps	1	7.02.01.6	21
	do	1	9.29.25.0	420
	do	1	1201.103.6	270
do	front and ends	1	18.03.01.72	88
	Steps	1	15.01.61.0	23
	do	1	54.61.103.6	350
do	front, rear and end	1	18.01.33.6	79
	partitions	2	29.41.33.6	257
	walls	2	11.04.01.72	143
do	Steps	2	7.02.01.6	142
	do	1	139.61.103.6	895
	outer walls	3	15.01.33.6	197
do	partitions			

Cub. ft 10,325

502

Braced Cut Stone

Cub. ft 9823

Cub. Yds 364

Brickwork in Superstructure

Court house	Outer walls	1	10.0	1.6	11.6	1.691
	partitions	2	13.0	1.6	11.6	6.21
	do	1	10.0	0.10	17.6	10.6
	gables	4	21.0	1.6	3.9	4.72
Clerk's rooms	front wall	1	32.6	1.6	11.6	5.61
	rear wall	1	35.0	1.6	11.6	6.56
	partition walls	1	18.0	1.6	11.6	3.11
	end wall	1	16.10	1.6	12.0	3.04
Turret	gables	2	21.0	1.6	3.9	2.36
	do	1	8.1	2.6	26.0	18.79
Sheristadon and Cashier	front wall	1	29.9	1.9	12.0	6.25
	rear wall	1	31.6	1.9	12.0	6.56
	partition walls	1	17.6	1.3	12.0	2.63
	end wall	1	21.9	1.6	12.0	3.92
Record room	upper story walls	1	27.0	1.6	11.6	1.673
Public	front and end	1	12.0	1.6	12.0	1.71
	gable	1	18.0	1.6	3.0	2.30
Inspector and Police	front rear and end	1	32.6	1.6	10.3	5.61
	partition	1	18.0	1.3	10.3	2.31
	gable	1	21.0	1.3	3.9	2.98
	do	1	21.0	1.6	3.9	1.12
Jail	Outer walls	1	139.6	1.6	11.6	2.406
	partitions	3	15.0	1.3	11.6	6.47
	gables	3	18.0	1.3	3.0	2.03
Reductions	do	1	16.0	1.6	3.0	4.72
	archway	1	12.0	1.6	11.6	3.1
do	do	6	5.0	1.6	5.0	2.25
	doorway	4	4.0	1.9	4.0	1.12
do	do	2	11.0	1.3	11.0	1.40
	do	28	4.0	1.6	4.0	6.72
Spiral door	do	2	2.9	1.3	3.3	1.22
Jail ventilator	do	2	2.9	1.3	3.3	1.22
Court house ventilator	do	6	4.0	1.6	2.6	3.65
Record room windows	do	7	2.3	1.6	2.9	5.61
Turret void	do	1	22.3	1.6	26.0	1.72
Open wall	do	2	6.0	1.6	11.6	1.72
Total						147.87
Cub. ft.						548

Filling in basement

Court house	1	44.0	1.0	2.0	1.84
do	1	17.2	1.0	2.0	3.43
Clerk's rooms	1	35.0	1.0	2.0	1.60
Sheristadon, Cashier + Public	1	17.0	1.5	2.0	1.410
Inspector + Police	1	15.6	1.5	2.0	5.58
Covered way	1	19.1	1.4	3.2	8.36
Jail	1	42.0	1.5	2.0	14.10
Grand stairs	1	22.0	0.5	8.2	2.833
Cub. ft.					10.264
Cub. yds.					3.80

Cost Stone (at procurable at reasonable rates)

Cupping to plinth	1	57.0	0.10	0.6	2.40
Steps	8	45.6	1.3	0.6	2.28
do	1	55.0	1.3	0.6	3.4
Cub. ft.					507

Teakwood

Court house

tie beams	2	21.0	0.4	0.8	9
principal rafters	4	11.3	0.4	0.6	8
struts	4	5.6	0.3	0.4	2
purlins	2	64.0	0.7	0.8	50
do wall	2	64.0	0.4	0.4	11
purlin supports	10	1.0	1.0	0.6	5
ridge	1	64.0	0.3	0.10	11
Grand stairs wall plates	2	21.0	0.3	0.3	3
Common rafters	86	13.6	0.3	0.4	97

Clerk's rooms

tie beams	1	21.0	0.4	0.8	5
principal rafters	2	11.3	0.4	0.6	4
struts	2	5.6	0.3	0.4	1
purlins	2	44.0	0.7	0.8	34
do wall	2	34.6	0.4	0.4	9
purlin supports	6	1.0	1.0	0.6	3
ridge	1	48.6	0.3	0.10	11
Common rafters	30	13.6	0.3	0.4	56
Small rafters	10	6.9	0.3	0.4	6
hip rafters	2	15.0	0.4	0.5	4

Carried over. Cub. ft. 335

N.B. Half the quantity of wood is deducted; the other half covering the cost of centring and archwork.

Brought forward Cub-ft 335

Shristadar & Shastri

Beams	1	32.00	9.10	26
posts	24	20.00	30.5	50
Verandah wall plates	1	31.30	30.3	2

Record room

2 Shastri & Shastri

beams	2	21.00	40.5	9
principal rafters	4	11.30	40.6	18
club	1	5.60	30.4	3
principal hip rafters	4	13.00	60.6	15
furlins	2	13.00	70.8	18
do	2	10.00	70.8	2
do - wall	2	32.00	40.4	8
do - do	2	20.00	40.4	16
do - supports	8	1.01	0.06	16
ridge	1	15.60	30.06	3
Common rafters	24	12.60	30.4	29
small rafters	56	7.30	30.4	34
hip rafters	4	17.00	40.5	9
wall plate	1	10.00	50.4	11

Public

furlins	2	13.00	60.7	11
do - wall	2	13.00	40.4	16
rafters	24	12.60	30.4	25
ridge	1	15.01	30.6	3

Inspectors & Police

furlins	2	14.90	60.7	12
do - wall	2	19.90	40.4	11
rafters	26	17.00	30.4	37
ridge	1	14.90	30.6	2
struts	16	2.60	30.3	14
uprights (double)	52	4.00	40.2	12

Covered way

posts	4	0.60	60.9	12
chuck pieces	8	0.40	62.3	3
struts	4	4.60	30.4	2
beams	2	12.00	40.6	6
principal rafters	4	9.90	40.5	5
club	1	4.90	20.5	1

Carried over Cub-ft 721

Brought forward Cub-ft 721

ends of principal rafters	8	7.00	0.12	0.5	3
club	1	0.70	0.40	0.5	1
furlins	4	33.00	0.50	0.6	25
do	2	37.00	0.50	0.6	15
ridge	1	41.00	0.30	0.9	8
common rafters	42	15.60	0.30	0.4	54
small rafters	10	7.90	0.30	0.4	6
hip rafters	2	12.60	0.40	0.5	16

Tail

2 Shastri & Shastri

beams	2	18.00	0.40	0.6	6
principal rafters	11	9.90	0.40	0.5	5
club	1	1.90	0.30	0.3	1
principal hip rafters	11	11.60	0.60	0.6	12
furlins	2	16.00	0.50	0.6	19
do	2	9.00	0.50	0.6	11
do - wall	2	54.90	0.40	0.4	12
do - do	2	18.00	0.40	0.4	4
do - do	1	36.00	0.30	0.9	7
ridge	22	15.60	0.30	0.4	67
common rafters	40	7.90	0.30	0.4	26
small rafters	4	17.60	0.40	0.5	10
hip rafters	86	3.30	0.30	0.3	17
struts	7	4.20	0.40	0.2	40
uprights (double)	2	40.00	0.50	0.4	11
wall plate	2	2.90	0.60	0.5	5

Turret

wall plates	8	1.00	0.60	0.6	24
uprights	8	2.90	0.60	0.6	6
bracket beams	16	0.70	0.70	0.6	3
brackets	48	1.60	1.90	0.1	11
ventilators	8	4.00	0.40	0.6	5
horizontal pieces	1	1.00	1.00	0.7	1
central boss	8	0.30	0.40	0.6	8
angle rafters	1	1.40	1.40	2.9	5
piece under finial	8/22	1.60	0.90	0.3	12
planks	8	3.60	0.30	0.4	2
plate under planking	8	11.30	0.30	0.3	6
roll cups	36	0.50	0.50	8.3	52

Verandah

posts	8	27.00	0.50	0.5	47
bracket beams	12	0.50	0.50	8.3	1268

Carried over Cub-ft 1268

Brought forward Cub. ft 12.68			
rafters	185	11.0	0.30.4 170
uprights (small)	185	0.5	0.51.0 32
side pieces	370	1.3	0.20.15 10
hip rafters	6	12.6	0.30.5 8
eaves board throughout	1	680.00	3/4 c. 5 15
large board, court house gables	11	13.6	0.10.9 3

Cub. ft 1509

Wrought Iron in trusses &c

1" King rods for 18 ft trusses	5	5.0	= 4.0 x 2.62 104.50
3/4" do for 15 ft do	4	7.0	= 28 x 1.45 41.40
1 1/2" x 3/8" flat iron straps for 18 ft trusses	10	3.0	= 30 x 1.87 56.10
do do for 15 ft do	8	2.6	= 25 x 1.87 37.60
1 3/4" x 1/2" bearing plates for trusses	18	0.7	= 10 1/2 x 2.92 30.66
3" x 3" x 5/8" washers for trusses	27		= 10.32 5.64
1" hex nuts and head for 18 ft trusses	5		= 1.65 8.25
3/4" do do for 15 ft do	4		= 1.65 2.60
1/2" do for straps	36		= 0.06 2.16
1" bolt for holding down horizontal plates	8	5.0	= 1.0 x 2.62 104.50
1" plates 9" x 9" for do	8		= 3.75 30.00
1" hex nut and head for do	8		= 1.10 8.80
1/2" bolts for securing covered way posts	8	1.3	= 10 x 0.55 6.50
1/2" hex nut and head for do	8		= 0.12 0.96
1/4" bolts for securing covered way rafters	12	0.8	= 8 x 0.75 1.25
1/4" hex nut and head for do	12		= 0.02 0.24

Etc, 1114.63

Stone under trusses	18	in. c. ft	
Doors, venetian and panel	28	11.0	8.0 896 Supl. ft
Panel door for Record room	1	3.0	7.0 21 Supl. ft
Iron doors with wooden frames and shutters for Jail	6	4.0	8.0 192 Supl. ft
Windows with Iron bars for Record room	7	2.3	4.6 71
circ. portions	8 1/2	1.0	ana 310
			195 Supl. ft
Jail Ventilators with Iron bars	6	4.0	2.6 60 Supl. ft

Venetian Ventilators

in Court house gables	2	4.0	3.0 21 Supl. ft
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Open work with 12" square tiles

(vide details of openwork)	2	6.0	8.0 96 Supl. ft
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Painting with oak colour.

Doors, panel portion	27/28	4.0	2.8 597
" " " " " "	3/28	4.0	5.4 1792
" " " " " "	2/1	3.0	7.0 42
" " " " " "	1/6	4.0	8.0 768
Windows for record room	3/7	2.3	4.6 213
" " " " " "	2/8 1/2	4.0	ana 68
ventilators for jail	2/6	4.0	2.6 120
" " " " " "	3/2	4.0	3.0 72
" " " " " "	11	2.0	11.6 92
Covered way posts	4	4.6	1.2 21
" " " " " "	36	1.8	8.0 480
Veranda posts	1	270.0	1.3 338
" " " " " "	26	2.6	1.0 65
Inspectors room studs	52	4.0	0.10 173
" " " " " "	56	3.3	1.0 280
Jail studs	172	4.2	0.10 597
" " " " " "	1	20.0	12.0 240
work in Jail	8	2.9	1.4 29
" " " " " "	8	3.0	6.0 144
" " " " " "	8	2.9	2.0 44
" " " " " "	16	0.7	2.0 19
" " " " " "	1.8	1.9	3.0 252
" " " " " "	1	680.0	0.6 340
Eaves board throughout	11	13.6	0.10 45
large board end of gables			

Supl. 6831

Squares 68 1/2

Painting exterior walls.

Court house & Clerk's rooms	1	211.0	11.6 2461
do " " " "	2	21.0	3.9 158
do " " " "	1	11.6	28.0 406
Turret	1	43.3	12.0 519
Storehouse and Coshier			

Carried over Supl. 3544

Brought forward Supl ft 3544

Record room	1	103.0	11.6	1155
Public	1	45.0	12.0	540
Gable	1	13.0	3.0	39
Inspector's room	1	57.6	10.3	589
Gable	1	21.0	3.4	79
Shed	1	145.6	11.6	1673
Gable	1	16.0	3.0	48
Basement throughout	1	577.0	2.0	1154

Supl ft 10866

Squares 58 1/2

Plastering interior and washing

Court house	1	214.4	11.6	2465
do gables	6	18.0	3.6	378
do partition	2	10.0	17.0	340
Clerks rooms	1	142.0	11.6	1633
do	14	12.0	3.6	252
Record room	1	98.6	11.6	1123
Sherridar and Cashier	1	150.0	11.6	1495
Public	1	51.0	12.0	618
do gables	2	13.0	3.0	90
Inspector and Police	1	103.0	11.3	1056
do gables	14	13.0	3.6	252
Shed	1	216.0	11.6	2484
do gables	6	15.0	3.0	270

Supl ft 12396

Squares 125

Veracing

Sherridar and Cashier	1	22.0	13.0	576
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Squares 5 3/4

Tiling with flat tiles underneath including roofers, nails 8 1/2

Court house	1	61.0	26.0	1664
Clerks' rooms	1	103.0	26.0	1118
Record room	1	37.3	29.0	1080
Public	1	16.6	25.0	116
Police, Inspector & covered way	1	56.0	33.0	1752
Shed	1	62.9	33.0	2071
Verandahs	1	256.0	9.6	2432

Supl ft 10560

Squares 106 1/2

Flooring with square pavement tiles

Court house	1	34.0	18.0	972
Clerks rooms	1	35.0	18.0	630
Sherridar & Cashier	1	30.0	17.6	525
Public	1	15.0	12.0	180
Inspector and Police	1	15.6	12.0	279
Covered way	1	30.0	14.8	440
Verandahs	1	252.3	5.8	1429
Archways	1	12.0	1.6	18
do	6	5.0	1.6	45
downways	14	4.0	1.9	28
do	22	1.0	1.6	132
do	2	1.0	1.3	10

Supl ft 14682

Squares 107

Flooring with Asphalt

Shed wards	1	15.0	15.0	720
Downways	6	4.0	1.6	36

Supl ft 756

Squares 7 1/2

Roofing

Court house interior	2	34.0		108
Clerks rooms do	2	35.0		70
Public do	2	12.0		24
Inspector and Police do	2	15.6		31
Record room exterior interior	1	59.0		209
Turret exterior	1	28.0		28

470 lin ft

Fixing zinc sheet to the valleys

over court house	2	25.0		50
over shed	2	26.0		40

90 lin ft

Metal gutter and flashing gut spouts

10 lin ft

Metal flashing over Clerks Room

40 lin ft

Exterior Drains

Lin: f.

Barge board and finial for
entrance complete (vide details
dated 8th April 1874)

Wrought Iron finial for tower

Spiral staircase

Abstract

Quantity	Item	Rate	Per	Amount	Total
729 Cub. yds	Excavation for foundations				
182 $\frac{1}{4}$ — "	Concrete				
364 — "	Brickwork in foundations				
512 — "	Brickwork in superstructure				
380 — "	Filling in basement				
502 Cub. ft	Cut Stone				
1509 — "	Sea wood				
444 lb 3 cts	Wrought Iron in trusses				
18 in. x 12 — "	Stone under trusses				
896 Supl. ft	Scoria, venetian and panel				
21 — "	Panel door				
192 — "	Iron doors with woodwork				
105 — "	Windows with iron bars for				
60 — "	Record room				
24 — "	Ventilators with iron bars for				
96 — "	Record room				
65 $\frac{1}{2}$ Square	Venetian ventilators				
88 $\frac{3}{4}$ — "	Openwork with 12 sq. ft.				
125 — "	Painting with oil				
5 $\frac{3}{4}$ — "	Painting exterior iron				
105 $\frac{3}{4}$ — "	Plastering & washing				
147 — "	Terracing				
7 $\frac{1}{2}$ — "	Tiling roof				
170 Cub. ft	Flooring with pavements				
70 — "	Flooring with asphalt				
10 — "	Cornic				
140 — "	Fixing zinc to the walls				
10 — "	Metal gutter and				
140 — "	flushing at spiral				
— "	Metal flushing				
— "	Exterior cornice				

Carried over P.S.

Brought forward *Rs.*

- 1 *1st* Barge board and finial—
for entrance cornice.
- 1 — " — Brought from finial—
for turret
- 1 — " — Spiral Stairs—

Rs.

Contingencies per cent —

Total *Rs.*

R. M. Wheeler -
Consulting Architect

Office of Consulting Architect to Govt.
21st December 1871

P. W. D.

Consulting Architects Office

Estimate

96-13th July 75 to 1986.

Standard Designs

Talug Cutcherry

21st December 1874.

P. W. 8044/74

Mr 687/75

No. 447

ARCHITECT'S OFFICE,

Chennai, 10 February 1875.

From

THE CONSULTING ARCHITECT TO GOVERNMENT,

To

THE Under Secretary to Government P.W.D.

I have the honor to return the Estimate
for the Talug Cutcherry duly corrected.
I have added the iron railing and doors
for the Treasury.

As the plan dated 17 February 1874
does not show these railings I beg to
enclose a revised sketch of that portion

I have the honor to be,

Your most Obedt. servant

Consulting Archt. to Govt.

