

BRITISH INFANTRY.

Cook House for Married Men's Barrack.

MEASUREMENTS AND QUANTITIES

To accompany Type Drawing No. 7 E.

OFFICE OF INSPR.-GENL. OF
MILITARY WORKS, }

Simla, March 1879.

COOK HOUSE FOR MARRIED MEN'S BARRACK.

ITEM No.	DETAIL OF WORK.	No.	MEASUREMENTS.			QUANTITIES.	
			L.	B.	H.		
1	EXCAVATION.						
	I.—FOR FOUNDATIONS.					C. ft.	
	Longitudinal main walls, ...	2	51' 0"	2' 3"	2' 0"	459	
	Cross walls, ...	3	6' 7½"	2' 3"	2' 0"	89	
	Cooking places, ...	2	6' 7½"	7' 6"	2' 0"	199	
	Ditto, ...	1	6' 7½"	4' 10½"	2' 0"	65	
	Verandah end walls, ...	2	6' 6"	2' 3"	2' 0"	59	
	Verandah retaining wall, ...	1	46' 6"	1' 3"	0' 6"	29	
	Extra under pillars, ...	4	1' 10½"	1' 1½"	0' 6"	4	
							C. ft. 904
	II.—FOR PLINTH PROTECTION.						
	Front and rear, ...	2	50' 3"	2' 7½"	0' 4½"	99	
	End, ...	1	10' 5¼"	2' 7½"	0' 4½"	10	
							109
							C. ft. 1,013
2	CONCRETE.						
	I.—IN FOUNDATIONS.					C. ft.	
	Longitudinal main walls, ...	2	51' 0"	2' 3"	0' 9"	172	
	Cross walls, ...	3	6' 7½"	2' 3"	0' 9"	34	
	Cooking places, ...	2	6' 7½"	7' 6"	0' 9"	75	
	Ditto, ...	1	6' 7½"	4' 10½"	0' 9"	24	
	Verandah end walls, ...	2	6' 6"	2' 3"	0' 9"	22	
	Ditto retaining wall, ...	1	47' 3"	1' 3"	0' 3"	15	
	Extra under pillars, ...	4	1' 10½"	1' 1½"	0' 3"	2	
							C. ft. 344
	II.—IN PLINTH PROTECTION.						
	Front and rear, ...	2	50' 3"	3' 0"	$\frac{6" + 4\frac{1}{2}"}{2}$	132	
	End, ...	1	10' 5¼"	3' 0"	$\frac{6" + 4\frac{1}{2}"}{2}$	14	
							146
	CARRIED OVER, ...						490

COOK HOUSE FOR MARRIED MEN'S BARRACK.—(Continued.)

ITEM No.	DETAIL OF WORK.	No.	MEASUREMENTS.			QUANTITIES.
			L.	B.	H.	
4	BRICKWORK.					
	I.—IN FOUNDATIONS.					C. ft.
	Longitudinal main walls, ...	2	50' 3"	1' 6"	1' 3"	188
	Cross walls, ...	3	7' 4½"	1' 6"	1' 3"	41
	Ditto of Cooking places, ...	3	7' 4½"	1' 6"	1' 3"	41
	Abutments of arches in front of Cooking places, ...	10	0' 4½"	1' 6"	1' 3"	7
	Piers of ditto, ...	5	1' 10½"	1' 6"	1' 3"	18
	Partition walls in ditto, ...	5	1' 1½"	1' 1½"	1' 3"	8
	Verandah end walls, ...	2	6' 6"	1' 6"	1' 3"	24
	Ditto retaining wall, ...	1	47' 3"	0' 9"	0' 3"	9
	Extra under pillars, ...	4	1' 10½"	1' 1½"	0' 3"	2
			TOTAL IN FOUNDATIONS, ...			C. ft. 338
	II.—IN PLINTH.					
	Longitudinal main walls, ...	2	50' 3"	1' 6"	0' 9"	113
	Cross walls, ...	3	7' 4½"	1' 6"	0' 9"	25
	Ditto of Cooking places, ...	3	7' 4½"	1' 6"	0' 9"	25
	Abutments of arches in front of Cooking places, ...	10	0' 4½"	1' 6"	0' 9"	4
	Piers of ditto, ...	5	1' 10½"	1' 6"	0' 9"	11
	Partition walls in ditto, ...	5	1' 1½"	1' 1½"	0' 9"	5
	Verandah end walls, ...	2	6' 6"	1' 6"	0' 7½"	12
	Ditto retaining wall, ...	1	47' 3"	0' 9"	0' 6"	18
	Extra under pillars, ...	4	2' 0"	1' 3"	0' 6"	5
			TOTAL IN PLINTH, ...			218
	III.—IN SUPERSTRUCTURE.					
	Longitudinal main walls, ...	2	49' 10½"	1' 1½"	10' 0"	1,122
	Cross walls, ...	3	7' 9"	1' 1½"	11' 6"	301
	Cross walls of Cooking places, ...	3	7' 9"	1' 1½"	16' 6"	432
	CARRIED OVER, ...	...	...	...	...	1,855 556

COOK HOUSE FOR MARRIED MEN'S BARRACK.—(Continued.)

ITEM No.	DETAIL OF WORK.	No.	MEASUREMENTS.			QUANTITIES.	
			L.	B.	H.		
4	BRICKWORK.—(Continued.)					C. ft.	C. ft.
	BROUGHT OVER, ...	...	...	...	...	1,855	556
	III.—IN SUPERSTRUCTURE.—(Continued.)						
	Front walls of Cooking places (including arches and parapets), ...	5	7' 9"	1' 1½"	16' 6"	719	
	Partition walls in Cooking places, ...	5	1' 6"	0' 9"	16' 6"	93	
	End walls of cooking places (above longitudinal main walls and including parapets), ...	4	6' 4½"	0' 9"	6' 6"	124	
	Ditto ditto, ...	2	3' 9"	0' 9"	6' 6"	37	
	Verandah end walls, ...	2	6' 6"	1' 1½"	8' 9"	128	
	Top of chimney caps, ...	2	5' 7½"	8' 6"	0' 9"	72	
	Ditto ditto, ...	1	3' 0"	8' 6"	0' 9"	19	
	Parapets of main end wall, ...	2	5' 6"	1' 1½"	1' 9"	22	
	Ditto, Verandah end walls, ...	2	7' 6"	1' 1½"	1' 0"	17	
	Seats for sinks, ...	5	1' 9"	2' 6"	0' 4½"	8	
	Under fire places (taken as solid above plinth and including arches), ...	10	3' 6"	1' 6"	2' 6"	131	
	TOTAL, ...					3,225	
	DEDUCT.						
	(Two thirds of rectangular portion of all arched openings.)						
	Doors, ...	5	3' 9"	1' 1½"	6' 9"	95	
	Verandah arches, ...	2	3' 6"	1' 1½"	5' 3"	28	
	Arches in front of Cooking places, ...	10	2' 9"	1' 1½"	2' 3"	46	
	Arches under fireplaces, ...	10	2' 9"	2' 7½"	0' 3"	12	
	Windows, ...	5	2' 10½"	1' 1½"	1' 9"	19	
	Meatsafes, ...	5	2' 6"	1' 1½"	4' 0"	38	
	TOTAL DEDUCTIONS, ...					238	
	TOTAL IN SUPERSTRUCTURE (3,225—238) =					2,987	
	TOTAL BRICKWORK, ...						C. ft. 3,543

COOK HOUSE FOR MARRIED MEN'S BARRACK.—(Continued.)

ITEM No.	DETAIL OF WORK.	No.	MEASUREMENTS.			QUANTITIES.	
			L.	B.	H.		
5	CORNICES.					R. ft.	
	Chimney tops, sides, ...	6	10' 2"	...	...	61	
	Ditto ends, ...	4	6' 4½"	...	...	26	
	Ditto ditto, ...	2	3' 9"	...	...	8	
	Gable of main end wall, ...	2	6' 0"	...	...	12	
	Strings of ditto, ...	2	10' 0"	...	...	20	
	Wall plate cornices, ...	12	4' 6"	...	...	54	
	Eaves cornice at back, ...	1	49' 10½"	...	...	50	
	Brick weathering at ends of chimneys, ...	4	6' 4½"	...	...	26	
	Ditto ditto, ...	2	3' 9"	...	...	8	R. ft. 265
	TOTAL CORNICES, ...						R. ft. 265
6	DRESSED STONE.					C. ft.	
	Sinks, ...	5	2' 6"	1' 9"	0' 4"	7	
	Spouts of sinks, ...	5	2' 3"	0' 6"	0' 3"	1	
	Verandah pillars, ...	4	5' 7½"	0' 6"	0' 6"	6	
	Bases of ditto, ...	4	1' 1½"	1' 1½"	1' 0"	5	
	Sills for doors, ...	5	4' 6"	1' 1½"	0' 3½"	7	
	Slabs for chimney tops, ...	2	5' 7½"	8' 6"	0' 2"	16	
	Ditto ditto, ...	1	3' 0"	8' 6"	0' 2"	4	C. ft. 49
	Corbels for verandah bressummer, ...	2	1' 0¼"	1' 0"	0' 9"	2	
	TOTAL DRESSED STONE, ...						C. ft. 49
7	STONE FLAGGING—(1½" Thick.)					S. ft.	
	Floors of kitchens, ...	5	7' 9"	6' 4"	...	245	
	Ditto of verandah, ...	1	47' 7½"	6' 3"	...	298	
	Arches of ditto, ...	2	3' 6"	1' 1½"	...	8	S. ft. 551
	DEDUCT.						
	Pillar bases, ...	4	1' 1½"	1' 1½"	...	5	
	Chopping floors, ...	5	1' 6"	1' 10"	...	14	19
	TOTAL STONE FLAGGING, ...						S. ft. 532

COOK HOUSE FOR MARRIED MEN'S BARRACK.—(Continued.)

ITEM No.	DETAIL OF WORK.	No.	MEASUREMENTS.			QUANTITIES.		
			L.	B.	H.			
8	WHITE OR COLOR WASHING (<i>Interior</i>).					S. ft.		
	Longitudinal walls, kitchen, ...	10	6' 0"	...	10' 3" av.	615		
	Cross walls, ...	10	7' 9"	...	11' 3"	872		
	Cooking places, ...	10	All round. 10' 0"	...	14' 0"	1,400		
	Jambs and soffits of doors, ...	5	17' 6"	...	0' 4½"	33		
	Ditto and sills of windows, ...	5	9' 6"	...	0' 4½"	18		
	Ditto of arches in front of cooking places, ...	10	9' 0"	...	1' 1½"	101		
							S. ft.	
						TOTAL, ...	3,039	
	DEDUCT.							
	Doors, ...	5	3' 9"	...	6' 9"	127		
	Windows, ...	5	2' 10½"	...	1' 10½"	27		
	Meatsafes, ...	9	3' 0"	...	4' 5½"	120		
	Arches in front of Cooking places, ...	20	2' 9"	...	2' 3"	124		
	Ditto ditto, ...	20	(2' 9")² × 7854 2			59		
						TOTAL DEDUCTIONS, ...	457	
							S. ft.	
						TOTAL WHITE OR COLOR WASHING, ...	2,582	
9	DOUBLE TILING.					S. ft.		
	Main roof, ...	2	48' 0"	av. 6' 0"	...	576	S. ft.	576
	DEDUCT.							
	Chimneys, ...	4	6' 4½"	5' 0"	...	128		
	Ditto, ...	2	2' 7½"	5' 0"	...	26	154	
						TOTAL DOUBLE TILING, ...		S. ft. 422
10	SINGLE TILING.					S. ft.		
	Verandah roof, ...	1	48' 0"	9' 0"	...	432	S. ft.	432
						TOTAL SINGLE TILING, ...		S. ft. 432

COOK HOUSE FOR MARRIED MEN'S BARRACK.—(Continued.)

ITEM No.	DETAIL OF WORK.	No.	MEASUREMENTS.			QUANTITIES.		
			L.	B.	H.			
11	JOINERY.					S. ft.		
	Doors, ...	5	3' 3"	...	6' 9"	110		
	Windows, ...	5	2' 6½"	...	1' 8"	21		
	Meatsafes, ...	10	2' 8"	...	4' 6½"	121	S. ft.	252
						TOTAL JOINERY, ...		S. ft. 252
12	TIMBER FRAMED AND FIXED.					C. ft.		
	Battens of main roof, ...	8	6' 0"	0' 2½"	0' 3½"	3		
	Ditto ditto, ...	16	13' 1½"	0' 2½"	0' 3½"	13		
	Ridge battens, ...	1	6' 0"	0' 4"	0' 4½"	1		
	Ditto, ...	2	13' 1½"	0' 4"	0' 4½"	3		
	Wall plates of main roof, ...	16	4' 6"	0' 3"	0' 4"	6		
	Distance pieces between battens, on wall plates, ...	64	0' 9½"	0' 4"	0' 2"	3		
	Verandah rafters, ...	21	8' 3"	0' 2"	0' 4½"	11		
	Ditto wall plate, ...	1	47' 7½"	0' 3"	0' 4"	4		
	Ditto bressummer, ...	1	47' 7½"	0' 6"	0' 6"	12		
	Ditto pillar caps, ...	4	2' 6"	0' 6"	0' 6"	3		
	Ditto battens, ...	8	47' 7½"	0' 1½"	0' 1½"	6		
	Ditto ditto eaves, ...	1	47' 7½"	0' 1½"	0' 2"	1		
	Door frames, ...	5	17' 0"	0' 4"	0' 5"	12		
	Window frames, ...	5	10' 0"	0' 3"	0' 4"	4		
	Meatsafe frames, ...	10	16' 0"	0' 3"	0' 4½"	15		
	Ditto shelves, ...	15	2' 6"	0' 10½"	0' 1½"	4		
	Chopping floors, ...	5	1' 6"	1' 6"	1' 0"	11	C. ft.	112
						TOTAL TIMBER FRAMED &c., ...		C. ft. 112
13	PAINTING.					S. ft.		
	Twice area of doors, windows and meatsafes, ...		2 × 252	=	504	504	S. ft.	504
						TOTAL PAINTING, ...		S. ft. 504

COOK HOUSE FOR MARRIED MEN'S BARRACK.—(Continued.)

ITEM No.	DETAIL OF WORK.	No.	MEASUREMENTS.			QUANTITIES.		
			L.	B.	H.			
14	IRONWORK.				Weight in lbs.	lbs.		
	I.—IN ROOF.				—			
	Main roof wall plate straps, ...	8	1' 0"	(1½" × ¼")	Per R. ft. 1.263	10		
	Bolts for ditto, ...	16	0' 6"	(⅝")	1.033	8		
	Add for heads and nuts, ...	16	pairs	@	Per pair 0.364	6		
	Cramps to Verandah rafters, ...	21	2' 0"	(1" × ¼")	Per R. ft. 0.842	35		
	Bolts for ditto, ...	21	0' 4"	(¾")	1.488	10		
	Add for heads and nuts, ...	21	pairs	@	Per pair 0.500	11		
	Verandah wall plate cramps, ...	10	1' 9"	(2" × ¼")	Per R. ft. 1.684	29		
	Ditto pillar straps, inner, ...	4	2' 3"	(2½" × ⅜")	3.158	28		
	Ditto ditto outer, ...	4	1' 9"	(2½" × ⅜")	3.158	22		
	½" Bolts for ditto, ...	16	0' 8"	(½")	0.661	7		
	Add for heads and nuts, ...	16	pairs	@	Per pair 0.200	3		
	Bolts for capping pieces and bressummer, ...	8	1' 2"	(¾")	Per R. ft. 1.488	14		
	Add for heads and nuts, ...	8	pairs	@	Per pair 0.500	4		
	Bolts for rafters which do not overlie pillars, ...	17	1' 0"	(¾")	Per R. ft. 1.488	25		
	Add for heads and nuts, ...	17	pairs	@	Per pair 0.500	9		
	Iron dowels for posts, ...	8	0' 6"	(1" × 1")	Per R. ft. 3.340	13		
	TOTAL IN ROOF, ...					234	lbs.	2½ Cwt.
	II.—IN FIREPLACES AND OVENS.							
	Top and bottom plates, ...	20	(3½' × 1½')	(⅜")	Per S. ft. 7.50	831		
	Back plates, ...	10	(3½' × 1')	(⅝")	5.00	175		
	Side plates, ...	40	(1½' × 1')	(⅝")	5.00	250		
	Oven doors, ...	10	(1½' × ¾')	(⅜")	7.50	70		
	Hobs, ...	10	(2¾' × 1')	(⅜")	7.50	206		
						1,532		
	Add 10 per cent for angle irons, rivets, &c., ...					153		
	TOTAL IN FIREPLACES AND OVENS, ...					1,685	15	
	(N. B.—Average weight of each range, i. e. fire places and oven for one Family = $\frac{1685}{10}$ = 168½ lbs. say 1½ cwt.) ...					1,919	17½	
	CARRIED OVER, ...					1,919	17½	

COOK HOUSE FOR MARRIED MEN'S BARRACK.—(Continued.)

ITEM No.	DETAIL OF WORK.	No.	MEASUREMENTS.			QUANTITIES.		
			L.	B.	H.			
14	IRONWORK.—(Continued.)					lbs.	lbs.	Cwt.
	BROUGHT OVER, ...	...	...	...	...	...	1,919	17½
	III.—IN DOORS AND WINDOWS, &c.							
	Holdfasts for door and window frames, ...	40	2' 0"	(2" × ¼")	Per R. ft. 1.684	135		
	Bolts for above (including heads), ...	40	No.	@	each. 0.500	20		
	Iron dowels for doors, ...	10	0' 6"	(1" × 1")	Per R. ft. 3.340	17		
	Bars in meatsafes, ...	10	3' 0"	(¾")	1.488	45		
	Meat hooks in ditto, ...	20	No.	@	each. 0.500	10		
	Iron bands for Chopping floors, ...	5	6' 0"	(1½" × ¼")	Per R. ft. 1.263	38		
	TOTAL DOORS & C., ...					265	2½	
	TOTAL IRONWORK, ...					2,184	19½	
15	1½" EARTHENWARE PIPES in chimney top					No.	No.	No.
	gutters, ...	34	...	...	...	34	34	34

BRITISH INFANTRY.

Cook House for Married Men's Barrack.

ABSTRACT.

ITEM No.	DESCRIPTION OF WORK.	QUANTITY.		RATE.	PER	AMOUNT. Rs.	TOTAL. Rs.
1	EXCAVATION, ...	1,013	C. ft.		°/∞ C. ft.		
2	CONCRETE, ...	643	C. ft.		°/∞ C. ft.		
3	RAMMED EARTH, ...	490	C. ft.		°/∞ C. ft.		
4	BRICKWORK (including Arches and Pointing), ...	3,543	C. ft.		°/∞ C. ft.		
5	CORNICES, ...	265	R. ft.		R. ft.		
6	DRESSED STONE, ...	49	C. ft.		C. ft.		
7	1½" STONE FLAGGING, ...	532	S. ft.		°/∞ S. ft.		
8	WHITE OR COLOR WASHING, ...	2,582	S. ft.		°/∞ S. ft.		
9	DOUBLE TILING, ...	422	S. ft.		°/∞ S. ft.		
10	SINGLE TILING, ...	432	S. ft.		°/∞ S. ft.		
11	JOINERY, ...	252	S. ft.		S. ft.		
12	TIMBER FRAMED AND FIXED, ...	112	C. ft.		C. ft.		
13	PAINTING, ...	504	S. ft.		°/∞ S. ft.		
14	IRONWORK, ...	19½	Cwt.		Cwt.		
15	1½" EARTHENWARE PIPES, ...	34	No.		each		
						TOTAL, ...	
						ADD CONTINGENCIES @ 5 PER CENT., ...	
						GRAND TOTAL, Rs., ...	

Plinth Area = 823 S. ft. Rate per S. ft. of Plinth Area = Rs.

Rate per Married man = Rs.

All communications
to be addressed
to the Inspector
General of Military
Works.

No.

6680

FROM

Major General A. Cadell R.E.

INSPECTOR GENERAL OF MILITARY WORKS,

TO

THE Secretary to the Government of Madras
Public Works Department

Madras

S.M.L.A., 21st December 1881.

Sir,

In Continuation of this Office No. 5668
of 29th October 1881 I have the honor to forward
herewith 32 copies of the Type Estimate of Cook
House for Married Men's Barracks British
Infantry Series.

I have the honor to be
Sir

your most obedient Servant

N. Arnott Captain R.E.

In Charge Drawing Branch
Jm. D. for Inspector General of Mil. Works

* sent by packet post.

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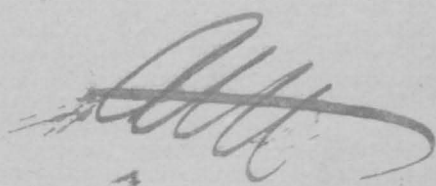
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