M.R.O. 1—20,002—12-8-65.

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(3) Initials of the Referencer

MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

Rev. DEPARTMENT

G.O. No.	119	Press
B.P. No.		Mis.
Dated	19-5-1873	196 .

Not to be folded or roughly handled

No. 48. Read the following letter from R. F. CHISHOLM, Esq., F.R.I.,B.A., Consulting Architect to Government, to Colonel G. W. WALKER, R.E. Secretary to Government, Public Works Department, Fort St. George, dated Madras, 4th April 1873, No. 316:—

I HAVE the honour to forward you the detailed quantities and general Specification of the Sub-Collector's Cutcherry issued as a Standard Design in G. O. No. 1,423, dated 9th September 1870.

1 Estimate.

SPECIFICATION.

Specification of work to be performed in constructing a Sub-Collector's Cutcherry.

STANDARD DESIGN.

Trenches.—After the centre lines and side lines of excavation have been lockspitted and approved of, excavate the earth to the full depth.

Depth.—The depths at which the building is to be founded will be determined by the local officer in charge of the works. The estimate provides for 4 feet which will be ample, unless the soil is very bad.

Written order to lay Concrete.—On receipt of a written order the Overseer or Contractor in charge of the work will proceed to lay the concrete.

The concrete will be rammed in layers of 6 inches, care being taken that no new layer is added before the one immediately underneath has been properly consolidated.

Brick-work.—On the completion of the concrete the centre lines will be carefully laid out and breadths of walling marked.

Footing Courses.—The footing courses will be in steps 6 inches high with 3 or 4 inch offsets on either side according to the drawing.

Walling.—The walling will consist of brick-work in chunam 1 foot 6 inches thick for main building, and 10 inches thick under verandah supports, to the different heights marked on Plan.

Splays.—All openings will have splayed sides measuring 4 inches on the face of the splay.

Arches.—The arches will be turned in four concentric rings of brick on edge.

Stone-work.—If stone is procurable at reasonable rates a 6-inch course will be used on top of basement wall under verandah supports, splayed at angles. Spiral step to be of stone if cheap.

Teakwood.—The teakwood trusses, rafters, verandah supports, etc., will be executed in strict accordance with the detailed Plans. The beams and joists will be splayed 1 inch on either side, 6 inches from point or crossing—See Specification G. O., No. 2,906, dated 16th November 1871.

Doors and Windows.—The doors and windows will be framed of 1½ inch battens in 5″ × 5″ frames splayed and rebated 1 inch sashes, raised and screwed panels. Venetians of ordinary construction.

Flooring.—The floor will be paved with square tiles or chunam.

Tiling.—The roof will be covered with pan tiles, with flat tiles underneath.

Plastering and Pointing.—The interior will be plastered with fine chunam, and the exterior pointed flush.

MATERIALS.

The bricks will be cast from moulds measuring * * * *
The lime will be carted from
The sand will be procured from
The teakwood purchased at
The whole of the details will be executed according to the working drawings.

OFFICE OF CONSULTING ARCHITECT,
4th April 1873.

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

SUB-COLLECTOR'S CUTCHERRY.

STANDARD DESIGN.

Detailed Quantities.

Description of Work.	No.	Length. FT.	IN.	Breadth. FT.	IN.	Depth. FT.	IN.	Contents.	Total.
Excavation for Foundations.									
Clerks and Sheristadars. front and rear walls	2	37	9	5	0	4	0	1,510	
Clerks and Sheristadars. end wall	1	24	6	3	11	4	0	384	
Clerks and Sheristadars. cross wall	1	11	6	5	0	4	0	220	
Court. front, rear and gallery wall	2	16	6	5	0	4	0	990	
Court. cross wall	1	26	6	5	0	4	0	530	
Court. do.	1	44	6	5	0	4	0	890	
Magistrates and Witnesses. front and rear walls	2	27	0	5	0	4	0	1,080	
Magistrates and Witnesses. end wall	1	22	6	3	11	4	0	353	
Magistrates and Witnesses. cross wall	1	12	6	5	0	4	0	250	
Record-room—front, rear and ends	1	82	0	5	0	4	0	1,640	
Spiral stairs	1	12	6	12	6	4	0	625	
Porch—front and ends	1	41	6	5	0	4	0	830	
Under verandah supports	1	38	0	3	10	4	0	583	
	1	26	0	3	10	4	0	399	
	1	28	4	3	10	4	0	434	
	2	34	9	3	10	4	0	1,066	
Steps	1	26	4	3	10	4	0	404	
	1	8	0	4	0	1	0	32	
Total cubic feet...	...	.....		.....		.....		12,290	
Cubic yards...	...	.....		.....		.....		.....	456
Concrete.									
Excavation ÷ 4 = Cubic yards...	...	.....		.....		.....		.....	114
Brick-work in Footings.									
Clerks and Sheristadars. front and rear walls	2	39	11	2	10	1	6	339	
Clerks and Sheristadars. end wall	1	22	4	2	10	1	6	95	
Clerks and Sheristadars. cross wall	1	16	8	2	10	1	6	71	
Court. front, rear and gallery wall	3	18	8	2	10	1	6	238	
Court. cross wall	1	28	8	2	10	1	6	122	
Court. do.	1	42	4	2	10	1	6	180	
Magistrates and Witnesses. front and rear walls	2	29	2	2	10	1	6	248	
Magistrates and Witnesses. end wall	1	20	4	2	10	1	6	86	
Magistrates and Witnesses. cross wall	1	14	8	2	10	1	6	62	
Record-room—front, rear and ends	1	82	0	2	10	1	6	349	
Spiral stairs	1	10	4	10	4	1	6	160	
Porch—front and ends	1	43	8	2	10	1	6	186	
Under verandah supports	1	38	1	1	10	1	6	105	
	1	26	1	1	10	1	6	72	
	1	30	4	1	10	1	6	83	
	2	34	10	1	10	1	6	192	
Steps	1	28	4	1	10	1	6	78	
Total cubic feet...		.....		.....		.....		2,666	
Cubic yards...		.....		.....		.....		.....	99
Brick-work above footings to floor level.									
Clerks and Sheristadars. front and rear walls	2	42	9	1	6	3	6	449	
Clerks and Sheristadars. cross and end walls	2	18	0	1	6	3	6	189	

Detailed Quantities.—(Continued.)

Description of Work.	No.	Length. FT.	IN.	Breadth. FT.	IN.	Depth. FT.	IN.	Contents.	Total.
Brick-work above footings to floor level.—(Continued.)									
Court. front wall	1	20	0	1	10	3	6	128	
Court. gallery and rear wall	2	29	0	1	6	3	6	210	
Court. cross wall	1	39	0	1	6	3	6	158	
Court. do.	1	41	0	1	6	3	6	215	
Magistrates and Witnesses. front and rear walls	2	32	0	1	6	3	6	336	
Magistrates and Witnesses. cross and end wall	2	16	0	1	6	3	6	168	
Record-room—front, rear and ends	1	82	0	1	6	3	6	431	
Spiral stairs	1	9	4	9	4	3	6	305	
Porch—front and ends	1	45	0	1	6	3	6	236	
Under verandah supports	1	38	3	0	10	3	6	112	
	1	26	3	0	10	3	6	77	
	1	31	4	0	10	3	6	91	
	2	35	0	0	10	3	6	204	
	1	29	4	0	10	3	6	86	
Steps	1	8	0	4	0	2	3	72	
									3,467
Deduct.									
Cut-stone on basement	1	196	0	1	0	0	6	98	
Porch ends...	2	10	0	1	6	2	6	75	
									173
Total cubic feet...	...	.....		.....		.....		.....	3,294
Cubic yards...	...	.....		.....		.....		.....	122
Brick-work above floor level.									
Clerks and Sheristadars. front and rear walls.	2	42	9	1	6	11	0	1,411	
Clerks and Sheristadars. cross and end wall.	2	18	0	1	6	11	0	594	
Clerks and Sheristadars. gables over do.	2	10	6	1	6	8	0	252	
Court. front and rear walls	2	20	0	1	6	21	0	1,260	
Court. gables over walls	2	11	6	1	6	9	0	311	
Court. gallery wall	1	20	0	1	6	11	0	330	
Court. cross wall	1	31	6	1	6	21	0	992	
Court. do.	1	41	0	1	6	21	0	1,292	
Magistrates and Witnesses. front and rear walls	2	32	0	1	6	11	0	1,056	
Magistrates and Witnesses. cross and end wall	2	16	0	1	6	11	0	528	
Magistrates and Witnesses. gables over do.	2	9	6	1	6	8	0	228	
Record-room. front, rear and ends	1	80	6	1	6	11	0	1,328	
Record-room. gables	2	11	6	1	6	8	0	276	
Turret	1	9	0	9	0	30	0	2,430	
Spiral stairs	1	11	0	3	6	1	0	39	
Parapet over do.	1	7	0	0	6	2	6	9	
Porch	1	8	0	1	6	9	0	108	
									12,444
Deduct.									
Entrance to Court	1	10	0	1	6	4	0	60	
	1	6	0	1	6	4	0	36	
Doorways*...	34	4	0	1	6	4	0	816	
Court—front upper lights...	3	4	0	1	6	4	0	72	
Turret windows	2	3	0	1	6	3	0	27	
Turret void	1	Area		38	6	30	0	1,155	
									2,166
Total cubic feet...	...	.....		.....		.....		.....	10,278
Cubic yards...	...	.....		.....		.....		.....	381

* NOTE.—Half the quantity of void only is deducted, the other half covering the cost of centering and archwork.

Detailed Quantities.—(Continued.)

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Cut-stone if procurable at reasonable rates.						
Verandah basement coping	1	196 0	1 0	0 6	98	
Steps { in front	3	10 0	1 3	0 6	19	
Steps { side	4	10 0	1 3	0 6	25	
Steps { spiral (if stone is cheap)	22	3 6	1 3	0 6	48	
Stone under trusses	14	1 6	1 6	0 6	16	
Total cubic feet...	...	.....	.....	.....	206	
Filling in.						
Clerks, Sheristadars and Record-room	1	59 9	18 0	1 9	1,882	
Court	1	36 6	20 0	1 9	1,278	
Magistrates and Witnesses	1	29 0	16 0	1 9	812	
Verandah { front and rear	1	150 0	5 2	1 9	1,350	
Verandah { ends	1	40 0	2 2	1 9	152	
Total cubic feet...	...	.....	.....	.....	.....	5,480
Cubic yards...	...	.....	.....	.....	.....	203
Teakwood.						
Clerks and Sheristadars—						
Trusses 18 feet span. { tie beams	2	21 0	0 4	0 6	7	
Trusses 18 feet span. { principal rafters.	4	11 3	0 4	0 5	6	
Trusses 18 feet span. { struts	4	5 3	0 4	0 3	2	
Trusses 18 feet span. { purlins	2	48 0	0 7	0 8	37	
Trusses 18 feet span. { do. wall	2	48 0	0 4	0 4	11	
Trusses 18 feet span. { ridge pole	1	48 0	0 2	0 9	6	
Common rafters	44	21 0	0 3	0 3½	68	
Cleats	44	1 6	0 3	0 3½	5	
Hip rafters	2	22 0	0 6	0 6	11	
Jack do.	24	7 6	0 3	0 3½	13	
Barge boards	2	21 0	1 1	0 1½	6	
Finial	1	10 0	0 3	0 3	0½	
Court—						
Trusses 20 feet span. { tie beams	3	23 6	0 7	0 5½	19	
Trusses 20 feet span. { principal rafters.	6	12 6	0 6	0 5½	17	
Trusses 20 feet span. { struts	6	6 0	0 4	0 4	4	
Trusses 20 feet span. { purlins	2	46 0	0 7	0 8	36	
Trusses 20 feet span. { do. wall	2	46 0	0 4	0 4	10	
Trusses 20 feet span. { ridge pole	1	46 0	0 3	0 2	9	
Common rafters	56	16 9	0 3	0 4	81	
Barge boards	4	16 9	1 1	0 1½	9	
Finials	2	10 0	0 3	0 3	1	
Magistrates and Witnesses—						
Trusses 16 feet span. { tie beams	1	19 0	0 4	0 6	3	
Trusses 16 feet span. { principal rafters.	2	9 6	0 4	0 4	2	
Trusses 16 feet span. { struts	2	4 6	0 3	0 3	1	
Trusses 16 feet span. { purlins	2	36 0	0 6	0 5	15	
Trusses 16 feet span. { do. wall	2	36 0	0 4	0 4	8	
Trusses 16 feet span. { ridge pole	1	36 0	0 2	0 9	5	
Common rafters	44	19 6	0 2	0 3	36	
Cleats	44	1 6	0 2	0 3	3	
Barge boards	2	19 6	1 1	0 1½	5	
Finial	1	10 0	0 3	0 3	0½	

Detailed Quantities.—(Continued.)

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Teakwood.—(Continued.)						
oom—						
ses 18 feet an. { tie beams	1	21 0	0 4	0 6	4	
ses 18 feet an. { principal rafters	2	11 3	0 4	0 5	3	
ses 18 feet an. { struts	2	5 3	0 4	0 3	1	
ses 18 feet an. { purlins	2	21 0	0 7	0 8	16	
ses 18 feet an. { do. wall	2	21 0	0 4	0 4	5	
ses 18 feet an. { ridge pole	1	21 0	0 2	0 9	3	
mon rafters	14	15 0	0 3	0 3½	15	
ge boards	2	15 0	1 1	0 1½	4	
al...	1	10 0	0 3	0 3	0½	
upports	8	1 0	1 0	0 0 4	6	
rafters	18	1 0	1 0	0 0 4	6	
cleats	18	20 0	0 3	0 3½	26	
collars	18	1 6	0 3	0 3½	2	
brackets A A	18	6 9	0 3	0 3½	9	
wallplate B.	8	4 9	0 3	0 3½	2	
breastsummer	1	25 0	0 4	0 9	6	
plank under gutter	1	25 0	0 5	0 6	5	
barge board	2	25 0	1 6	0 1	3	
finials	2	20 0	1 1	0 1½	5	
joists	2	10 0	0 3	0 3	1	
do.	5	22 0	0 6	0 3	14	
beams	1	22 0	0 6	0 4	4	
plank	2	9 0	0 1	0 0 10	15	
moulding	1	22 0	0 7	0 0 1	1	
rails	1	22 0	0 3	0 0 3	1	
wallplates	40	4 0	0 1½	0 0 1	2	
	4	9 6	0 6	0 4	6	
		mean				
	20	4 6	0 3	0 3	6	
rafters	4	1 0	0 3	0 3	1	
t. cleats	4	3 0	0 6	0 3	1¼	
angle pieces	1	3 0	1 6	1 6	14	
finial	4	1½ 0	0 7	0 1	3	
eaves board	18	10 0	0 5	0 5	31	
ndah supports						
Total cubic feet...	...	.....	.....	.....	657	
rought Iron-work in Trusses, etc.					LBS.	LBS.
nch dia. tie rods for 20 feet trusses.	3	6 = 25 6	× 4·09	=	104·30	
do. do. do. 18 ,, do.	3	7 6 = 22 6	× 2·62	=	58·95	
do. do. do. 16 ,, do.	1	6 3 = 6 3	× 1·02	=	6·37	
do. hex. nut and bolt head	3	.....	..... × 2·14	=	6·42	
do. do. do.	3	.....	..... × 1·10	=	3·30	
do. do. do.	1	.....	..... × 0·26	=	0·26	
do. do.	4	2 9 = 11 0	× 2·62	=	28·82	
do. bolts	4	1 5 × 0 6	.....	=	8·34	
do. washers	4	.....	..... × 1·10	=	4·40	
do. hex. nut and bolt head	4	.....	..... × 1·10	=	4·40	
on straps for trusses. 20 feet	6	3 6	0 2	0 ½	=	70·14
on straps for trusses. 18 do.	6	3 0	0 1½	0 ½	=	45·00
on straps for trusses. 16 do.	2	2 6	0 1	0 ½	=	8·35
ates for trusses. 20 do.	6	3 6	0 2	0 ⅝	=	12·51
ates for trusses. 18 do.	6	3 6	0 2	0 ⅝	=	10·02
ates for trusses. 16 do.	2	3 6	0 1¾	0 ⅜	=	6·57
pikes	340	6 6	0 ¼	0 ¼		35·53
Total lbs....	...	.....	.....	.....		409·28
Say lbs....	...	.....	.....	.....	.....	

Detailed Quantities.—(Continued.)

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Doors and Windows.						
Door. under gallery	1	6 0	8 0	.....	48	
Court. venetian and panel	33	4 0	8 0	.....	1,056	
gable windows	3	3 0	8 0	.....	72	
do. circular do.	3	3 0	3 0	.....	27	
Turret windows	2	2 6	7 0	.....	36	
Total Supl. feet...	...	.....	.....		1,239	
Painting.						
Interior doors	4/ 30	4 0	8 0	.....	3,840	
Exterior do	2/ 3	4 0	8 0	.....	192	
Door under gallery	4/ 1	6 0	8 0	.....	192	
Court. gable windows	4/ 3	3 0	8 0	.....	288	
circular	4/ 3	3 0	3 0	.....	108	
Turret windows	4/ 2	2 6	7 0	.....	280	
	2/ 2	21 0	1 3	.....	105	
Barge boards	2/ 4	16 9	1 3	.....	168	
	2/ 2	19 6	1 3	.....	97	
	2/ 2	15 0	1 3	.....	75	
	2/ 2	20 0	1 3	.....	100	
Eaves board, turret	2/ 4	14 0	0 9	.....	84	
Total Supl. feet...	...	.....	.....	.....	5,529	
Squares...	...	.....	.....	.....	.....	56
Pointing Exterior.						
Basement all round	1	383 0	.....	2 0	766	
Magistrates and Witnesses	1	83 0	.....	11 0	913	
Clerks and Sheristadars	1	109 0	.....	11 0	1,199	
Gables	1½	21 0	.....	8 0	252	
	½	19 0	.....	8 0	76	
Record-room	1	67 0	.....	11 0	737	
Court	1	57 0	.....	18 0	1,026	
Gables	½	21 0	.....	9 0	189	
Turret	1	27 0	.....	30 0	810	
Porch	1	21 0	.....	11 0	231	
Total Supl. feet...	...	.....	.....	.....	6,199	
Squares...	...	.....	.....	.....	.....	62
Plastering Interior.						
Clerks	1	78 6	.....	11 0	864	
Sheristadars	1	73 0	.....	11 0	803	
Court	1	100 0	.....	20 0	2,000	
Magistrates	1	54 0	.....	11 0	594	
Witnesses	1	68 0	.....	11 0	748	
Entrance	1	53 0	.....	20 0	1,060	
Tower	1	22 0	.....	30 0	660	
Record	1	76 0	.....	11 0	836	
Passage	1	18 0	.....	11 0	198	

Proceedings of the Madras Government, Public Works Department,
3rd May 1873.

Detailed Quantities.—(Concluded.)

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Plastering Interior.—(Continued).						
Gables	1	20 0	.....	9 0	180	
	3½	1[illegible]0	.....	8 0	504	
	2	1	.....	8 0	256	
Total Supl. feet...	...	.....	.....	.....	8,703	
Squares...	...	.....	.....	.....	.....	87
NOTE.—No deduction made for voids and no allowance for jambs and soffits.						
Tiling with Flat Tiles underneath including Reapers and Nails.						
Court	...	46 0	.....	34 0	1,564	
Magistrates and Witnesses	...	35 0	.....	40 0	1,400	
Clerks, Sheristadars and Record	...	68 0	.....	42 0	2,856	
Porch	...	25 0	.....	20 0	500	
Turret	...	28 0	.....	8 0	224	
Total Supl. feet...	...	.....	.....	.....	6,544	
Squares...	...	.....	.....	.....	.....	66
Terracing.						
Gallery	1	20 0	12 0	.....	240	
Squares...	...	.....	.....	.....	.....	2½
Flooring.						
Court	1	86 6	20 0	.....	730	
Clerks, Sheristadars and record	1	59 9	18 0	.....	1,076	
Magistrates and Witnesses	1	29 0	16 0	.....	464	
Verandah	1	149 6	5 2	.....	772	
Do. ends	1	60 8	2 2	.....	132	
Door pieces...	36	4 0	1 0	.....	144	
Total Supl. feet...	...	.....	.....	.....	3,318	
Squares...	...	.....	.....	.....	.....	33½

Proceedings of the Madras Government, Public Works Department, 3rd *May* 1873.

Abstract Estimate.

Quantity.	Item	Rate.	Amount.
		RS. A. P.	RS. A. P.
456 Cubic yards.	Excavation for foundations		
114 ,,	Concrete...		
99 ,,	Brick-work in footing		
122 ,,	Do. above foo[illegible] floor level ...		
381 ,,	Do. above flo[illegible]		
206 Cubic feet.	Cut-stone		
203 Cubic yards.	Filling in		
657 Cubic feet.	Teakwood...		
410 lbs.	Wrought Iron-work		
1,239 Supl. feet.	Doors and windows		
56 Squares.	Painting		
62 ,,	Pointing exterior		
87 ,,	Plastering interior		
66 ,,	Tiling with flat tiles underneath including reapers and nails		
2½ ,,	Terracing for gallery		
33½ ,,	Flooring		
	Allow for finishing tower, say extra ...	.....	250 0 0
7	Do. do. front windows, do.	.....	25 0 0
	Finials	2 0 0	14 0 0
	Contingencies at 5 per cent		
	Total...		

OFFICE OF CONSULTING ARCHITECT,
4th April 1873.

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

No. 49.

ORDER THEREON, 3rd May 1873, No. 1,264.

CIVIL WORKS, No. 2.

ORDERED that the papers furnished with this letter be printed and supplied to District Engineers for information and guidance in continuation of G. O., No. 1,666 of 11th July 1872.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To District Engineers.
,, the Consulting Architect.
,, the Revenue Department.
,, the Inspecting Engineer for Buildings.

No 119.

Exd. T. O'Connor.

[illegible] Spare Copies [illegible]

14 May 73

Rec'd 1873 c
No 139

Govt. of {1873} 32

PUBLIC WORK

To

DISTRICT ENGINEERS,

&c., &c., &c.

Dated, May 3rd

Rec'd May 17th 1873 Encl.

G. O., 3rd May 1873, No. 1,264

MAY

Nos. 48-49

Rec'd 19th May 1873

Sub-Collector's Cutcherry.—Detailed quantities and General Specification of Sub-Collector's Cutcherry on the Standard Plan, ordered to be printed and supplied to District Engineers.

No 119 - 19 May 1873

Watts Ward