

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

13th August 1881, No. 1,998 W.

Buildings and Roads.
Civil Works.

Read the following paper :—

No. 52. Endorsement of the Acting Assistant Secretary to Government, Judicial Department, dated Ootacamund, 8th August 1881, No. 1,348.

From G. HAMNETT, Esq., Inspector-General of Registration, to the Officiating Chief Secretary to Government, dated Ootacamund, 1st August 1881, No. 451.

THE office of the Sub-Registrar at Tirtala in the district of Malabar is held at present in a *thatched* building belonging to a private individual at a monthly rent of Rs. 4-8-0. The building is entirely unsuited and very objectionable as a place of safe custody for Registers of documents of valuable property.

2. It is proposed, with the consent of the President of the Local Fund Board, Malabar, to repair the school-house now vacant at Tirtala at a charge of Rs. 74-12-0, and to remove the sub-registry office into it, until a new building can be erected, and I have the honor to request that instructions may be issued in the Public Works Department for the preparation of plan and estimate in accordance with the design sanctioned for Conjeeveram in the Chingleput District.

3. The rent of the school-house, a *tiled* building, is to be the same as that now paid for the *thatched* building.

TRANSFERRED to the Public Works Department.

(By Order.)

(Signed) G. S. FORBES,
Acting Assistant Secretary.

No. 53. ORDER THEREON, 13th August 1881, No. 1,998 W.

COMMUNICATED to the Superintending Engineer, Second Circle, for preparation of the requisite estimate on the design indicated by the Inspector-General.

(True Extract.)

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

To the Superintending Engineer, Second Circle.
„ Judicial Department.

Exd. S. T. Austin.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1881) Madras.

PUBLIC WORKS.

To

THE SUPERINTENDING ENGINEER,
SECOND CIRCLE,

&c., &c., &c.

Dated August, 13th.

Issued

Recd.

Encl.

G. O., 13th August 1881, No. 1,998 W.

AUGUST.

Nos. 52-53.

Office for the Sub-Registrar at Tirtala in
Malabar.—The Superintending Engineer,
Second Circle, instructed to prepare the
requisite estimate for an —.

ESTIMATE of the Cost of constructing a Sub-Registrar's Office with terraced roofing according to
Standard Design, Sheet No. 21, signed by the Officiating Consulting Architect to Govern-
ment on 16th September 1881.

Detailed Quantities.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Excavation for Foundations.</i>						
		FT. IN.	FT. IN.	FT. IN.		
Outer walls	...	99 0	4 6	4 6	2,005	
Partition	...	21 0	3 8	4 6	347	
Verandah walls	...	35 9	3 6	4 6	563	
Steps	...	13 0	3 0	1 0	39	
Cubic feet	...	...	...	...	2,954	
<i>Earth-filling in Basement.</i>						
Rooms	...	24 0	21 0	1 6	756	
Platform	...	12 0	8 6	1 0	102	
Verandah	...	25 9	5 1½	1 6	198	
Cubic feet	...	...	...	...	1,056	
<i>Concrete.</i>						
Outer walls	...	99 0	3 6	1 0	347	
Partition	...	22 0	2 8	1 0	59	
Verandah walls	...	36 9	2 6	1 0	92	
Steps	...	13 0	3 0	1 0	39	
Cubic feet	...	...	...	...	537	
<i>Brickwork in Foundations.</i>						
Footing course—						
Outer walls	...	99 0	2 8	1 6	396	
Partition	...	22 10	1 10	1 6	63	
Verandah wall	...	37 7	1 6	1 6	85	
Above footing to ground level—						
Outer wall	...	99 0	2 3	2 0	445	
Partition	...	23 3	1 6	2 0	70	
Verandah wall	...	38 0	1 0	2 0	76	
Cubic feet	...	...	...	...	1,135	
<i>Brickwork in Basement.</i>						
Outer walls	...	99 0	2 3	2 0	446	
Partition	...	23 3	1 6	2 0	70	
Verandah wall	...	38 0	1 0	2 0	76	
Steps	...	13 0	3 0	0 6	20	
Do.	...	11 0	2 0	0 6	11	
Do.	...	9 0	1 0	0 6	5	
Deduct stone in steps and under posts as per details	...	...	...	...	628	
Cubic feet	...	...	...	...	29	
					599	

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Brickwork in Superstructure.</i>						
		FT. IN.	FT. IN.	FT. IN.		
Outer walls	...	99 0	1 6	12 0	2,214	
Partition	...	24 0	1 6	12 0		
Parapet	...	101 0	1 0	0 6		51
Do.	...	100 0	0 9	1 0		75
Do.	...	101 0	1 0	0 4	34	
Binding wall	...	25 0	1 6	0 9	28	
						2,402
Deductions—						
Doors	2	4 0	1 6	8 0	96	
Windows	9	3 6	1 6	5 0	236	
Archwork as per details	...	...	...	...	45	
						377
Cubic feet	...	...	...	...	...	2,025
<i>Archwork.</i>						
Segmental arch over doors	2	5 3	1 6	1 0	16	
Do. do. windows	4	4 9	1 6	1 0	29	
Cubic feet	...	...	...	...	45	
<i>Cut-stone work under Posts and in Steps.</i>						
Under posts	4	1 6	1 6	0 6	5	
Steps	...	39 0	1 3	0 6	24	
Cubic feet	...	...	...	...	29	
<i>Teakwood.</i>						
Clerks and Registrar's room joists	17	15 6	0 3	0 7½	41	
Record-room joists	17	12 6	0 3	0 6	39	
Small joists under coping at sides	32	2 7½	0 3	0 6		
Do. do. at angles	4	3 6	0 3	0 6	10	
Waling pieces	2	28 0	0 2	0 6		
Do.	2	29 6	0 2	0 6	5	
Verandah posts	4	0 5	0 5	7 4½	7	
Do. breastsummers	3	9 1½	0 5	0 7½	2	
Do. brackets	6	1 1	0 3	1 1	9	
Do. rafters	19	8 0	0 2½	0 3½	3	
Do. wall-plate	1	27 0	0 3	0 5	1	
Do. eave board	...	27 0	0 4	0 ¾	...	
Cubic feet	...	...	...	...	117	
<i>Wrought-iron work.</i>						
¾" diameter bolts to secure wall-plates.	6	1 9=	10 6	× 1·47	15·43	
¾" hex. nuts and bolt heads for do.	6	...	...	× ·43	2·58	
3" × 3" × ⅛" washers for do.	6	...	...	× ·31	1·86	
lb.	...	...	...	...	19·87	
Say lb.	...	...	...	...	...	20
Venetian and panel doors with frames	2	4 0	...	8 0	64	Sq. feet.
Venetian windows with frames	4	3 6	...	5 0	70	Do.

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Windows with glazed shutters and frames with ¾" square iron bars for Record-room.	5	3 6	...	5 0	88	Sq. feet.
Terrace roofing	...	30 0	...	28 6	855	Do.
Squares	...	...	...	...	...	8·55
Slope terracing for verandah	...	27 0	...	8 0	216	Sq. feet.
Squares	...	...	...	...	...	2·16
<i>Flooring with 8-inch square bricks over a levelling course.</i>						
Clerks and Registrar's room	...	24 0	...	12 0	288	
Record-room	...	24 0	...	9 0	216	
Verandah	...	27 9	...	6 6	180	
Door pieces	2	4 0	...	1 6	12	
					696	
Deduct stones under posts	4	1 6	...	1 6	9	
Square feet	...	...	...	...	687	
Squares	...	...	...	...	...	6·87
<i>Plastering with two coats.</i>						
Interior—						
Clerks and Registrar's room	...	72 0	...	12 0	864	
Record-room	...	66 0	...	12 0	792	
Exterior—						
Basement all round	...	120 3	...	2 4½	286	
Superstructure	...	105 0	...	12 0	1,260	
Parapet	...	101 0	...	5 0	505	
Binding wall	...	25 0	...	3 0	75	
Door jambs	2	20 0	...	1 6	60	
Window jambs	4	17 0	...	1 6	102	
Do.	5	13 6	...	1 6	101	
					4,045	
<i>Deductions.</i>						
Doorways	2 ×	2	4 0	...	8 0	128
Windows	2 ×	9	3 6	...	5 0	315
						443
Square feet	...	...	...	...	...	3,602
Squares	...	...	...	...	...	36·02
<i>Plaster cornice exterior.</i>						
Ends of terrace	...	...	...	...	114	
Wooden railing for Clerks' room ... L. ft.	...	...	...	...	12	
<i>Painting doors, windows and exposed woodwork with three coats of Carson's paint.</i>						
Venetian and panel-doors	3	64 0	...	...	192	
Do. windows	3	70 0	...	...	210	

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
<i>Painting doors, windows and exposed woodwork with three coats of Carson's paint—cont.</i>						
Glazed windows with iron bars ...	2	88 0	...	...	176	
Waling pieces ...	...	115 0	...	1 2	134	
Verandah posts ...	4	1 8	...	7 4½	49	
Brackets ...	6	1 0	...	1 0	6	
Eaves board ...	...	27 0	...	0 8	18	
Square feet ...	...	...	...	...	785	
Squares ...	...	...	...	...	...	7·85
<i>Wood-oiling three coats.</i>						
Railing ...	2	12 0	...	3 0	72	
Joists ...	17	15 6	...	1 6	395	
Do. ...	17	12 6	...	1 3	266	
Do. ...	32	2 7½	...	1 2	114	
Do. ...	4	3 6	...	1 2	45	
Breastsummers ...	...	27 0	...	1 8	120	
Rafters ...	19	8 0	...	0 9½	18	
Wall-plate ...	...	27 0	...	0 8	...	
Square feet ...	...	...	...	...	1,030	
Squares ...	...	...	...	...	...	10·30

ABSTRACT.

Quantity.	Item.	Rate.	Per.	Amount.
		RS. A. P.		RS. A. P.
2,954 C. feet.	Excavation for foundations	...	1,000 C. feet.	...
1,056 "	Earth-filling in basement	...	100 "	...
537 "	Concrete	...	"	...
1,135 "	Brickwork in foundations	...	"	...
599 "	Do. in basement	...	"	...
2,025 "	Do. in superstructure	...	"	...
45 "	Archwork	...	"	...
29 "	Cut-stone work	...	C. foot.	...
117 "	Teakwood wrought and put up	...	"	...
20 lb.	Wrought-iron work	...	lb.	...
64 S. feet.	Venetian and panel doors with frames.	...	S. foot.	...
70 "	Venetian windows with frames	...	"	...
88 "	Glazed windows with frames and iron bars for Record-room.	...	"	...
8·55 Squares.	Terrace roofing	...	Square.	...
2 16 "	Slope terracing	...	"	...
6·87 "	Flooring with 8-inch square bricks	...	"	...
36·02 "	Plastering with two coats	...	L. foot.	...
114 L. feet.	Plaster cornice exterior	...	"	...
12 "	Wooden railing	...	Square.	...
7·85 Squares.	Painting doors and windows and other exposed woodwork with three coats of Carson's oak color.	...	"	...

ABSTRACT—cont.

Quantity.	Item.	Rate.	Per.	Amount.
		RS. A. P.		RS. A. P.
10·30 Squares.	Wood-oiling roof timbers, &c., with three coats.	...	Square.	...
	Contingencies at 5 per cent.	...	...	...
	Total ...	...	...	...

MADRAS,
20th December 1881.

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

ESTIMATE of the Cost of constructing a Registrar's Office with terraced roofing according to Standard Design, Sheet No. 19, signed by the Officiating Consulting Architect to Government on 16th September 1881.

Detailed Quantities.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Excavation for Foundations.</i>						
		FT. IN.	FT. IN.	FT. IN.		
Outer walls	149	0	4 6	4 6	3,017	
Partition	27	0	3 8	4 6	446	
Verandah walls	44	9	3 6	4 6	705	
Steps	15	0	3 0	1 0	45	
Cubic feet					4,213	
<i>Earth-filling in Basement.</i>						
Rooms	30	0	40 0	1 6	1,800	
Platform	11	6	20 0	1 0	230	
Verandah	31	9	7 0	1 6	333	
Cubic feet					2,363	
<i>Concrete—</i>						
Outer walls	149	0	3 6	1 0	522	
Partition	28	0	2 8	1 0	75	
Verandah walls	45	9	2 6	1 0	114	
Steps	15	0	3 0	1 0	45	
Cubic feet					756	
<i>Brickwork in Foundations.</i>						
Footings course—						
Outer walls	149	0	2 8	1 6	596	
Partition	28	10	1 10	1 6	79	
Verandah walls	46	7	1 6	1 6	105	
Above footing to ground level—						
Outer walls	149	0	2 3	2 0	671	
Partition	29	3	1 6	2 0	88	
Verandah walls	47	0	1 0	2 0	94	
Cubic feet					1,633	
<i>Brickwork in Basement.</i>						
Outer walls	149	0	2 3	2 0	671	
Partition	29	3	1 6	2 0	88	
Verandah walls	47	0	1 0	2 0	94	
Steps	15	0	3 0	0 6	23	
Do.	13	0	2 0	0 6	13	
Do.	11	0	1 0	0 6	6	
					895	
Deduct stone in steps and under posts as per details.					33	
Cubic feet					862	

Detailed Quantities—cont.

Description of Work.					No.	Length.	Breadth.	Depth.	Contents.	Total.
Brickwork in Superstructure.						FT. IN.	FT. IN.	FT. IN.		
Outer walls	...	...	...	...	...	149 0	1 6	14 0	} 3,759	
Partition	...	...	...	...	...	30 0	1 6	14 0		
Corbels	...	...	...	...	8	1 0	0 6	1 6		6
Parapet	...	...	...	...	...	151 0	1 0	0 6		76
Do.	...	...	...	...	...	150 0	0 9	1 0	113	
Do.	...	...	...	...	...	151 0	1 0	0 4	50	
Binding wall	...	...	...	...	...	31 0	1 6	0 9	35	4,039
Deductions—					2	4 0	1 6	8 0	96	
Doors	...	...	...	...	13	3 6	1 6	5 0	341	
Windows	...	...	...	...	7	3 6	1 6	2 3	83	
Ventilators	...	...	...	...	...	...	...	...	59	
Archwork as per details	...	...	...	...	...	...	...	...		579
Cubic feet	...	...	...	...	...	...	...	...	...	3,460
Archwork.										
Segmental arches over doors	...	...	...	...	2	5 3	1 6	1 0	} 59	C. feet.
Do. windows	...	...	...	...	6	4 9	1 6	1 0		
Cut-stone work.										
Under posts	...	...	...	...	4	1 6	1 6	0 6	5	
Steps	...	...	...	...	...	45 0	1 3	0 6	28	
Slabs under beams	...	...	...	...	2	3 0	2 0	0 4	4	
Do.	...	...	...	...	4	2 0	2 0	0 4	5	
Cubic feet	...	...	...	...	...	...	...	...	42	
Teakwood.										
Beams	...	...	...	...	4	22 3	0 10	1 5	105	
Joists	...	...	...	...	56	12 3	0 3	0 6	} 139	
Do.	...	...	...	...	28	10 9	0 3	0 6		
Do. small under coping	...	...	...	...	42	2 7½	0 3	0 6		
Do. angle do.	...	...	...	...	4	3 6	0 3	0 6		
Waling pieces	...	...	...	...	2	35 3	0 2	0 6	} 14	
Do.	...	...	...	...	2	47 0	0 2	0 6		
Verandah posts	...	...	...	...	4	0 6	0 6	7 4½	7	
Do. breastsummers	...	...	...	...	3	11 0	0 6	0 9	12	
Do. brackets	...	...	...	...	6	1 1	0 3	1 1	2	
Do. rafters	...	...	...	...	23	9 9	0 3	0 4	19	
Do. wall-plate	...	...	...	...	...	33 0	0 3½	0 5	4	
Do. eave board	...	...	...	...	...	33 0	0 ¾	0 6	1	
Cubic feet	...	...	...	...	...	...	...	...	303	
Wrought-iron work.										
½" bolts to secure verandah wall-plate.	...	...	...	...	6	1 9	=10 6	×1·47	15·43	
¾" hex. nuts and heads	...	...	...	...	6	...	...	×·43	2·58	
3" × 3" ⅛" washers	...	...	...	...	6	...	...	×·31	1·86	
lb.	...	...	...	...	...	...	...	...	19·87	
Say lb.	...	...	...	...	...	...	...	...	...	20

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Venetian and panel doors with frames ...</i>	2	FT. IN.	FT. IN.	FT. IN.	64	Sq. feet.
<i>Venetian windows with frames ...</i>	6	3 6	...	5 0	105	Do.
<i>Windows with glazed shutters and frames and $\frac{3}{4}$" square iron bars for Record-room.</i>	7	3 6	...	5 0	123	Do.
<i>Glazed ventilators ...</i>	7	3 6	...	2 3	55	Do.
<i>Terrace roofing ...</i>	...	36 0	...	47 6	1,710	Do.
Squares ...	...	...	...	...	...	17-10
<i>Slope terrace for verandah ...</i>	...	33 0	...	9 9	322	Sq. feet.
Squares ...	...	...	...	...	...	3-22
<i>Flooring with 8-inch square bricks.</i>						
Rooms ...	...	40 0	...	30 0	1,200	
Verandah ...	...	33 9	...	8 0	270	
Door pieces ...	2	4 0	...	1 6	12	
					1,482	
<i>Deduct stones under posts ...</i>	4	1 6	...	1 6	9	
Square feet ...	...	...	...	...	1,473	
Squares ...	...	...	...	...	...	14-73
<i>Plastering with two coats.</i>						
Interior ...	...	...	...	...	...	
Rooms ...	2	100 0	...	14 0	2,800	
Exterior ...	...	...	...	...	...	
Basement all round ...	...	173 3	...	2 4 $\frac{1}{2}$	411	
Superstructure ...	...	155 0	...	14 0	2,170	
Parapet ...	...	151 0	...	5 0	755	
Binding wall ...	...	31 0	...	3 0	93	
Door jambs ...	2	20 0	...	1 6	60	
Window do. ...	6	17 0	...	1 6	153	
Do. do. ...	7	13 6	...	1 6	142	
Ventilator do. ...	7	8 0	...	1 6	84	
					6,668	
<i>Deductions—</i>						
Doorways ... 2 x	2	4 0	...	8 0	128	
Windows ... 2 x	13	3 6	...	5 0	455	
Ventilators ... 2 x	7	3 6	...	2 3	110	
					693	
Square feet ...	...	...	...	...	...	5,975
Squares ...	...	...	...	...	...	59-75
<i>Plaster cornice at ends of terrace... L. feet.</i>	...	...	...	...	166	
<i>Wooden railing for Clerks' room... L. feet.</i>	...	...	...	...	20	

Detailed Quantities.—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Painting doors, windows and exposed woodwork with three coats of Carson's oak paint.</i>		FT. IN.	FT. IN.	FT. IN.		
Venetian and panel doors ...	3	64 0	...	...	192	
Do. windows ...	3	105 0	...	...	315	
Glazed windows with iron bars ...	2	123 0	...	...	246	
Do. ventilators ...	1	55 0	...	...	55	
Waling pieces ...	...	164 6	...	1 2	192	
Verandah posts ...	4	2 0	...	7 4 $\frac{1}{2}$	59	
Do. brackets ...	6	1 0	...	1 0	6	
Eave board ...	0	33 0	...	1 0	33	
Square feet ...	...	...	...	...	1,098	
Squares ...	...	...	...	...	...	10-98
<i>Wood-oiling, three coats.</i>						
Railing ...	2	20 0	...	3 0	120	
Beams ...	4	23 0	...	3 8	337	
Joists ...	56	12 3	...	1 3	1,234	
Do. ...	28	10 9	...	1 3	...	
Do. ...	42	2 7 $\frac{1}{2}$	...	1 2	145	
Do. ...	4	3 6	...	1 2	...	
Breastsummers ...	3	11 0	...	2 0	66	
Rafters ...	23	9 9	...	0 11	206	
Wall-plate ...	...	33 0	...	1 1 $\frac{1}{2}$	37	
Square feet ...	...	...	...	...	2,145	
Squares ...	...	...	...	...	21-45	

ABSTRACT.

Quantity.	Item.	Rate.	Per.	Amount.
4,213 C. feet ...	Excavation for foundations ...	RS. A. P.	1,000 C. feet.	RS. A. P.
2,363 " ...	Earth-filling in basement ...	...	"	...
756 " ...	Concrete ...	...	100 C. feet.	...
1,633 " ...	Brickwork in foundations ...	...	"	...
862 " ...	Do. in basement ...	...	"	...
3,460 " ...	Do. in superstructure ...	...	"	...
59 " ...	Archwork ...	...	"	...
42 " ...	Cut-stone work ...	...	Cubic foot.	...
303 " ...	Teakwood wrought and put up ...	...	"	...
20 lb. ...	Wrought-iron work ...	...	lb.	...
64 S. feet ...	Venetian and panel doors with frames.	...	Square foot.	...
105 " ...	Venetian windows with frames ...	...	"	...
123 " ...	Glazed windows with frames and iron bars for Record-room ...	...	"	...
55 " ...	Glazed ventilators ...	...	"	...
17-10 Squares.	Terrace roofing ...	...	"	...
3-22 " ...	Slope terrace ...	...	Square.	...
14-73 " ...	Flooring with 8-inch square bricks ...	...	"	...
59-75 " ...	Plastering with two coats ...	...	"	...
166 Lin. feet.	Plaster cornice, exterior ...	...	L. foot.	...
20 " ...	Wooden railing ...	...	"	...

ABSTRACT—cont.

Quantity.	Item.	Rate.	Per.	Amount.
		RS. A. P.		RS. A. P.
10.98 Squares.	Painting doors, windows, and exposed woodwork with three coats of Carson's oak paint	...	Square.	...
21.45 " ...	Wood-oiling roof timbers, &c., with 3 coats	...	"	...
	Contingencies at 5 per cent	...	...	...
	Total ..	...	...	...

MADRAS,
20th December 1881.

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

DEPARTMENT PUBLIC WORKS.

REGISTRAR'S AND SUB-REGISTRAR'S OFFICES WITH TERRACE ROOFING.

Specification of works to be performed in executing the Standard Designs for Registrar's and Sub-Registrar's Offices according to Drawings, Sheets Nos. 19 and 21, signed by the Officiating Consulting Architect on 16th September 1881.

EXCAVATOR.

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

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

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

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

BRICKLAYER.

Concrete.—Lay over the full breadth of the trenches about nine inches of concrete as herein-after specified and well ram with heavy beaters to a thickness of about six inches. After the first layer has consolidated, lay a second and execute as before. The complete concrete should be about twelve inches thick.

Brickwork.—Mark off carefully the centre lines and lay off the thickness of the footing course according to the plan.

The brickwork will be executed in sound material, and care will be taken to insert during the progress of the work the door and window frames, wood-bricks for railing, &c.

The walls will be two bricks thick, about eighteen inches.

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

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

Bond.—The bond should be English if possible.

Stones.—Set the stones under the verandah posts, also those under the beams and fasten properly. All wood supplied by the carpenter.

STONE MASON.

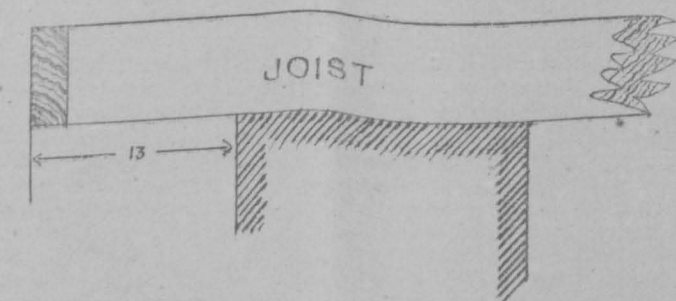
Provide and dress two lines No. 4 stones 1' 6" × 1' 6" × 6" with mortice holes 2" square and 2" deep to receive the verandah posts.

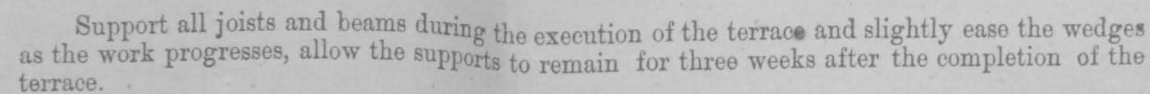
Steps.—Provide and dress two lines, the steps shown on the drawing, tailing each stone not less than three inches.

CARPENTER.

NOTE.—Vary this clause to suit Registrar's and Sub-Registrar's Offices.—Supply beams ——— × ——— × ——— supply joists ——— × ——— × ——— supply doors, windows and ventilators as shown on the drawing neatly rebated and morticed in a workmanlike manner.

Halve the joists into the beam to the extent of half an inch. The longitudinal joists will project over the wall to the extent of about 13 inches including the waling piece.





Lay over ordinary terrace brick in mortar and finish off in the particular method employed in the district, taking care to make proper slopes for drainage.

After the surface has been brought up to the proper level lay an even floor of 8-inch square tiles, set diagonally. The tiles will be rubbed on the surface and gauged to fit each other.

Plaster the whole of the interior and exterior with two coats of plaster (see Specification Standard Designs for Police Stations, dated 15th January 1881).

The bricks will be cast in a mould _____ inches $\times$ _____ inches $\times$ _____ inches well burnt and free from defects.

The sand will be collected at _____ properly burnt and slaked.

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

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Excavation for Foundations.</i>		FT.	IN.	FT.	IN.	
Outer walls	...	99	0	4	6	2,005
Partition	...	21	0	3	8	347
Verandah walls	...	35	9	3	6	563
Steps	...	13	0	3	0	39
Cubic feet ...	...	...	...	...	...	2,954
<i>Earth-filling in Basement.</i>						
Rooms	...	24	0	21	0	756
Platform	...	12	0	8	6	102
Verandah	...	25	9	5	11 ¹ / ₂	198
Cubic feet ...	...	...	...	...	...	1,056
<i>Concrete.</i>						
Outer walls	...	99	0	3	6	347
Partitions	...	22	0	2	8	59
Verandah walls... ..	...	36	9	2	6	92
Steps	...	13	0	3	0	39
Cubic feet ...	...	...	...	...	...	537
<i>Brickwork in Foundations.</i>						
Footing course—						
Outer walls	...	99	0	2	8	396
Partition	...	22	10	1	10	63
Verandah wall	...	37	7	1	6	85
Above footing to ground level—						
Outer walls	...	99	0	2	3	445
Partition	...	23	3	1	6	70
Verandah wall	...	38	0	1	0	76
Cubic feet ...	...	...	...	...	...	1,135
<i>Brickwork in Basement.</i>						
Outer walls	...	99	0	2	3	446
Partition	...	23	3	1	6	70
Verandah wall	...	38	0	1	0	76
Steps	...	13	0	3	0	20
Do.	...	11	0	2	0	11
Do.	...	9	0	1	0	5
						628
Deduct stone in steps and under posts as per details	...	...	...	...	...	29
Cubic feet ...	...	...	...	...	...	599

Detailed Quantities—cont.

Description of Work.				No.	Length.	Breadth.	Depth.	Contents.	Total.
Brickwork in Superstructure.					FT. IN.	FT. IN.	FT. IN.		
Outer walls	...	...	...	...	99 0	1 6	12 0	2,214	
Partition	...	...	...	...	24 0	1 6	12 0		
Gables	...	...	...	3	27 0	1 6	4 6	547	
Over gable ends	...	...	...	2	33 0	1 6	0 9	74	
Corbels	...	...	...	12	1 0	0 6	1 6	9	
Band over verandah roof	...	...	...	1	27 0	0 3	0 9	5	2,849
Deductions.									
Doorways	...	...	...	2	4 0	1 6	8 0	96	
Windows	...	...	...	8	3 6	1 6	5 0	210	
Gable ventilators	...	...	...	8	1 3	1 3	1 6	19	
Archwork as per details	...	...	...	...	...	...	...	94	419
Cubic feet	...	...	...	...	...	...	...	...	2,430
Archwork.									
Segmental arches over doors	...	...	...	2	5 3	1 6	1 0	94	C. feet.
Do. windows	...	...	...	6	4 9	1 6	1 0		
Semi-circle arch for gable ventilator	...	...	...	2	11 9	1 6	1 0		
Cut-stone work.									
Under posts	...	...	...	4	1 6	1 6	0 6	5	
Steps	...	...	...	...	39 0	1 3	0 6	24	
Slabs under beams	...	...	...	3	2 0	3 0	0 4	6	
Do.	...	...	...	6	2 0	2 0	0 4	8	
Cubic feet	...	...	...	...	...	...	...	43	
Teakwood.									
Clerks' room purlins and ridge	...	...	...	3	14 0	0 5	0 9	23	
Record-room do.	...	...	...	3	11 0	0 5	0 9		
Wall-plates	...	...	...	2	25 6	0 3	0 3	3	
Rafters	...	...	...	36	19 0	0 3	0 4	57	
Struts	...	...	...	36	2 6	0 3	0 3	6	
Uprights (double)	...	...	...	72	3 2	0 3 1/2	0 1 1/2	8	
Eaves board	...	...	...	2	27 0	0 3 1/2	0 5	1	
Verandah posts	...	...	...	4	6 6	0 5	0 5	4	
Do. breastsummers	...	...	...	3	9 1 1/2	0 5	0 7 1/2	7	
Do. brackets	...	...	...	6	1 1	0 3	1 1	2	
Do. rafters	...	...	...	19	9 1 1/2	0 3	0 4	14	
Do. wall-plates	...	...	...	1	27 0	0 3	0 5	3	
Do. eave board	...	...	...	1	27 0	0 3	0 5	1	
Cubic feet	...	...	...	...	...	...	...	129	
Wrought-iron work.									
3/4" diameter bolts to secure verandah wall-plate	...	...	...	6	1 9 = 10 6	×	1 47 =	15 43	
3/4" hex. nuts and bolt heads	...	...	...	6	...	×	43 =	2 58	
3" × 3" × 1/8" washers for do.	...	...	...	6	...	×	31 =	1 86	
lb.	...	...	...	...	...	...	...	19 87	
Say lb.	...	...	...	...	...	...	...	...	20

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Venetian and panel doors with frames	2	4 0	...	8 0	64	Sq. feet.
Venetian windows with frames	4	3 6	...	5 0	70	Do.
Glazed windows with frames and 3/4" square iron bars for Record-room	4	3 6	...	5 0	70	Do.
Glazed ventilators in gables	8	1 3	...	1 3	12 1/2	Do.
<i>Tiled roofing.</i>						
Over rooms	...	26 9	...	39 0	1,043	1,289
Do. verandah	...	27 0	...	9 1 1/2	246	
Square feet	...	...	...	...	...	12 89
Squares	...	...	...	...	...	...
<i>Flooring with 8-inch square bricks.</i>						
Clerks' and Registrar's rooms	...	24 0	...	12 0	288	696
Record-room	...	24 0	...	9 0	216	
Verandah	...	27 9	...	6 6	180	
Door pieces	2	4 0	...	1 6	12	
Deduct stones under posts	4	1 6	...	1 6	9	687
Square feet	...	...	...	...	...	6 87
Squares	...	...	...	...	...	...
<i>Plastering with two coats.</i>						
Interior—						
Clerks' and Registrar's room	...	72 0	...	12 0	864	432
Record-room	...	66 0	...	12 0	792	
Gables	4	24 0	...	4 6	432	1,260
Exterior—						
Basement all round	...	120 3	...	2 4 1/2	286	
Superstructure	...	105 0	...	12 0	1,260	
Gables	2	27 0	...	5 2	279	198
Wall over do.	2	33 0	...	3 0	198	
Door jambs	2	20 0	...	1 6	60	
Window do.	4	17 0	...	1 6	102	
Do. do.	4	13 6	...	1 6	81	4,354
<i>Deductions.</i>						
Doorways	2 ×	2	4 0	...	8 0	128
Windows	2 ×	8	3 6	...	5 0	280
Square feet	...	...	...	...	...	408
Squares	...	...	...	...	...	3,946
<i>Wooden Railing.</i>						
For Clerks' room	...	...	...	...	12	...

Detailed Quantities—cont.

Description of Work.	No.	Length.		Breadth.		Depth.		Contents.	Total.
		FT.	IN.	FT.	IN.	FT.	IN.		
<i>Painting doors, windows and exposed woodwork with three coats of Carson's paint.</i>									
Venetian and panel doors ...	3	64	0	...	...	...	...	192	
Do. windows ...	3	70	0	...	...	...	...	210	
Glazed windows with iron bars ...	2	70	0	...	...	...	...	140	
Glazed ventilators ...	...	...	...	...	...	...	...	13	
Struts ...	36	2	6	...	...	1	0	90	
Uprights ...	72	3	0	...	...	0	8½	153	
Eaves boards ...	2	27	0	...	...	0	9	41	
Verandah posts... ..	4	6	6	...	...	1	8	43	
Do. brackets ...	6	1	0	...	...	1	0	6	
Do. eave board ...	...	27	0	...	...	0	9	20	
								908	
Square feet ...	...	...	...	...	...	...	...		9-08
Squares ...	...	...	...	...	...	...	...		
<i>Wood-oiling, three coats.</i>									
Railing ...	2	12	0	...	...	3	0	72	
Purlins and ridge ...	3	14	0	...	...	1	11	144	
Do. ...	3	11	0	...	...	1	11	627	
Rafters ...	36	19	0	...	...	0	11	45	
Breastsummers ...	...	27	0	...	...	1	8	159	
Rafters ...	19	9	1½	...	...	0	11	18	
Wall-plate ...	...	27	0	...	...	0	8		
								1,065	
Square feet ...	...	...	...	...	...	...	...		10-65
Squares ...	...	...	...	...	...	...	...		

ABSTRACT.

Quantity.	Item.	Rate.			Per.	Amount.		
		RS.	A.	P.		RS.	A.	P.
2,954 C. feet.	Excavation for foundations	...	...	...	1,000 C. feet.	...	...	...
1,056 "	Earth-filling in basement	...	...	...	100 C. feet.	...	...	...
537 "	Concrete	...	...	...	"	...	...	...
1,135 "	Brickwork in foundations	...	...	...	"	...	...	...
599 "	Do. in basement	...	...	...	"	...	...	...
2,430 "	Do. in superstructure	...	...	...	"	...	...	...
94 "	Archwork	...	...	...	C. foot.	...	...	...
43 "	Cut-stone work	...	...	...	"	...	...	...
129 "	Teakwood wrought and put up	...	...	...	lb.	...	...	...
20 lb.	Wrought-iron work	...	...	...	"	...	...	...
64 Sq. feet.	Venetian and panel doors with frames	...	...	...	Sq. foot.	...	...	...
70 "	Venetian windows with frames	...	...	...	"	...	...	...
70 "	Glazed windows with frames and iron bars for record-room	...	...	...	"	...	...	...
12½ "	Glazed ventilators in gables	...	...	...	"	...	...	...
12-89 Squares.	Tiled roofing with flat and pan tiles including teak reapers	...	...	...	Square.	...	...	...

ABSTRACT—cont.

Quantity.	Item.	Rate.			Per.	Amount.		
		RS.	A.	P.		RS.	A.	P.
6-87 Squares.	Flooring with 8-inch square bricks.	...	...	...	Square.	...	...	...
39-46 "	Plastering with two coats ...	...	...	...	"	...	...	...
12 L. feet.	Wooden railing ...	...	...	...	L. foot.	...	...	...
9-08 Squares.	Painting doors, windows and exposed wood-work with three coats of Carson's oak paint.	...	...	...	Square.	...	...	...
10-65 "	Wood-oiling roof timbers, &c., three coats.	...	...	...	"	...	...	...
	Contingencies at 5 per cent.	...	...	...	"	...	...	...
	Total ...	...	...	...	"	...	...	...

MADRAS,
20th December 1881.

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

ESTIMATE of the Cost of constructing a Registrar's Office with tiled roofing according to Standard, Sheet No. 20, signed by the Officiating Consulting Architect to Government on 16th September 1881.

Detailed Quantities.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Excavation for Foundations.</i>						
		FT. IN.	FT. IN.	FT. IN.		
Outer walls ...	...	149 0	4 6	4 6	3,017	
Partition ...	...	27 0	3 8	4 6	446	
Verandah walls ...	...	44 9	3 6	4 6	705	
Steps ...	...	15 0	3 0	1 0	45	
Cubic feet ...	...	...	...	...	4,213	
<i>Earth-filling in Basement.</i>						
Rooms ...	...	30 0	40 0	1 6	1,800	
Platform ...	...	11 6	20 0	1 0	230	
Verandah ...	...	31 9	7 0	1 6	333	
Cubic feet ...	...	...	...	...	2,363	
<i>Concrete.</i>						
Outer walls ...	...	149 0	3 6	1 0	522	
Partition ...	...	28 0	2 8	1 0	75	
Verandah walls ...	...	45 9	2 6	1 0	114	
Steps ...	...	15 0	3 0	1 0	45	
Cubic feet ...	...	...	...	...	756	
<i>Brickwork in Foundations.</i>						
Footings course—						
Outer walls ...	...	149 0	2 8	1 6	596	
Partition ...	...	28 10	1 10	1 6	79	
Verandah walls ...	...	46 7	1 6	1 6	105	
Above footing to ground level—						
Outer wall... ..	...	149 0	2 3	2 0	671	
Partition ...	...	29 3	1 6	2 0	88	
Verandah wall ...	...	47 0	1 0	2 0	94	
Cubic feet ...	...	...	...	...	1,633	
<i>Brickwork in Basement.</i>						
Outer walls ...	...	149 0	2 3	2 0	671	
Partition ...	...	29 3	1 6	2 0	88	
Verandah walls ...	...	47 0	1 0	2 0	94	
Steps ...	...	15 0	3 0	0 6	23	
Do. ...	...	13 0	2 0	0 6	13	
Do. ...	...	11 0	1 0	0 6	6	
Deduct stone in steps and under posts as per details.	...	...	...	...	895 33	
Cubic feet ...	...	...	...	...	862	
<i>Brickwork in Superstructure.</i>						
Outer walls ...	...	149 0	1 6	14 0	3,759	
Partition ...	...	30 0	1 6	14 0		

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Brickwork in Superstructure—cont.</i>						
		FT. IN.	FT. IN.	FT. IN.		
Gables ...	3	33 0	1 6	5 3	780	
Over gable end...	2	40 0	1 6	0 9	90	
Corbels ...	12	1 0	0 6	1 6	9	
Band over verandah roof ...	...	33 0	0 3	0 9	6	4,644
Deductions—						
Doors ...	2	4 0	1 6	8 0	96	
Windows ...	12	3 6	1 6	5 0	315	
Ventilators ...	4	3 6	1 6	2 3	47	
Archwork as per details ...	...	...	...	...	108	566
Cubic feet ...	...	...	...	...	...	4,078
<i>Archwork.</i>						
Segmental arches over doors ...	2	5 3	1 6	1 0	16	
Do. do. windows ...	8	4 9	1 6	1 0	57	
Semicircular arches for gable ventilators.	2	11 9	1 6	1 0	35	
Cubic feet ...	...	...	...	...	108	
<i>Cut-stone work.</i>						
Under posts ...	4	1 6	1 6	0 6	5	
Steps ...	...	45 0	1 3	0 6	28	
Slabs under beams ...	3	3 0	2 0	0 4	14	
Do. ...	6	2 0	2 0	0 4		
Cubic feet ...	...	...	...	...	47	
<i>Teakwood.</i>						
Purlins and ridge ...	6	22 3	0 9	1 2	117	
Wall plates ...	2	44 6	0 3	0 3	6	
Rafters ...	60	22 6	0 3	0 5	141	
Struts ...	60	2 6	0 3	0 3	9	
Uprights, double ...	120	3 2	0 1 $\frac{3}{4}$	0 3 $\frac{1}{2}$	14	
Eaves board ...	2	45 9	0 6	0 6	3	
Verandah posts ...	4	0 6	0 6	7 4 $\frac{1}{2}$	7	
Do. breastsummers ...	3	11 0	0 6	0 9	12	
Do. brackets ...	6	1 1	0 3	1 1	2	
Do. rafters ...	23	10 9	0 3	0 5	26	
Do. wall-plate ...	1	33 0	0 3 $\frac{1}{2}$	0 5	4	
Do. eave board ...	1	33 0	0 3 $\frac{3}{4}$	0 6	1	
Cubic feet ...	...	...	...	...	342	
<i>Wrought-iron work.</i>						
$\frac{3}{4}$ " diameter bolts to secure verandah wall-plate.	6	1 9	=10 6	×1·47	=15·43	
$\frac{3}{4}$ " hex. nuts and heads ...	6	...	...	×·43	= 2·58	
$\frac{3}{8}$ " × 3" × $\frac{1}{8}$ " washers for heads ...	6	...	...	×·31	= 1·86	
lb. ...	...	...	...	...	19·87	
Say lb. ...	...	...	...	...	...	20

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Venetian and panel doors with frames ...	2	4 0	...	8 0	64	Sqr. feet.
Venetian windows with frames ...	6	3 6	...	5 0	105	Sqr. feet.
Windows with glazed shutters and frames and $\frac{3}{4}$ " square iron bars.						
For record-room ...	6	3 6	...	5 0	105	Sqr. feet.
Glazed ventilators with frames.						
At sides ...	4	3 6	...	2 3	31 $\frac{1}{2}$	
At gables ...	8	1 3	...	1 3	12 $\frac{1}{2}$	
Square feet ...					44	
Tiled roofing.						
Over rooms ...		45 9	...	46 0	2,105	
Over verandah ...		33 0	...	10 9	355	
Square feet ...					2,460	
Squares ...						24-60
Flooring with 8-inch square bricks over a levelling course of wall bricks.						
Rooms ...		40 0	...	30 0	1,200	
Verandah ...		33 9	...	8 0	270	
Door pieces ...	2	4 0	...	1 6	12	
					1,482	
Deduct stones under posts ...	4	1 6	...	1 6	9	
Square feet ...					1,473	
Squares ...						14-73
Plastering with two coats.						
Interior—						
Rooms ...	2	100 0	...	14 0	2,800	
Gables ...	4	30 0	...	5 3	630	
Exterior—						
Basement all round ...		173 3	...	2 4 $\frac{1}{2}$	411	
Superstructure ...		155 0	...	14 0	2,170	
Gables ...	2	33 0	...	5 6	363	
Wall over do. ...	2	40 0	...	3 0	240	
Door jambs ...	2	20 0	...	1 6	60	
Window do. ...	8	17 0	...	1 6	204	
Do. ...	4	13 6	...	1 6	81	
Ventilator do. ...	4	8 0	...	1 6	48	
Deductions—						
Doorways ...	2 x	4 0	...	8 0	128	
Windows ...	2 x	3 6	...	5 6	462	
Ventilators ...	2 x	3 6	...	2 3	63	
					653	
Square feet ...						6,354
Squares ...						63-54

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Wooden railing.						
For Clerks' room ... Lineal feet	...	...	...	...	20	
Painting doors, windows and exposed woodwork with three coats of Carson's oak paint.						
Venetian doors ...	3	64 0	...	...	192	
Do. windows ...	3	105 0	...	...	315	
Glazed windows with iron bars ...	2	105 0	...	...	210	
Do. ventilators ...	...	...	...	...	44	
Struts ...	60	2 6	...	1 0	150	
Uprights ...	120	3 2	...	0 8 $\frac{1}{2}$	269	
Eaves board ...	2	45 9	...	0 10 $\frac{1}{2}$	80	
Verandah posts ...	4	2 0	...	7 4 $\frac{1}{2}$	59	
Brackets ...	6	1 0	...	1 0	6	
Eave board ...	1	33 0	...	0 10 $\frac{1}{2}$	29	
Square feet ...					1,354	
Squares ...						13-54
Wood-oiling, three coats.						
Railing ...	2	20 0	...	3 0	120	
Purlins and ridge ...	6	22 3	...	3 1	412	
Rafters ...	60	22 6	...	1 1	1,463	
Breastsummers ...	3	11 0	...	2 0	66	
Rafters ...	23	10 9	...	1 1	268	
Wall plate ...	1	33 0	...	1 1 $\frac{1}{2}$	37	
Square feet ...					2,366	
Squares ...						23-66

ABSTRACT.

Quantify.	Item.	Rate.	Per.	Amount.
		RS. A. P.		RS. A. P.
4,213 C. feet	Excavation for foundations ...	...	1,000 C. feet.	...
2,363 "	Earth-filling in basement ...	...	"	...
756 "	Concrete ...	...	100 "	...
1,633 "	Brickwork in foundations ...	...	"	...
862 "	Do. in basement ...	...	"	...
4,078 "	Do. in superstructure ...	...	"	...
108 "	Archwork ...	...	"	...
47 "	Cut-stone work ...	...	C. foot.	...
342 "	Teakwood wrought and put up ...	...	"	...
20 lbs.	Wrought-iron work ...	...	lb.	...
64 S. feet.	Venetian and panel doors with frames.	...	Square foot.	...
105 "	Venetian windows with frames ...	...	"	...
105 "	Glazed windows with frames and iron bars for record-room.	...	"	...
44 "	Glazed ventilators ...	...	"	...

ABSTRACT—cont.

Quantity.	Item.	Rate.			Per.	Amount.		
		RS.	A.	P.		RS.	A.	P.
24.60	Squares. Tiled roofing with flat and pan tiles including teak reapers.	...			Square.	...		
14.73	" Flooring with 8-inch square bricks ...	...			"	...		
63.54	" Plastering with two coats ...	...			"	...		
20	L. feet. Wooden railing ...	...			L. foot.	...		
13.54	Squares. Painting with three coats of Carson's paint.	...			Square.	...		
23.66	" Wood-oiling roof timbers, three coats...	...			"	...		
...	Contingencies at 5 per cent. ...	...			"	...		
	Total ...	...				...		

MADRAS,
20th December 1881.

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

DEPARTMENT PUBLIC WORKS.

REGISTRAR'S AND SUB-REGISTRAR'S OFFICES WITH TILED ROOFING.

Specification of works to be performed in executing the Standard Designs for Registrar's and Sub-Registrar's Offices, according to Drawing Sheets, Nos. 20 and 22, signed by the Officiating Consulting Architect on the 16th September 1881.

EXCAVATOR.

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

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

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

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

BRICKLAYER.

Concrete.—Lay over the full breadth of the trenches about 9 inches of concrete as herein after specified and well ram with heavy beaters to a thickness of about 6 inches. After the first layer has consolidated lay a second and execute as before. The complete concrete should be about 12 inches thick.

Brickwork.—Mark off carefully the centre lines and lay off the thicknesses of the footing course according to the plan.

The brickwork will be executed in sound material, and care will be taken to insert during the progress of the work the door and window frames, wood-bricks for railing, &c.

The walls will be two bricks thick, about 18 inches.

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

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

Bond.—The bond should be English if possible.

Stones.—Set the stones under the verandah posts, also those under the beams and fasten properly. All wood supplied by the carpenter.

STONE MASON.

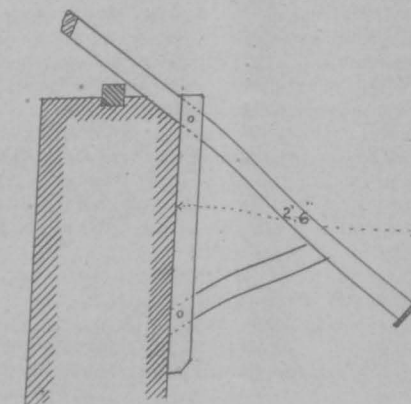
Provide and dress two lines No. 4 stones 1' 6" × 1' 6" × 6" with mortice holes 2" square and 2" deep to receive the verandah posts.

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

CARPENTER.

NOTE.—Vary this clause to suit Registrar's and Sub-Registrar's Offices.—Supply beams ——— × ——— × ——— supply rafters ——— × ——— × ——— supply doors windows and ventilators as shown on the drawing, neatly rebated and morticed in a workmanlike manner.

The rafters will be notched over the beams and project 2 feet 6 inches from the face of the wall and strutted as shown on the drawing.



ROOFING.

Tiling.—Cover the roof with well burnt flat and pan tiles laid in the usual manner and the ridge with tiles specially made for the purpose.

Chunam bands.—Protect the ridge with chunam and lay bands on the tiling — inches broad and — inches apart rough cast on the surface.

FLOORING.

After the surface has been brought up to the proper level lay an even floor of 8-inch square tiles set diagonally. The tiles will be rubbed on the surface and gauged to fit each other.

PLASTERER.

Plaster the whole of the interior and exterior with two coats of plaster. (See Specification Standard Design for Police Stations, dated 15th January 1881.)

MATERIALS.

The bricks will be cast in a mould — inches × — inches × — inches, well burnt and free from defects.

The timber will be well seasoned and free from defects.

The lime will be collected at — properly burnt and slaked.

The sand will be collected at —

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

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

14th January 1882, No. 120 W.

Buildings and Roads,
Civil Works.

Read the following papers:—

No. 69. From Major A. T. FRASER, R.E., Officiating Consulting Architect to Government, to the Chief Engineer, Public Works Department, dated Chepauk, 16th September 1881, No. 465.

I HAVE the honor in terms of G.O., No. 1783 W., of the 21st July, to forward the following standard designs for Registrar's and Sub-Registrar's Offices, prepared in accordance with the sketch plan herewith enclosed for reference, which was approved in the Judicial Department, dated 20th January 1881:—

Standard design, Registrar's Office, terraced building.

Do. do. do. tiled building.

Do. Sub-Registrar's Office, terraced building.

Do. do. do. tiled building.

2. As it is understood Superintending Engineers are waiting for these standard plans, I have had to supply the Superintending Engineer, Second Circle, with copies in anticipation; it is considered inadvisable to retain them till the quantities are taken out.

This will be done and a specification furnished when the plans are returned from the Lithographic Press.

No. 2150.

MEMORANDUM.

SUBMITTED for the approval of Government in the Judicial Department, and for the countersignature of the Inspector-General of Registration.

(By Order.)

(Signed) J. PENNYCUICK, Major, R.E.,
Deputy Chief Engineer, P.W.D.

19th September 1881.

To the Judicial Department, with the letter above quoted
and five enclosures (requested to be returned).

No. 69-A. Proceedings of the Madras Government in the Judicial Department, dated 9th November 1881, No. 2283.

From the Public Works Department, dated 19th September 1881, No. 2150.

From the Inspector-General of Registration, Madras, dated 14th October 1881, No. 670.

THE plans are approved and returned with the countersignature of the Inspector-General of Registration.

(True Extract.)

(Signed) R. DAVIDSON,
Chief Secretary.

No. 69-B. From R. F. CHISHOLM, Esq., Consulting Architect to Government, to the Chief Engineer, Public Works Department, dated Chepauk, 20th December 1881, No. 736.

IN continuation of this office letter No. 465, dated 16th September, I have the honor to forward specifications and detailed quantities for the tiled and terraced standard designs for Registrar's and Sub-Registrar's Offices.

Two Specifications.
Four Detailed Estimates.

No. 70. ORDER THEREON, 14th January 1882, No. 120 W.

THE standard designs for Registrar's and Sub-Registrar's Offices, which have been approved in the Judicial Department, will be lithographed, and the estimates and specifications printed for circulation and adoption in the department.

(True Extract)

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

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

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1882) Madras.
PUBLIC WORKS.

To

SUPERINTENDING ENGINEERS,
&c., &c., &c.

Dated January, 14th.

Issued.

Recd.

Encl.

G.O., 14th January 1882, No. 120 W.

JANUARY.
Nos. 69-70.

Indy. O.R. 2303/228/2/82

Registrar's and Sub-Registrars's Offices.—
The standard designs for—ordered to be
lithographed and circulated for adoption in
the Public Works Department.

Registration Department.

No. 943

CURRENT No. 2738

From,

George Hammett Esq.
Inspector General of Registration
Madras,

To,

The Honorable R. Davidson C.S.I.
Chief Secretary to Government,
Fort St George.

Dated Madras, 17th December 1881.

Honorable Sir,

* Not communicated

In order No. 2669 Judicial
Department dated the 18th November 1880
the Government sanctioned a rental
of 5 Rs. a month for a building for
the Sub Registry Office at Perindal a-
manna in the district of Malabar.

2. The Sub Registrar
now condemns the building and
urges that a new office should be
built within the Taluk Cutcherry
Compound as early as possible.

3.

Perindalamanna

is an important sub district and
registrations are heavy, and I have
the honor to request that the sanction
of the Government may be obtained
for the issue of orders in the Public
Works Department for the early
construction of a Sub Registry office
on the design recently approved of by
them.

I have the honor to be,

Respectfully,
Sir,

Your most obedient servant,

W. A. Hammett
Inspector General of Registration

W. A. Hammett

No 2065

Approved and trans-
ferred to the Public
Works Department
By order.

For. Henry 2. 1877
20. Dec 87. J. P. Furber
at Underberg

Copy to S. G. Kyjishu. Dec^r 21/12
Be 139 W a / 7th January / 82
Communicated to the
S. G. Circle in view to
the submission of the requisite
plan & estimate.

By

Mr 10/12 SS. 4' circle ✓ 10/11
R 24/12 incl Dept
Sept 7-1-83

Indl 1881 Sept 4

(Respiratorium)

From *Publicist*
The *Suspect General*
of *Registration*
O O E E S I *Madras*

To The Chief Secretary
of Government
Fort St George

Dated 17th } December 1881
Received 19th }
Dec. 22nd } Rec. 87
No. 943
Enclosure (one)

APR 10 1938

Requesting that the sanction of the Government may be obtained for the issue of orders in the P. W. Department for the early construction of a Sub Registry Office at Perindalamanna in the district of Calicut.

District of Calcutta.
~~But~~ 1039 W. of 7th January 1892
 Indus
 In the order
 Subd. in receipt Regd.