

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	642	(w)	Press
B.P. No.			Mis.
Dated	13.3		18.76.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
13th March 1876.*

Read the following papers :—

No. 162. Proceedings of the Madras Government in the Judicial Department,
dated 28th February 1876, No. 373.

From Captain ROSS THOMPSON, R.E., Officiating Consulting Architect to Govern-
ment, to Major-General G. W. WALKER, R.E., Secretary to Government,
Public Works Department, Fort St. George, dated Chepauk, 20th September
1875, No. 210.

In compliance with G.O., No. 2,093, dated 23rd July 1875, I have the honor to
submit the specification and estimate of quantities for the revised standard design for
second-class Taluq Cutcheries.

2. The drawing received with your memorandum, No. 507, dated 13th instant,
is herewith returned.

No. 313.

TRANSFERRED to the Revenue Department for final approval of plan.
(By Order.)

(Signed) A. DE C. SCOTT, Major, R.E.,
Under Secretary to Govt., P.W.D.

20th December 1875.

TRANSFERRED to the Judicial Department with reference to official memorandum
from that department, dated 20th August 1874, No. 245.

(Signed) D. F. CARMICHAEL,
FORT ST. GEORGE,
5th January 1876. Secy. to Govt., Rev. Dept.

No. 53.

REFERRED to the Board of Revenue for their opinion.

(Signed) W. HUDLESTON,
FORT ST. GEORGE,
13th January 1876. Chief Secretary.

Proceedings of the Board of Revenue, dated 18th February 1876 No. 1,505
(Miscellaneous).

READ endorsement of the Chief Secretary to Government, Judicial Department,
dated 13th January 1876, No. 53, referring to the Board for opinion letter
from Officiating Consulting Architect to Government, forwarding specification and
estimate of quantities for the revised standard design for second-class Taluq
Cutcheries.

THE plans are approved.
(True Extract.)

(Signed) C. A. GALTON,
Acting Secretary.

THE revised standard design for second-class Taluq Cutcheries is approved for
adoption.

(True Extract.)
(Signed) W. HUDLESTON,
Chief Secretary.

Proceedings of the Madras Government, Public Works Department,
13th March 1876.

SPECIFICATION of Works to be performed in constructing a second-class Taluq Cutcherry according to the revised drawing, dated 2nd July 1875.

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 foundation trenches have been sufficiently sunk, proceed to lay 12 inches of concrete, or such depth as may be considered necessary by the officer in charge.

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

Brickwork in Chumam.—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 outer walls will be two bricks thick (18 inches) and the partitions one-and-a-half bricks thick (13½ inches).

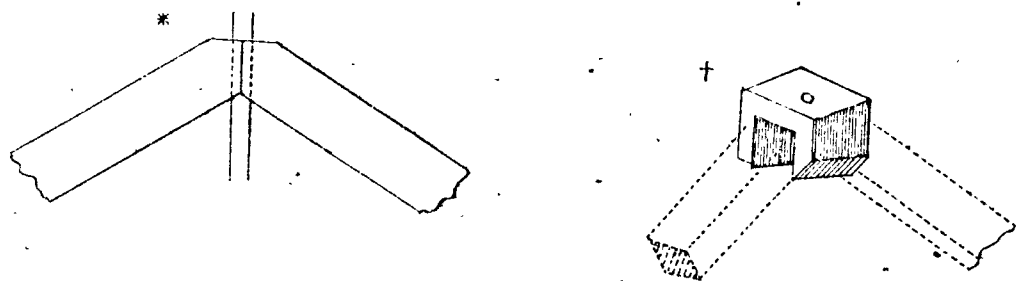
Splays.—All openings will have splayed edges measuring 3 inches on the face of the splay.

Arching.—The heads of all openings will have flat arches 18 inches thick. The bricks will radiate to a centre midway between the top and bottom of each opening.

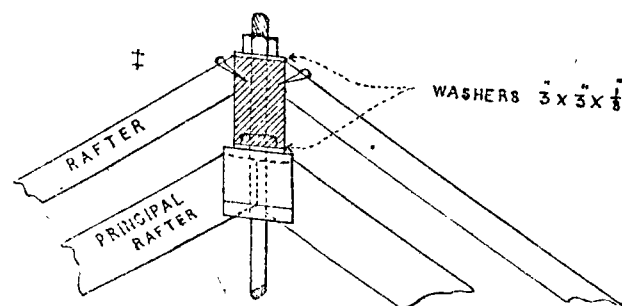
Stonework.—In localities where stone is cheap, a stone curbing should run all round the edge of the verandah and the top of the plinth, and stone slabs should be placed under the wooden posts and trusses.

Teakwood.—The teakwood trusses, rafters, verandah posts, &c., will be executed in strict accordance with the details shown on the drawing.

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 chock† hollowed out so as to



cover the joints will be fixed on and fastened by the first nut. (The struts having been cut 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 head, and screw the second nut down tight. Halve the purlins and rafters each

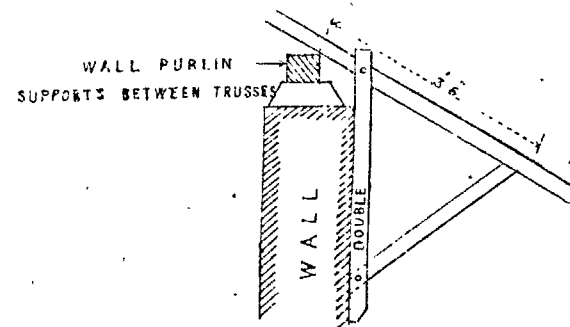


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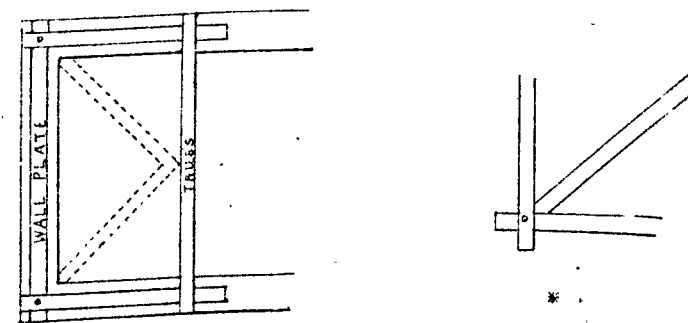
to the extent of 1 inch. Support the purlins over the walls between the trusses.

Rafters.—Notch the rafters into the purlins, but on no account cut the purlins themselves, as the full section is required for the roof. 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.†

In the jail, strut the rafters at a distance of 3 feet 6 inches from the wall purlin,



Wall-plates.—Where a truss ends a roof at a distance from the wall about equal to half the span as in the jail, 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* formed by these plates, and the upper ends will be fastened under the ridge.

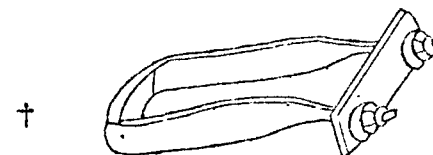


It is not necessary to strut these rafters, as the scantling 5 inches x 6 inches is sufficient without the intermediate support.

IRONWORK.

Tie-rods.—The tie-rods will be of the forms and dimensions shown, lower end to have octagonal head and 3 inches square by 1/4th inch washers. The upper end 9 inches of worm and double nuts and washers.

Straps.—The straps† for trusses will be formed of 1½ inches by 3/8th inch iron forged to a 1/2 inch screw at ends, bearing plate 1½ by 1/2 inch, with nuts and washers.



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Doors.—The doors will be one-third panel and two-thirds venetians. The panel to be raised and screwed instead of grooved and tongued, and the edges will be splayed and not moulded. Venetians to be of ordinary construction.

The jail doors will be formed with battens 6 inches wide and 1½ inches thick with wooden frames and iron shutters of the forms and dimensions shown on the plan of details for "first-class Taluq Cutcheries, dated April 1872."

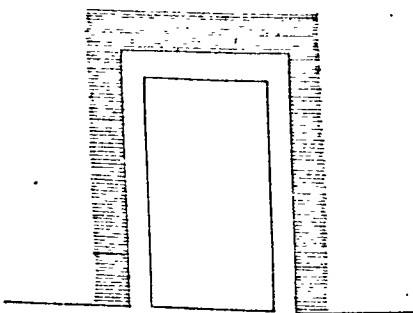
Painting.—All doors and windows and exposed woodwork of roof will be painted with three coats of "Carson's oak color."

PLASTERING.

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.

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



The following proportions make good tints for this work :—

White-wash ... $\left\{ \begin{array}{l} 40 \text{ white.} \\ 1 \text{ yellow.} \end{array} \right.$ Color-wash ... $\left\{ \begin{array}{l} 25 \text{ white.} \\ 1 \text{ yellow.} \\ \frac{1}{2} \text{ red.} \\ \frac{1}{4} \text{ black.} \end{array} \right.$

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.

ROOFING.

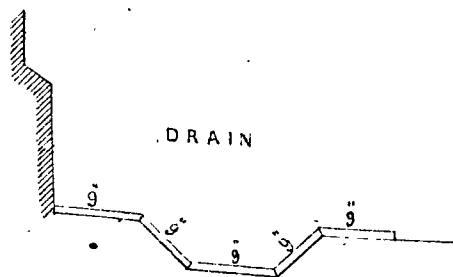
Leading.—After the whole of the carpentry of the roof has been completed, lay in the valleys 18 inches broad leading (or zinc, if sheet lead is not procurable) with a lap of 9 inches where joined.

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 1/2 inches broad and 1/2 inches apart.

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 below, varying the section of the drain according to the slope of the ground.



20th September 1875.

(Signed) ROSS THOMPSON, Captain, R.E.,
Off. Consulting Architect to Government.

*Proceedings of the Madras Government, Public Works Department,
13th March 1876.*

ESTIMATE for constructing a second-class Taluq Cutcherry as per revised drawing, dated 2nd July 1875.

Detailed Quantities.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Excavation for Foundations.</i>						
Court room walls	1	88 0	5 0	4 0	1,760	
Police, record and clerks' room, front and rear walls	2	45 3	5 0	4 0	1,810	
Do. do. partitions	2	12 6	4 7½	4 0	463	
Jail, outer walls	1	138 9	5 0	4 0	2,775	
Do. partitions	3	11 6	4 7½	4 0	638	
Verandah walls	1	211 9	3 9	4 0	3,176	
Retiring room walls	2	2 6	3 9	4 0	75	
Steps	2	10 0	3 0	2 0	120	
Do.	2	8 6	3 0	2 0	102	
Cubic feet	..	..	..	..	10,919	
<i>Concrete 12 inches thick.</i>						
Excavation ÷ 4 = cubic feet	..	..	..	..	2,730	
<i>Brickwork in Foundations and Basement Footings.</i>						
Court room walls	1	88 0	2 10	1 6	374	
Police, record and clerks' room, front and rear walls	2	47 5	2 10	1 6	403	
Do. do. partitions	2	14 8	2 5½	1 6	108	
Jail, outer walls	1	138 9	2 10	1 6	590	
Do. partitions	3	13 8	2 5½	1 6	151	
Verandah walls	1	213 11	1 9	1 6	562	
Retiring room walls	2	4 7	1 9	1 6	24	
<i>Above Footings to Floor Level.</i>						
Court room walls	1	88 0	1 6	3 0	396	
Police, record and clerks' room, front and rear walls	2	48 9	1 6	3 0	439	
Do. do. partitions	2	16 0	1 1½	3 0	103	
Jail, outer walls	1	138 9	1 6	3 0	624	
Do. partitions	3	15 0	1 1½	3 0	152	
Verandah walls	1	215 3	0 9	3 0	484	
Retiring room walls	2	5 9	0 9	3 0	26	
Steps	2	10 0	3 0	1 6	90	
Do.	2	8 6	3 0	1 6	77	
Do.	2	8 0	2 0	1 0	32	
Do.	2	7 6	2 0	1 0	30	
Do.	1	97 0	0 3	3 0	73	
Extra thickness for plinth in jail	..	..	..	..	4,743	
<i>Deductions.</i>						
Stone course on plinth (see details for stonework)	..	..	..	..	117	
Do. in steps do.	..	..	..	..	69	
Cubic feet	..	..	..	..	186	
<i>Brickwork in Superstructure.</i>						
Court room walls	1	88 0	1 6	12 0	1,584	
Do. gables	2	19 0	1 6	3 6	200	

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Detailed Quantities.—(Continued.)

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
Brickwork in Superstructure.— (Concluded.)						
Police, record and clerks' room, front and rear walls	2	38 9	1 6	12 0	1,395	
Do. do. partitions	2	16 0	1 1½	12 0	432	
Do. do. gables	2	19 0	1 6	3 6	200	
Do. do. do.	2	19 0	1 1½	3 6	150	
Jail, outer walls	1	138 9	1 6	12 4	2,567	
Jail partitions	3	15 0	1 1½	12 4	624	
Do. gables	3	18 0	1 1½	3 3	197	
Retiring room walls	1	32 0	0 6	8 0	128	
Do. ends (triangular portion)	2	6 6	0 6	2 3	15	
						7,492
Deductions.						
Doors	10	4 0	1 6	4 0	210	
Do. do.	1	4 0	1 1½	4 0	18	
Jail doors	6	4 0	1 6	3 9	135	
Retiring room door	1	2 6	0 6	3 3	4	
Do. windows	2	2 0	0 6	2 0	4	
"Police guard" windows	2	3 6	1 6	2 6	26	
Jail ventilators	6	4 0	1 6	2 6	90	
Court room ventilators	2	8 0	1 6	1 6	36	
						553
Cubic feet	..	..	..	..	..	6,939

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

Cut-stone (if procurable at reasonable rates.)						
Course on plinth	1	310 9	0 6	0 9	117	
Steps	2	6 0	1 0	0 6	6	
Do. do.	2	6 6	1 0	0 6	7	
Do. do.	2	25 0	1 3	0 6	31	
Do. do.	2	20 0	1 3	0 6	25	
Cubic feet	..	..	..	..	186	

Filling in Basement.						
Court room	1	16 0	25 0	1 6	600	
Police, record and clerks' room	1	46 6	16 0	1 6	1,116	
Jail	1	48 0	15 0	1 6	1,080	
Verandah	1	200 9	5 9	1 6	1,731	
Cubic feet	..	..	..	..	4,527	

Teakwood.						
Court room—						
1 Truss 16 feet { Tie beams	1	19 0	0 5	0 6	4	
span. { Principal rafters	2	10 3	0 4	0 5	3	
Struts..	2	5 0	0 3	0 4	1	
Purlins	2	31 6	0 6	0 7	18	
Wall purlins	2	31 6	0 4	0 4	7	
Ridge	1	31 6	0 3	0 9	6	
Verandah wall plates	2	19 0	0 3	0 3	2	
Common rafters	36	11 0	0 2½	0 4	28	
Do. at ends	8	13 6	0 2½	0 4	8	

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Detailed Quantities.—(Continued.)

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
Teakwood.—(Concluded.)						
Police, record and clerks' rooms	1	19 0	0 5	0 6	4	
1 Truss 16 feet { Tie beam	2	10 3	0 4	0 5	3	
span { Principal rafters	2	5 0	0 3	0 4	1	
Struts..	2	61 6	0 6	0 7	36	
Purlins	2	39 0	0 4	0 4	9	
Wall purlins	2	14 0	0 5	0 6	6	
Do. over	2	69 0	0 3	0 9	13	
Guard room openings	1	11 0	0 2½	0 4	60	
Ridge	78	14 0	0 3	0 5	3	
Common rafters	2	13 6	0 3	0 5	3	
Hip rafters	2	18 0	0 4	0 6	6	
Do. Jail—	2	9 9	0 4	0 4	4	
2 Trusses 15 { Tie beam	4	4 9	0 3	0 3	1	
feet span { Principal rafters	4	45 6	0 5	0 6	19	
Struts..	2	8 6	0 5	0 6	4	
Purlins	2	55 9	0 4	0 4	12	
Do.	2	18 0	0 4	0 4	4	
Wall purlins	2	36 9	0 3	0 8	6	
Do.	1	13 0	0 5	0 6	11	
Ridge	4	41 0	0 4	0 5	11	
Principal hip rafters	2	14 9	0 2½	0 4	53	
Wall plates	52	10 6	0 3	0 5	25	
Common rafters	34	17 0	0 3	0 5	7	
Do.	4	3 0	0 2½	0 3	11	
Hip rafters	70	3 6	0 3	0 3	1	
Struts at eaves	4	4 0	0 1½	0 3	18	
Do. at angles	140					
Uprights (double)						
	24	0 5	0 5	8 3	34	
Verandah.						
Posts	1	226 0	0 5	0 6	47	
Braesummers	145	1 0	0 3	0 2½	8	
Small uprights	290	1 3	0 2	0 1½	8	
Side pieces	143	10 6	0 2½	0 4	104	
Common rafters	8	12 0	0 3	0 4	8	
Hip	1	353 0	0 1	0 5	9	
Eaves board throughout	2	27 0	0 1	0 9	3	
Barge board, court room gables						
Cubic feet	..	..	..	..	..	629
Wrought Iron in Trusses.						
1 Inch diameter king rods for 16 feet trusses	2	7 6	= 15 ×	2·62	39·30	
¾ Inch diameter king rods for 15 feet trusses	2	7 0	= 14 ×	1·48	20·72	
1 Inch hex nuts and bolts heads for 16 feet trusses	6	..	..	0·55	3·30	
¾ Inch hex nuts and bolts heads for 15 feet trusses	6	..	..	0·22	1·32	
3 Inches × 3 inches × ½ inch washers for trusses	12	..	..	0·32	3·84	
1½ Inches × ¾ inch flat iron straps for 16 feet trusses	4	2 8	10 8	1·87	39·27	
1½ Inches × ¾ inch flat iron straps for 15 feet trusses	4	2 7	10 4	1·87		
1½ Inches × ½ inch bearing plates for 16 feet trusses	4	0 6	2 0	2·92	10·70	
1½ Inches × ½ inch bearing plates for 15 feet trusses	4	0 5	1 8	2·92		

Proceedings of the Madras Government, Public Works Department,
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Detailed Quantities.—(Continued.)

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Wrought Iron in Trusses.—(Concl'd.)</i>						
1/2 Inch hex nuts for trusses	16	..	..	0.06	0.96	
2 Inches x 2 inches x 1/2 inch washers for trusses	16	..	..	0.14	2.24	
lbs	..	..	..	..	121.65	
<i>Doors and Windows, Venetian and Panel.</i>						
Doors	11	4 0	..	8 0	352	
Do.	1	2 6	..	6 6	16	
Windows	2	3 6	..	5 0	35	
Do.	2	2 0	..	4 0	16	
Superficial feet	..	..	..	..	..	419
Batten doors for jail wards	6	4 0	..	7 6	180	Supl. ft.
Iron-barred shutters for jail wards ..	6	3 6	..	7 0	147	Supl. ft.
Ventilators with iron bars for jail wards	6	4 0	..	2 6	60	Supl. ft.
Ventilators (fixed venetian) in gables of court room	2	8 0	1 6	1 6	36	Supl. ft.
<i>Painting doors and windows and exposed woodwork of roof.</i>						
Doors, panel portion	2	11	4 0	..	235	
Do., do.	2	1	2 6	..	11	
Do., venetian do.	3	11	4 0	..	704	
Do., do.	3	1	2 6	..	33	
Windows	3	2	3 6	..	105	
Do.	3	2	2 0	..	48	
Batten doors	2	6	4 0	..	360	
Iron shutters	2	6	3 6	..	294	
Ventilators with iron bars	2	6	4 0	..	120	
Venetian ventilators	3	2	8 0	..	72	
Verandah posts	24	1	8	..	320	
Bressummers	1	226	0	..	414	
Small uprights	145	1	0	..	103	
Side pieces	290	1	3	..	151	
Eaves board	1	353	0	..	177	
Barge do.	2	27	0	..	45	
Struts at eaves	70	3	0	..	193	
Do.	4	3	6	..	14	
Uprights	140	4	0	..	350	
Superficial feet	..	..	..	..	3,749	
Squares	..	..	..	..	..	37.49
<i>Pointing exterior walls.</i>						
Court room	1	67	6	..	810	
Police, record and clerks' room	2	38	9	..	930	
Jail	1	125	9	..	1,551	
Plinth all round	1	312	3	..	468	
Retiring room	1	33	6	..	268	
Do. ends	2	6	6	..	29	
Superficial feet	..	..	..	..	4,056	
Squares	..	..	..	..	..	40.56

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Detailed Quantities.—(Continued.)

Description of Works.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Plastering and washing interior.</i>						
Court room	1	82	0	..	12 0	984
Police, record and clerks' room	1	175	0	..	12 0	2,100
Jail wards	1	216	0	..	12 4	2,664
Retiring room	1	30	6	..	8 0	244
Do.	1	6	6	..	12 0	78
Do. ends	2	6	0	..	2 3	27
Superficial feet	..	..	..	..	6,097	
Squares	..	..	..	..	..	60.97
<i>Tiled Roofing with Flat and Pan Tiles, including Reapers, Nails, &c.</i>						
Court room	1	31	0	..	24 0	744
Police, record and clerks' room	1	60	0	..	24 0	1,440
Jail	1	62	0	..	25 0	1,550
Verandah	1	207	0	..	9 6	1,967
Superficial feet	..	..	..	..	5,701	
Squares	..	..	..	..	..	57
<i>Flooring with Square Pavement Tiles.</i>						
Court room	1	16	0	..	25 0	400
Police, record and clerks' room	1	46	6	..	16 0	744
Verandah	10	4	0	..	5 9	1,162
Door pieces	1	4	0	..	1 6	60
Do.	2	10	0	..	1 1 1/2	5
Do.	1	2	6	..	1 6	30
Do.	1	2	6	..	0 6	1
Superficial feet	..	..	..	..	2,402	
Squares	..	..	..	..	..	24
<i>Flooring with Asphaltic.</i>						
Jail wards	1	48	0	..	15 0	720
Door pieces	6	4	0	..	1 6	36
Superficial feet	..	..	..	..	756	
Squares	..	..	..	..	..	7.56
<i>Stones under Trusses</i>						
<i>Laying Lead or Zinc Sheets to the valleys 18 inches broad.</i>						
Over court room	1	53	0	..	..	53
Over jail	2	35	0	..	..	70
Lineal feet	..	..	..	..	123	
Exterior drain	..	224	Lineal feet.	..	..	
Circular ornaments for trusses	..	8 in number.	..	..	..	

Proceedings of the Madras Government, Public Works Department,
13th March 1876.

ABSTRACT.

Quantity.	Item.	Rate.	Per.	Amount.	Total.
		RS. A. P.		RS. A. P.	RS. A. P.
10,919 Cubic feet.	Excavation for foundations ...				
2,730 Do.	Concrete ...				
4,557 Do.	Brick-work in foundations and basement.				
6,939 Do.	Brick-work in superstructure ...				
186 Do.	Cut-stone ...				
4,527 Do.	Filling in basement ...				
629 Do.	Teakwood ...				
121-65 lbs.	Wrought iron in trusses ...				
419 S. feet.	Doors and windows, venetian and panel.				
180 Do.	Batten doors for jail ...				
147 Do.	Iron-barred shutters for jail ...				
60 Do.	Ventilators with iron bars for jail.				
36 Do.	Fixed venetian ventilators ...				
37-49 Squares.	Painting with oak color three coats.				
40-56 Do.	Pointing exterior walls ...				
60-97 Do.	Plastering and washing interior...				
57 Do.	Tiled roofing complete ...				
24 Do.	Flooring with square tiles ...				
7-56 Do.	Do. asphalte ...				
8 Nos.	Stones under trusses ...				
123 L. feet.	Laying lead or zinc sheets to the valleys.				
224 Do.	Exterior drain ...				
8 No.	Circular ornaments for trusses ...				
	Contingencies at per cent ...				
	Total ...				

CHEPAUK,
20th September 1875

(Signed) ROSS THOMPSON, Captain, R.E.,
Officiating Consulting Architect.

No. 163.

ORDER THEREON, 13th March 1876, No. 642.

CIVIL WORKS, No. 17.

ORDERED that the specification
and estimate of quantities be printed
and the revised design lithographed for
adoption.

(True Extract.)

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

To District Engineers,
To the Consulting Architect,
" Revenue Department,
" Judicial " with design.

Exd. E. C. Shunker.
Spare Copies

Specification of works to be performed in
constructing a second class Talug Cutcherry according
to the revised drawing dated 2^d July 1875.

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 in chunam.

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

2)

drawing.

Walling.— The outer walls will be two bricks thick (18 inches) and the partitions one and a half bricks thick (13½ inches).

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

Arching.— The heads of all openings will have flat arches 18 inches thick. The bricks will radiate to a centre midway between the top and bottom of each opening.

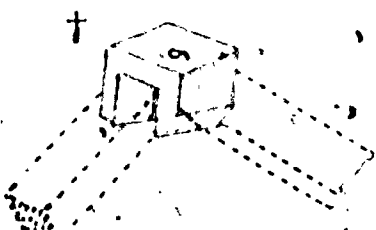
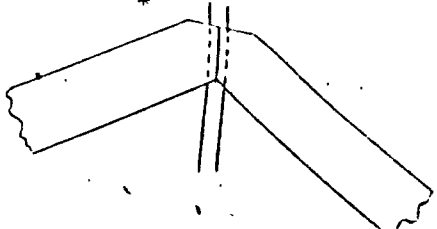
Stonework

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.

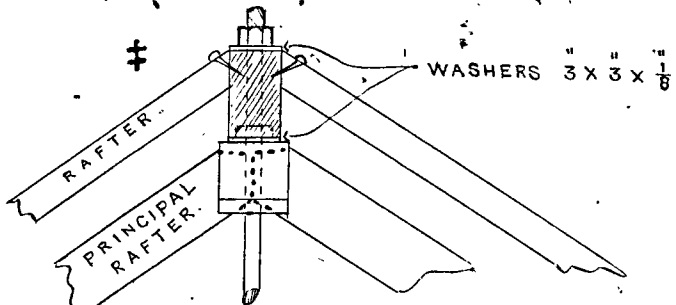
Teakwood

The teakwood trusses, rafters, verandah posts will be executed in strict accordance with the details shown on the drawing.

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 as shown on the drawing.



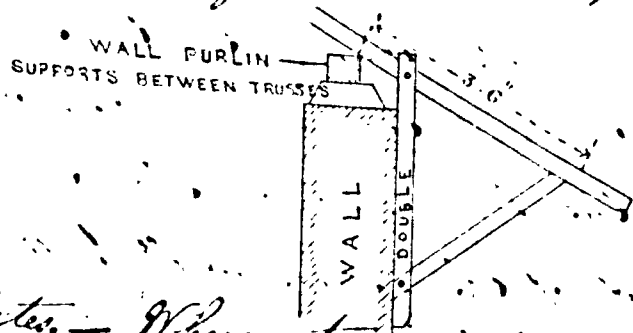
will be fixed on and fastened by the first nut. (The struts having been cut to admit of the proper camber.) Lap a rope round the truss and twist up the tie beam to the required camber, and screw home the first nut on the king rod. The lower ends of the struts will butt simply against the tie beam and 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 head, and screw the second nut down tight. Halve the purlins and principal



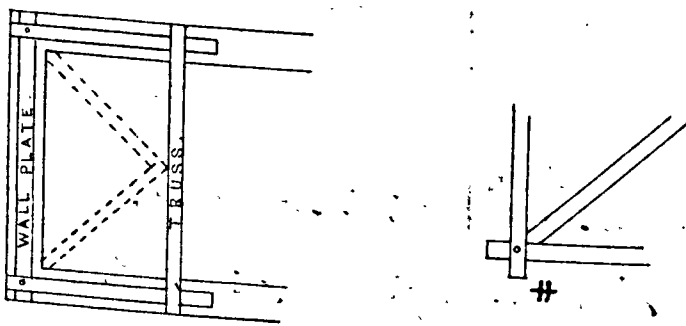
rafters each to the extent of one inch. Support the purlins over the walls between the trusses.

Rafters.— Notch the rafters into the purlins, but on no account cut the purlins themselves as the full section is required for the roof. 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.

In the gail, strut the rafters at a distance of 3 feet 6 inches from the wall purlin.



Wall plates. — Where a truss ends a roof at a distance from the wall about equal to half the span, as in the gail, 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 formed by these plates, and the upper ends will be fastened under the ridge.



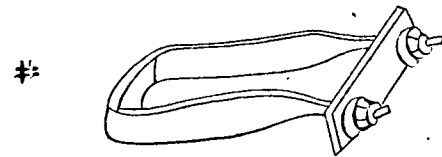
It is not necessary to strut these rafters, as the scantling 5 inches x 6 inches, is sufficient without the intermediate support.

Ironwork.

Tie-rods. — The tie-rods will be of the forms and dimensions shown, lower end to have octagonal head, ^{and square} 3 inches, by $\frac{3}{8}$ inch washers. The upper end 9 inches of worn

and double nuts and washers.

straps. — The straps for trusses will be formed of $1\frac{1}{2}$ inches by $\frac{3}{8}$ inch iron forged to a half inch screw at ends, bearing plate $1\frac{1}{4}$ by half inch, with nuts and washers.



Doors.

The doors will be $\frac{2}{3}$ panel and $\frac{1}{3}$ venetians. The panel to be raised and screwed, instead of grooved and tongued, and the edges will be splayed and not moulded. Venetians to be of ordinary construction.

The gail doors will be formed with battens 6 inches wide and $1\frac{1}{2}$ inch thick with wooden frames and iron shutters of the forms and dimensions shown on the plan of details for "first class Salug Butcherries dated April 1872".

Painting.

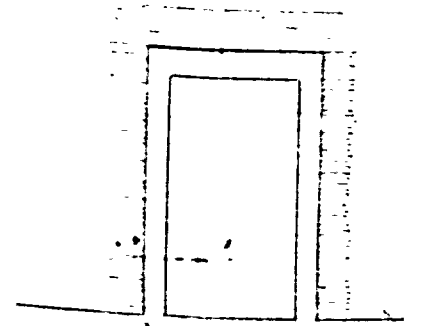
All doors, and windows and exposed wood work of roof will be painted with 3 coats of "Carsons oak color".

Plastering.

One coat of rough cast. — Lay with hand floats

one coat of rough coat over the whole of the interior, and bring to a smooth and level surface.

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



The following proportions make good tints for this work.

Whitewash	40 White	Color-wash	25 White
	1 yellow		1 yellow
			$\frac{1}{2}$ Red
			$\frac{1}{2}$ Black

Painting.

Take 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 zinc, if sheet lead is not procurable) 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.

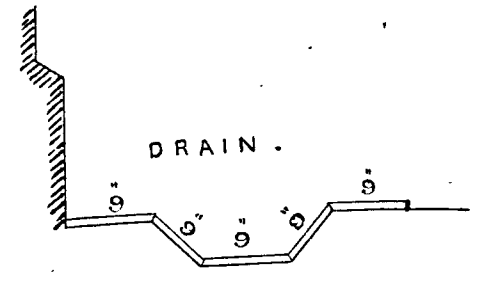
Chunam bands.— Protect the ridges, hips and eaves with chunam bands, rough cast on the surface, and lay bands on the tiling inches broad and inches apart.

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.



W. H. P. H. M. P. H.
 Captain R. E.
 Offg. Consulting Architect to Govt.

20th September 1875.

8
17
Estimate for constructing a 2nd Class Salug Butchery as per
Revised drawing dated 2nd July 1875.

Detailed quantities.

Description of work.	N ^o	L.	B.	D.	Contents	Total.
<u>Excavation for foundations.</u>						
	1	22	05	04	0	1760
Count room walls.						
Police, Record and Clerk.	2	45	03	04	0	1310
room. front and rear walls	2	12	06	04	0	468
2 nd 2 nd partitions	2	12	06	04	0	2775
1	138	09	05	04	0	638
Jail. outer walls.	3	11	06	04	0	3176
2 nd partitions.	1	21	09	03	04	75
Verandah walls.	2	2	06	03	09	120
Retiring room walls.	2	10	00	03	02	102
Steps.	2	8	06	03	02	
					<u>Cub. ft. 10919</u>	

Concrete - 12" thick

Excavation 3' 4"

Cub. ft. 2730

Brickwork in foundations & basement

footings.	1	22	02	10	1	6	374
Count room walls							
Police, Record & Clerk room. front	2	47	52	10	1	6	403
and rear walls	2	14	52	05	1	6	108
2 nd 2 nd partitions	2	14	52	05	1	6	590
1	138	09	02	10	1	6	151
Jail. outer walls	3	13	08	02	05	1	6
2 nd partitions							

Carried over Cub. ft. 1626

Brought forward left 1624				
Verandah walls	1	213	11	91 - 6
Retiring room walls	2	4	71	91 - 6
Shore footings to floor level				
Court room walls	1	88	01	63 - 0
Police, record and clerks room				
front and rear walls	2	48	91	63 - 0
D. D. partitions	2	16	01	12 3 - 0
Jail outer walls	1	138	91	63 - 0
D. D. partitions	3	15	01	12 3 - 0
Verandah walls	1	215	30	93 - 0
Retiring room walls	2	5	90	93 - 0
Steps	2	10	03	01 - 6
	2	8	63	01 - 6
	2	8	02	01 - 0
	2	7	62	01 - 0
Extra thickness for plinth in jail	1	97	00	32 - 0
				4748

Deductions.				
Stone course on plinth (see details for stone work)				117
do in steps				69
				186
				Cub ft. 4557

Brickwork in Superstructure				
Court room walls	1	88	01	612 - 0
D. D. Gables	2	17	01	63 - 6
Police, record and clerks room				
front and rear walls	2	38	91	612 - 0
D. D. partitions	2	16	01	12 12 - 0
D. D. Gables	2	19	01	63 - 6
D. D. Gables	2	19	01	12 3 - 6
Jail. Outer walls	1	138	91	612 - 4
				6528
Carried over Cub ft. 6528				

Brought forward left 6528				
Jail partitions	3	15	01	12 12 - 4
D. D. Gables	3	18	01	12 3 - 3
Retiring room walls	1	32	00	68 - 9
D. D. ends (triangular ports)	2	6	60	62 - 3
				7492
Deductions.				
Steps	10	4	01	64 - 0
D. D.	1	4	01	12 4 - 0
Jail doors	6	4	01	63 - 9
Retiring room door	1	2	60	63 - 3
Retiring room door	2	2	00	62 - 0
Police guard windows	2	3	61	62 - 6
Jail ventilators	6	4	01	62 - 6
Court room ventilators	2	8	01	61 - 6
				653
Cubic feet 6939				

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

Cut stone (if procurable at reasonable rates)				
Course on plinth	1	310	90	60 - 9
Steps	2	6	01	00 - 6
	2	6	61	00 - 6
	2	25	01	30 - 6
	2	20	01	30 - 6
				186
Cub ft. 186				

Filling in basement				
Court room	1	16	025	01 - 6
Police, record and clerks room	1	48	015	01 - 6
Jail	1	200	95	91 - 6
Verandah				
				4527
Cubic feet 4527				

Teakwood
Court room.

1 Truss 6 ft span { Tie beam.
Principal rafters.
Struts.
Purlins
Wall purlins
Ridge
Verandah wall plates.
Common rafters.
D: at ends
Police, record & clerk's rooms
2 Truss 6 ft span { Tie beam.
Principal rafters.
Struts.
Purlins
Wall purlins
D: over.
Guard room openings
Ridge
Common rafters
Hip rafters
D:
Jail.
2 Truss 15 ft span { Tie beam.
Principal rafters.
Struts.
Purlins
D:
Wall purlins
D:
Ridge
Principal Hip rafters
Wall plates
Common rafters
D:
Hip rafters
Struts at eaves
D: at angles
Uprights (double)

1	12	00	50	6	14
2	10	30	40	5	8
2	5	00	30	4	1
2	31	60	60	7	18
2	31	60	40	4	7
1	31	60	30	9	6
2	19	00	30	3	2
26	11	00	22	0	28
8	13	60	22	0	8
1	19	00	60	6	4
2	10	30	40	5	3
2	5	00	30	4	1
2	61	60	60	7	26
2	39	00	40	4	9
2	14	00	50	6	6
1	67	00	30	9	13
78	11	00	22	0	10
2	14	00	30	6	3
2	13	60	30	5	8
2	18	00	40	6	6
4	7	90	40	2	11
4	4	90	30	3	1
2	45	60	60	6	19
2	8	60	50	6	4
2	55	90	40	4	12
2	18	00	40	4	4
1	36	90	30	8	6
4	13	00	50	6	11
2	41	00	40	5	11
52	14	90	22	0	53
34	10	60	22	0	25
4	17	00	30	5	7
70	3	00	21	0	11
11	3	60	30	3	1
140	4	00	12	0	18

Carry over cubic feet 408

Brought forward Cubic ft. 408

Verandah
Posts

Crushtenimmers
Small uprights
Side pieces
Common rafters
Hip rafters
Eaves board throughout
Barge board Court room
Gables

24	0	50	58	3	34
1	226	00	50	6	47
145	1	00	30	22	8
290	1	30	20	2	3
143	10	60	22	0	104
8	12	00	30	4	8
1	353	00	30	5	9
2	87	00	10	9	3

Cubic ft. 629

Brought iron in Trusses.

1" dia. king rods for 16 ft. trusses	2	7	6	16	x	2.62	39.30
" " " " " " " "	2	7	0	14	x	1.48	20.72
" " " " " " " "	2	7	0	14	x	0.65	3.30
1" hex nuts & bolts heads for 16 ft. " "	1	6	0	12	x	0.22	1.32
" " " " " " " "	1	6	0	12	x	0.32	3.84
3"x3"x1/8" washers for Trusses	4	2	8	10	x	1.87	39.27
2"x3/8" flat iron straps for 16 ft. truss	4	2	7	10	x	1.87	39.27
" " " " " " " "	4	2	7	10	x	2.92	10.70
3"x1/2" bearing plates for 16 " "	4	0	5	1	x	2.92	0.96
" " " " " " " "	4	0	5	1	x	0.06	0.96
" hex nuts for " "	4	0	5	1	x	0.14	2.24
2"x2"x1/8" washers	4	0	5	1	x	0.14	2.24

Lbs 121.65

Doors and windows, partition and panel.

Doors
Windows

11	4	0	8	0	362
1	2	6	6	6	16
2	3	6	5	0	35
2	2	0	4	0	16

Suplft. 419

Patten doors
for jail wards

6 4 - 0 — 7 - 6 130 Suplft

Iron barred shutters

for jail wards

6 3 - 6 — 7 - 0 117 Suplft

Ventilators with Iron bars

for jail wards

6 4 - 0 — 8 - 6 60 Suplft

Ventilators (fixed venetian)
in gables of Court room

2 8 - 07 - 61 - 6 36 Suplft

Painting doors and windows
and exposed wood work of roof.

Doors	panel partition	2	11	4	0	2	8	335
"	"	2	1	3	6	2	2	115
"	Venetian	3	11	4	0	5	11	701
Windows	"	3	1	2	6	4	4	38
"	"	3	2	3	6	5	0	105
Patten doors	"	3	2	2	0	4	0	45
Iron shutters	"	2	6	4	0	7	6	360
Ventilators with Iron bars	"	2	6	3	6	7	0	291
Venetian ventilators	"	2	6	4	0	2	6	120
Verandah Posts	"	3	2	8	0	1	6	72
Breastsummers	"	24	1	8	0	8	0	320
	"	1	22	6	0	1	10	411

Carried over Lft 2716

Brought forward Lft 2716

Small uprights
side pieces
Caves board
Darge board
Study at ends
uprights

125	1	0	0	8 1/2	123
290	1	8	0	5	151
1	253	0	0	6	177
2	27	0	0	10	45
70	3	0	0	11	193
4	3	6	1	0	14
140	4	0	0	7 1/2	350

Suplft 3749

Squares 3749

Painting interior walls

Court room
Police, record & Clerks room
Jail
Plinth all round
Retiring room
ends

1	67	6	12	0	810
2	38	9	12	0	930
1	125	9	12	14	1551
1	312	3	1	6	468
1	33	6	8	0	268
2	6	6	2	3	29

Suplft 4056

Squares 4056

Plastering & washing interior

Court room
Police, record & Clerks room
Jail wards
Retiring room
ends

1	82	0	12	0	984
1	175	0	12	0	2100
1	216	0	12	14	2664
1	30	6	8	0	244
1	6	6	12	0	78
2	6	0	2	3	27

Suplft 6097

Squares 6097

Tiled roofing with flat and
pan tiles, including rafters, nails &c.

Court room	1	51.0	24.0	754
Police, record & Clerks room	1	60.0	24.0	1440
Jail	1	62.0	25.0	1550
Verandah	1	207.0	9.6	1967
				Suplft 6701
				Squares 57

Flooring with square pavement tiles

Court room	1	16.0	25.0	400
Police, record & Clerks room	1	16.6	16.0	704
Verandah	1	202.0	5.9	1162
Door pieces	10	4.0	1.6	60
9"	1	4.0	1.1 1/2	5
8"	2	10.0	1.3 6	30
7"	1	2.6	0.6	1
				Suplft 21102
				Squares 214

Flooring with Asphalt

Jail wards	1	118.0	15.0	720
Door pieces	6	4.0	1.6	36
				Suplft 756
				Squares 756

Stones under Trusses

8 in Number				
Laying lead or zinc sheets to the valleys 18" broad				
Over Court room	1	53.0		53
Over Jail	2	35.0		70
				Linealft 123

Exterior Drain

22 1/2" Linealft				
Circular ornaments for trusses - 8 in Number				

Abstract

Quantity	Item	Rate Per Rs. & P.	Amount Total Rs. & P.
10919	Cft Excavation for foundations		
2730	Concrete		
4557	Brickwork in foundations and basement		
6939	Brickwork in Superstructure		
186	Cut stone		
4527	Filling in basement		
629	Teakwood		
121.65 lbs	Wrought iron in trusses		
419	Sft Doors and windows, venetian and panel		
180	Platten doors for jail		
147	Iron barred shutters for jail		
60	Ventilators with iron bars for jail		
36	Fixed venetian ventilators		
37.49	Sq. Painting with Oak color 3 coats		
40.56	Painting exterior walls		
60.97	Plastering and washing interior		
57	Tiled roofing complete		
24	Flooring with sq. tiles		
7.56	" " Asphalt		
8	No. Stones under trusses		
123	Sft Laying lead or zinc sheets to the valleys		
22 1/2	No. Exterior Drain		
8	No. Circular ornaments for trusses		
		per cent	
		Contingencies at	
		Total Rs.	

Cons. Archt. Office
Chapank 20th Sept/75
Sub

Captain R.C.
Offg. Cons. Archt. to Govt.

29
MW 1664/
3/76

*Specification and Estimate
of Quantities of Revised
design for Second-Class
Taluq Cutcheries.*

Subpo No 99/76

Rev 4856/75 2

*Consulting Architects Office
20th September 1875.*

Rev 4856/75

*In Feb 430
76*

In Jan 20 of 1876

No 13 March 76 B.N. 162

21
*Proceedings of the Madras Government, Judicial Department,
28th February 1876.*

Taluq Cutcheries.

Read the following papers:—

No. 142. From Captain R. THOMPSON, R.E., Officiating Consulting Architect to Government, to Major-General G. W. WALKER, R.E., Secretary to Government, Public Works Department, Fort St. George, dated Chepauk, 20th September 1875, No. 210.

In compliance with G.O., No. 2093, dated 23rd July 1875, I have the honor to submit the specification and estimate of quantities for the revised standard design for second class Taluq Cutcheries.

2. The drawing received with your Memorandum, No. 507, dated 13th instant, is herewith returned.

No. 313.

Transferred to the Revenue Department for final approval of plan.
(By Order.)

(Signed) A. DE C. SCOTT, Major, R.E.,
Under Secretary to Govt., P.W.D.

20th December 1875.

Transferred to the Judicial Department with reference to Official Memorandum from that Department, dated 20th August 1874, No. 245.

(Signed) D. F. CARMICHAEL,
Secretary to Government, R.D.
FORT ST. GEORGE,
5th January 1876.

No. 53.

Referred to the Board of Revenue for their opinion.
(Signed) W. HUDLESTON,

Chief Secretary.
FORT ST. GEORGE,
13th January 1876.

No. 143. Proceedings of the Board of Revenue, dated 18th February 1876, No. 1505 (Miscellaneous).

Read endorsement of the Chief Secretary to Government, Judicial Department, dated 13th January 1876, No. 53, referring to the Board for opinion letter from Officiating Consulting Architect to Government, forwarding specification and estimate of quantities for the revised standard design for second class Taluq Cutcheries.

The plans are approved.
(True Extract.)

(Signed) C. A. GALTON,
Acting Secretary.

Proceedings of the Madras Government, Judicial Department,
28th February 1876.

No. 144. ORDER THEREON, 28th February 1876, No. 373.
The revised standard design for second class Taluq Cutcheries is approved
for adoption. (True Extract.)

J. A. Miller
Chief Secretary.

To the Public Works Department. *28 Feb 76*
.. Revenue Department.
.. Board of Revenue.

Exl. T. O'Connor.

P. 17. 1876 Sept
No 1664

Recd. 1876
1876

GOVT. OF 1876
JUDICIAL.
TO THE PUBLIC WORKS DEPARTMENT.

Recd 6 March 1876.
83

78237.675 No 1093

FEBRUARY.
Nos. 142-144.

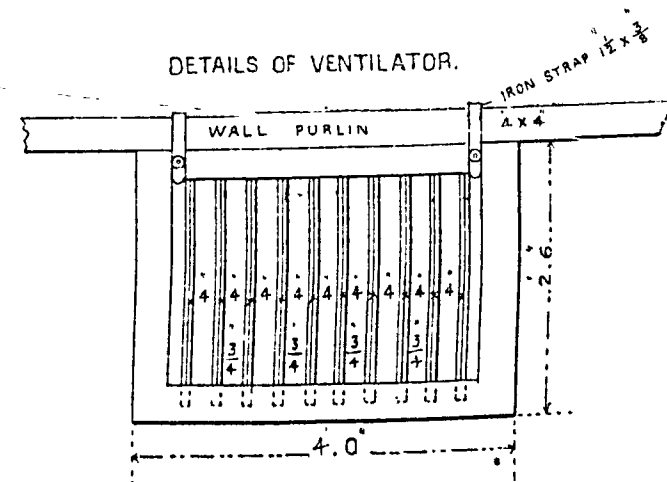
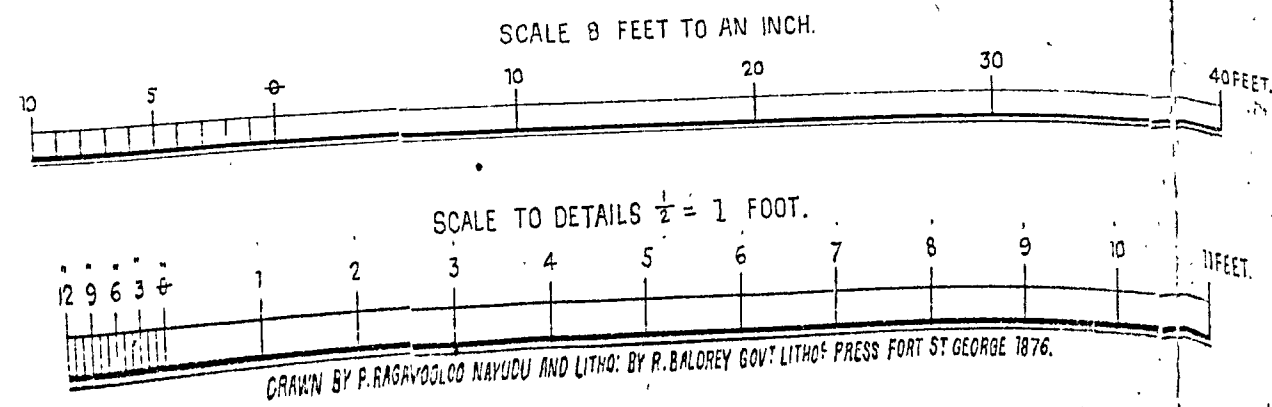
THE
LIBRARY
OF THE
CONGRESS

No. 13. 1867. 16. 11/12.

REVISED STANDARD DESIGN FOR A 2ND CLASS TALUQ CUTCHERRY.

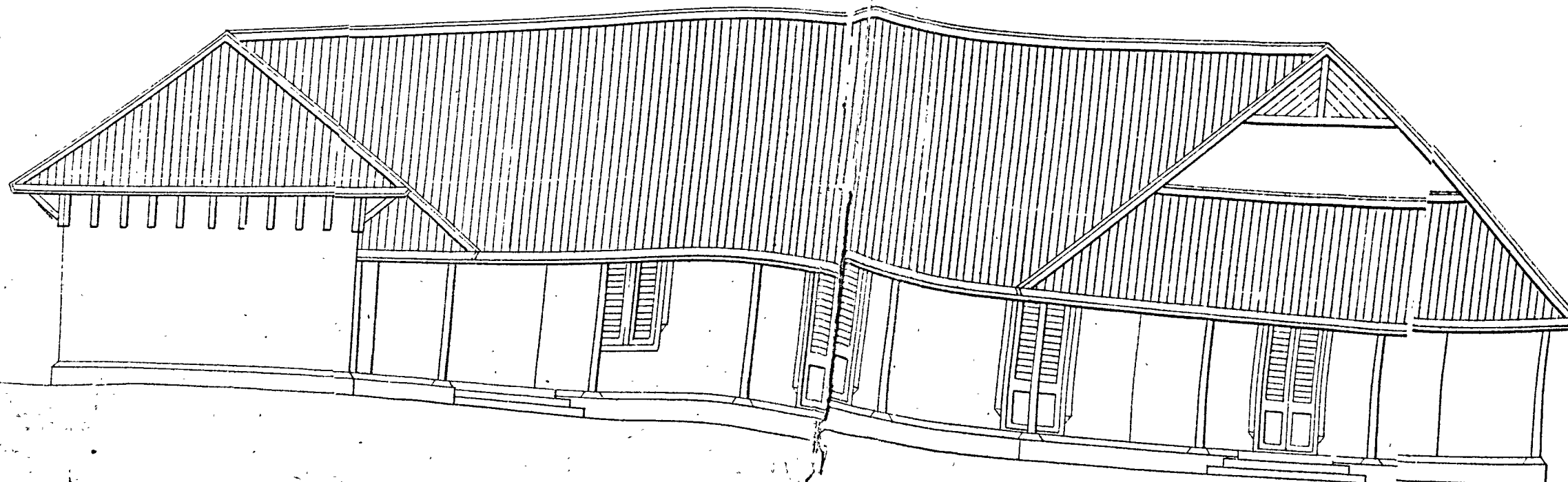
NOTE. THIS PLAN IS THE SAME AS THAT SIGNED BY THE CONSULTING ARCHITECT IN DECEMBER 1870. WITH THE ADDITION OF VERANDAHS.

G.O. N^o 642, dated 13th March 1876.



5x1

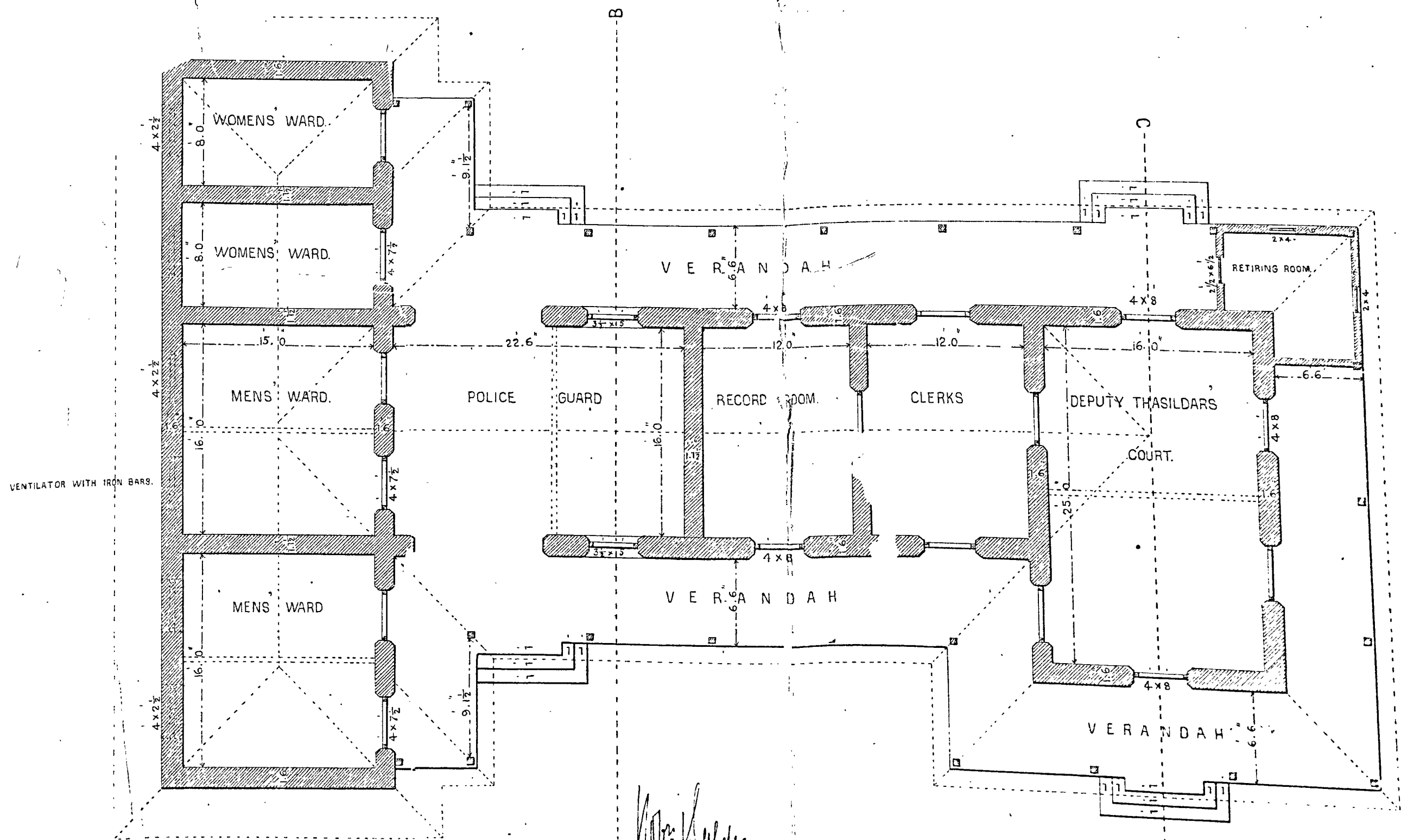
FRONT ELEVATION.



[illegible]

Ref. Scott.
Major R.E
Under Secretary to Govern^t P.W.D.

*/Signed/ Ross Thompson, Captain, R.E.
Off? Consult? Architect, to Government.*



CONSULTING ARCHITECTS OFFICE MADRAS. 2ND JULY 1875

EXAMINED BY F. D. FOPE.

Sup^t & Manager

Govern^t Litho^g Press.
Fort St George, April 1876.

PROCEEDINGS of the MADRAS GOVERNMENT.

UNDER date the 13th March 1876.

READ the following:—

Proceedings of the ^{in full} Medical Dept. (No. 373 of 28th Feb. 1876)

Ordered that
the Specification
and Estimate of
quantities be printed
and the revised
design lithographed
for adoption.

[Signature]
[Signature]

Dist Engineer } 130
Com. Architect } 3
Rev. Dept. } 50
Med. Dept. } 25
Total } 17
Desp 10 April 1876

16645
Gobt. of 1876 Madras.

PUBLIC WORKS.

To

The District Engineer.

14/3

Dated

10 April

By

For

Est.

G. O. 13th March 1876, No.

642

Nos. 152-153

Revised Standard Specifications
for 2nd Class Saline Outlets
Ordered, that the — approved
by the Govt. Dept. be lithographed
and the Specifications
and Estimate of quantities
submitted for adoption.

29/4/76