Govt. of {1895} Madras.

LOCAL AND MUNICIPAL.

Issued

Recd. — *Encl.*

G.O., No. 1901 L., 12th Oct. 1895.

OCTOBER.

Standard Plan.

Communicating to all Local Boards and Municipal Councils and to the Municipal Commissioners of Madras, Government Order, Public Works Department, circulating to officers of the department, for information and guidance, the — of quarters for civil hospital assistants with descriptive specification and schedule of quantities.

GOVT. DEPARTMENT No. 9216

14-7-95 No 1286 W
16.6.95 .. 1385 D
29.3.95 .. 1353 C
28.3.95 .. 751 W
19.3.95 .. 661 Recd: 22.11.95
12.3.95 .. 987 C

14 S.C.

No. 3023 W, 27th Nov. 1895.

Recorded.

Copy 23/11/95

2 Copies to C.E.

No. 138 D,

Forwarded to the Public Department for the approval of Government with reference to G.O., No. 178, Public, dated 9th March 1895.

2. The papers received with Public endorsement, No. 647, dated 25th March 1895, are herewith returned.

10th May 1895. (Signed) J. PENNYCUICK, Colonel, R.E.,
Secretary to Govt., P.W.D.

Order—No. 528, Public, dated 26th June 1895.

The standard plan for quarters for civil hospital assistants and the estimate of cost are approved.

* * * * *

(True Extract.)

(Signed) C. G. TODHUNTER,
for Chief Secretary.

Order—No. 1796 W., dated 19th July 1895.

Communicated to the Consulting Architect for information and guidance

2. The standard plan of quarters for civil hospital assistants with descriptive specification and schedule of quantities will be circulated to officers of the department for information and guidance.

(True Extract.)

(Signed) F. D. FOWLER,
Under Secy. to Govt., P.W.D.

Order—No. 1901 L., Local and Municipal, dated 12th October 1895.

Communicated to all Local Boards and Municipal Councils and to the Municipal Commissioners of Madras.

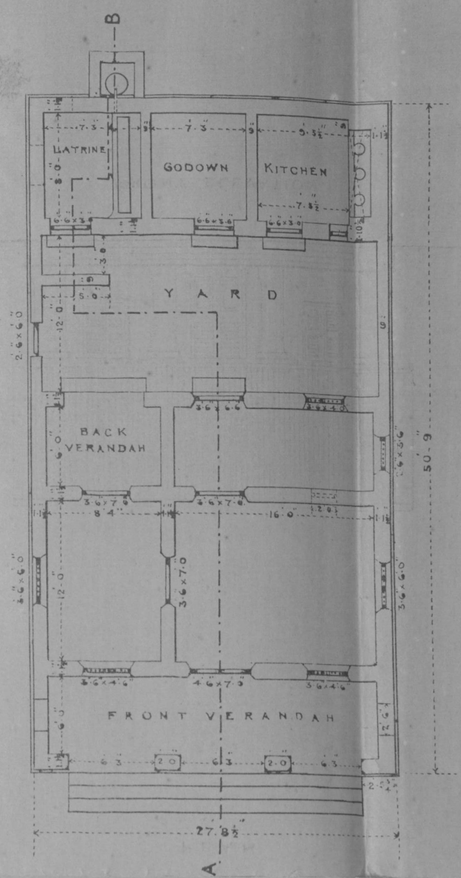
(True Extract.)

W. D. Fowler
for *Chief Secretary.*

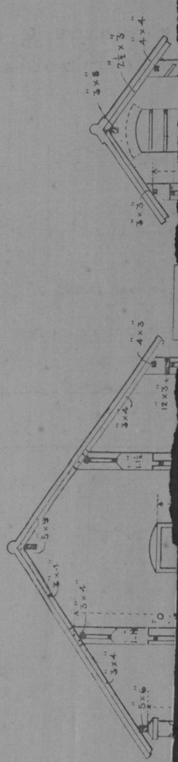
To all Presidents of District Boards.
„ all Chairmen of Municipal Councils.
„ all Collectors.
„ the President, Municipal Commission, Madras.
„ the Accountant-General.
„ the Surgeon-General.
„ the Sanitary Commissioner.
„ the Sanitary Engineer.
„ the Public Works Department.

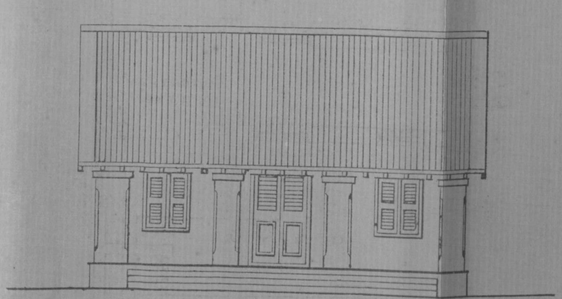
Exd. A. Raitt.

TYPE DESIGN OF QUARTERS FOR CIVIL HOSPITAL ASSISTA

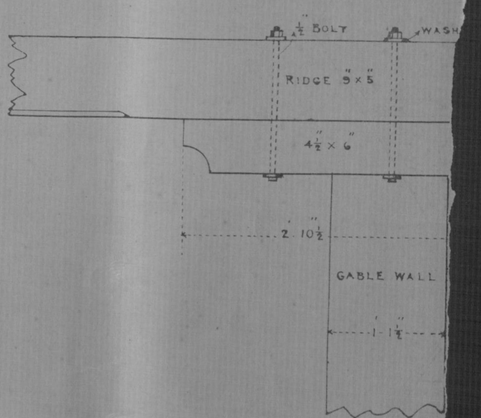


PLAN





FRONT ELEVATION.



DETAIL OF RIDGE OVER G
½ ACTUAL S

SCALE 8=1'.

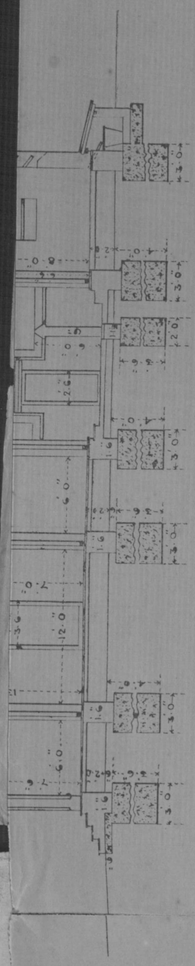
10 5 0 10 20 30 40 FEET.

Supt Technical Section
Chief Engineers Office P.W.D.

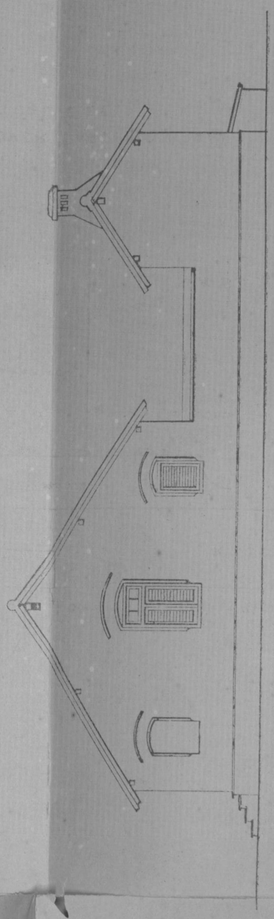
Reg: No. 2292
Copies 300 + 680

ACCOMPANIMENT TO G.O. No. 1796, W DATED 19TH JULY 1895. No.

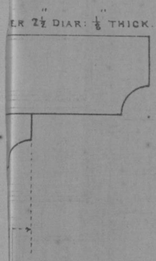
NTS.

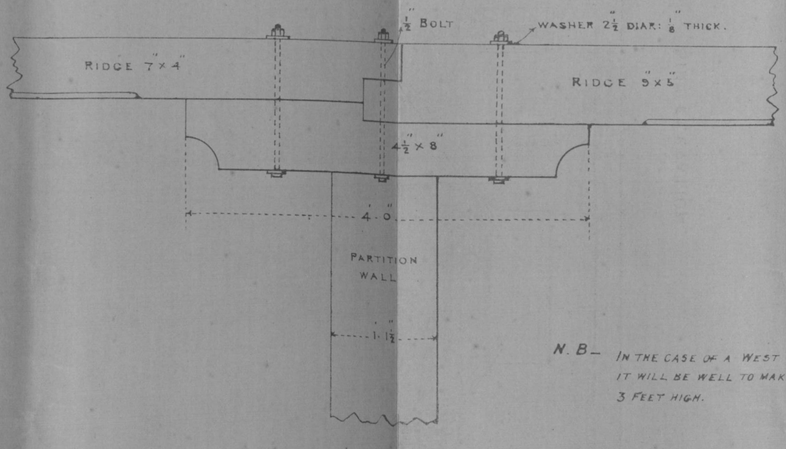


SECTION ON A.B.



SIDE ELEVATION.





N.B.— IN THE CASE OF A WEST COAST BUILDING, IT WILL BE WELL TO MAKE THE BASEMENT 3 FEET HIGH.

BLE WALL
ZE.

DETAIL OF RIDGE OVER PARTITION WALL.
½ ACTUAL SIZE.

(Signed) H. Irwin C.I.E.
Consulting Architect to Govt
10th April 1895.

(Signed) C.H.B. Burlton
Dy: Chief Engineer P.W.D.

Litho Survey Office, Madras.
1895

No. 1901 L., Local and Municipal, 12th October 1895.

GOVERNMENT OF MADRAS.

LOCAL AND MUNICIPAL DEPARTMENT.

Read—the following paper :—

G.O., No. 1796 W., dated 19th July 1895.

Read—the following paper :—

G.O., No. 528, Public, dated 26th June 1895.

* * * * *

Read—the following letter from H. IRWIN, Esq., C.I.E., Consulting Architect to Government, to the Chief Engineer, Public Works Department, dated Chepauk, 10th April 1895, No. 174 :—

With reference to G.O., No. 661 W., dated the 19th March 1895, I have the honour to submit a standard plan of quarters for hospital assistants in civil employ with descriptive specification and schedule of quantities.

Enclosures.

Standard design for quarters for hospital assistants in civil employ, with tiled roofing, according to drawing signed by the Consulting Architect on 10th April 1895.

Descriptive Specification.

Foundation.—A depth of 4 feet is provided in the quantities, but this should be settled locally in accordance with the nature of the soil.

Walling.—The walls should be carried up in English bond according to the various thicknesses shown on the drawing, 1 brick and 1½ bricks thick.

Woodwork.—The doors and windows and roof-timbers to be of well-seasoned Burma teak ; the rafters and minor roof-timbers may be of approved country wood, proof against white ants.

Roofing.—The roof will be covered with flat and pan tiles. If Mangalore tiles are used, the rafters may be spaced about 2′ 6″ centre to centre and the three rooms ceiled with ½″ teak planking screwed to the bottom of rafters and overlapping one inch at joints.

Flooring.—To consist of a bed of concrete 4 inches thick. The rooms and verandah of the main building will be paved with Cuddapah slabs or 8 inch square bricks and the out-buildings plastered with portland cement ½ inch thick. Cuddapah slabs will be laid on the walls at basement level as a damp course. Where the soil is damp the space beneath the floor should be filled with river sand.

Interior and exterior finishing.—The interior walls will be plastered and polished, or plastered and white-washed. Where good bricks or stone is available the exterior should be pointed. The doors and windows and exposed woodwork of roof to be painted with three coats oak-paint and the roof-timbers stained with three coats wood-oil.

Estimate Form—Detail Measurements.

Detail of work.	No.	Measurements in feet.			Area or contents.	Total quantity of each description of work.
		Length.	Breadth.	Depth.		
1	2	3	4	5	6	7
Excavation for foundation.		FT. IN.	FT. IN.	FT. IN.	C. FT.	C. FT.
Outer walls of main rooms	..	79 5				
Partition	1	10 1½				
Verandah and verandah rooms	2	37 10				
Do. partition	1	4 1½				
Outer walls of out-houses	..	71 5				
		240 9	3 0	4 0	2,889	
Outer walls of partitions	2	6 1½				
Walls enclosing yard	2	10 1½				
Screen wall	1	5 0				
		37 6	2 0	4 0	300	
Sides of fire-place in kitchen	2	0 9	1 9	4 0	11	
Entrance step	1	22 9	3 0	0 6	34	
Cistern	1	3 0	5 0	2 0	30	
Total ..	..	..	..	..	..	3,264

Estimate Form—Detail Measurements—*cont.*

Detail of work.	No.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1	2	3	4	5	6	7
Concrete.		FT. IN.	FT. IN.	FT. IN.	C. FT.	C. FT.
Outer walls of main room		79 5				
Partitions		10 1½				
Verandah and verandah rooms	2	37 10				
Do. partition		4 1½				
Outer walls of out-houses		71 5				
		240 9	3 0	3 6	2,528	
Outer walls of partitions	2	6 1½				
Walls enclosing yard	2	10 1½				
Screen wall	1	5 0				
		37 6	2 0	3 6	263	
Sides of fire-place in kitchen	2	0 9	1 9	3 6	9	
Entrance steps	1	22 9	3 0	0 6	34	
Cistern	1	3 0	5 0	1 0	15	
Total						2,849
Brick work in foundations and basement.						
Outer walls of main rooms		79 5				
Partition do.	1	11 7½				
Verandah and verandah rooms	2	39 4				
Do. partition	1	5 7½				
Outer walls of out-houses		71 5				
		246 9	1 6	2 6	925	
Partitions of out-houses	2	7 7½	1 1½	2 6	43	
Walls enclosing yard	2	11 7½				
Screen wall	1	5 0				
		28 3	1 1½	1 6	48	
Sides of fire-place in kitchen	2	0 9	1 9	2 6	7	
Entrance steps		22 9	3 0	1 0	68	
Steps in yard	1	6 3				
Do.	1	4 0				
Do.	3	3 6				
		20 9	1 0	0 6	10	
Cistern floor	1	4 0	2 6	0 6	5	
Do. walls	2	3 5¼	0 6	2 6	9	
Do. do.	1	3 0	0 6	2 3	3	
Total						1,118
Brick work in superstructure.						
Main rooms outer walls		79 5				
Do. partition	1	12 0				
		91 5	1 1½	13 0	1,337	
Gables	3	12 0	1 1½	2 0	81	
Verandah piers	2	2 0	1 1½	7 0	71	
Do. at ends	2	2 6				
Do. heads	2	2 4½	1 6	0 6	8	
Do. at ends	2	2 10½	1 6	0 6		
Verandah ends and partitions	5	6 0	1 1½	11 0	371	
Back verandah wall	1	27 8½	1 1½	8 0	964	
Outer walls of out-houses		71 5	1 1½	8 0		
Fire-place wall	1	8 0	1 1½	8 0		
Do. gables	3	8 0	1 1½	1 4	36	
Partitions	2	8 0	0 9	8 0	96	
Gables	2	8 0	0 9	1 4	16	
Latrine seat	1	7 0	0 9	0 9	4	
Walls enclosing yard	2	12 0	0 9	4 3	92	
Screen wall	1	5 0	0 9	4 3		
Do. at door-way	1	4 0	0 9	2 0	6	

Estimate Form—Detail Measurements—*cont.*

Detail of work.	No.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1	2	3	4	5	6	7
Brick work in superstructure—cont.		FT. IN.	FT. IN.	FT. IN.	C. FT.	C. FT.
Coping for enclosure wall	1	12 0	1 1½	0 9		
Do. do.	1	16 0	1 1½	0 9	28	
Do. do.	1	5 0	1 1½	0 9		
Chimney	1	2 0	3 0	2 6	15	
Do.	1	2 0	2 0	1 6	6	
Do.	1	2 6	2 6	0 9	5	
						3,136
Deductions.						
Entrance door	1	4 6	1 1½	7 0	35	
Doors	3	3 6	1 1½	7 0	83	
Do.	1	3 6	1 1½	6 6		
Windows	2	3 6	1 1½	4 6	61	
Do.	2	3 6	1 1½	6 0		
Do.	1	3 6	1 1½	4 0	63	
Do. and verandah openings	3	2 6	1 1½	3 6	30	
Ventilators	6	2 0	1 1½	2 0	27	
Opening in back verandah	1	6 0	1 1½	8 0	54	
Door in wall enclosing yard	1	2 6	0 9	6 0	11	
Do. in out-houses	3	3 0	1 1½	6 6	66	
Windows in out-houses	1	1 6	1 1½	4 0	7	
Ventilators in latrine	2	3 0	1 1½	4 6	30	
Kitchen archway, square portion	1	6 6	1 1½	1 6	11	
Do. semi-circular do.	1	16 6	Area.	1 1½	19	
Archwork as per details					100	
Total						597
						2,539
Archwork.						
Over entrance door	1	5 6				
Over doors and windows	7	4 6				
Over windows and verandah openings	3	3 6				
Over out-house doors and latrine openings	4	4 0				
Over kitchen window	1	2 6				
Kitchen arch	1	13 0				
Total		79 0	1 1½	1 1½	100	
						100
Earth filling in basement.						
Main rooms		23 7	11 7½	1 6	411	
Do. and back verandah		23 7	5 7½	1 6	199	
Front verandah		25 1	5 7½	1 6	212	
Yard		25 10	11 7½	0 6	150	
Out-houses		21 3	7 7½	1 6	243	
Total						1,215
Teak wood wrought and put up.						
Ridge beam for large room	1	19 3	0 5	0 9	6	
Do. for small room	1	11 7	0 4	0 7	2	
Pieces under ridge over cross wall	1	4 0	0 4½	0 8	1	
Do. at gables	2	2 10½	0 4½	0 6	1	
Wall plates	2	31 0	0 4	0 3	5	
Rafters for main rooms	42	8 9	0 3	0 4	31	
Front verandah bressummers, including halving over piers	1	31 3	0 5	0 6		
Back verandah bressummers, including halving over piers	1	11 6	0 5	0 6	9	
Back wall plate	1	19 3	0 4	0 3	2	
Rafters	42	11 0	0 3	0 4	39	
Lintels over doors and windows in verandah room	2	5 0	1 0	0 3	3	
Lintels over door in wall	1	4 0	0 8	0 2½	1	
Out-houses ridge	1	31 0	0 3	0 8	5	
Do. wall plate	1	22 6	0 3	0 3	3	
Do. do.	1	31 0	0 3	0 3		
Do. do. over latrine opening	1	9 0	0 4	0 4	1	
Do. rafters	42	8 0	0 2½	0 3	18	
Total						127

Estimate Form—Detail Measurements—*cont.*

Detail of work.	No.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1	2	3	4	5	6	7
Wrought iron in bolts, &c.		FT. IN.	FT. IN.	lb.	lb.	lb.
Half-inch diameter bolts for securing ridges	7	1 4	9 4	66	6·16	
Half-inch hex nut and heads	7			·128	·89	
Washers, 2½" diameter, ⅛" thick	14			·15	2·10	
Total	..	..	..	..	..	9·15
Venetian and panel doors.				FT. IN.	SQ. FT.	SQ. FT.
Entrance door	1	4 0	..	6 6	26	
Door opening into back verandah	1	3 0	..	6 6	20	
Do. in verandah room	1	3 0	..	6 0	18	
Total	..	..	..	..	..	64
Panel doors	2	3 0	..	6 6	39	
Total	..	..	..	..	..	39
Batten doors and windows with single shutters and strap hinges.						
For out-houses	3	2 6	..	6 0	45	
Wall	1	2 0	..	5 6	11	
Window in kitchen	1	1 0	..	3 6	4	
Total	..	..	..	..	..	60
Venetian windows with iron bars.						
In front verandah	2	3 0	..	4 0	24	
In ends of building with glass above	2	3 0	..	5 6	33	
In verandah room	1	3 0	..	3 6	11	
Do. single shutters	1	2 0	..	3 0	6	
Total	..	..	..	..	..	74
Batten shutters for cistern including frame	1	4 0	..	4 6	18	
Total	..	..	..	..	..	18
Ventilators consisting of teak frames 2" × 1" screwed together with ¾" mesh galvanized wire-netting between.						
Four in large and two in small rooms	6	2 6	..	2 0	30	
Total	..	..	..	..	..	30
Cuddapah slab venetians for latrines	7	4 0	..	1 0	28	
Total	..	..	..	..	..	28
Roofing with flat and pan tiles, including teak reepers.						
Main building	1	31 0	..	37 0	1,147	
Out-houses	1	31 0	..	16 9	519	
Total	..	..	..	..	..	1,666
Laying concrete for floors 4" thick consolidated.						
Rooms	..	23 7	..	11 7½	274	
Do.	..	23 7	..	5 7½	274	
	..	25 1	..	5 7½		
Yard	..	25 10	..	11 7½	300	
Out-houses	..	21 3	..	7 7½	162	
Total	..	..	..	..	..	1,010
Laying Cuddapah slabs for floor, including damp course over plinth.						
Main building including walls	..	28 0	..	29 0	812	
Out-houses walls	..	72 0	..	1 8	120	
Walls in court yards	2	12 0	..	1 3		
Screen wall of latrine	1	5 0	..	1 3		
Steps	3	23 0	..	1 3	149	
Do.	1	6 6	..	1 3		
Do.	1	4 3	..	1 3		
Do.	3	3 6	..	1 3		
Total	..	..	..	..	..	1,081

Note.—Doors and windows are taken according to appendix G standard specification.

Estimate Form—Detail Measurements—*cont.*

Detail of work.	No.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1	2	3	4	5	6	7
Plastering with Portland Cement ½" thick.		FT. IN.	FT. IN.	FT. IN.	SQ. FT.	SQ. FT.
Out-houses floor	..	24 0	..	8 0	192	
Cistern inside	1	10 0	..	2 9	28	
Do. floor	1	2 6	..	2 6	6	
Do. sides	2	3 3	..	2 6	16	
Do. rear end	1	4 0	..	2 0	8	
Door pieces	3	3 0	..	0 9	18	
Sides of latrine seat	..	15 6	..	0 9		
Exterior plinth, main building	..	89 7	..	2 0	179	
Do. in rear	..	25 10	..	1 0	26	
Walls of court-yard, outer	2	12 0	..	2 0	48	
Do. do. inside	2	12 0	..	1 0	24	
Screen wall	1	10 9	..	1 0	11	
Out-houses, inner face	1	25 10	..	1 0	26	
Do. outer and sides	1	49 4	..	2 0	99	
Total	..	..	..	..	..	681
Plastering interior, two coats.						
Room, large	1	56 0				
Do. small	1	40 8				
		96 8	..	13 0	1,257	
Do. in rear verandah	1	44 0	..	11 0	484	
Gables	4	12 0	..	2 0	96	
Out-houses, godown and latrine	2	30 6	..	8 0	843	
Do. kitchen	..	44 5	..	8 0		
Kitchen arch soffits	..	13 6	..	1 1½	15	
Gables	6	8 0	..	1 4	64	
Top of chimney	1	2 6	..	2 0	5	
Coping of court-yard wall	1	35 0	..	2 6	88	
Sides and soffits of doors	1	18 6	..			
Do. do.	3	17 6				
Do. do.	1	13 0				
Do. windows	2	16 0				
Do. do.	2	19 0				
Do. do.	1	11 6				
Do. do.	1	12 0				
Do. ventilators	6	6 6				
		216 6	..	0 9	162	
Out-houses doors	3	16 0	..	0 9	36	
Do. windows	1	11 0	..	0 9	8	
						3,058
Deductions.						
Entrance door	1	4 6	..	7 0	154	
Doors	5	3 6	..	7 0		
Do.	1	3 6	..	6 6	23	
Windows	2	3 6	..	4 6	32	
Do.	2	3 6	..	6 0	42	
Do.	1	3 6	..	4 0	14	
Do.	1	2 6	..	3 6	9	
Ventilators	8	2 6	..	2 0	40	
Out-houses doors	3	3 0	..	6 6	59	
Window	1	1 6	..	4 0	6	
Latrine ventilators	2	3 0	..	4 6	27	
						406
Total	..	..	..	..	..	2,652
Pointing exterior.						
Piers in verandah	2	6 3	..	7 6	169	
Do. at ends	2	5 0	..	7 6		
Front verandah	1	25 5½	..	13 0	331	
Do. ends	2	6 0	..	11 0	132	
Back verandah	1	8 4	..	13 0	108	
Do. at opening	1	4 7	..	7 6	34	
Do. ends	2	6 0	..	11 0	132	
Sides of building, including gable	2	28 6	..	12 0	684	
Back of do.	1	21 8½	..	8 0	174	
Walls of court-yard	2	12 0	..	10 0	240	
Do. above doorway	2	4 0	..	2 6	20	
Screen wall	1	10 9	..	5 0	54	

Estimate Form—Detail Measurements—*cont.*

Detail of work.	No.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1	2	3	4	5	6	7
Pointing exterior—cont.		FT. IN.	FT. IN.	FT. IN.	SQ. FT.	SQ. FT.
Out-houses sides	2	27 8½	..	8 0	443	
Out ends including gables	2	10 3	..	9 9	200	
Latrine ventilators, sides and soffits	1	15 0	..	1 1½	30	
Do. do.	1	12 0	..	1 1½		
Chimney	1	9 0	..	3 0	27	
Deductions.						2,778
Doors	1	4 6	..	7 0	56	
Do.	1	3 6	..	7 0		
Windows	1	3 6	..	6 6	23	
Do.	2	3 6	..	4 6	32	
Do.	2	3 6	..	6 0	42	
Do. and verandah openings	1	3 6	..	4 0	14	
Ventilators	5	2 6	..	3 6	44	
Out-house doors	4	2 6	..	2 0	20	
Do. door in court-yard	3	3 0	..	6 6	59	
Do. window	2	2 6	..	6 0	30	
Do. ventilators in latrine	1	1 6	..	4 0	6	
	2	3 0	..	4 6	27	
Total ..	..	..	..	..	..	353
Painting doors and windows and exposed wood work in roof, three coats						2,425
Wood-oiling roof-timbers, three coats						800
Latrine bucket with handle complete						1,600
						No. 1

Estimate form—Abstract.

Quantity.	Description of work.	Rate.	Per	Amount.	Total.
1	2	3	4	5	6
		RS. A. P.		RS.	RS.
3,264 c. ft. ..	Excavation for foundation	4 10 0	1,000 c. ft.	15	
2,849 „ ..	Concrete in foundation with broken vitrified bricks	14 0 0	100 „	399	
1,118 „ ..	Brick work in chunam for foundation and basement	19 8 0	100 „	218	
2,539 „ ..	Brick work in chunam for superstructure ..	20 0 0	100 „	507	
100 „ ..	Arch work in chunam	23 8 0	100 „	24	
1,215 „ ..	Earth filling in basement	5 0 0	1,000 „	6	
127 „ ..	Teak wood wrought and put up	3 8 0	c. foot.	445	
9·15 lb. ..	Wrought iron in bolts	0 3 0	lb.	2	
64 sq. ft.	Teak wood panel and venetian doors with frames and all fastenings complete	1 1 0	sq. foot.	68	
39 „ ..	Do. panel doors	0 14 0	Do.	34	
60 „ ..	Do. batten doors with single shutters and strap hinges including frames ..	0 15 0	Do.	56	
74 „ ..	Venetian windows with iron bars and frames complete	1 12 0	Do.	130	
30 „ ..	Ventilator frames with ¾″ mesh galvanized iron wire-netting	0 6 0	Do.	11	
18 „ ..	Shutter for latrine cistern with frames complete ..	1 14 0	Do.	34	
28 „ ..	Cuddapah slab ventilators for latrine ..	0 3 0	Do.	5	
1,666 „ ..	Roofing with flat and pan tiles, including 2″ × ½″ teak reepers	14 0 0	100 sq. ft.	233	
1,010 „ ..	Laying concrete for floor 4″ thick	5 0 0	100 „	51	
1,081 „ ..	Cuddapah slabs for floor	17 0 0	100 „	184	
681 „ ..	Plastering with Portland cement ½″ thick ..	6 8 0	100 „	44	
2,652 „ ..	Plastering with chunam, two coats ..	2 8 0	100 „	66	
2,425 „ ..	Pointing exterior	3 0 0	100 „	73	
800 „ ..	Painting doors and windows, &c., with three coats oak-paint	2 12 0	100 „	22	
1,600 „ ..	Wood-oiling roof-timbers, three coats	0 15 0	100 „	15	
1 in number.	Bucket with handle complete	12 0 0	each	12	
	Petty supervision at 2½ per cent.	..	..	65	2,654
	Contingencies at 5 per cent.	..	..	131	196
			Grand total of estimate ..		2,850

Govt. of {1895} Madras.

LOCAL AND MUNICIPAL.

Issued

Recd. *Encl.*

G.O., No. 1901 L., 12th Oct. 1895.

OCTOBER.

Standard Plan.

Communicating to all Local Boards and Municipal Councils and to the Municipal Commissioners of Madras, Government Order, Public Works Department, circulating to officers of the department, for information and guidance, the — of quarters for civil hospital assistants with descriptive specification and schedule of quantities.

No. 3023 W. dt. 27th Nov. 1895

Received

(W. J. O.

No. 138 D.

Forwarded to the Public Department for the approval of Government with reference to G.O., No. 178, Public, dated 9th March 1895.

2. The papers received with Public endorsement, No. 647, dated 25th March 1895, are herewith returned.

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

10th May 1895.

Order—No. 528, Public, dated 26th June 1895.

The standard plan for quarters for civil hospital assistants and the estimate of cost are approved.

* * * * *

(True Extract.)

(Signed) C. G. TODHUNTER,
for Chief Secretary.

Order—No. 1796 W., dated 19th July 1895.

Communicated to the Consulting Architect for information and guidance

2. The standard plan of quarters for civil hospital assistants with descriptive specification and schedule of quantities will be circulated to officers of the department for information and guidance.

(True Extract.)

(Signed) F. D. FOWLER,
Under Secy. to Govt., P.W.D.

Order—No. 1901 L., Local and Municipal, dated 12th October 1895.

Communicated to all Local Boards and Municipal Councils and to the Municipal Commissioners of Madras.

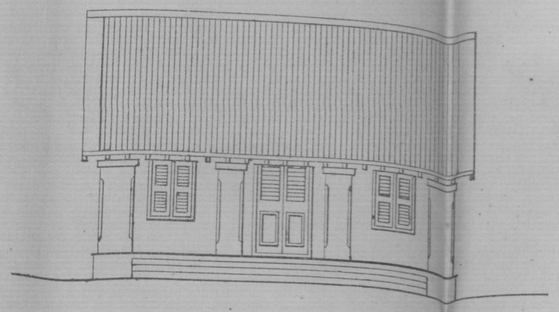
(True Extract.)

J. F. PRICE,
Chief Secretary.

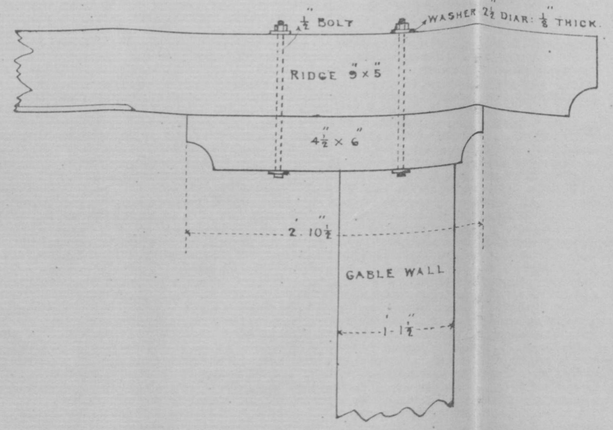
To all Presidents of District Boards.
„ all Chairmen of Municipal Councils.
„ all Collectors.
„ the President, Municipal Commission, Madras.
„ the Accountant-General.
„ the Surgeon-General.
„ the Sanitary Commissioner.
„ the Sanitary Engineer.
„ the Public Works Department.

Exd. A. Raitt.

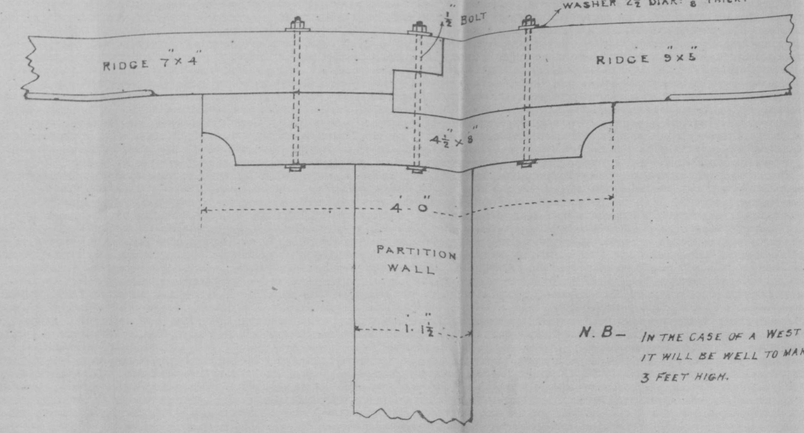
PLAN



FRONT ELEVATION.



DETAIL OF RIDGE OVER GABLE WALL
1/12 ACTUAL SIZE.



DETAIL OF RIDGE OVER PARTITION WALL.
1/12 ACTUAL SIZE.

N. B— In the case of a West Coast Build
it will be well to make the basem
3 feet high.

SCALE 8=1'.

10' 5' 0 10' 20' 30' 40 FEET.

Supt Technical Section
Chief Engineers Office P.W.D.

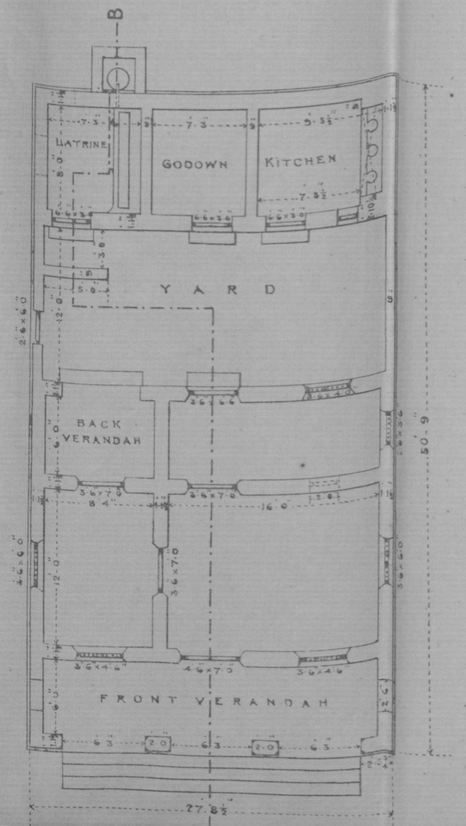
(Signed) H. Irwin C.I.E.
Consulting Architect to Govt
10th April 1895.

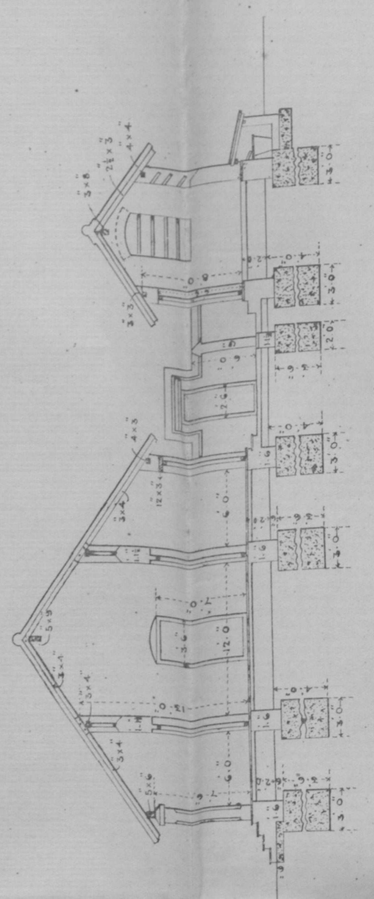
(Signed) C.H.B. Burldon
Dy: Chief Engineer P.

ACCOMPANIMENT TO G.O. No. 1796, W DATED 19TH JULY 1895.

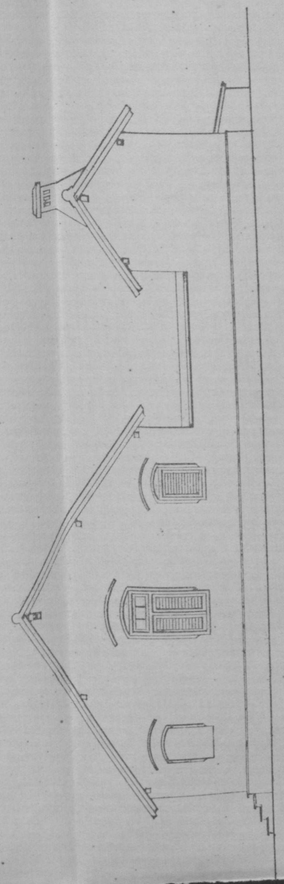
No

TYPE DESIGN OF QUARTERS FOR CIVIL HOSPITAL ASSISTANTS.





SECTION ON A. B.



SIDE ELEVATION.

Estimate Form—Detail Measurements—*cont.*

Detail of work.	No.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1	2	3	4	5	6	7
Pointing exterior—cont.		FT. IN.	FT. IN.	FT. IN.	SQ. FT.	SQ. FT.
Out-houses sides	2	27 8½	..	8 0	443	
Out ends including gables	2	10 3	..	9 9	200	
Latrine ventilators, sides and soffits	1	15 0	..	1 1½	30	
Do. do.	1	12 0	..	1 1½		
Chimney	1	9 0	..	3 0	27	
						2,778
Deductions.						
Doors	1	4 6	..	7 0	56	
Do.	1	3 6	..	7 0		
Do.	1	3 6	..	6 6	23	
Windows	2	3 6	..	4 6	32	
Do.	2	3 6	..	6 0	42	
Do.	1	3 6	..	4 0	14	
Do. and verandah openings	5	2 6	..	3 6	44	
Ventilators	4	2 6	..	2 0	20	
Out-house doors	3	3 0	..	6 6	59	
Do. door in court-yard	2	2 6	..	6 0	30	
Do. window	1	1 6	..	4 0	6	
Do. ventilators in latrine	2	3 0	..	4 6	27	
						353
Total	..	..	..	..	..	2,425
Painting doors and windows and exposed wood work in roof, three coats			..	..	..	800
Wood-oiling roof-timbers, three coats			..	..	..	1,600
Latrine bucket with handle complete			..	..	..	No. 1

Estimate form—Abstract.

Quantity.	Description of work.	Rate.	Per	Amount.	Total.
1	2	3	4	5	6
		RS. A. P.		RS.	RS.
3,264 c. ft.	Excavation for foundation	4 10 0	1,000 c. ft.	15	
2,849 „	Concrete in foundation with broken vitrified bricks	14 0 0	100 „	399	
1,118 „	Brick work in chunam for foundation and basement	19 8 0	100 „	218	
2,539 „	Brick work in chunam for superstructure	20 0 0	100 „	507	
100 „	Arch work in chunam	23 8 0	100 „	24	
1,215 „	Earth filling in basement	5 0 0	1,000 „	6	
127 „	Teak wood wrought and put up	3 8 0	c. foot.	445	
9·15 lb.	Wrought iron in bolts	0 3 0	lb.	2	
64 sq. ft.	Teak wood panel and venetian doors with frames and all fastenings complete	1 1 0	sq. foot.	68	
39 „	Do. panel doors	0 14 0	Do.	34	
60 „	Do. batten doors with single shutters and strap hinges including frames	0 15 0	Do.	56	
74 „	Venetian windows with iron bars and frames complete	1 12 0	Do.	130	
30 „	Ventilator frames with ¾″ mesh galvanized iron wire-netting	0 6 0	Do.	11	
18 „	Shutter for latrine cistern with frames complete	1 14 0	Do.	34	
28 „	Cuddapah slab ventilators for latrine	0 3 0	Do.	5	
1,666 „	Roofing with flat and pan tiles, including 2″ × ½″ teak reepers	14 0 0	100 sq. ft.	233	
1,010 „	Laying concrete for floor 4″ thick	5 0 0	100 „	51	
1,081 „	Cuddapah slabs for floor	17 0 0	100 „	184	
681 „	Plastering with Portland cement ½″ thick	6 8 0	100 „	44	
2,652 „	Plastering with chunam, two coats	2 8 0	100 „	66	
2,425 „	Pointing exterior	3 0 0	100 „	73	
800 „	Painting doors and windows, &c., with three coats oil-paint	2 12 0	100 „	22	
1,600 „	Wood-oiling roof-timbers, three coats	0 15 0	100 „	15	
1 in number.	Bucket with handle complete	12 0 0	each	12	
					2,654
	Petty supervision at 2½ per cent.	..	..	65	
	Contingencies at 5 per cent.	..	..	131	
					196
			Grand total of estimate ..		2,850

GOVERNMENT OF MADRAS.

LOCAL AND MUNICIPAL DEPARTMENT.

Read—the following paper :—

G.O., No. 1796 W., dated 19th July 1895.

Read—the following paper :—

G.O., No. 528, Public, dated 26th June 1895.

* * * * *

Read—the following letter from H. IRWIN, Esq., C.I.E., Consulting Architect to Government, to the Chief Engineer, Public Works Department, dated Chepauk, 10th April 1895, No. 174 :—

With reference to G.O., No. 661 W., dated the 19th March 1895, I have the honour to submit a standard plan of quarters for hospital assistants in civil employ with descriptive specification and schedule of quantities.

Enclosures.

Standard design for quarters for hospital assistants in civil employ, with tiled roofing, according to drawing signed by the Consulting Architect on 10th April 1895.

Descriptive Specification.

Foundation.—A depth of 4 feet is provided in the quantities, but this should be settled locally in accordance with the nature of the soil.

Walling.—The walls should be carried up in English bond according to the various thicknesses shown on the drawing, 1 brick and 1½ bricks thick.

Woodwork.—The doors and windows and roof-timbers to be of well-seasoned Burma teak ; the rafters and minor roof-timbers may be of approved country wood, proof against white ants.

Roofing.—The roof will be covered with flat and pan tiles. If Mangalore tiles are used, the rafters may be spaced about 2′ 6″ centre to centre and the three rooms ceiled with ½″ teak planking screwed to the bottom of rafters and overlapping one inch at joints.

Flooring.—To consist of a bed of concrete 4 inches thick. The rooms and verandah of the main building will be paved with Cuddapah slabs or 8 inch square bricks and the out-buildings plastered with portland cement ½ inch thick. Cuddapah slabs will be laid on the walls at basement level as a damp course. Where the soil is damp the space beneath the floor should be filled with river sand.

Interior and exterior finishing.—The interior walls will be plastered and polished, or plastered and white-washed. Where good bricks or stone is available the exterior should be pointed. The doors and windows and exposed woodwork of roof to be painted with three coats oak-paint and the roof-timbers stained with three coats wood-oil.

Estimate Form—Detail Measurements.

Detail of work.	No.	Measurements in feet.			Area or contents.	Total quantity of each description of work.
		Length.	Breadth.	Depth.		
1	2	3	4	5	6	7
		FT. IN.	FT. IN.	FT. IN.	C. FT.	C. FT.
Excavation for foundation.		79 5				
Outer walls of main rooms	1	10 1½				
Partition	2	37 10				
Verandah and verandah rooms	1	4 1½				
Do. partition	..	71 5				
Outer walls of out-houses	..	240 9	3 0	4 0	2,889	
	2	6 1½				
Outer walls of partitions	2	10 1½				
Walls enclosing yard	1	5 0				
Screen wall	..	37 6	2 0	4 0	300	
	2	0 9	1 9	4 0	11	
Sides of fire-place in kitchen	1	22 9	3 0	0 6	34	
Entrance step	1	3 0	5 0	2 0	30	
Cistern						
Total ..	..	..	..	..	..	3,264

Estimate Form—Detail Measurements—*cont.*

Detail of work.	No.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1	2	3	4	5	6	7
Pointing exterior—cont.		FT. IN.	FT. IN.	FT. IN.	SQ. FT.	SQ. FT.
Out-houses sides	2	27 8½	..	8 0	443	
Out ends including gables	2	10 3	..	9 9	200	
Latrine ventilators, sides and soffits	1	15 0	..	1 1½	30	
Do. do.	1	12 0	..	1 1½		
Chimney	1	9 0	..	3 0	27	
						2,778
Deductions.						
Doors	1	4 6	..	7 0	56	
Do.	1	3 6	..	7 0		
Do.	1	3 6	..	6 6	23	
Windows	2	3 6	..	4 6	32	
Do.	2	3 6	..	6 0	42	
Do.	1	3 6	..	4 0	14	
Do. and verandah openings	5	2 6	..	3 6	44	
Ventilators	4	2 6	..	2 0	20	
Out-house doors	3	3 0	..	6 6	59	
Do. door in court-yard	2	2 6	..	6 0	30	
Do. window	1	1 6	..	4 0	6	
Do. ventilators in latrine	2	3 0	..	4 6	27	
						353
Total	..	..	..	..	..	2,425
Painting doors and windows and exposed wood work in roof, three coats			..	..	..	800
Wood-oiling roof-timbers, three coats			..	..	..	1,600
Latrine bucket with handle complete			..	..	..	No. 1

Estimate form—Abstract.

Quantity.	Description of work.	Rate.	Per	Amount.	Total.
1	2	3	4	5	6
		RS. A. P.		RS.	RS.
3,264 c. ft.	Excavation for foundation	4 10 0	1,000 c. ft.	15	
2,849 „	Concrete in foundation with broken vitrified bricks	14 0 0	100 „	399	
1,118 „	Brick work in chunam for foundation and basement	19 8 0	100 „	218	
2,539 „	Brick work in chunam for superstructure	20 0 0	100 „	507	
100 „	Arch work in chunam	23 8 0	100 „	24	
1,215 „	Earth filling in basement	5 0 0	1,000 „	6	
127 „	Teak wood wrought and put up	3 8 0	c. foot.	445	
9·15 lb.	Wrought iron in bolts	0 3 0	lb.	2	
64 sq. ft.	Teak wood panel and venetian doors with frames and all fastenings complete	1 1 0	sq. foot.	68	
39 „	Do. panel doors	0 14 0	Do.	34	
60 „	Do. batten doors with single shutters and strap hinges including frames	0 15 0	Do.	56	
74 „	Venetian windows with iron bars and frames complete	1 12 0	Do.	130	
30 „	Ventilator frames with ⅜″ mesh galvanized iron wire-netting	0 6 0	Do.	11	
18 „	Shutter for latrine cistern with frames complete	1 14 0	Do.	34	
28 „	Cuddapah slab ventilators for latrine	0 3 0	Do.	5	
1,666 „	Roofing with flat and pan tiles, including 2″ × ¾″ teak reepers	14 0 0	100 sq. ft.	233	
1,010 „	Laying concrete for floor 4″ thick	5 0 0	100 „	51	
1,081 „	Cuddapah slabs for floor	17 0 0	100 „	184	
681 „	Plastering with Portland cement ½″ thick	6 8 0	100 „	44	
2,652 „	Plastering with chunam, two coats	2 8 0	100 „	66	
2,425 „	Pointing exterior	3 0 0	100 „	73	
800 „	Painting doors and windows, &c., with three coats oak-paint	2 12 0	100 „	22	
1,600 „	Wood-oiling roof-timbers, three coats	0 15 0	100 „	15	
1 in number.	Bucket with handle complete	12 0 0	each	12	
					2,654
	Petty supervision at 2½ per cent.	..	..	65	
	Contingencies at 5 per cent.	..	..	131	
					196
			Grand total of estimate ..		2,850

Estimate Form—Detail Measurements—*cont.*

Detail of work.	No.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1	2	3	4	5	6	7
Concrete.		FT. IN.	FT. IN.	FT. IN.	C. FT.	C. FT.
Outer walls of main room		79 5				
Partitions		10 1½				
Verandah and verandah rooms	2	37 10				
Do. partition		4 1½				
Outer walls of out-houses		71 5				
		240 9	3 0	3 6	2,528	
Outer walls of partitions	2	6 1½				
Walls enclosing yard	2	10 1½				
Screen wall	1	5 0				
		37 6	2 0	3 6	263	
Sides of fire-place in kitchen	2	0 9	1 9	3 6	9	
Entrance steps	1	22 9	3 0	0 6	34	
Cistern	1	3 0	5 0	1 0	15	
Total						2,849
Brick work in foundations and basement.						
Outer walls of main rooms		79 5				
Partition do.	1	11 7½				
Verandah and verandah rooms	2	39 4				
Do. partition	1	5 7½				
Outer walls of out-houses		71 5				
		246 9	1 6	2 6	925	
Partitions of out-houses	2	7 7½	1 1½	2 6	43	
Walls enclosing yard	2	11 7½				
Screen wall	1	5 0				
		28 3	1 1½	1 6	48	
Sides of fire-place in kitchen	2	0 9	1 9	2 6	7	
Entrance steps		22 9	3 0	1 0	68	
Steps in yard	1	6 3				
Do.	1	4 0				
Do.	3	3 6				
		20 9	1 0	0 6	10	
Cistern floor	1	4 0	2 6	0 6	5	
Do. walls	2	3 5¼	0 6	2 6	9	
Do. do.	1	3 0	0 6	2 3	3	
Total						1,118
Brick work in superstructure.						
Main rooms outer walls		79 5				
Do. partition	1	12 0				
		91 5	1 1½	13 0	1,337	
Gables	3	12 0	1 1½	2 0	81	
Verandah piers	2	2 0	1 1½	7 0	71	
Do. at ends	2	2 6				
Do. heads	2	2 4½	1 6	0 6	8	
Do. at ends	2	2 10½	1 6	0 6		
Verandah ends and partitions	5	6 0	1 1½	11 0	371	
Back verandah wall	1	27 8½	1 1½	8 0	964	
Outer walls of out-houses		71 5	1 1½	8 0		
Fire-place wall		8 0	1 1½	8 0		
Do. gables	1	8 0	1 1½	1 4	36	
Partitions	3	8 0	0 9	8 0	96	
Gables	2	8 0	0 9	1 4	16	
Latrine seat	2	8 0	0 9	0 9	4	
Walls enclosing yard	1	7 0	0 9	4 3	92	
Screen wall	2	12 0	0 9	4 3		
Do. at door way	1	5 0	0 9	2 0	6	
	1	4 0				

Estimate Form—Detail Measurements—*cont.*

Detail of work.	No.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1	2	3	4	5	6	7
Brick work in superstructure—cont.		FT. IN.	FT. IN.	FT. IN.	C. FT.	C. FT.
Coping for enclosure wall	1	12 0	1 1½	0 9		
Do. do.	1	16 0	1 1½	0 9	28	
Do. do.	1	5 0	1 1½	0 9		
Chimney	1	2 0	3 0	2 6	15	
Do.	1	2 0	2 0	1 6	6	
Do.	1	2 6	2 6	0 9	5	
						3,136
Deductions.						
Entrance door	1	4 6	1 1½	7 0	35	
Doors	3	3 6	1 1½	7 0	83	
Do.	1	3 6	1 1½	6 6	61	
Windows	2	3 6	1 1½	4 6		
Do.	2	3 6	1 1½	6 0	63	
Do.	1	3 6	1 1½	4 0		
Do. and verandah openings	3	2 6	1 1½	3 6	30	
Ventilators	6	2 0	1 1½	2 0	27	
Opening in back verandah	1	6 0	1 1½	8 0	54	
Door in wall enclosing yard	1	2 6	0 9	6 0	11	
Do. in out-houses	3	3 0	1 1½	6 6	66	
Windows in out-houses	1	1 6	1 1½	4 0	7	
Ventilators in latrine	2	3 0	1 1½	4 6	30	
Kitchen archway, square portion	1	6 6	1 1½	1 6	11	
Do. semi-circular do.	1	16 6	Area.	1 1½	19	
Archwork as per details					100	
						597
Total						2,539
Archwork.						
Over entrance door	1	5 6				
Over doors and windows	7	4 6				
Over windows and verandah openings	3	3 6				
Over out-house doors and latrine openings	4	4 0				
Over kitchen window	1	2 6				
Kitchen arch	1	13 0				
Total		79 0	1 1½	1 1½	100	
						100
Earth filling in basement.						
Main rooms		23 7	11 7½	1 6	411	
Do. and back verandah		23 7	5 7½	1 6	199	
Front verandah		25 1	5 7½	1 6	212	
Yard		25 10	11 7½	0 6	150	
Out-houses		21 3	7 7½	1 6	243	
Total						1,215
Teak wood wrought and put up.						
Ridge beam for large room	1	19 3	0 5	0 9	6	
Do. for small room	1	11 7	0 4	0 7	2	
Pieces under ridge over cross wall	1	4 0	0 4½	0 8	1	
Do. at gables	2	2 10½	0 4½	0 6	1	
Wall plates	2	31 0	0 4	0 3	5	
Rafters for main rooms	42	8 9	0 3	0 4	31	
Front verandah bressummers, including halving over piers	1	31 3	0 5	0 6	9	
Back verandah bressummers, including halving over piers	1	11 6	0 5	0 6		
Back wall plate	1	19 3	0 4	0 3	2	
Rafters	42	11 0	0 3	0 4	39	
Lintels over doors and windows in verandah room	2	5 0	1 0	0 3	3	
Lintels over door in wall	1	4 0	0 8	0 2½	1	
Out-houses ridge	1	31 0	0 3	0 8	5	
Do. wall plate	1	22 6	0 3	0 3	3	
Do. do.	1	31 0	0 3	0 3		
Do. do. over latrine opening	1	9 0	0 4	0 4	1	
Do. rafters	42	8 0	0 2½	0 3	18	
Total						127

Estimate Form—Detail Measurements—*cont.*

Detail of work.	No.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1	2	3	4	5	6	7
Wrought iron in bolts, &c.		FT. IN.	FT. IN.	lb.	lb.	lb.
Half-inch diameter bolts for securing ridges ..	7	1 4	9 4	66	6·16	
Half-inch hex nut and heads	7			·128	·89	
Washers, 2½″ diameter, ⅛″ thick	14			·15	2·10	
Total ..	..	..	..	..	..	9·15
Venetian and panel doors.				FT. IN.	SQ. FT.	SQ. FT.
Entrance door	1	4 0	..	6 6	26	
Door opening into back verandah	1	3 0	..	6 6	20	
Do. in verandah room	1	3 0	..	6 0	18	
Total ..	..	..	..	..	..	64
Panel doors	2	3 0	..	6 6	39	
Total ..	..	..	..	..	..	39
Batten doors and windows with single shutters and strap hinges.						
For out-houses	3	2 6	..	6 0	45	
Wall	1	2 0	..	5 6	11	
Window in kitchen	1	1 0	..	3 6	4	
Total ..	..	..	..	..	..	60
Venetian windows with iron bars.						
In front verandah	2	3 0	..	4 0	24	
In ends of building with glass above ..	2	3 0	..	5 6	33	
In verandah room	1	3 0	..	3 6	11	
Do. single shutters	1	2 0	..	3 0	6	
Total ..	..	..	..	..	..	74
Batten shutters for cistern including frame ..	1	4 0	..	4 6	18	
Total ..	..	..	..	..	..	18
Ventilators consisting of teak frames 2″ × 1″ screwed together with ¾″ mesh galvanized wire-netting between.						
Four in large and two in small rooms	6	2 6	..	2 0	30	
Total ..	..	..	..	..	..	30
Cuddapah slab venetians for latrines	7	4 0	..	1 0	28	
Total ..	..	..	..	..	..	28
Roofing with flat and pan tiles, including teak reepers.						
Main building	1	31 0	..	37 0	1,147	
Out-houses	1	31 0	..	16 9	519	
Total ..	..	..	..	..	..	1,666
Laying concrete for floors 4″ thick consolidated.						
Rooms	..	23 7	..	11 7½	274	
Do.	..	23 7	..	5 7½	274	
Yard	..	25 1	..	5 7½		
Out-houses	..	25 10	..	11 7½	300	
	..	21 3	..	7 7½	162	
Total ..	..	..	..	..	..	1,010
Laying Cuddapah slabs for floor, including damp course over plinth.						
Main building including walls						
Out-houses walls	..	28 0	..	29 0	812	
Walls in court yards	..	72 0	..	1 8	120	
Screen wall of latrine	2	12 0	..	1 3		
Steps	1	5 0	..	1 3		
Do.	3	23 0	..	1 3		
Do.	1	6 6	..	1 3	149	
Do.	1	4 3	..	1 3		
	3	3 6	..	1 3		
Total ..	..	..	..	..	..	1,081

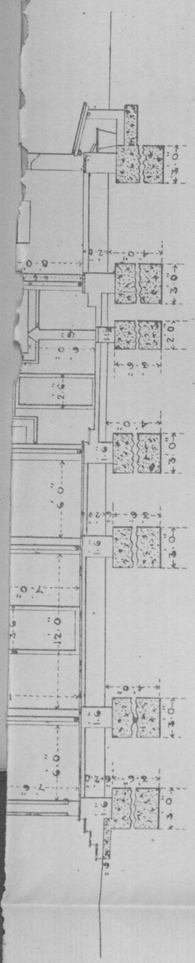
Note.—Doors and windows are taken according to appendix G standard specification.

Estimate Form—Detail Measurements—*cont.*

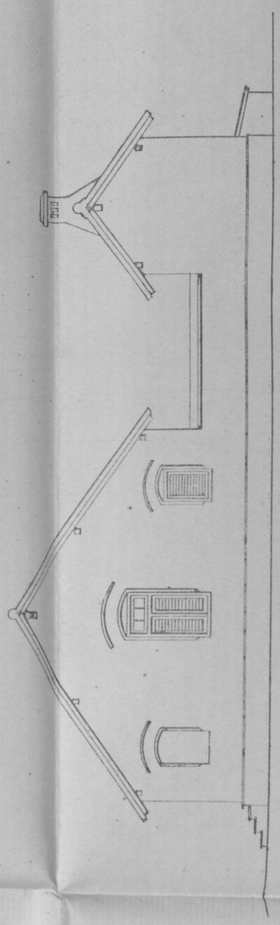
Detail of work.	No.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1	2	3	4	5	6	7
Plastering with Portland Cement ½″ thick.		FT. IN.	FT. IN.	FT. IN.	SQ. FT.	SQ. FT.
Out-houses floor	..	24 0	..	8 0	192	
Cistern inside	1	10 0	..	2 9	28	
Do. floor	1	2 6	..	2 6	6	
Do. sides	2	3 3	..	2 6	16	
Do. rear end	1	4 0	..	2 0	8	
Door pieces	3	3 0	..	0 9		
Sides of latrine seat		15 6	..	0 9	18	
Exterior plinth, main building		89 7	..	2 0	179	
Do. in rear		25 10	..	1 0	26	
Walls of court-yard, outer	2	12 0	..	2 0	48	
Do. do. inside	2	12 0	..	1 0	24	
Screen wall	1	10 9	..	1 0	11	
Out-houses, inner face	1	25 10	..	1 0	26	
Do. outer and sides	1	49 4	..	2 0	99	
Total ..	..	..	..	..	..	681
Plastering interior, two coats.						
Room, large	1	56 0				
Do. small	1	40 8				
		96 8	..	13 0	1,257	
Do. in rear verandah	1	44 0	..	11 0	484	
Gables	4	12 0	..	2 0	96	
Out-houses, godown and latrine	2	30 6	..	8 0		
Do. kitchen		44 5	..	8 0	843	
Kitchen arch soffits	..	13 6	..	1 1½	15	
Gables		8 0	..	1 4	64	
Top of chimney	6	2 6	..	2 0	5	
Coping of court-yard wall	1	35 0	..	2 6	88	
Sides and soffits of doors	1	18 6	..			
Do. do.	1	17 6				
Do. do.	3	13 0				
Do. windows	1	16 0				
Do. do.	2	19 0				
Do. do.	2	11 6				
Do. do.	1	12 0				
Do. ventilators	1	6 6				
	6	6 6				
		216 6	..	0 9	162	
Out-houses doors	3	16 0				
Do. windows	1	11 0	..	0 9	36	
			..	0 9	8	
Deductions.						3,058
Entrance door	1	4 6				
Doors	5	3 6	..	7 0	154	
Do.	1	3 6	..	7 0		
Windows	2	3 6	..	6 6	23	
Do.	2	3 6	..	4 6	32	
Do.	1	3 6	..	6 0	42	
Do.	1	2 6	..	4 0	14	
Ventilators	8	2 6	..	3 6	9	
Out-houses doors	3	3 0	..	2 0	40	
Window	1	1 6	..	6 6	59	
Latrine ventilators	2	3 0	..	4 0	6	
			..	4 6	27	
Total ..	..	..	..	..	..	406
Pointing exterior.						2,652
Piers in verandah	2	6 3				
Do. at ends	2	5 0	..	7 6	169	
Front verandah	1	25 5½	..	7 6		
Do. ends	2	6 0	..	13 0	331	
Back verandah	1	8 4	..	11 0	132	
Do. at opening	1	4 7	..	13 0	108	
Do. ends	2	6 0	..	7 6	34	
Sides of building, including gable	2	28 6	..	11 0	132	
Back of do.	1	21 8½	..	12 0	684	
Walls of court-yard	2	12 0	..	8 0	174	
Do. above doorway	2	4 0	..	10 0	240	
Screen wall	1	10 9	..	2 6	20	
			..	5 0	54	

ACCOMPANIMENT TO G.O. Nº 1796, W DATED 19TH JULY 1895. Nº

...ITS.

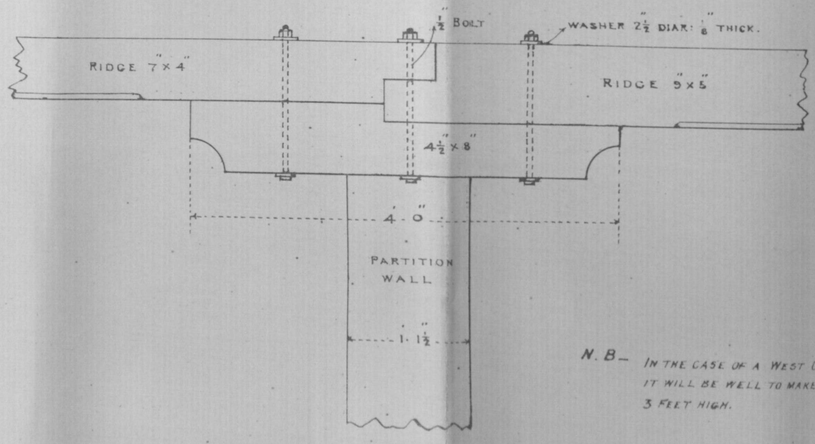


SECTION ON A.B.



SIDE ELEVATION.

...R 2½" DIAR: ⅛" THICK.



N.B— IN THE CASE OF A WEST COAST BUILDING, IT WILL BE WELL TO MAKE THE BASEMENT 3 FEET HIGH.

...LE WALL

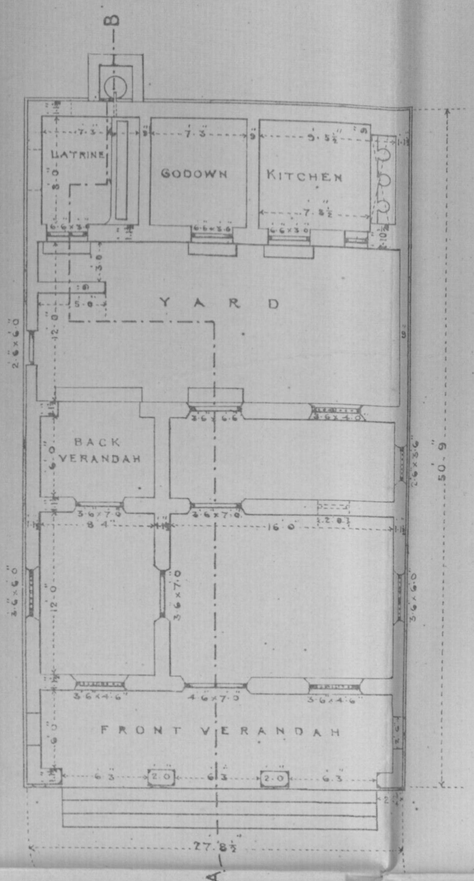
DETAIL OF RIDGE OVER PARTITION WALL.
1/12 ACTUAL SIZE.

(Signed) H. Irwin C.I.E.
Consulting Architect to Govt
10th April 1895.

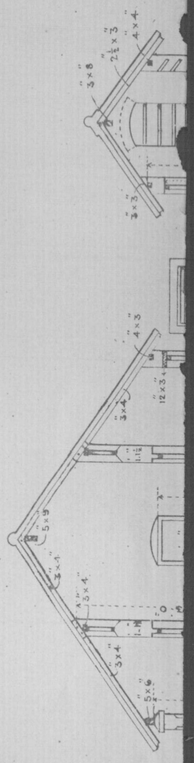
(Signed) C.H.B. Burlton
Dy: Chief Engineer P.W.D.

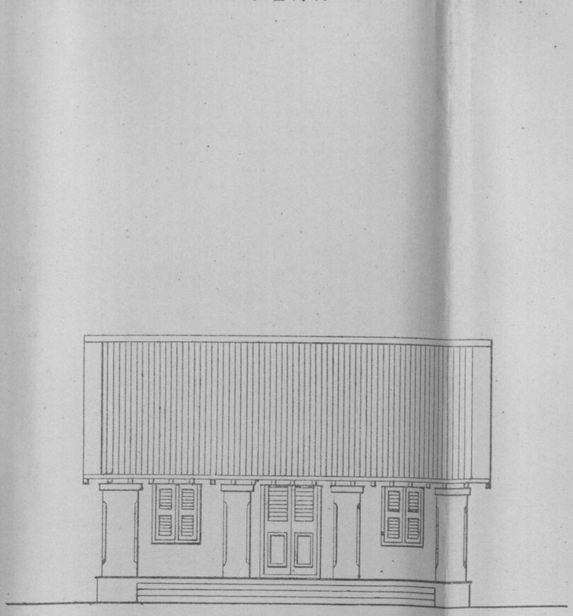
Litho Survey Office, Madras.
1895

TYPE DESIGN OF QUARTERS FOR CIVIL HOSPITAL ASSISTA

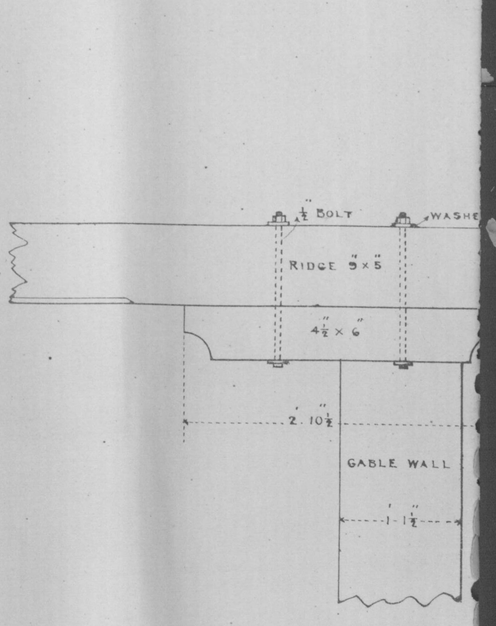


PLAN





FRONT ELEVATION.



DETAIL OF RIDGE OVER GA
1/12 ACTUAL SIZ

SCALE 8=1".

10 5 0 10 20 30 40 FEET.

Supt Technical Section
Chief Engineers Office P.W.D.

Reg: No. 2292
Copies 300 + 690

Govt. of {1895} Madras.

LOCAL AND MUNICIPAL.

Issued

Recd. *Encl.*

No. 3023 W. 27 Nov 1895

Recorded

(D. JB.

G.O., No. 1901 L., 12th Oct. 1895.

OCTOBER.

Standard Plan.

Communicating to all Local Boards and Municipal Councils and to the Municipal Commissioners of Madras, Government Order, Public Works Department, circulating to officers of the department, for information and guidance, the — of quarters for civil hospital assistants with descriptive specification and schedule of quantities.

No. 1901 L., Local and Municipal, 12th October 1895.

GOVERNMENT OF MADRAS.

LOCAL AND MUNICIPAL DEPARTMENT.

Read—the following paper :—

G.O., No. 1796 W., dated 19th July 1895.

Read—the following paper :—

G.O., No. 528, Public, dated 26th June 1895.

* * * * *

Read—the following letter from H. IRWIN, Esq., C.I.E., Consulting Architect to Government, to the Chief Engineer, Public Works Department, dated Chepauk, 10th April 1895, No. 174 :—

With reference to G.O., No. 661 W., dated the 19th March 1895, I have the honour to submit a standard plan of quarters for hospital assistants in civil employ with descriptive specification and schedule of quantities.

Enclosures.

Standard design for quarters for hospital assistants in civil employ, with tiled roofing, according to drawing signed by the Consulting Architect on 10th April 1895.

Descriptive Specification.

Foundation.—A depth of 4 feet is provided in the quantities, but this should be settled locally in accordance with the nature of the soil.

Walling.—The walls should be carried up in English bond according to the various thicknesses shown on the drawing, 1 brick and 1½ bricks thick.

Woodwork.—The doors and windows and roof-timbers to be of well-seasoned Burma teak ; the rafters and minor roof-timbers may be of approved country wood, proof against white ants.

Roofing.—The roof will be covered with flat and pan tiles. If Mangalore tiles are used, the rafters may be spaced about 2′ 6″ centre to centre and the three rooms ceiled with ½″ teak planking screwed to the bottom of rafters and overlapping one inch at joints.

Flooring.—To consist of a bed of concrete 4 inches thick. The rooms and verandah of the main building will be paved with Cuddapah slabs or 8 inch square bricks and the out-buildings plastered with portland cement ½ inch thick. Cuddapah slabs will be laid on the walls at basement level as a damp course. Where the soil is damp the space beneath the floor should be filled with river sand.

Interior and exterior finishing.—The interior walls will be plastered and polished, or plastered and white-washed. Where good bricks or stone is available the exterior should be pointed. The doors and windows and exposed woodwork of roof to be painted with three coats oak-paint and the roof-timbers stained with three coats wood-oil.

Estimate Form—Detail Measurements.

Detail of work.	No.	Measurements in feet.			Area or contents.	Total quantity of each description of work.
		Length.	Breadth.	Depth.		
1	2	3	4	5	6	7
Excavation for foundation.		FT. IN.	FT. IN.	FT. IN.	C. FT.	C. FT.
Outer walls of main rooms	..	79 5				
Partition	1	10 1½				
Verandah and verandah rooms	2	37 10				
Do. partition	1	4 1½				
Outer walls of out-houses	..	71 5				
		240 9	3 0	4 0	2,889	
Outer walls of partitions	2	6 1½				
Walls enclosing yard	2	10 1½				
Screen wall	1	5 0				
		37 6	2 0	4 0	300	
Sides of fire-place in kitchen	2	0 9	1 9	4 0	11	
Entrance step	1	22 9	3 0	0 6	34	
Cistern	1	3 0	5 0	2 0	30	
Total ..	..	..	..	..	..	3,264

Estimate Form—Detail Measurements—*cont.*

Detail of work.	No.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1	2	3	4	5	6	7
Concrete.		FT. IN.	FT. IN.	FT. IN.	C. FT.	C. FT.
Outer walls of main room		79 5				
Partitions		10 1½				
Verandah and verandah rooms	2	37 10				
Do. partition		4 1½				
Outer walls of out-houses		71 5				
		240 9	3 0	3 6	2,528	
Outer walls of partitions	2	6 1½				
Walls enclosing yard	2	10 1½				
Screen wall	1	5 0				
		37 6	2 0	3 6	263	
Sides of fire-place in kitchen	2	0 9	1 9	3 6	9	
Entrance steps	1	22 9	3 0	0 6	34	
Cistern	1	3 0	5 0	1 0	15	
Total						2,849
Brick work in foundations and basement.						
Outer walls of main rooms		79 5				
Partition do.	1	11 7½				
Verandah and verandah rooms	2	39 4				
Do. partition	1	5 7½				
Outer walls of out-houses		71 5				
		246 9	1 6	2 6	925	
Partitions of out-houses	2	7 7½	1 1½	2 6	43	
Walls enclosing yard	2	11 7½				
Screen wall	1	5 0				
		28 3	1 1½	1 6	48	
Sides of fire-place in kitchen	2	0 9	1 9	2 6	7	
Entrance steps		22 9	3 0	1 0	68	
Steps in yard	1	6 3				
Do.	1	4 0				
Do.	3	3 6				
		20 9	1 0	0 6	10	
Cistern floor	1	4 0	2 6	0 6	5	
Do. walls	2	3 5¼	0 6	2 6	9	
Do. do.	1	3 0	0 6	2 3	3	
Total						1,118
Brick work in superstructure.						
Main rooms outer walls		79 5				
Do. partition	1	12 0				
		91 5	1 1½	13 0	1,337	
Gables	3	12 0	1 1½	2 0	81	
Verandah piers	2	2 0	1 1½	7 0	71	
Do. at ends	2	2 6				
Do. heads	2	2 4½	1 6	0 6	8	
Do. at ends	2	2 10½	1 6	0 6		
Verandah ends and partitions	5	6 0	1 1½	11 0	371	
Back verandah wall	1	27 8½	1 1½	8 0	964	
Outer walls of out-houses		71 5	1 1½	8 0		
Fire-place wall	1	8 0	1 1½	8 0		
Do. gables	3	8 0	1 1½	1 4	36	
Partitions	2	8 0	0 9	8 0	96	
Gables	2	8 0	0 9	1 4	16	
Latrine seat	1	7 0	0 9	0 9	4	
Walls enclosing yard	2	12 0	0 9	4 3	92	
Screen wall	1	5 0	0 9	4 3		
Do. at door way	1	4 0	0 9	2 0	6	

Estimate Form—Detail Measurements—*cont.*

Detail of work.	No.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1	2	3	4	5	6	7
Brick work in superstructure—cont.		FT. IN.	FT. IN.	FT. IN.	C. FT.	C. FT.
Coping for enclosure wall	1	12 0	1 1½	0 9		
Do. do.	1	16 0	1 1½	0 9	28	
Do. do.	1	5 0	1 1½	0 9		
Chimney	1	2 0	3 0	2 6	15	
Do.	1	2 0	2 0	1 6	6	
Do.	1	2 6	2 6	0 9	5	
						3,136
Deductions.						
Entrance door	1	4 6	1 1½	7 0	35	
Doors	3	3 6	1 1½	7 0	83	
Do.	1	3 6	1 1½	6 6	61	
Windows	2	3 6	1 1½	4 6		
Do.	2	3 6	1 1½	6 0	63	
Do.	1	3 6	1 1½	4 0		
Do. and verandah openings	3	2 6	1 1½	3 6	30	
Ventilators	6	2 0	1 1½	2 0	27	
Opening in back verandah	1	6 0	1 1½	8 0	54	
Door in wall enclosing yard	1	2 6	0 9	6 0	11	
Do. in out-houses	3	3 0	1 1½	6 6	66	
Windows in out-houses	1	1 6	1 1½	4 0	7	
Ventilators in latrine	2	3 0	1 1½	4 6	30	
Kitchen archway, square portion	1	6 6	1 1½	1 6	11	
Do. semi-circular do.	1	16 6	Area.	1 1½	19	
Archwork as per details					100	
						597
Total						2,539
Archwork.						
Over entrance door	1	5 6				
Over doors and windows	7	4 6				
Over windows and verandah openings	3	3 6				
Over out-house doors and latrine openings	4	4 0				
Over kitchen window	1	2 6				
Kitchen arch	1	13 0				
Total		79 0	1 1½	1 1½	100	
						100
Earth filling in basement.						
Main rooms		23 7	11 7½	1 6	411	
Do. and back verandah		23 7	5 7½	1 6	199	
Front verandah		25 1	5 7½	1 6	212	
Yard		25 10	11 7½	0 6	150	
Out-houses		21 3	7 7½	1 6	243	
Total						1,215
Teak wood wrought and put up.						
Ridge beam for large room	1	19 3	0 5	0 9	6	
Do. for small room	1	11 7	0 4	0 7	2	
Pieces under ridge over cross wall	1	4 0	0 4½	0 8	1	
Do. at gables	2	2 10½	0 4½	0 6	1	
Wall plates	2	31 0	0 4	0 3	5	
Rafters for main rooms	42	8 9	0 3	0 4	31	
Front verandah bressummers, including halving over piers	1	31 3	0 5	0 6	9	
Back verandah bressummers, including halving over piers	1	11 6	0 5	0 6		
Back wall plate	1	19 3	0 4	0 3	2	
Rafters	42	11 0	0 3	0 4	39	
Lintels over doors and windows in verandah room	2	5 0	1 0	0 3	3	
Lintels over door in wall	1	4 0	0 8	0 2½	1	
Out-houses ridge	1	31 0	0 3	0 8	5	
Do. wall plate	1	22 6	0 3	0 3	3	
Do. do.	1	31 0	0 3	0 3		
Do. do. over latrine opening	1	9 0	0 4	0 4	1	
Do. rafters	42	8 0	0 2½	0 3	18	
Total						127

Estimate Form—Detail Measurements—*cont.*

Detail of work.	No.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1	2	3	4	5	6	7
Wrought iron in bolts, &c.		FT. IN.	FT. IN.	lb.	lb.	lb.
Half-inch diameter bolts for securing ridges	7	1 4	9 4	66	6·16	
Half-inch hex nut and heads	7			·128	·89	
Washers, 2½″ diameter, ⅛″ thick	14			·15	2·10	
Total	..	..	..	..	..	9·15
Venetian and panel doors.				FT. IN.	SQ. FT.	SQ. FT.
Entrance door	1	4 0	..	6 6	26	
Door opening into back verandah	1	3 0	..	6 6	20	
Do. in verandah room	1	3 0	..	6 0	18	
Total	..	..	..	..	..	64
Panel doors	2	3 0	..	6 6	39	
Total	..	..	..	..	..	39
Batten doors and windows with single shutters and strap hinges.						
For out-houses						
Wall	3	2 6	..	6 0	45	
Window in kitchen	1	2 0	..	5 6	11	
	1	1 0	..	3 6	4	
Total	..	..	..	..	..	60
Venetian windows with iron bars.						
In front verandah	2	3 0	..	4 0	24	
In ends of building with glass above	2	3 0	..	5 6	33	
In verandah room	1	3 0	..	3 6	11	
Do. single shutters	1	2 0	..	3 0	6	
Total	..	..	..	..	..	74
Batten shutters for cistern including frame	1	4 0	..	4 6	18	
Total	..	..	..	..	..	18
Ventilators consisting of teak frames 2″ × 1″ screwed together with ¾″ mesh galvanized wire-netting between.						
Four in large and two in small rooms	6	2 6	..	2 0	30	
Total	..	..	..	..	..	30
Cuddapah slab venetians for latrines	7	4 0	..	1 0	28	
Total	..	..	..	..	..	28
Roofing with flat and pan tiles, including teak reepers.						
Main building	1	31 0	..	37 0	1,147	
Out-houses	1	31 0	..	16 9	519	
Total	..	..	..	..	..	1,666
Laying concrete for floors 4″ thick consolidated.						
Rooms	..	23 7	..	11 7½	274	
Do.	..	23 7	..	5 7½		
Yard	..	25 1	..	5 7½	274	
Out-houses	..	25 10	..	11 7½	300	
	..	21 3	..	7 7½	162	
Total	..	..	..	..	..	1,010
Laying Cuddapah slabs for floor, including damp course over plinth.						
Main building including walls	..	28 0	..	29 0	812	
Out-houses walls	..	72 0	..	1 8	120	
Walls in court yards	2	12 0	..	1 3		
Screen wall of latrine	1	5 0	..	1 3		
Steps	3	23 0	..	1 3		
Do.	1	6 6	..	1 3	149	
Do.	1	4 3	..	1 3		
Do.	3	3 6	..	1 3		
Total	..	..	..	..	..	1,081

Note.—Doors and windows are taken according to appendix G standard specification.

Estimate Form—Detail Measurements—*cont.*

Detail of work.	No.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1	2	3	4	5	6	7
Plastering with Portland Cement ½″ thick.		FT. IN.	FT. IN.	FT. IN.	SQ. FT.	SQ. FT.
Out-houses floor		24 0	..	8 0	192	
Cistern inside	1	10 0	..	2 9	28	
Do. floor	1	2 6	..	2 6	6	
Do. sides	2	3 3	..	2 6	16	
Do. rear end	1	4 0	..	2 0	8	
Door pieces	3	3 0	..	0 9	18	
Sides of latrine seat		15 6	..	0 9		
Exterior plinth, main building		89 7	..	2 0	179	
Do. in rear		25 10	..	1 0	26	
Walls of court-yard, outer	2	12 0	..	2 0	48	
Do. do. inside	2	12 0	..	1 0	24	
Screen wall	1	10 9	..	1 0	11	
Out-houses, inner face	1	25 10	..	1 0	26	
Do. outer and sides	1	49 4	..	2 0	99	
Total	..	..	..	..	..	681
Plastering interior, two coats.						
Room, large	1	56 0				
Do. small	1	40 8				
		96 8	..	13 0	1,257	
Do. in rear verandah	1	44 0	..	11 0	484	
Gables	4	12 0	..	2 0	96	
Out-houses, godown and latrine	2	30 6	..	8 0	843	
Do. kitchen		44 5	..	8 0		
Kitchen arch soffits		13 6	..	1 1½	15	
Gables	6	8 0	..	1 4	64	
Top of chimney	1	2 6	..	2 0	5	
Coping of court-yard wall	1	35 0	..	2 6	88	
Sides and soffits of doors	1	18 6				
Do. do.	3	17 6				
Do. do.	1	13 0				
Do. windows	2	16 0				
Do. do.	2	19 0				
Do. do.	1	11 6				
Do. do.	1	12 0				
Do. ventilators	6	6 6				
		216 6	..	0 9	162	
Out-houses doors	3	16 0	..	0 9	36	
Do. windows	1	11 0	..	0 9	8	
						3,058
Deductions.						
Entrance door	1	4 6	..	7 0		
Doors	5	3 6	..	7 0	154	
Do.	1	3 6	..	6 6	23	
Windows	2	3 6	..	4 6	32	
Do.	2	3 6	..	6 0	42	
Do.	1	3 6	..	4 0	14	
Do.	1	2 6	..	3 6	9	
Do.	1	2 6	..	2 0	40	
Ventilators	8	3 0	..	6 6	59	
Out-houses doors	3	1 6	..	4 0	6	
Window	1	3 0	..	4 6	27	
Latrine ventilators	2					
						406
Total	..	..	..	..	..	2,652
Pointing exterior.						
Piers in verandah	2	6 3	..	7 6		
Do. at ends	2	5 0	..	7 6	169	
Front verandah	1	25 5½	..	13 0	331	
Do. ends	2	6 0	..	11 0	132	
Back verandah	1	8 4	..	13 0	108	
Do. at opening	1	4 7	..	7 6	34	
Do. ends	2	6 0	..	11 0	132	
Sides of building, including gable	2	28 6	..	12 0	684	
Back of do.	1	21 8½	..	8 0	174	
Walls of court-yard	2	12 0	..	10 0	240	
Do. above doorway	2	4 0	..	2 6	20	
Screen wall	1	10 9	..	5 0	54	

Estimate Form—Detail Measurements—*cont.*

Detail of work.	No.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1	2	3	4	5	6	7
Pointing exterior—cont.		FT. IN.	FT. IN.	FT. IN.	SQ. FT.	SQ. FT.
Out-houses sides	2	27 8½	..	8 0	443	
Out ends including gables	2	10 3	..	9 9	200	
Latrine ventilators, sides and soffits	1	15 0	..	1 1½	30	
Do. do.	1	12 0	..	1 1½		
Chimney	1	9 0	..	3 0	27	
						2,778
Deductions.						
Doors	1	4 6	..	7 0	56	
Do.	1	3 6	..	7 0		
Do.	1	3 6	..	6 6	23	
Windows	2	3 6	..	4 6	32	
Do.	2	3 6	..	6 0	42	
Do.	1	3 6	..	4 0	14	
Do. and verandah openings	5	2 6	..	3 6	44	
Ventilators	4	2 6	..	2 0	20	
Out-house doors	3	3 0	..	6 6	59	
Do. door in court-yard	2	2 6	..	6 0	30	
Do. window	1	1 6	..	4 0	6	
Do. ventilators in latrine	2	3 0	..	4 6	27	
						353
Total	..	..	..	..	..	2,425
Painting doors and windows and exposed wood work in roof, three coats		..	..	..		800
Wood-oiling roof-timbers, three coats		..	..	..		1,600
Latrine bucket with handle complete		..	..	..		No. 1

Estimate form—Abstract.

Quantity.	Description of work.	Rate.	Per	Amount.	Total.
1	2	3	4	5	6
		Rs. A. P.		Rs.	Rs.
3,264 c. ft.	Excavation for foundation	4 10 0	1,000 c. ft.	15	
2,849 „	Concrete in foundation with broken vitrified bricks	14 0 0	100 „	399	
1,118 „	Brick work in chunam for foundation and basement	19 8 0	100 „	218	
2,539 „	Brick work in chunam for superstructure	20 0 0	100 „	507	
100 „	Arch work in chunam	23 8 0	100 „	24	
1,215 „	Earth filling in basement	5 0 0	1,000 „	6	
127 „	Teak wood wrought and put up	3 8 0	c. foot.	445	
9·15 lb.	Wrought iron in bolts	0 3 0	lb.	2	
64 sq. ft.	Teak wood panel and venetian doors with frames and all fastenings complete	1 1 0	sq. foot.	68	
39 „	Do. panel doors	0 14 0	Do.	34	
60 „	Do. batten doors with single shutters and strap hinges including frames	0 15 0	Do.	56	
74 „	Venetian windows with iron bars and frames complete	1 12 0	Do.	130	
30 „	Ventilator frames with ¾" mesh galvanized iron wire-netting	0 6 0	Do.	11	
18 „	Shutter for latrine cistern with frames complete	1 14 0	Do.	34	
28 „	Cuddapah slab ventilators for latrine	0 3 0	Do.	5	
1,666 „	Roofing with flat and pan tiles, including 2" × ½" teak reepers	14 0 0	100 sq. ft.	233	
1,010 „	Laying concrete for floor 4" thick	5 0 0	100 „	51	
1,081 „	Cuddapah slabs for floor	17 0 0	100 „	184	
681 „	Plastering with Portland cement ½" thick	6 8 0	100 „	44	
2,652 „	Plastering with chunam, two coats	2 8 0	100 „	66	
2,425 „	Pointing exterior	3 0 0	100 „	73	
800 „	Painting doors and windows, &c., with three coats oak-paint	2 12 0	100 „	22	
1,600 „	Wood-oiling roof-timbers, three coats	0 15 0	100 „	15	
1 in number.	Bucket with handle complete	12 0 0	each	12	
					2,654
	Petty supervision at 2½ per cent.	..	..	65	
	Contingencies at 5 per cent.	..	..	131	
					196
			Grand total of estimate ..		2,850