

- (1) Number of pages 24
- (2) Date of repair _____
- (3) Initials of the Referencer 30. 9. 86

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P. W. D. DEPARTMENT

G.O. No.	27.85 W	Press.
B.P. No.		Mis.
Dated	8. 7. 1878	197

Not to be folded or roughly handled

B.S. ly

2785
1

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

8th July 1878, No. 2,785 W.

Buildings and Roads,
Civil Works.

Read the following paper:—

No. 64. From Major H. SMALLEY, R.E., District Engineer, South Canara, to the Chief Engineer, Buildings and Roads, dated Mangalore, 4th June 1878, No. 23.

I HAVE the honor to forward herewith a revised estimate, with comparative statement, for the work noted in the margin, as called for in G.O., No. 1,065 W, of 2nd March 1878.

No. 65. ORDER THEREON, 8th July 1878, No. 2,785 W.

UNDER the explanation afforded in the comparative statement, the revised estimate of Rupees 14,721* for renewing the roof of the Mangalore District Jail, and out-houses attached to it, is sanctioned.

* Inclusive of Rupees 420 for convict labor.

2. This sanction has been registered as Provincial No. 49 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 Secy. to Govt., P.W.D.

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

Exd. A. Raitt.
Spare Copies

BUILDINGS AND ROADS,
CIVIL WORKS.

Estt. of (1878) *Hydras.*
PUBLIC WORKS.

THE DISTRICT ENGINEER,
SOUTH CANARA,
Et., Et., Et.

Intd July 8th.

Intd

Intd

G. O., 8th July 1878, No. 2,785 W.

JULY.

Nos. 64-65.

District Jail, Mangalore, South Canara.
The revised estimate of Rupees 14,721, 1/-
for the roof of the —, sanctioned.

Detailed Estimate No. *11* of 1878-79
South Canara District.

1785
2

Work *Renewing the roof of District Jail and the*
houses attached to it at Mangalore

Detail of Work.	Number.	Measurements in feet.				Contents.	Total quantity of each description of work.
		Length.		Breadth or Thickness.	Height or Depth.		
		Each.	Total.				
<u>Roofing</u>							
with mortar and sand							
on high ground	1		40 1/2	20		4085	1
Do. on low land	1		40 1/2	20		1210	1
Plumb and Passes in run							
of jail walls	1		26	12 1/2		33 1/2	1
Plumb to passage in jail	1		16	12 1/2		200	1
Do. do. in run							
(inside of jail walls)	1		18	4 1/2		9 1/2	1
Veranda (inside of jail							
walls)	1		17 1/2	4 1/2		105 1/2	1
Plaster roof to cell No. 1	1		9 1/2	6		57 1/2	1
Do. do. do.	1		8	6		48	1
Do. do. do.	1		4	6		24	1
Do. Plastering run	1		9 1/2	6		57 1/2	1
Do. to cell No. 2	1		9 1/2	6		57 1/2	1
Do. to cell No. 3	1		8 1/2	6		51	1
Do. to cell No. 4	1		9	6		54	1
Do. to cell No. 5	1		10	6		60	1
Do. to cell No. 6	1		10	6		60	1
Do. to cell No. 7	1		10	6		60	1
Do. to cell No. 8	1		24	6		144	1

Detail of Work.	Number.	Measurements in feet.				Contents.	Total quantity of each description of work.
		Length.		Breadth or Thickness.	Height or Depth.		
		Each.	Total.				
<u>Zone sheeting</u>							
Zone sheeting to gable of Ventilators	26	16	416	1		416	✓
Do. — — — — —	3	16	48	1/2		72	✓
Total Sqft. of Zone sheet.							488
<u>Large windows with folding shutters</u>							
6				5 1/2	5 1/2	6	6
<u>Windows small</u>							
99				5 1/2	3 1/2	99	99
<u>Windows to Privy and Passage</u>							
4				2 1/2	2 1/2	4	4
<u>Do. at the gable</u>							
2				2	1 3/4	2	2
							111
<u>Police guard room & Contractor's store room Roofing with Cingles Machine tiles & Complete</u>							
<u>Main roof</u>							
1			42 3/4	29		1239 3/4	✓
<u>Verandah roof</u>							
1			33 1/4	9 1/2		315 7/8	✓
Total Sqft. of Roofing with Machine tiles & Complete							1555 1/8
<u>Jungle wood work</u>							
<u>Breast summer</u>							
1			33	8"	5"	9 1/6	✓
<u>Wall plates</u>							
2	42	84	6"	4"		14	✓
<u>Pillar plates</u>							
3	1 1/2	4 1/2	1 1/2	1 1/2		15 1/6	✓
Total Cft. of Jungle wood							24 5/8
<u>Windows small</u>							
4				5 1/2	3 1/2	4	4
<u>Do. — — — — —</u>							
1				4 1/2	2 3/4	1	1
<u>Do. — — — — —</u>							
1				4 1/2	2 1/2	1	1

Detail of Work.	Number.	Measurements in feet.				Contents.	Total quantity of each description of work.
		Length.		Breadth or Thickness.	Height or Depth.		
		Each.	Total.				
<u>Store room in front of Police guard room</u>							
<u>Roofing with junglewood Cingles & Machine tiles</u>							
Main roof	1		35	29		1015	✓
Verandah roof	1		33	9 1/2		313 1/2	✓
Total sqft. roofing with Machine tiles Cingles &c Complete						1328 1/2	✓
<u>Junglewood work</u>							
Breast Summer	1		32 3/4	8"	5"	9 1/2	✓
Wall plates	2	34	68	6"	4"	4 1/3	✓
Pillar plates	3	1 1/4	3 3/4	1 1/4	1 1/4	25	✓
Total Cft. of junglewood						21 1/2	✓
<u>Cook house for Debtors</u>							
<u>Roofing with Bamboo Machine tiles &c</u>							
Pent top	1		97 3/4	24 1/2		239 1/4	✓
Total Sqft. of roofing with Bamboo & Machine tiles						239 1/4	✓
<u>Junglewood work</u>							
Wall plates	2	97	194	6"	3"	24 1/4	✓
Ridge piece	1		97	7"	3"	11 3/8	✓
Total Cft. of junglewood						35 7/8	✓

Detail of Work.	Number.	Measurements in feet.				Contents.	Total quantity of each description of work.
		Length.		Breadth or Thickness.	Height or Depth.		
		Each.	Total.				
<u>Smith's Shop.</u>							
Roofing with Copper & Machine plates	1		82 1/2	32		2640	✓
Shore roof							2640
Total off roofing							
<u>Single wood work</u>							
Breadth cornice	1		8 3/4	8	5	19 3/4	✓
Wall plate in front	1		8 1/4	8 1/4			✓
Do in rear	1		12				✓
			93 1/2	6	4	1 1/4	✓
Plates plates	1	1 1/2	16 1/2	1 1/2	1 1/2	4 1/8	✓
Total off single wood							
<u>Cash House.</u>							
Roofing with single wood & Machine plates	1		106	32		3392	✓
Shore roof	1		26	5 1/2		143	✓
Roofing with 5 1/2 x 3/4 Machine plates							3535
Total off roofing with 5 1/2 x 3/4							
<u>Single wood work</u>							
Wall plates in front	2	100	200	1/2	1 1/2	33 1/3	✓
Do in rear	2	21	42	1/2	1 1/2	10 3/4	✓
Plates under beams	4	3	48	3/8	1 1/2	10 3/8	✓
Beams	8	21	168	3/4	1 1/2	33	✓
Principal rafters	16	11	176	1/2	3/8	14	✓
Side joists	5	7	56	1/2	1 1/2	10 1/8	✓
End joists	16	4 1/2	72	3/8	3/8	4	✓
Ends	16	1	16	1/2	1 1/2	2 1/2	✓
Roofing Machine	2	81	162	1/2	1 1/2	11 1/4	✓
End line	1		7 1/2	1 1/2	1 1/2	1 1/2	✓
Roofing pine	4	21	84	1 1/2	1 1/2	4	✓
Shore rafters	1		24	1/2	1 1/2		✓
Roofing with 5 1/2 x 3/4 Machine plates							

Detail of Work.	Number.	Measurements in feet.				Contents.	Total quantity of each description of work.
		Length.		Breadth or Thickness.	Height or Depth.		
		Each.	Total.				
<i>Total Qty. of Jungles work</i>							
<i>Iron straps</i>	24					24	24
<i>Gate shutters</i>	1		7 3/4			1	1
<i>Laborer in Chumam</i>							
<i>Foundations to pillars</i>	1		3	3	1 1/2	13 1/2	1
<i>Basement to D.</i>	1		2 1/2	2 1/2	1	5 1/2	1
<i>Pillar above</i>	1		1 1/2	1 1/2	8 1/2	7 1/2	1
<i>Basement between pillars</i>	1		12	3 1/2	1	9	1
<i>Total Qty. of Laborer in Chumam</i>							
<i>White washing</i>							60.20
<i>Plastering</i>							37 1/2
<i>Turning points of the</i>							
<i>portion of the roof</i>							530 1/2
<i>Overhauling the old roof</i>							
<i>Mangalore</i>							
<i>By J. P. S. S. S.</i>							
<i>24 June 1882</i>							
<i>Quarrelly Major P. B.</i>							
<i>District Engineer of</i>							
<i>17/1/82</i>							
<i>comd.</i>							

Work. *Renewing the Roof of District Jail and Cell house attached to it. at Mangalore* $2285/6$

Quantities.	Description of work.	Rates.			Amount.		Total.	
		Per	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.
	Roofing with jungle wood Coppelis (6x3)							
3/533 1/4	scaffers 2x1 double layer of Pambles & Coppelis.	100 Sp	28	9 11	9224	129 8		
10/2 2/2	Jungle wood wrought & put up	Sp	1	28	15 2 2 1/2			
488 Sp	Zinc sheets	Sp		24	71	2 2 1/2		
122	6 Folding window shutters (5 1/2 x 2 1/2)							
	108 Shutters of window (5 3/4 x 2 3/4)		9	13	117 3/4			
	8 " " " (3 1/2 x 2 1/2)							
4 1/2 Sp	Lathes in chamber	100 Sp	19	15	8	59 1/2		
552 1/2 Sp	Roofing with jungle wood Coppelis 6x3 scaffers 2x1 and machine tiles 100 Sp		24	139	1373	4 3/4		
2395 Sp	Roofing with Bamboo machine tiles & Coppelis		11	49	270	7 3/4		
3535	Cook house roofing with scaffers 5x2 1/2 up to 2x1 machine tiles & Coppelis		20	11 10	731	9 5 1/2		
24	Iron straps	Pack	1	15	41	2 8 1/2		
760. 20 Sp	White washing	100 Sp		17	75	2 5 1/2		
	Flooring				11	14		
	Dismantling				516	12 10		
Carried over					15125	112	15125	112
Carried over							4	12 5

1875
D. P. W. South Canara District.

Detailed Estimate No. 11 of 1875-7

Work.

Renewing the roof of District Jail and Cell house attached to it at Mangalore

Quantities.	Description of work.	Rates			Amount.		Total.	
		Per	Rs.	A. P.	R.	A. P.	Rs.	A. P.
	Brought forward				152	4 2		
3769 1/2	Plastering	10 1/2	3	4 2	122	10 8		
1	Gate handle				75	12		
3301 1/2	Joining Panthies of the roof	10 1/2	6	2 1	202	5 4		
	Smiches and repairs				810	15		
	Total Repairs				1325	10 3 1		
	Deduct value of old materials				115	2 11		
	Net amount of Estimate						1210	0 4
	Deduct amount of Current labour						420	0
	Net Estimate Repairs						790	0 4

Inspected by J. P. Hamilton
15 March 1873 Assistant Engineer

Approved by
District Engineer

Inspected by
14 June 1873

Estimated by
24/10/73

Details of actual expenditure for preparing window shutters of the District jail at Mangalore.

		2785/8	Amount
Description of work			
3118	Qty. of rough timber ($8\frac{1}{2}$ as average) —	217	7/1
	Qty. of sawing —	66	4/0
	Hire of hauling up logs —	8	7/
	Conveyance of planks —	2	13/
	Value of 665 hinges 6" —	204	4/
	Do. of screws —	94	0/9
	Do. of 2 1/2" strands of iron —	5	6/5
	Do. of Charcoal —	19	0/
	Do. of Copper nails —	2	/
	Do. of — — — — —	3	/
	Labr. —	572	10/4
Total Rupees —			1197 9/5

For preparing 6 Large window shutters $5\frac{1}{2} \times 5\frac{1}{2}$, 108 small $2\frac{3}{4} \times 5\frac{3}{4}$ and 8 smaller $2\frac{2}{3} \times 2\frac{2}{3}$ on an average to prepare 124 window shutters $2\frac{3}{4} \times 5\frac{3}{4}$.

Data for preparing one window shutter $2\frac{3}{4} \times 5\frac{3}{4}$

		Amount
Description of work		
3 1/2	Qty. of rough timber —	1 12/1
22	Qty. of sawing —	8 7/
	Hauling logs —	1/
	Hire for conveyance of planks —	5/
	Value of iron hinges —	1 10/4
	Do. of — — — — —	12/3
	Do. of — — — — —	4 12/5
Carried over —		

1878

D. P. W. South Canara District.

Abstract Estimate No. // of 187879.

Work.

Preparing the rough of District Jail and 108 window shutters 6-4 at Mangalore

Amount Rupees

4,300 — 0/0

Brought over	4 12
Value of iron for hooks	9
Do of Char coal for do	2 3
Do of Copper Nails	2
Do of do do do	5
Labor	4 9 10
Sum due	5

Total Cost for one 9 10 6

1978
5

It may be observed from the above Data that the cost of labor for 1 shutter is high. But this includes labor for removing the old shutter as well as the dressing of the rebate of the window frame for fitting the shutter in.

The new planks for shutters were first planed and checked for seasoning. In this process some got warped and bent and consequently they were to be fitted again. These well seasoned shutters being fitted up during dry weather when they are perfectly contracted got expanded again in monsoon and did not shut up properly. This defect was observed by the Divisional Officer and orders were given to make them shut properly. They were again dressed up. Hence all this additional cost has increased the rate.

Camp Nagode
30 Jan 1878

Col J D Davidson
Assistant Engr. & Co.

Mangalore }
4 Jan 1878 }
Hussey Major R.E.
District Engineer
Mangalore

Capt. Ch.

N:23

District Engineer Office
Mangalore 4th June 1878.

From

The District Engineer
South Canara

2785
10

To

The Chief Engineer
Roads & Buildings

Sir,

I have the honor to forward
herewith a revised Estimate with com-
parative statement for the work noted
Removing the roof of kitchen in the margin as
Jail and out houses attached called for in G.O.
No. 1065 N of 2^d March 1878.

I have the honor to be
Sir
your Most obedt Servt

A. Huxley
District Engineer

South Canara

Definite if actual cost
- estimate for the purpose
- and under authority of
the District Engineer
Mangalore

2785-8-78

G.O. No 1065W of 2 March/78
 " " 247W - 15 Jan'y -
 " " 1785W - 26 Nov/77
 " " 77 - 14 Jan'y/78
 " " 7 - 2 Nov/74

1877
 From
 The District Engineer
 S.

The Chief Engineer
 Public Works Building

Dated 4th June 1878

No. 23

Encls. 4

Renewing the roof of the
District Jail &c at Mangalore

Forwarding revised Estimate
 - as called for in the within
 mentioned G.O.

To acty 4-7-78 to 10-7-78

circ. 7.78 Alā 8.7.78

No 2785
 PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

Read the following:—

Public Works Department.

From,

The District Engineer
 South Canara

(H.E. No. 23 of 4th June
 1878.)

Under the explanation
 in the supplementary statement,
 now afforded, the
 revised estimate of
 Rs 14,421 for renewing
 the roof of the Mangalore
 District Jail and out
 houses attached to it
 is sanctioned. W.
 6.7.78.

+ Inclusion of Rs 420
 for Convict Labor.

Sd/- South Canara

Esqr. P. H. Achari, P. H. Achari

Jud. Department

DP

MT

Exp. 18-7-78

27 85
12

Sample

111017

2255

To acty 4-7-78

Cir 4.7.78 Det 8.7.78

1878

Gobt. of (1878) Madras.

PUBLIC WORKS.

To The D.E. South Canara

Dated

Issued

Recd.

Encl.

G. O., 8th July 1878, No. 27052

Nos.

District Jail, Mangalore, Canara

The revised estimate of
Rs 14,721 for re-roofing the
roof of the — Sanctioned.

Ento. in Regd.