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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Public Works.

DEPARTMENT

G.O. No.	3980 (W)	Press.
B.P. No.		Mis.
Dated	12. 10. 1878	197

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Archives I-10,006-19-4-79.

B.S. 28

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

12th October 1878, No. 3,980 W.

Buildings and Roads.
Civil Works.

Read the following paper:—

No. 156. From Major H. SMALLEY, R.E., District Engineer, South Canara, to the Chief Engineer, Public Works Department (Buildings and Roads), dated Mangalore, 3rd September 1878, No. 56.

I HAVE the honor to submit herewith, for sanction and provision of additional funds to the extent of Rs. 300, a revised estimate, amounting to Rupees 1,330, for the construction of Jailor's quarters at Mangalore.

One Detailed Estimate.	
One Abstract "do."	
One Comparative Statement.	

2. The original estimate, amounting to Rupees 1,030, was sanctioned in G.O., No. 1,292, of 16th April 1877, and Rupees 268 were granted for expenditure during the current official year in G.O., No. 2,661 W, of 27th June 1878.

3. The reasons for excess are given in the accompanying comparative statement.

No. 157. ORDER THEREON, 12th October 1878, No. 3,980 W.

THE revised estimate of Rupees 1,330, for reconstructing the Jailor's quarters at Mangalore, is sanctioned.

2. In paragraph 12 of G.O., No. 2,661 W, of 27th June 1878, the Financial Department were asked to provide Rupees 268 for this work. Orders will be issued in that Department for providing also the additional sum of Rupees 300 now required.

3. This sanction has been registered as Provincial No. 113 B of 1878-79.

(True Extract.)

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Govt., P.W.D.

(True Copy.)

Major, R.E.,
Under Secretary to Govt., P.W.D.

To the District Engineer, South Canara.
" Examiner of Public Works Accounts.
" Judicial Department.

Encl. B. C. Shunker.
Spare Copies

★
CHIEF ENGINEER
CIVIL WORKS

CHIEF OF PUBLIC WORKS
PUBLIC WORKS

TO DISTRICT ENGINEER
SOUTH CANARA

OSTOBER

NOV. 156-157.

For the Chief Engineer, Civil Works,
Public Works, South Canara,
Mangalore.

56
District Engineer's Office
Mangalore 3rd Sept 1878

From The District Engineer
South Canara

To The Chief Engineer
Roads & Buildings
Madras

Sir,
I have the honor to submit herewith for sanction and provision of additional funds to the extent of Rs 1030

Enclosures 3: three hundred & re.
1. Detailed estimate.
1. Abstract do. revised estimate and
1. Comparative statement amounting to Rs 1030
one thousand three hundred and thirty
for the construction of Sailors Quarters
at Mangalore.

2. The original estimate amounting
to Rs 1030 one thousand and thirty was
sanctioned in G.O. No. 1292 of 16th April
1877 and Rs 268 were granted for
expenditure during the current financial
year in G.O. No. 2661 of 27th June 1878.

3. The reasons for excess are
given in the accompanying comparison
and

Detail of work.	No.	Each length	Total length	Breadth	Depth	Contents	Total
Brought forward						938 7/8	
Filling in Basement							
Main Room	2	25 1/2	30 1/2	15 1/4	1 1/2	697 1/8	✓
Front verandah	1		29	7 1/4	1 1/2	315 3/8	✓
Rear - Side Rooms	2	7 1/4	14 1/2	7 1/4	4 1/2	473 1/8	
Ditto - Centre Room	1		13 3/4	7 1/4	1	99 1/8	
Total Earthwork Cft						2522 1/8	✓
or Cubic yards						938 27	

Lateral in Chuanan.							
Foundations.							
Front verandah and main Building five pillars	9	3	27	3	3	243	✓
Main Building S. W. Corner Pillar	1		3	3	4	36	✓
Rear Pillar	2	3	6	3	4	72	✓
Basement to above Pillars.	12	2 1/4	27	2 1/4	2	12 1/2	✓
Superstructure							
Front verandah and rear Rooms	6	1 1/2	9	1 1/2	8	108	✓
Main Building	6	1 1/2	9	1 1/2	13 1/2	182 1/4	✓
One layer on top of main Building	1		105	1 1/2	1 1/2	236 1/4	✓
Steps in front	1		7 3/4	3	1	38	✓
Do at sides in rear	3	8	24	4	3 1/4	72	✓
	6	13 1/2	21	3 1/4	3 1/4	59 1/8	✓

Total Lateral in Chuanan Cft 1168

Detail of work.	No.	Each length	Total length	Breadth	Depth	Contents	Total
Flat Arch work.							
Over large doors	5	4 1/2	22 1/2				
Do small do and large windows	7	3 3/4	26 1/4				
Do small windows	2	3 3/4	7 1/2				
			56 1/4	1 1/2	1 1/2	126 1/2	✓
Total Flat arch work Cft						126 1/2	
allud walls.							
Foundation to Retaining wall	1		26	2 1/4	1	58 1/2	✓
Front verandah	2	6 1/2	13	2 1/4	1	29 1/4	✓
Main walls Front	1		29	2 1/4	1	65 1/4	✓
Rear	1		11 1/2	2 1/4	1	25 1/8	✓
Cross walls	3	14 1/2	43 1/2	2 1/4	1	97 7/8	✓
Rear Rooms. Rear wall	1		11 1/2	2 1/4	1	25 1/8	✓
Ditto Cross wall	2	6 1/2	13	2 1/4	1	29 1/4	✓
Basement to Retaining wall	1		23 3/4	2 1/4	1 1/2	80 5/8	✓
Front verandah	2	5 1/4	11 1/2	2 1/4	1 1/2	38 13/16	✓
Do Main Building Front	1		30 1/2	2 1/4	2	137 1/4	✓
Rear			4 1/2	2 1/4	3	17 5/8	✓
			19	2 1/4	1	42 3/4	✓
Cross walls	3	15 1/4	45 1/4	2 1/4	2	205 7/8	✓
	1		11 1/2	2 1/4	2 1/2	116 7/16	✓
Rear Rooms - Rear wall	1		21 1/4	2 1/4	1	47 13/16	✓
	2	7 1/4	14 1/2	2 1/4	2 1/2	146 13/16	✓
Cross walls	2	7 1/4	14 1/2	2 1/4	1	32 5/8	✓
Carried over						1257 3/32	✓

Detail of work.

	sq	Cashlyt	Sallys	Breadth	Depth	Contents	sq ft
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Brought forward 1257 1/2

Superstructures.

Main Building	7	13	112	1 1/2	13 1/2	2248	✓
Gable	1		16	1 1/2	3	72	✓
Rear wall	1		33 1/2	1 1/2	8	402	✓
Side wall	4	8	32	1 1/2	11	528	✓
Total						4597 1/2	✓

Deductions.

Doors	5	3 1/2	17 1/2	1 1/2	6 1/2	170 5/8	✓
Windows	2	3	6	1 1/2	4 1/2	40 1/2	✓
Plat. Arch work as detail given above						126 1/2	✓
Total deductions						498 1/2	✓

Net Mud walls including deductions 403

Plastering with mud.

Main Building inside	2	54	128		14	1792	✓
Gables cross wall	1		16		5 1/3	85 1/3	✓
Rear Room End Inside	2	32	64				✓
Do. Centre do	1		45				✓
Verandah	1		36 1/2				✓
Main Building Outside	2	19	38				✓
Total						1199 1/2	✓

Detail of work.

	sq	Cashlyt	Sallys	Breadth	Depth	Contents	sq ft
--	----	---------	--------	---------	-------	----------	-------

Brought forward 417 1/3

Rear Room Ends outside	2	9 1/2	19		11	209	✓
Ditto Rear do	1		36 1/2		8	292	✓
Sides & soffits of Doors	5	16 1/2	82 1/2		1 1/2	123 1/2	✓
Ditto windows	2	15	75		1 1/2	112 1/2	✓
Total						493 1/2	✓

Deductions.

Doors	2x5	3 1/2	35		6 1/2	227 1/2	✓
Windows	2x2	3	12		4 1/2	54	✓
Total deductions						496 1/2	✓

Net Plastering with mud including 2 coats of white washing 444 1/2

Plastering with one coat of Chunan.

Verandah Pillars	4	6	24		8	192	✓
Face of Retaining wall to front	1		57		1 1/2	85 1/2	✓
Verandah all round	1		12 1/2		3	38	✓
Steps - Front Top	1		12		1/2	6	✓
Sides	2	6	12		1/2	6	✓
Rear & Sides Top	3	8	24		4	96	✓
Sides	6	8	48		2 1/2	108	✓
Total Plastering with one coat of Chunan						525 1/2	✓

Detail of work.

Detail of work.	No.	Each length	Width	Depth	Content	Est.
Flooring.						
Main Rooms	2	13 1/4	30 1/2	15 1/4	265 7/8	✓
Rear Rooms - Ends	2	7 1/4	14 1/2			
Do - Centre	1	-	13 1/4			
Verandah	1	-	32 1/4			
		51	7 1/4		442 1/4	✓

Total Flooring with latite yellow clay well
beaten & smoothed & painted with 2 coats of oil var

Wood work.

Wall Plates	1	45 1/2	7 1/4	1/3	12 1/8	✓
Broomcases	1	40 1/2	1/3	1/2	6 1/4	✓
Pillar Plates	4	4	1	1/8	1/2	✓
Hip Rafters	4	17 1/2	70	1/2	10 1/4	✓
					29 3/8	✓

Total jungle wood wrought & put up
Painting with 2 coats of Red Ochre.

Door Frames	5	19	95	1	175	✓
	5	16	80		227 1/2	✓
Shutters	5	13	65	3 1/2	120	✓
	5	12	60	3		✓
Windows Frames	2	24	48	1 1/2	47 1/2	✓
	2	17	34		54	✓
Shutters	2	9	18	2	35	✓
	2	7	14	2 1/2		✓
					719 1/2	✓

Total Painting with 2 coats of Red Ochre 400 sq. ft.

Detail of work.

Detail of work.	No.	Each length	Width	Depth	Content	Est.
Roofing.						
ellain Building	2	29	58	14	812	✓
	2	11 1/2	23	14	322	✓
Verandah - Front & Rear	2	40 1/2	81	11	891	✓
Total Roofing with jungle wood Rafters, Collar piers, rakers, nails tarred Machine Siles including tarring all wood work. Sq. feet.						2025
Ceiling with double Bambu matos &c Complete						2025
Batter Doors Large	5		(6 1/2 x 3 1/2)			5
Do - do - Small	5		(6 x 3)			5
Do - Windows Large Iron Banded	2		(4 1/2 x 3)			2
Do - do - Small wooden Banded	2		(2 1/2 x 3 1/2)			2

Mangalore
26 August 1878

H Davidson
Assistant Engineer
D. O. W.

H Mackay Mangalore
District Engineer
3/7/78

10

Particulars.	As per Original Estimate.				As per Revised Estimate.				Increase	
	Quantity	Rate	Amount	Unit	Quantity	Rate	Amount	Unit	Quantity	Rate
1. Earth work - 7750 cu. yds.	7750	1.00	7750.00	cu. yds.	7750	1.00	7750.00	cu. yds.		
2. Gravel - 1720 cu. yds.	1720	1.00	1720.00	cu. yds.	1720	1.00	1720.00	cu. yds.		
3. Sand - 1000 cu. yds.	1000	1.00	1000.00	cu. yds.	1000	1.00	1000.00	cu. yds.		
4. Cement - 1000 cu. yds.	1000	1.00	1000.00	cu. yds.	1000	1.00	1000.00	cu. yds.		
5. Labor - 1000 cu. yds.	1000	1.00	1000.00	cu. yds.	1000	1.00	1000.00	cu. yds.		
6. Material - 1000 cu. yds.	1000	1.00	1000.00	cu. yds.	1000	1.00	1000.00	cu. yds.		
7. Subtotal - 1000 cu. yds.	1000	1.00	1000.00	cu. yds.	1000	1.00	1000.00	cu. yds.		
8. Total - 1000 cu. yds.	1000	1.00	1000.00	cu. yds.	1000	1.00	1000.00	cu. yds.		

It was considered necessary to give the mud walls, foundation of some kind.

Foundations to the 2 rear and one main pillars laid 1 foot deeper, and steps at rear and sides built longer, than originally provided to suit the site; height of main pillars raised 1/2 foot higher as was actually necessary to secure uniformity of slopes in roof hence excess in quantity, wherefore in total cost, but actual working rate has been cheaper.

Original estimated rate is
rather low hence the slight excess.

Foundation to Grudwalls not having been provided in the original estimate and the basements etc. etc. having had to be built up higher than originally allowed, the quantity of work has exceeded. hence this excess.

Vide remarks p. 1.

Comparative Statement to accompany Revised Estimate for the Reconstruction

Particulars.	As per Original Estimate.				As per Revised estimate.				Increase			
	Quantity	Per	Rate	Amount	Quantity	Per	Rate	Amount	Quantity	Rate	Amount	Quantity
Brought over				2627.9				314.610			526.1	
5. Plastering with Mud 1827 1/2 100 ft	1.4.	60.57	4441	100 ft	1.4.	55.8.2					366 1/4	
6. Do. Chiman				525 1/2	3..	15.12.2		15.12.2				
7. Flooring with Latente jelly	3..	27.26	907 1/8		3..	27.26						
8. Wood work	20 7/8	1.12.	35.10.6	27 7/8	1.10.	48.21.5	9 7/8				12 7/8	
9. Painting wood oil 7 1/2 100 ft	1..	7.3.										
10. Do. same 7 1/2	2..		7 1/2	100 ft	2..	14.6.2		14.6.2				
11. Roofing					2.4.	4.3.5						
12. Flooring												
Revised sum				841.15				925.11				

4. ✓

11. 13. 5. ✓ { Saving due to some portions originally intended to be mud plastered being now proposed to be Chiman plastered. This has not been carried out but is included in revised estimate.

12. ✓ { About plaster being liable to be washed off at the very exposed parts Chiman plastering is allowed in stead. Vide above remarks.

13. ✓ { No remarks required.

14. ✓ { Less quantity than that actually required is allowed in the original estimate, as rafters being omitted these are now included under wood work hence excess in quantity and cost but actual working rate is cheaper.

15. ✓ { Wood oil is not procurable in the Market Local. Hence the substitution of Red Ochre Painting.

16. ✓ { Working rate has been cheaper than the saving.

17. ✓ { In working this small item got included in Roofing, hence omitted in the revised estimate.

18. ✓ { 3. 3. 1. ✓

Comparative Statement to accompany Revised Estimate for the Reconstruction of a Jailers Quarters at Mangalore

Item No.	Particulars.	As per Original Estimate.				As per Revised estimate.				Increase			Decrease			Remarks by Surveyors	Remarks
		Quantity	Per	Rate	Amount	Quantity	Per	Rate	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount		
	Brought over				841.15				915.11.0			95.1			31.31		
13	Bamboo mat Ciling				2025.100	4		81	81								This item is essentially necessary for machine tiled roofs hence allowed here
14	Large doors	5 each	17	80	860	5 each	17.8	89.5	89.5								slight excess due to a small allowance made for attending to the refitting of the shutters if found necessary within a year after their being originally fitted up. Doors & window shutters if fitted just before or during the monsoon generally require some refitting afterwards. it is difficult to get really seasoned timber.
15	Small doors	5	13.2	67.8	339	5	14	70	350								Excess is due to the above cause as well as to the providing of iron rods to these windows not originally intended but subsequently found necessary. These iron bars have been called for by the jail people.
16	Range windows	2	10	20	40	2	15	30	60								The original rate is too low by a rupee each, this together with the allowance made for subsequent refitting, hence caused this excess. Vide remark against No 14.
17	Small windows	2	6.5	13	26	2	8	16	32								Leveling the adjoining ground was absolutely necessary but not anticipated in the original estimate. The mud Buttraces were found necessary to protect the mud basements at rear and sides. No allowance was made in estimate for leveling and generally clearing of the site after completion of work.
18	Leveling ground																
	Grand total				1027.7				1027.7								

... ..

Remarks

Remarks by ...

Remarks

...

... ..

... ..

The

...

...

Albuquerque }
St. Augustin }

Signed / J. P. ...
District Engineer

Flavelly & ...

District Engineer
...

...

1
The above statement
is a true and correct
statement of the
facts of the case.

Handwritten notes at top left of the left page.

General Building

1st. General Building
2nd. General Building
3rd. General Building

1888

2nd. General Building
3rd. General Building

General Building

General Building

General Building
General Building
General Building

Handwritten notes at top right of the right page.

1888

1st. General Building
2nd. General Building

The General Building
of 1888 for reconstructing
a general building at Bangalore
is mentioned.

In June 18 of 1888
the General Building
is mentioned for reconstructing
a general building at Bangalore
is mentioned.

Handwritten notes at bottom of the right page.

His name is [unclear]
registered with [unclear]
[unclear]

11/1



My Dear

John's Charles, Manager

The most pleasant
to the for the
to — and the

Yours truly
[Signature]