M.R.O. 1—77,006—8-6-37.

(1) Number of pages_____

(2) Date of repair_____

(3) Initials of the Referencer_____

MADRAS RECORD OFFICE.

Government of Madras.

Public works **DEPARTMENT.**

G.O. No. 3317 Press Mis.-

418-19

Dated 18 . 10 1866 .

Not to be folded or roughly handled

No. 418. Read the following letter from the Officiating Superintending Engineer, 4th Division, to the Secretary to Government, Public Works Department, dated Madras, 11th August 1866, No. 1,540:—

1. In reference to G. O., dated 14th ultimo, No. 2,219, I have the honor to enclose, for the consideration of Government, Plans and approximate Estimates, &c., marginally indicated.

4 Plans.
2 Original letters.
1 Demi-official from the Under Secretary, Public Works Department.

		Rs.
18	Double quarters for Ordnance Sub-Conductors on the design suggested by the Sanitary Commission... ...	1,87,200
18	Do. do. furnished by the Under Secretary, Department Public Works...	1,02,600
4	Double quarters for Commissariat Department on the design suggested by the Sanitary Commission... ...	41,600
4	Do. do. furnished by the Under Secretary to Government, Department Public Works	22,800

2. The site proposed for the Ordnance Sub-Conductors is immediately between the Civil Engineering College and Triplicane, and that for the Commissariat immediately north of the Railway Company's enclosure on North Beach towards Casemode.

From the Sanitary Commissioner, Madras, to the Executive Engineer No. 1 or North Range, dated Madras, 8th August 1866, No. 164.

1. I have the honor to acknowledge the receipt of your letter, dated 6th August, giving cover to site and building plans for the quarters to be erected at Chepauk for the Warrant Officers and Staff Sergeants of the Ordnance Department.

5 Plans.
1 Rough Sketch.

The building plans will, as I understand, be the same for the Commissariat Warrant Officers and Staff Sergeants.

2. As regards the site plan for the quarters to be erected at Chepauk, I would remark that, as shown in the plan, the proposed buildings are unnecessarily near the road, on the other side of which is a crowded part of Triplicane. As there is available space, a greater interval should separate the proposed new quarters from this road.

3. The plan of the quarters themselves appear to be open to the following objections:—

Insufficient sleeping accommodation is provided. It must be remembered that, almost without exception, the Warrant Officers and Sergeants are married, and have families. The Warrant Officers occupy a superior position in the Army, and should, in my opinion, have sufficient accommodation provided in the new quarters to ensure comfort and decency. The sitting-room is sufficiently large, but the only bed-room provided in the plan has a superficial area of 129 square-feet, which is not sufficient for two adults. According to the latest standard plan the bed-room of the married Soldier is 14 × 10, giving a superficial area of 140 square-feet, that is, 11 square-feet more than is proposed to be given to the Warrant Officers. In Barracks the married Soldier has a second room of the same dimensions as the sitting-room of the Warrant Officer, as shown in your plan.

4. In correction of the plan, which you have submitted, I would suggest that the new quarters should consist each of a sitting-room and two bed-rooms, according to the rough sketch which accompanies this letter.

5. The dimensions, as shown in this rough sketch, secure 180 square-feet to each bed-room. Each bed-room will have a bath-room attached to it, measuring 8′ × 8,′ and give an area of 64 square-feet. The sitting-room in the rough sketch is somewhat larger than in the proposed plan, namely, 15 × 18 instead of 18 × 12, and this will only give 54 square-feet more than is allotted to the room in a married private Soldier's quarters, intended to be used as the room in which he lives, as distinct from his sleeping-room.

But the position of the Warrant Officer appears to me to justify this difference, and the room proposed by me does not seem too large if it is to be used as a *sitting-room*.

6. I would suggest that the back verandah be only closed as regards the bath-rooms, and that the centre portion be left open to provide ventilation for the inner rooms. This verandah should, in accordance with the prescribed scale, be 8 feet broad.

7. I observe that in the proposed plan no separation between the cook-house and privy is indicated in the subsidiary buildings. These should certainly be distinct buildings. The cook-houses should be placed close to the rear of the quarters; and beyond the cook-houses, the privies should be built, but there should be no connection between the privies and cook-houses.

8. It may prevent delay if, in submitting the plans proposed by you, with the amendments I suggest the Secretary to Government, Public Works Department, is informed that before arriving at these conclusions, I have had the advantage of consulting Colonel Barrow, Officiating Inspector General of Ordnance and Magazines, Major Young, Assistant Commissary General, and yourself, and that the amendments proposed by me have been approved by these Officers.

9. In conclusion, I believe that, in consequence of the limit of space, it will be desirable to have double cottages instead of single cottages, the quarters being divided by separating walls in the front verandahs.

No. 419. ORDER THEREON, 18th October 1866, No. 3,319.

MILITARY WORKS, No. 17.

1. With this letter the Superintending Engineer of the 4th Division forwards plans, prepared in communication with the Sanitary Commissioner, of family quarters for the accommodation of the Non-Commissioned and Warrant Officers of the Ordnance and Commissariat Departments serving at the Presidency, and submits a letter to his address from the Honorable Mr. Ellis explaining the grounds on which he considers a greater extent of accommodation is required than has been given to the married men of Artillery at Saint Thomas' Mount. Captain Goddard estimates the cost of each block containing two sets of quarters on this plan at Rupees 10,400 if built in the usual permanent and substantial manner, and Rupees 5,600 if constructed of less durable materials.

2. The Government consider the accommodation proposed by the Sanitary Commissioner to be given in each set of quarters unnecessarily large, and the arrangement of the buildings such as to raise the cost to a maximum. His Excellency in Council considers that they should be of a cheap construction and that it will be sufficient to arrange the accommodation so as to give a sitting room 18 feet × 12 feet and a bed room 15 feet × 12 feet in the body of the building, and to provide a second bed room 14½ feet × 9 feet, and two bath rooms, each 9 feet × 6½ feet as well as a passage into the sitting room from the rear verandah. An open verandah on columns 9 feet wide will extend along the front.

3. The Government approve of a plan prepared on these conditions and direct that the Superintending Engineer of the 4th Division, to whom lithographed copies of the plans, and printed copies of the specifications and detailed measurements of quantities will be forwarded, will receive tenders for the erection of six blocks of two sets of quarters each, according to those specifications, on the North-Western Esplanade of the Fortress between the Memorial and Patcheappah's Halls, the front of each block to face seaward, and to be enclosed within a small hedged off compound.

4. With a view to the construction of these buildings being undertaken during the current official year, the Government resolve, in anticipation of the approval of the Government of India, to place a sum of Rupees 15,000 at the disposal of the Superintending Engineer of the 4th Division from the Budget allotment for the Lawrence Asylum Works in the Coimbatore District.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Total Brick building	Quantity	Description of Labor or Materials	Rate per Rod	Amount Rs a/
10489.		Main Building.		
1263.		Cook room		
868.		2 Privys.		
	12620	Plastering with 2 Coats of Chunam	7 per	
	108.	Honey Comb or open Brick work to the 2 Privys.	7 per	
		Main Building		
43.		2 Privys		
6		Teakwood wrought and put up	7 per	
	49.			
	630.	Doors half Batten half Venetian with frames Chamfer Kea complete to the Main Building	3 per	
	135.	Windows Venetian with frames &c as to Do	7 per	
		Cook room		
39.		2 Privys		
39.				
	78.	Doors Batten with frames &c Complete	7 per	
	2200	Beg green paint 2 Coats to the doors and Windows	7 per	
	150	Wood oil 2 Coats to the Lattys Runners	7 per	
		1 Coat to the Palmirah Couples Rafters and		
		ting foundation filling and Levelling the Earth 200 Cubys	3 Cubys	
		Timbers Charges and Scaffolding &c		

Estimate for Foreman's Estimate.

Each Total in Lins Quantity	Description of Labor or Materials	Rate	Amount Total
		Rs. P.	Rs. P.
6645.	Main Building		
298.	Cook room		
254.	2 Privys.		
3597	Foundation of Brickwork in Lime	Hundred	
1777.	Main Building		
177.	Cook room		
46.	2 Privys		
2000.	Basement of Brickwork in Lime.	Do	
741.	Upper part of Basement in Main Building		
751.	Coping & Cubes of Superstructure in Do.		
56.	Upper part of Basement in Cook room		
96	Coping & Cubes of Superstructure in Do.		
1614.	Brickwork in Chunam		
170.	Plastering of Main Building	Do	
8.	Do of Cook room		
	Circular Chunam	Do	
14.	in Main Building		
15	Do in Cookroom		
29.	Circular arch work in Chunam	Do	
8.	Masonry Columns of 8½ ft high by 1½ ft & 2 inches plastering Do	Each	
4846	Main Building		
513.	Cook room		
270.	2 Privys.		
5629	Superstructure Brickwork in Lime.	Hundred	
1975	Main Building.		
160	Cook room		
72	Privys		
2207	Flooring with brick Jelly in Chunam 6" thick well Rammed and Covered with 2 Coats of plaster	Square	
1500	Roofing to the Main room with Palmirah Couples & 2 Collar pieces, Rafters, Battens & Chunam borders.	Do	
2044	Roofing to the Main Building Front & Rear Verandah with long Palmirah Rafters, Purlins, Plate & Do Do.	Do	
407.	Cook room		
246.	2 Privys		
796.	Roofing with Palmirah Rafters, Purlins, Plate & Do	Do	

Detailed Estimate of Constructing 2 Warrant Officers Quarters in one block with out houses &c.

Description of Work	Number Similar	Measurements in feet: Length Each	Total Length	Total Length Required	Breadth	Height	Contents	Total Quantity
Foundations								
Principal walls front & rear	2	73 3/8	146 3/4					
Do at Ends	2	11	22.	168 3/4	2 1/2	3		1266.
Cross walls of Steam rooms	3.	11.	33					
Rear wall	1	"	73 3/4					
End and partition wall in rear	3	8.	24.					
Partition wall front Verandah	1	"	10 1/8	140 1/2	2 1/8	3		896.
Cross walls in rear	6	8	48					
End walls of front Verandah	2	8.	16.	64	1 3/4	3.		336.
Columns	8.	2 1/8	17.	17.	2 1/8	3.		108.
Retaining wall between Columns	1	"	"	54 1/4	1 5/8	3.		264.
Steps in front	2	7		14	5	1		70
Do in rear	8	3 1/2		28.	3 3/4	1	105.	3045.
Basement								
Principal walls front & rear	2	72 1/8	146 3/4					
Do at Ends	2	11 1/2	23.	168 3/4	2	3		1013.
Cross walls in Steam rooms	3	11 1/2	34 1/2					
Rear wall	1	"	72 1/8					
End and partition wall in rear	3	8 1/2	25 1/2					
Partition wall front Verandah	1	"	10 1/8	143	1 5/8	3.		697
Cross walls in rear	6	8 1/2	51.					
End walls of front Verandah	2	8 1/2	17.	68.	1 1/4	3		255
Columns	8	1 5/8		13	1 5/8	3		63
Retaining wall between the Columns	1	"		53 1/4	1 1/8	3		180
Steps front	2	7		14	5	1 1/2		2224 105
Do walls Ends	4	7		28.	2 1/4	1 1/2		32
Do rear	8	3 1/2		28.	3 3/4	1 1/2		157
					Basement of Steam Building Cubic ft			2510.

Detailed Estimate of Constructing 2 Warrant Officers Quarters in one block with out houses &c.

Description of Work	Number Similar	Measurements in feet: Length Each	Length Total	Length Total Length Brought out	Breadth	Height	Cubic Contents	Cubic Yards
Foundations								
Principal walls front & rear	2	73 3/8	146 3/4					
Do at Ends	2	11	22	168 3/4	2 1/2	3	1266	
Cross walls of Seam rooms	3	11	33					
Rear wall	1		73 3/4					
End and partition wall in rear	3	8	24					
Partition wall front Verandah	1		10 1/8	140 1/2	2 1/8	3	896	
Cross walls in rear	6	8	48					
End walls of front Verandah	2	8	16	64	1 3/4	3	336	
Columns	8	2 1/8	17	17	2 1/8	3	108	
Retaining wall between Columns	1			54 1/4	1 5/8	3	264	
Steps in front	2	7		14	5	1	70	
Do in rear	8	3 1/2		28	3 3/4	1	105	3045
Basement								
Principal walls front & rear	2	72 1/8	145 3/4					
Do at Ends	2	11 1/2	23	168 3/4	2	3	1013	
Cross walls in Seam rooms	3	11 1/2	34 1/2					
Rear wall	1		72 1/8					
End and partition wall in rear	3	8 1/2	25 1/2					
Partition wall front Verandah	1		10 1/8	143	1 5/8	3	697	
Cross walls in rear	6	8 1/2	51					
End walls of front Verandah	2	8 1/2	17	68	1 1/4	3	255	
Columns	8	1 5/8		13	1 5/8	3	63	
Retaining wall between the Columns	1			53 1/2	1 1/8	3	181	2524
Steps front	2	7		14	6	1 1/2	135	
walls rear	4	2		28	3/4	1 1/2	32	
rear	8	3 1/2		28	3 3/4	1 1/2	157	
Basement of Seam Building Cubic ft								2510

Deduct for 224 lft for brick in chimnies							2518.	
of 1 foot height on top of basement as stated in the Specification							741	
Total Basement of Main Building Cubic ft								1777
Superstructure								
Principal walls front & rear	2	72 3/8	144 3/4					
Do at ends	2	12	24.	168 3/4	1 1/2	16 1/2	4177.	
Cross walls to Main rooms & Gables	3	12	"	36.	1 1/8	18 1/2	749.	
Rear wall	1	"	"	72 3/8	1 1/8	9 1/4	754	
End and partition walls	3	9	"	27	1 1/8	12 1/4	372.	
Partition wall Front Verandah	1	"	"	10 1/8	1 1/8	12 1/4	139.	
Cross walls in rear	6	9	54.					
End walls of Front Verandah	2	9	18.	72	3/4	12 1/4	661.	
Superstructure of Main Building Cubic ft							6852.	6852.
Deduct for Doors, Windows flat & Circular arches &c								
Doors in principal walls.	12	4	48.					
Do small in Do.	2	3	6	54.	1 1/2	7	567.	
Windows in Do.	6	3	18	18.	1 1/2	4 1/2	121.	
Doors in Cross walls of Main rooms	2	4	"	8.	1 1/8	7.	63.	
Do in rear wall	6	3 1/2	"	21.	1 1/8	7.	165	
Do in Cross walls in rear	2	3 1/2	"	7.	3/4	7.	37.	
Windows in rear & ends	4	3	"	12	1 1/8	4 1/2	60.	1072
								170
								14
Arched Entrance	2	(4×5 × 42×7552 / 2)		26 1/4	1 1/8	59.	751	
						1072	2006	
Total Deduction								
Total Superstructure of Main Building Cubic ft								4846.
Deduct for Chimnies work on top of all walls.								
Principal walls.				168 3/4	1 1/2	1.	253.	
Cross walls.				145 1/2	1 1/8	1	164	
Do								
Jambs of the doors & windows as Specification will be 6 inches				72	1/4	1.	54	
							8 80	
							1/2	
							471.	
Total Superstructure of Main building Cubic ft								

							2574
Cross walls Main rooms	6	12	72	72.	"	18 1/2	1332
Front wall outside	1	"	"	69 3/4	"	15 1/2	1081
Rear wall Inside of Rear rooms	1	"	"	64 1/2	"	15 1/2	999
Rear wall Inside	1	"	"	64 1/2	"	9 1/4	596.
Cross walls north sides	16	9	144	144	"	12 1/4	1764
Front Verandah walls inside	4	10 1/3	40 1/2	40 1/2	"	12 1/4	496.
End wall Main outside	2	15	30	30	"	15 1/2	465
End walls of Verandah Front & rear outside	4	10 1/3	40 1/2	40 1/2	"	12 1/4	496
Rear walls outsides	1	"	"	72 3/8	"	8 1/2	616.
Basement all round	1	"	"	216	"	3.	648.
Ends of Steps in rear	8	3 3/4	30	30	"	3.	90.
do in front	4	7	28	28	"	6.	168.
Jambs & Soffits of large doors	14	18.	252				
do do Windows	6	15	90.	342	"	1 1/2	513.
do do Small doors.	10	17 1/2	175				
do do Windows	4	15	60.				
do do Arched Entrance	2	16 1/4	32 1/2	267 1/2	"	1 1/2	401.
Plastering Squares							12138
Deduct for							
Doors, large	14	8	112				
do Small	10	7	70.	182	"	7	1274.
Windows	10	6.	60.	60	"	4 1/2	270
Arched Entrance (area 26 1/4)	4				"		105
Total Deduction from Plastering							1649
Total Plastering in Building Squares.							10489
Excavating foundation filling and levelling the earth (200 Cubic yds.)							
Rough work as Specification							
Perpenniers to Front Verandah	1	"	"	72	1/3	2/3	16.
Wall plates to rear wall	3	72	"	218	1/2	1/4	27.
Total Rough work Cubic ft							43.

Flat arch work in Chunam

Doors in principal wall	12	5½	66.				
Do Do.	2	4½	9.				
Windows in Do.	6	4½	27.	102	1½	¾	115
Doors in Cross walls of Main rooms.	2	5½	11				
Do in rear wall.	6	5	30				
Windows in rear & Ends	4	4½	18.	59	1½	¾	50.
Doors in Cross wall	2	5		10	¾	¾	5
Total Flat arch Cubic							1703
Circular arch work in Chunam in rear wall. plastering complete	2	0	16.	16	1½	¾	14
Masonry Columns for Main Building Verandah	0	1½	9	9	1½	½	

Flooring

Large room in Main building	2	17½	35				
Small do do	2	14½	29.	64	11½		736
Large room in rear	2	13¾	27½				
Small do do.	4	6¼	25				
Passage in rear	2	4	8.	60½	8½		514.
Front Verandah	2	31⅞	60¾	63¾	8¾		601
Door ways &c							124 1975

Roofing

Front and rear Main Building	2	66	132				
Ends do do	2	7½	15.	147	7½		1102.
Ridge Ventilator throughout	1			66	6.		396. 1498
Front and Rear Verandah	2	73	146.	146.	14		2044.

Plastering

Principal walls inside	2	66.	132.				
Do Ends do	2	12	24.	155.		16½	2574.

Superstructure

Front and rear & End walls.	1			62¾	1½	8½	799.
Cross wall including Gable	1			8	1½	10.	91.
Superstructure							684 684.

Deduct for doors &c

Doors	2	3.	6	6.	1½	6½	44.
Circular openings	4	2	8.	8.	1½	1½	73. 57
Flat arch over the doors	2	4½	9	9	1½	¾	9 8.
Circular arch over the Wells &c	4	4½	18	18	1½	¾	15 15.
Chunam work on top of the wall				70	1½	1	91.
Do to the Lucas of the doors	2	13		26	7½	½	96.
Total Deductions Cubic							176.
Total Superstructure of Cook room Cubic							513.

Flooring

Rooms.	2	10.	20	20	8.		2.

Roofing

Sides and Ends.	2	30	60	60	7½		7.

Plastering

Front, rear & End walls inside	1			56.	8½		
Cross walls	2	8		16	10		
Walls and sides	1			66½	8		5
Basement	1			68½	2		
Sides & Soffit of doors.	2	76		32	1½		
Deduct for Doors	2	6		12	6½		1255
Total Plastering Superficial							

Doors.

Batten	2	3	6	6		6½	

Boards

Large ½ Batten ½ Vaulton

20	20		14	4	56	56		392
Small 20	20		8	3½	28	28	7	196
Window	Total Quoins		2	3	6	6	2	42
Partition								630
	Bank		10	3	30		4½	135
Reg	arm paint 2 Coats to Partition							135
	and Windows							
Wood	Oil 2 Coats to the Brickwork							2200
Coal tar 1 Coat to the plastered pieces								150
								4600

Cook Room

Foundation

Front and Rear walls.	2	24	48.				
End and Cross walls.	3	7	21.	69	2⅓	2	293
Steps	2	3	6.	6.	½	½	5
Total Foundations Cubic ft							298.

Basement

Front & Rear walls.	2	23½	47.				
End and Cross walls.	3	7½	22½	69½	1⅔	2	234
Steps	2	3	6.	6.	½	¾	7.
Basement of Cook room Cubic ft							283
For Cabinet							
Basement Chunam work				69.	1⅔	½	58
Total Basement for Cubic ft							177

For Privy

Foundation

Corner Pillars	1	4	2⅔	8½	2⅔	2	36.
Side walls.		4	5	20	1¾	2	70
Screen wall in front		1	6	6	1¾	2	21.
Total Foundation Cubic ft							127

Basement

Corner Pillars	4	1⅔	6½	1⅔	½	6.
Side walls.	4	5½	22.			
Screen wall	1	5½	5½	2½	1¼	½ 17.
Total Basement Cubic ft						23.

Superstructure

Corner Pillar	4	1⅔	4½	1⅔	7½	38.
Side walls	3	6	18.	¾	4½	61.
Screen wall	1	5	5	¾	5	18.
Front wall	1	6	6	¾	7½	33.
Superstructure						150
Deduct for door way	1	3	3.	¾	6½	15
Total Superstructure						135.

Honey Comb work

Sides above walls.	3	6	18	3	54.
Total Honey Comb work Superfices.					54.

Flooring Room	1	6	.	.	6	36.	
Total Flooring.							36.
Roofing Tiles	2	10¼	20½	.	6	123.	
Total Roofing.							123.
Plastering							
Corner Pillars	4	3	12	.	7½	90.	
Side walls in front	2	6	12	.	7½	90	
Do Sides & rear	6	6	36	.	4½	162.	
Screen wall in front	1	.	11½	.	5¾	66.	
Basement all round	4	8¾	35	.	¾	26.	
Total Plastering Squares							434.
Teakwood							
Rafters summer over opening work	4.	7½	30	5/12	¼	8.	
Total wood work							
Door	1	3			6½	19½	

5 W. Rec.d 18 October/66 Ans.d 24/10

OFFICE OF SANITARY COMMISSIONER,
MADRAS, 8th day of 1866.

No. 164

From The Honorable F. S. Ellis C.B.
Sanitary Commissioner, Madras.

To Captain J. Goddard R.E.
Executive Engineer, North Range.

SIR,

Enclosures
5 Plans
1 Sketch

I have the honor to acknowledge the receipt of your letter dated 6th August, giving cover to site and building plans for the quarters to be erected at Chepauk for the Warrant officers and Staff sergeants of the Ordnance Department. The building plans will, as I understand, be the same for the Commissariat Warrant Officers and Staff Sergeants.

2 As regards the site plan for the quarters to be erected at Chepauk, I would remark that as shewn in the plan, the proposed buildings are unnecessarily near the Road, on the other side of which is a wooded part of Triplicane. As there is available space, a greater interval should separate the proposed new quarters from this Road.

3 The plan of the quarters themselves appear to be open to the following objections.

Insufficient sleeping accommodation is provided. It must be remembered that, almost without exception, the warrant officers and Serjeants are married and have families. The warrant officers occupy

occupy a superior position in the army, and should, in my opinion, have sufficient accommodation provided in the new quarters to ensure comfort and decency. The sitting room is sufficiently large, but the only bed room provided in the plan, has a superficial area of 129 square feet, which is not sufficient for two adults. According to the latest standard plan the bed room of the married soldier is 14×10, giving a superficial area of 140 square feet, that is, 11 square feet more than is proposed to be given to the Warrant officers. In Barracks the married soldier has a second room of the same dimensions as the sitting room of the Warrant officer as shewn in your plan.

4. In correction of the plan which you have submitted, I would suggest that the new quarters should consist each of a sitting room and two bed rooms, according to the rough sketch which accompanies this letter.

5. The dimensions as shown in this rough sketch secure 100 square feet to each bed room. Each bed room will have a bath room attached to it measuring 8'x 8' and give an area of 64 square feet. The sitting room in the rough sketch is somewhat larger than in the proposed plan, namely, 15×18 instead of 18×12; and this will only give 54 square feet more than is allotted to the

to the room in a married private soldiers quarters, intended to be used as the room in which he lives, as distinct from his sleeping room.

But the position of the Warrant officer appears to me to justify this difference, and the room proposed by me does not seem too large if it is to be used as a sitting room.

6. I would suggest that the back verandah be only closed as regards the bath rooms, and that the centre portion be left open to provide ventilation for the inner rooms. This verandah should in accordance with the prescribed scale be eight feet broad.

7. I observe that in the proposed plan no separation between the Cook house and privy is indicated in the subsidiary buildings. These should certainly be distinct buildings. The Cook houses should be placed close to the rear of the quarters; and beyond the Cook houses, the privies should be built, but there should be no connection between the privies and Cook houses

8. It may prevent delay if, in submitting the plans proposed by you, with the amendments I suggest, the Secretary to Government P. W. D. is informed that before arriving at these conclusions I have had the advantage of Consulting Colonel Baron, Offg Inspector General of Ordnance and Magazines; Major Young, Assistant Commissary General and yourself, and that the amendments proposed

proposed by me have been approved by these officers.

9. In conclusion I believe that, in consequence of the limit of space, it will be desirable to have double Cottages instead of single Cottages. the quarters being divided by separating walls in the front Verandahs.-

I have the honor to be
Sir
Your obedient Servant

R S Ellis
Sanitary Commissioner
for Madras.

From 2/2/2335/67
The Sanitary Commissioner
Madras

To The Executive Engineer
North Range

Dated 8th
Recd Augt/66

No 164

Remarks on the proposed Plans of Warrant officers quarters &c.
& D 3336/66

Dem 10th October/66 Ln 2218.

No. 1540. Supt Engrs Office 4th Dn
Madras 11th August 1866

93

From
Captain J. Goddard R.E.
Officiating Superintending Engineer
4th Division

To
Colonel C. A. Orr R.E.
Secretary to Government P.W.D.

Sir,

In reference to G.O. dated 14th Ultimo No 2219. I have the honor to enclose for the consideration of Government plans and approximate estimates for a marginally indicated.

2. The site proposed for the Ordnance Sub conductors is immediately between the Civil Engineering College and Triplicane and that for the Commissariat immediately North of the Railway Company's enclosure on North

Encls 5
1 Plan of
2 Original Letters
1 Dense Office
from the Private
Secretary & Mr.

B.
18 Double Quarters for Ordnance Sub Conductors on the Collegie Enlargement by the Sanitary Commissioners } 187200
18 do do do Commissariat Do by the Public Works Dept No 102600.
4 Double Quarters for Commissariat Guards on the Chetpet Enlargement by the Sanitary Commrs } 41600.
4 do do by the Public Works Dept No 22800.

North Beach towards Casemode.

I have the honor to be
Sir
Your Most Obedient Servant
Dilgreaves Capt.n R.E.
Offg Supg Engr 4 Dn

Public Works Department

No 3319

PROCEEDINGS of the MADRAS GOVERNMENT.

Under date the 18th October 1866

From The Officiating Superintending Engineer 4th Division.

Read the following

(Here enter No. 1540 dated 11th August 1866.)

Letter No. 1540 dated 11th August 1866 from the Officiating Superintending Engineer 4th Division forwarding plans, estimate and report connected with the building of Quarters for Subordinate Officers of the Commissariat Department.

Read the following

Letter No. 3336 dated 14th August 1866 from the Officiating Superintending Engineer 4th Division forwarding plans, estimate and report connected with the building of Quarters for Subordinate Officers of the Commissariat Department.

P.W. 1866 Dept.

From A. 3336

The Officiating Supt. Engr. 4th Division

To

The Secretary to Government P.W.D.

dated 11th August 1866

Rec'd 14th " 1866

No. 1540.

Plans required &c.

Submits for the consideration of Government plans and Estimates for constructing quarters for Sub Conductors of Ordnance and Commissariat Departments and also states when it is proposed to erect them.

No 418.

No. 3319 - 18th Oct. 1866

grounds on which he considers a greater extent of accommodation is required than has been given to the married men of Artillery at Saint Thomas's Mount. Captain Goddard estimates the cost of each block containing two sets of Quarters on this plan at Rs. 10,400 if built in the usual and permanent and substantial manner, and Rs. 5,500 if constructed of less durable materials.

2. The Government consider the accommodation proposed by the Sanitary Commissioner to be given in each set of Quarters unnecessarily large and the arrangement of the buildings such as to raise the cost to a maximum. His Excellency in Council thinks that they should be of as cheap construction as consistent with sufficient and convenient accommodation so as to give a sitting room 18' × 12' and a bed room 15' × 12' in the body of the building, and to provide a second bed room 14½' × 9', and two Bathrooms, each 9' × 6¾', as well as a passage into the sitting room from the rear verandah. An open verandah on columns 9' wide will extend along the front.

3. The Government approve of a plan prepared on these conditions and

and direct that the Superintending Engineer of the 4th Division, to whom also is graphed copies of the plans, and printed copies of the specifications and detailed measurements of quantities will be forwarded, will receive tenders for the erection of five blocks of two sets of Quarters each, according to the specifications on the North Wesleyan Esplanade of the Fortress between the Memorial and Patchiappah's Falls, the front of each block to face seaward, and to be enclosed within a small hedged off compound.

3/

With a view to the construction of these buildings being undertaken during the Current Official year, the Govt. resolve, in anticipation of the approval of the Govt. of India, to place a sum of Rs. 15000 at the disposal of the Supt Engineer of the 4th D" from the Budget allotment for the Lawrence Asylum Works in the Coimbatore Distt.

To

The P. Engr 4th Divn Trichinopoly
The S.E.
Sanitary Commr
Mily Deptt
Contr Genl
A/Gl
Educl Dept
Accts

Copies orders on a
Letter from the Secretary Ordnance
to the Lieut. Dr. submitting Plans
and Estimates for the Con-
struction of Quarters for
Barrack and other Com-
missioned Officers offices
Stores and Commissariat
Establishments on the North
Eastern Esplanade of
Fort St. George.

A. 418-419.