

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of 1887 Madras.

PUBLIC WORKS.

Dated April, 21st.

Recd.

Encl.

G.O., 21st April 1887, No. 1098 W.

APRIL.

Sub-Judge's or District Munsif's
Court-house

A revised type design for a — with tiled
roof, circulated to officers of the Public
Works Department.



21st APRIL 1887, No. 1098 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers :—

From the Consulting Architect to Government, dated 4th February 1887, No. 1327.

From J. W. BRASSINGTON, Esq., Officiating Consulting Architect to the Government of Madras, to the Chief Engineer, Public Works Department, dated Chapâk, 12th March 1887, No. 1530.

I have the honor to submit a revised plan, with schedule of quantities, for a Sub-Judge or District Munsif's court.

2. This design will supersede the design circulated with G.O., No. 505 W., dated the 6th March 1885.

3. The revised design and quantities for Tahsildars' cutcherries will follow.

No. 970 C.

Forwarded for the approval of Government in the Judicial Department.

2. The design has already been approved in Committee by the Honorable Members and Secretaries to Government.

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.
15th March 1887.

Approved and transferred to the Public Works Department.

(By Order.)
OOTACAMUND,
12th April 1887. (Signed) H. A. STUART,
Under Secy., J.D.

ORDER—dated 21st April 1887, No. 1098 W., Public Works.

The revised type design, with schedule of quantities and descriptive specification, for a Sub-Judge's or District Munsif's court-house with tiled roof, will be circulated to officers of the Public Works Department, for information and guidance, in supersession of the design circulated with G.O., No. 505 W., dated 6th March 1885.

2. The Consulting Architect will, as early as practicable, submit a type design affording the same accommodation for a court-house with a terraced roof.

3. The submission of a revised type design for taluk offices is awaited.

(True Extract.)

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Superintending Engineers.
„ the Consulting Architect to Government.
„ the Judicial Department.

Exd. P. L. Pereira.
Spare Copies

Estimate Form—Detail Measurements—cont.

Detail of work.	No.	MEASUREMENTS IN FEET.			Area or contents.	Total quantity of each description of work.
		Length.	Breadth.	Depth.		
Flooring with 8 inches square pavement bricks.						
Court-house	1	30 0	...	18 0	540	
Record and property room	2	8 5 $\frac{1}{4}$	...	22 0	371	
Gumastah's, head clerk's, judge's retiring room, &c.	...	81 1 $\frac{1}{2}$	...	15 0	1,217	
Verandahs	...	237 9	...	9 0	2,140	
Square Feet	...	...	...	...	4,268	
Total, Squares	...	...	...	...	...	43
Plastering interior (2 coats).						
Court-house	...	96 0	...	18 6	1,776	
Court gables	1	18 0	...	3 0	54	
Dais sides	2	8 0	...	1 0	16	
Record and property rooms	2	60 10 $\frac{1}{2}$	...	18 6	2,252	
Additional height to partition	2	17 6	...	6 0	210	
Gable	1	16 10 $\frac{1}{2}$	...	6 0	101	
Door and window jambs	11	20 0	...	1 10 $\frac{1}{2}$	413	
Ventilator jambs	9	9 6	...	1 10 $\frac{1}{2}$	160	
Gumastah's, head clerk's rooms, &c.	...	302 3	...	13 5	4,055	
Door and window jambs	14	20 0	...	1 6	420	
Do. do.	2	20 0	...	1 1 $\frac{1}{2}$	45	
Deductions—						9,502
Doors	27	4 0	...	8 0	864	
Windows	4	4 0	...	6 0	96	
Ventilators	9	4 0	...	2 9	99	
Square Feet	...	...	...	...	...	1,059
Total, Squares	...	...	...	...	...	8,443
Pointing exterior.						
Basement all round	...	352 9	...	2 0	706	
Court-house, &c.	...	118 9	...	18 6	2,197	
Gumastah's rooms, &c.	2	105 6	...	13 5	2,831	
Deductions—						5,734
Doors	19	4 0	...	8 0	608	
Windows	4	4 0	...	6 0	96	
Ventilators	9	4 0	...	2 9	99	
Square Feet	...	...	...	...	...	803
Total, Squares	...	...	...	...	...	4,931
Lead sheeting for valleys	...	96 0	1 6	=144 0	×	5 720 lb.
Mouldings over windows (exterior).	4	5 3	...	...	21	L. ft.
Railings for dais	...	...	...	...	25	L. ft.
Finials over court room	...	...	...	2 in number.		
Finials over Gumastah's and Nazarat establishment	...	...	...	2 in number.		
Finials for verandahs	...	...	...	5 in number.		

Estimate Form—Detail Measurements—cont.

Estimate Form—Detail						
Detail of work.	No.	MEASUREMENTS IN FEET.			Area or contents.	Total quantity of each description of work.
		Length.	Breadth.	Depth.		
<i>Painting with 3 coats of Carson's paint.</i>						
Venetian and panel doors	3	544 0	...	...	1,632	
Panelled doors	2	192 0	...	...	384	
Venetian and glazed windows	5	96 0	...	...	480	
Ventilators	2	99 0	...	...	198	
Roof timbers including reepers and verandah posts	...	...	...	...	..	2,694
Square Feet	...	...	...	...	...	11,800
Total, Squares	..	...	...	...	...	14,494
<i>Punkah.</i>						
Over dais	1	10 0	...	...	10	L. ft.

ESTIMATE FORM—Abstract.

Quantity.	Description of work.	Rate.	Per	Amount.	Total.
		RS.		RS.	RS.
14,971 C. feet ...	Excavation for foundations (rate to include refilling of trenches)	...	1,000 C. feet.		
4,668 " ...	Concrete in foundations	...	100 "		
4,302 " ...	Brickwork in foundations	...	"		
1,898 " ...	Do. in basement	...	"		
9,715 " ...	Do. in superstructure	...	"		
247 " ...	Archwork	...	C. feet.		
118 " ...	Cut stonework	...	1,000 C. feet.		
5,947 " ...	Filling in basement	...	C. feet.		
851 " ...	Teakwood wrought and put up	...	Sq. feet.		
544 Sq. feet ...	Venetian and panel doors with frames complete	...	"		
192 " ...	Panelled doors with frames complete	...	"		
96 " ...	Venetian windows with glazed shutters and iron bars complete	...	"		
99 " ...	Ventilators	...	lb.		
310 lb. ...	Wrought ironwork in trusses	...	Square.		
70 Squares ...	Tiled roofing with flat and pantiles including teak reepers	...	"		
43 " ...	Flooring with 8-inch square pavement bricks	...	"		
85 " ...	Plastering interior (two coats)	...	"		
50 " ...	Pointing exterior	...	lb.		
720 lb. ...	Lead sheeting for roof valleys	...	L. feet.		
21 L. feet. ...	Moulding over windows	...	"		
25 " ...	Hand railing for dais	...	Each.		
2 in No. ...	Finials over court room	...	"		
2 " ...	Do. at ends	...	"		
5 " ...	Do. for verandah	...	Square.		
145 Squares ...	Painting with 3 coats of Carson's paint. Add extra for finishing barge boards	...	Each.		
5 in No. ...	Punkah 10 feet long	...	"		
1 " ...	Petty supervision	...			
	Contingencies	...			

MADRAS,
12th March 1887.(Signed) J. W. BRASSINGTON,
Offg. Consulting Architect to Government.

Estimate Form—Detail Measurements—cont.

Detail of work.	No.	MEASUREMENTS IN FEET.			Area or contents.	Total quantity of each description of work.
		Length.	Breadth.	Depth.		
<i>Filling in basement.</i>						
Court-house	1	30 0	18 0	1 6	810	
Court dais	1	7 6	7 3	1 0	54	
Record and property room ...	2	22 0	8 5 $\frac{1}{4}$	1 6	557	
Gumastah's, head clerk's, judge's retiring room, &c.	...	81 1 $\frac{1}{2}$	15 0	1 6	1,825	
Verandahs	...	218 3	8 3	1 6	2,701	
Total, Cubic Feet ...	...	...	...	...	...	5,947
<i>Teakwood wrought and put up.</i>						
Court-house, record and property room.						
2 Trusses { Tie beams	2	21 9	0 4	0 7	8	
to span { Principal rafters ...	4	11 9	0 4	0 6	8	
18 feet. { Struts	4	5 9	0 4	0 4	3	
Purlins allowing for halving ...	2	47 0	0 5	0 6	20	
Do. over wall do.	2	58 6	0 4	0 4	18	
Do. do. do.	2	22 0	0 4	0 4		
Ridge	1	38 0	0 3	0 9	7	
Principal rafters in record and property room	2	11 9	0 4	0 6	4	
Hip rafters	4	19 6	0 4	0 5	11	
Common rafters (18 inches centre to centre)	46	14 6	0 3	0 5	130	
Do. do. do.	6	13 0	0 3	0 5		
Average length.		9 0	0 3	0 5		
Jack rafters	56					
<i>Gumastah's, Head Clerk's, Judge's retiring room.</i>						
5 Trusses { Tie beams	5	18 0	0 4	0 6	15	
to span { Principal rafters ...	10	9 9	0 4	0 5	14	
15 feet. { Struts	10	4 9	0 4	0 4	5	
Purlins allowing for halving ...	4	41 0	0 4	0 5	23	
Do. over wall	4	45 0	0 3	0 4	18	
Do. do. do.	2	18 0	0 3	0 4		
Ridge	2	37 0	0 2 $\frac{1}{2}$	0 7	9	
Hip rafters	4	16 6	0 4	0 4	7	
Common rafters (18 inches centre to centre)	98	11 3	0 3	0 4	112	
Average length.		6 0	0 3	0 4		
Jack rafters	40					
<i>Verandahs.</i>						
Posts	40	0 6	0 6	7 6	75	
Breastsummers allowing for halving. ...	...	282 0	0 6	0 6	71	
Ridge for entrance to court ...	1	11 0	0 3	0 6	1	
Ridge for end gables of verandah ...	4	5 6	0 2 $\frac{3}{4}$	0 6	2	
Hip rafters	8	17 0	0 4	0 5	19	
Hip for gable at entrance	2	11 6	0 3	0 5		
Hip do. at ends	4	8 6	0 3	0 5	256	
Common rafters	110	13 3	0 3	0 5		
Jack rafters at entrance gable ...	9	9 6	0 3	0 5	256	
Do. at corners	72	9 3	0 3	0 5		
Do. at end gables	8	8 0	0 3	0 5	5	
Do. do. do.	24	5 6	0 3	0 5		
Wall plate at front and ends of court. ...	...	62 0	0 4	0 3		

Estimate Form—Detail Measurements—cont.

Detail of work.	No.	MEASUREMENTS IN FEET.			Area or contents.	Total quantity of each description of work.
		Length.	Breadth.	Depth.		
Verandahs—cont.						
Barge board at entrance gable ...	2	8 6	0 1 $\frac{1}{2}$	0 8		
Do. do. do. ...	2	3 0	0 1 $\frac{1}{2}$	1 0	1	
Do. do. knobs ...	2	0 6	0 6	0 9	1	
Collar piece	1	6 6	0 4	0 3	1	
Do. plank	1	5 0	0 1 $\frac{1}{2}$	1 9	1	
Barge boards at ends	8	6 6	0 1	0 7	3	
Collar pieces	4	5 6	0 2	0 3	1	
Plank	4	1 0	0 2	1 6	1	
Total, Cubic Feet ...	...	...	...	...	...	851 $\frac{1}{2}$
Venetian and panel doors with frames.						
Outer doors	17	4 0	...	8 0	544	
Total, Square Feet ...	...	...	...	...	...	544
Panelled doors with frames.						
Inner doors, and for record and property room	6	4 0	...	8 0	192	
Total, Square Feet ...	...	...	...	...	...	192
Venetian windows with glazed shutters and iron bars						
...	4	4 0	...	6 0	...	
Total, Square Feet ...	...	...	...	...	...	96
Ventilators.						
For court, record and property room. ...	9	4 0	...	2 9	...	
Total, Square Feet ...	...	...	...	...	...	99
Wrought Iron work in trusses.						
1" diar. kingrods for 18 feet trusses. ...	2	8 0	= 16 0	$\times 2.62$	= 41.92	
1" hex. nut and bolt heads for do. ...	6	...	...	$\times 1.10$	= 6.60	
3" diar. 1" thick washers for do. ...	4	...	...	0.32	= 1.28	
1 $\frac{1}{2}$ " $\times$ 1" heel straps for do. ...	4	2 9	= 11 0	$\times 2.50$	= 27.50	
1 $\frac{1}{2}$ " $\times$ 1" bearing plates for do. ...	4	0 6 $\frac{1}{2}$	= 2 3	$\times 2.50$	= 5.62	
4" hex. nuts for do. ...	8	...	...	$\times .267$	= 2.13	
Caps of 3" plates 6" wide	2	2 0	= 4 0	$\times 7.51$	= 30.04	
1" diar. kingrods for 15 feet trusses. ...	5	6 7 $\frac{1}{2}$	= 33 1 $\frac{1}{2}$	$\times 2.01$	= 66.58	
1" hex. nut and bolt heads for do. ...	15	...	...	$\times 0.73$	= 10.95	
3" diar. 1" thick washers for do. ...	10	...	...	$\times 0.32$	= 3.20	
1 $\frac{1}{2}$ " $\times$ 1" heel straps for do. ...	10	2 3	= 22 6	$\times 1.87$	= 42.07	
1 $\frac{1}{2}$ " $\times$ 1" bearing plates for do. ...	10	0 6 $\frac{1}{2}$	= 5 7 $\frac{1}{2}$	$\times 1.87$	= 10.51	
4" hex. nuts for do. ...	20	...	...	.267	= 5.34	
Caps of 3" plate 6" wide	5	1 6	= 7 6	$\times 7.51$	= 56.32	
Total, lb. ...	...	...	...	...	...	310
Tiled roofing with flat and pan tiles.						
Court-house, &c.	1	61 0	...	30 0	1,830	
Gumastah's, head clerk's and judge's retiring room, &c. ...	2	46 0	...	25 0	2,300	
Verandahs	...	160 0	...	11 0	1,760	
Do.	...	80 0	...	12 6	1,000	
Square Feet ...	...	...	...	...	6,890	
Total, Squares ...	...	...	...	...	...	70

Estimate Form—Detail Measurements—cont.

Detail of work.	No.	MEASUREMENTS IN FEET.			Area or contents.	Total quantity of each description of work.
		Length.	Breadth.	Depth.		
<i>Gumastah's, Head Clerk's, Judge's retiring room, &c.</i>						
Outer walls	2	99 6	4 6	1 6	1,343	
Partitions	3	12 0	4 1 $\frac{1}{2}$	1 6	223	
Verandah	...	261 9	3 9	1 6	1,472	
Extra for posts	28	4 0	0 3	1 6	44	
Do. at corners	8	0 3	0 3	1 6		
Do. next to walls	4	0 9	0 3	1 6		
Steps	1	14 0	3 0	1 6	252	
Do.	4	10 6	3 0	1 6		
Total, Cubic Feet	...	...	...	...	...	4,668
BRICKWORK IN FOUNDATIONS.						
<i>Footings.</i>						
Court-house, record and property room.						
Outer walls	...	151 3	2 10 $\frac{1}{2}$	1 6	726	
Partitions	1	17 0	2 10 $\frac{1}{2}$	1 6		
Do.	1	21 0	2 1 $\frac{1}{2}$	1 6	67	
<i>Gumastah's, Head Clerk's, Judge's retiring room, &c.</i>						
Outer walls	2	101 6	2 6	1 6	919	
Partitions	3	14 0	2 6	1 6		
Verandah	...	267 9	1 9	1 6	703	
Extra for posts	28	2 0	0 3	1 6	23	
Do. at corners	8	0 3	0 3	1 6		
Do. next to walls	4	0 9	0 3	1 6		
<i>Above footings to ground level.</i>						
Court-house, record and property room.						
Outer walls	...	151 3	1 10 $\frac{1}{2}$	2 0	567	
Extra thickness for plinth in rear wall and ends	...	43 0	0 3	2 0	22	
Partition	1	18 0	1 10 $\frac{1}{2}$	2 0	68	
Do.	1	22 0	1 1 $\frac{1}{2}$	2 0	50	
<i>Gumastah's, Head Clerk's, Judge's retiring room, &c.</i>						
Outer walls	2	102 6	1 6	2 0	615	
Extra thickness for plinth at ends	2	18 0	0 3	2 0	18	
Partitions	3	15 0	1 1 $\frac{1}{2}$	2 0	101	
Verandah	...	270 9	0 9	2 0	406	
Extra for posts	28	1 0	0 3	2 0	17	
Do. at corners	8	0 3	0 3	2 0		
Do. next to walls	4	0 9	0 3	2 0		
Total, Cubic Feet	...	...	...	...	...	4,302
BRICKWORK IN BASEMENT.						
Court-house, record and property room.						
Outer walls	...	151 3	1 10 $\frac{1}{2}$	2 0	567	
Extra thickness for plinth in rear and ends	...	43 0	0 3	2 0	22	
Partition	1	18 0	1 10 $\frac{1}{2}$	2 0	68	
Do.	1	22 0	1 1 $\frac{1}{2}$	2 0	50	

Estimate Form—Detail Measurements—cont.

Detail of work.	No.	MEASUREMENTS IN FEET.			Area or contents.	Total quantity of each description of work.	
		Length.	Breadth.	Depth.			
<i>Gumastah's, Head Clerk's, Judge's retiring room, &c.</i>							
Outer walls	2	102 6	1 6	2 0	615	} 17 } 139 2,003	
Extra thickness for plinth at ends ...	2	18 0	0 3	2 0	18		
Partitions	3	15 0	1 1½	2 0	101		
Verandah	...	270 9	0 9	2 0	406		
Extra for posts	28	1 0	0 3	2 0	}		
Do. at corners	8	0 3	0 3	2 0			
Do. next to walls	4	0 9	0 3	2 0			
Steps	1	12 3	2 0	1 6	}		
Do.	4	8 6	2 0	1 6			139
							2,003
Deductions—						105	
Stone under-posts and for steps ...	...	...	...	...	...	1,898	
Total, Cubic Feet ...							
BRICKWORK IN SUPERSTRUCTURE.							
<i>Court-house, record and property room.</i>							
Outer wall	...	151 3	1 10½	18 6	} 5,871	} 806 } 18 11,528	
Partition	1	18 0	1 10½	18 6			
Gable	1	18 0	1 10½	3 0			101
Partition	1	22 0	1 1½	24 6			606
<i>Gumastah's, Head Clerk's, Judge's retiring room, &c.</i>							
Outer walls	2	102 6	1 6	13 5	4,126		} 806
Partitions	3	15 0	1 1½	13 5			
Gables	3	15 0	1 1½	2 6			
Dais wall	...	23 6	0 9	1 0	18		
							11,528
Deductions—							
At hip from partition in record and property room	1	9 0	1 11½	3 0	30	} 186 } 247 1,813	
Doors	9	4 0	1 10½	8 0	540		
Do.	12	4 0	1 6	8 0	576		
Do.	2	4 0	1 1½	8 0	72		
Do.	2	4 0	1 10½	6 0	90		
Windows	2	4 0	1 6	6 0	72		
Do.	9	4 0	1 10½	2 9	186		
Ventilators	...	...	...	...	247		
Archwork as per details ...	...	...	...	...	...		1,813
Total, Cubic Feet ...							9,715
<i>Archwork.</i>							
Over doors and windows	11	5 0	1 10½	1 1½	116	} 13	
Do. do.	14	5 0	1 6	1 1½	118		
Do. do.	2	5 0	1 1½	1 1½	13		
Total, Cubic Feet ...						247	
<i>Cut-stonework.</i>							
Under-posts	40	1 0	1 0	0 6	20	} 8	
Steps	...	169 0	1 0	0 6	85		
Slabs under trusses	4	2 0	1 10½	0 4	5		
Do. do.	10	1 6	1 6	0 4	8		
Total, Cubic Feet ...						118	

SUB-JUDGE OR DISTRICT MUNSIF'S COURT-HOUSE.

DESCRIPTIVE SPECIFICATION.

Foundation.—A depth of 5 feet is provided in the quantities, but this should be settled locally in accordance with the nature of the soil.

Brickwork.—The walls should be carried up in English bond-walls of central portion being $2\frac{1}{2}$ bricks thick, ends 2 bricks thick, partitions $1\frac{1}{2}$ bricks thick, verandah retaining walls 1 brick thick, except under posts, which will be half a brick thicker.

Where good bricks are obtainable the exterior of the building should be pointed.

Woodwork.—The verandah posts, trusses, doors and windows should be of teakwood, the rafters and other minor roof timbers may be of approved country wood.

Tiled roofing.—The roof will be covered with flat and pantiles; if the quality of these are good the usual unsightly "chunam bands" might be dispensed with.

All valleys should be protected with sheet lead.

Stonework.—Stone slabs $12'' \times 12'' \times 6''$ with mortice holes 2 inches square and 2 inches deep cut into them into which the verandah posts will rest. Slabs will also be placed under the bearings of trusses. The steps may also be of stone if procurable without great expense.

Flooring.—The floor may be of square bricks or stone slabs if the latter are easily procurable.

Interior finishing.—The interior will be fine plastered with shell lime or plastered and washed.

Finials.—The finials may be of copper, iron or wood.

The different kinds of work to be done will be executed in conformity with the standard specification of the Public Works Department.

(Signed) J. W. BRASSINGTON,
Offg Consulting Architect to Government.

ESTIMATE FORM—Detail Measurements.

Detail of work.	No.	MEASUREMENTS IN FEET.			Area or contents.	Total quantity of each description of work.
		Length.	Breadth.	Depth.		
EXCAVATION FOR FOUNDATIONS.						
<i>Court-house, record and property room.</i>						
Outer walls	...	151 3	4 10 $\frac{1}{2}$	5 0	} 4,052	
Partition	1	15 0	4 10 $\frac{1}{2}$	5 0		
Do.	1	19 0	4 1 $\frac{1}{2}$	5 0		392
<i>Gumastah's, Head Clerk's, Judge's retiring room, &c.</i>						
Outer walls	2	99 6	4 6	5 0		4,478
Partitions	3	12 0	4 1 $\frac{1}{2}$	5 0		743
Verandah	...	261 9	3 9	5 0		4,908
Extra for posts	28	4 0	0 3	5 0	} 146	
Do. at corners	8	0 3	0 3	5 0		
Do. next to walls	4	0 9	0 3	5 0		
Steps	1	14 0	3 0	1 6	} 252	
Do.	4	10 6	3 0	1 6		
Total, Cubic Feet ...	...	...	...	...	...	14,971
CONCRETE.						
<i>Court-house, record and property room.</i>						
Outer walls	...	151 3	4 10 $\frac{1}{2}$	1 6	} 1,216	
Partition	1	15 0	4 10 $\frac{1}{2}$	1 6		
Do.	1	19 0	4 1 $\frac{1}{2}$	1 6		118