

(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.

1580 (W)

Press

Mis.

Dated

10-11-

1877.

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

10th November 1877, No. 1,580 W.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 88. From J. D. GRANT, Esq., Officiating District Engineer, Tinnevely, to the Chief Engineer, Public Works Department, dated Palamcottah, 23rd October 1877, No. 108.

I HAVE the honor to submit, for the sanction of Government, a revised estimate for constructing Police huts at Melathattapare, amounting to Rupees 1,490, being Rupees 130 in excess of the original estimate sanctioned in G.O., No. 721, of 2nd March 1877.

2. Of this excess Rupees 51 arises from concrete and asphalt flooring being substituted for brick jelly in mud as ordered by the Deputy Chief Engineer in his memorandum, No. 1,350, of 23rd May 1877, and the remainder from the substitution of sun-dried brick in clay for simple mud in the compound wall.

3. The other alterations are shown in the comparative statement.

No. 89. ORDER THEREON, 10th November 1877, No. 1,580 W.

THE revised estimate of Rupees 1,490 for constructing Police huts at Melathattapare, in the Tinnevely District, is sanctioned in lieu of that sanctioned in G.O., No. 721, dated 2nd March 1877.

2. This sanction has been registered as Provincial No. 210 B of 1877-78.

(True Extract.)

Colonel, R.E.,
Secretary to Government, P.W.D.

To the District Engineer, Tinnevely.
" Inspector-General of Police.
" Examiner of Public Works Accounts.
" Judicial Department.

Exd. A. F. Goodall.
Spare Copies

DIVISION *Tinnevely* No. **Ottapidaram* TALUQ..

Comparative Statement shewing the difference between the Original and Revised Estimates for

Constructing Police Huts for 3 Constables and 1 Head Constable at Melathattaporie.

Tables and 1 Head constable at Melathalappore.												
Description of work.	Units of Measurement	Original.			Revised.			Revised.				Remarks.
		Quantities	Rate.	Amount.	Quantities	Rate.	Amount.	Less than Original.		In excess of Original.		
								Quantities	Amount.	Quantities	Amount.	
Brick work in mortar	Cy 2 1/2	39 1/2	4 8	177 12	"	"	"	"	177 12	"	"	
Rough stone in chunam	Do	"	"	"	16 3/4	3 8	57 28	"	"	"	57 28	
Squared stone in mortar	Do	"	"	"	23 1/2	5	115 13 1/2	"	"	"	115 13 1/2	Bricks are not procurable square stones are substituted.
Sundried brick in clay	Do	158	1 8	237	158	2 1/2	316	"	"	"	79	
Plastering with mud & whitewashing	Square	6520 1/2	" 12	48 14 5	6520 1/2	" 12	48 14 5	"	"	"	51	See D. Chief Engineer's Memo No. 1250 of 23 May 1877.
Flooring with brick jelly in mud	Square	800	" 10	5	800	" 10	5	"	"	"	"	
Roofing with jungle wood rafters single collar pieces bamboo reapers nails, pan tiles &c complete	Do	2287	20	457 65	"	"	"	"	457 65	"	"	
Roofing with palmirals rafters, single collar pieces reapers nails, pan tiles &c complete	Do	"	"	"	2287	20	457 65	"	"	"	457 65	
Tarring wood work	Do	1000	1	10	1000	1	10	"	"	"	199	
Congoo wood wrought and put up	Cft	"	"	"	66 1/3	3	199	"	"	"	"	
Jungle wood wrought and put up	Do	66 1/3	2 8	165 13 1/2	"	"	"	"	165 13 1/2	"	"	
Batten doors with frames, hooks hinges bolts &c complete - 3 x 6	No	4	13 8	54	4	13 8	54	"	"	"	"	
Batten window shutters with frames wooden bars &c complete 2 1/2 x 3	No	6	7 8	45	6	7 8	45	"	"	"	"	
Do Do Do 2 x 2	No	4	4	16	4	4	16	"	"	"	"	
Mud wall for compound	Cy 1/2	150 1/2	" 4	37 10	"	"	150 1/2	"	"	"	150 1/2	
Sundried brick clay wall for compound	Cy 1/2	150 1/2	" 2	"	150 1/2	" 2	301	"	"	"	301	
Filed coping	Do	118	" 4	29 8	118	" 4	29 8	"	"	"	"	
Stone Slabs	No	18	" 4	4 8	18	" 4	4 8	"	"	"	15 3 1/2	
Excavating foundation & Sundries				41 7 10			56 11 2	"	"	"	14	
Extra Establishment				30			44	"	"	"	"	
Total Estimate Repees				1360			1760		838 99		1238 99	
Deduct amount sanctioned in G.O No 721 of 2 nd March 1877							1360		706 07		1066 07	
Net amount requiring sanction							400					
Annistly Division Office Palamcottah 25 th July 1877												
H. Hughes C.E. Division Officer												

W. Hughes
Division Officer

Tinnevely Division Office
Palaniottah 25th July 1877

* P. S. Estimate Despatch Register No. from the Division office.

W. Springham
Major

Supt of Police

W. Sutherland
Major

D. Kent
District Engineer

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Specification report to accompany the estimate for constructing Police Huts for 3 Constables and 1 Head Constable at Melathattapari.

1. Amount of Estimate Rupees ¹⁴⁹⁰ 1760

2. The estimate is now prepared according to the standard plan accompanying G.O. No. 462 dated 24 February 1874.

Rough & Squared Stone.

3. The foundation and basement of pillars will consist of rough stone in mortar and the Superstructure of Squared Stone in mortar prepared in proportion of 1 of lime to $1\frac{1}{2}$ of clean sand well mixed and pounded together. The joints to be well raked out and pointed.

Sundried brick work.

4. The foundation and Superstructure of wall between pillars and compound walls to be built of sundried brick in clay.

Plastering.

5. The sundried brick walls between pillars to be plastered with a mixture of clay, sand and cowdung not less than $\frac{1}{6}$ of the whole mixture being cowdung. This to be applied to the walls and rubbed smooth. After drying a thick coat of whitewash should be laid over.

Flooring.

6. Flooring to consist of broken stone and gravel 3" deep well watered and tamped smeared over with clay.

Roofing.

7. The roof to be of palmirah wood couples with single collar piece, palmirah keepers, nails and pan tiles Chunnam borders to ridge and eaves complete. The couples should be of good and selected black palmirah wood. The tiles to be laid with $\frac{2}{3}$ over lap of the length. The ridges to be made watertight with mortar and chunnam borders to be laid to run round the edges and eaves.

Woodwork.

8. Wood work to be well seasoned vauque or congoo free from defects wrought and finished and to be of the scantlings provided in the estimate.

Doors &c.

9. Frames to doors and windows to be made of wood above mentioned and the shutters of mango planks. The doors to be fitted with hooks, hinges, bolts &c.

Materials.

10. The rough stone to be brought from Paroorini an average distance of 4 miles. Squared stone for pillars &c.

No. 1002
of Melthattapari

Comparative Statement

from the bed of river of Kullathattapari a distance of 4 miles. Sundry bricks to be made near the old Police Station House at Melathattapari. - Good sand to be got from beds of streams wherever of good quality. - The lime to be got from Madathupatty about 3 miles distant from work.

11. All lime used on the work to be slaked after delivery on the spot.

12. All the rejected materials should be removed at once by the Contractor.

H. Hughes.
Division Officer.

Flooring to consist of 4 1/2" depth of concrete composed of 1 part mortar to 2 1/2 parts broken stone, paved over with asphalt and tar. As soon as the concrete has set well and is perfectly dry the asphalt & tar in the proportion of 1 lb asphalt to 4 lb tar should be well boiled and mixed together and laid on with a brush while hot.

G. B. 10: 1/2 hr 2/11 I B 10 88

Detailed Estimate No. 7874-75
Tinnevely District. Ottapet District
Constructing Police Bungalows & Constables' Mess
Constable at Melathattapari

Measurements in feet
Length Breadth Height Contents
Particulars of work No. each Total

Stone in Mortar for Pillars						
Foundation and Basement						
Do of Rooms and of front Verandahs	30	2	10	2	3	360
Do of side Verandahs	8	2	16	2	2 1/2	80
Do of side Verandahs						440 16 3/4
Pillars of Rooms	20	1 1/2	30	1 1/2	9	405
Do of front Verandahs	10	1 1/2	15	1 1/2	5	112 1/2
Do of side do	8	1 1/2	12	1 1/2	6	108
Stone in Mortar Cubic ft						625 1/2
Equal to Cubic yards						23 1/6

Main walls between Pillars						
Foundation and Basement						
Main walls						
Front and rear	4	4 1/2	27			
Do do	12	4 1/2	57			
End and cross	6	9 1/2	57			
			141	2	3	846

Front and rear walls of side Verandahs	8	4	32	2	2 1/2	160
End walls of do	4	9 1/2	38	1 1/2	2 1/2	142 1/2

Retaining walls of front and side

Verandahs					
Front	2	6 1/2	12 1/2		
do	6	4 1/2	27 1/2		
End and cross	6	3	18		
Sides of entrance	8	2 1/2	20	1 1/2	396

Superstructure

Main walls

Front and rear	2	7 1/2	29 1/2		
do do	2	5 1/2	11 1/2		
End	4	10	40		
			152	1 1/2	9 1782

Cross walls including gables 2 10 20 1 1/2 11 1/2 337 1/2

Front and rear walls of side Verandahs including gables 8 1 1/2 31 1 1/2 7 1/2 405

End walls of do 2 10 20 1 1/2 11 1/2 240

End and cross walls of front Verandahs 6 3 1/2 21 1 1/2 5 105

Gables of do do 2 10 20 1 1/2 11 1/2 22 1/2

Cubic feet 4466 1/2

Deduct for doors 4 1 1/2 12 1/2 108

" windows 6 2 1/2 15 1 1/2 3 67 1/2

" do 4 2 8 1 1/2 2 26

Cubic feet 4494 1/2

No deduction made for locked openings and butresses and other details for arches & steps

Remaining mud wall cubic feet

Being equal to 158

Plastering with mud and whitewashing 2 coats

Verandah

Main Room	2	12 1/2	25 1/2		
do do	2	12 1/2	25 1/2		
Gables both sides	2	10	20		
Side Verandah	4	10	40		
Rooms	4	10	40		
End side	2	10	20		

Main walls front

Front	2	7 1/2	29 1/2		
do rear	2	5 1/2	11 1/2		
do do	2	28 1/2	57 1/2		
			226	8 1/2	2006

End and cross walls of front Verandahs 12 3 1/2 42 1 1/2 28 1/2 105

both sides 10 6 60 1 1/2 5 100

Pillars of do 10 6 60 1 1/2 5 100

Front and rear walls of side Verandahs 8 1 1/2 31 1 1/2 7 1/2 405

End of do 4 13 52

Cubic feet 4494 1/2

Deduct for doors 4 1 1/2 12 1/2 108

" windows 6 2 1/2 15 1 1/2 3 67 1/2

" do 4 2 8 1 1/2 2 26

Cubic feet 4494 1/2

No deduction made for locked openings and butresses and other details for arches & steps

Remaining mud wall cubic feet

Being equal to 158

Basement

Main wall in rear 1 30 30

do do 1 28 1/2 28 1/2

Front Verandah 1 30 30

do do 1 28 1/2 28 1/2

Sides of entrance 12 5 60

End of do 2 18 36

Cubic feet 180

Deduct for doors 4 1 1/2 12 1/2 108

" windows 6 2 1/2 15 1 1/2 3 67 1/2

" do 4 2 8 1 1/2 2 26

Cubic feet 180

No deduction made for locked openings and butresses and other details for arches & steps

Remaining mud wall cubic feet

Being equal to 158

Superstructure

Front	1	48 1/2	48 1/2
do	1	44 1/2	44 1/2
End & partition	3	39 1/2	118 1/2
Partition	2	20	40
Rear of latrines	4	11	44
End of do	1	6 1/2	26
Screen in front	4	5	20
do in rear	4	3	12
		353 1/2	1 1/2 = 265 1/2

11#
Data for Raw brick in mud
per bcyard.

450	Sundried bricks Limering and moulding (Government size) at 10. ans per 1000	"	4	6
1	Bandy load of sand 1 mile lead.	"	2	"
1/2	Bricklayers	"	4	"
1/2	Man cooly	"	1	4
1	Woman cooly	"	1	6
1	Boy	"	2	"
	Sundries	"	"	8
	Total Rupees	1	"	"

J. Hughes.
Division Officer

N^o 108. District Eng's Office. Tinnevely
Palamcottah 23^d October 1877.

From, J. D. Grant Esquire
Off: District Engineer Tinnevely
To, Colonel C. A. Hoord R.E.
Chief Engineer D. P. W.

Roads & Buildings.

Encls: 2.

1. Estimate
1. Comparative Statement.

Sir, I have the honor to submit for the sanction of Government a revised Estimate for constructing Police Huts at Melathataparei amounting to Rs 1490, being Rs 130 in excess of the original Estimate sanctioned in G.O. N^o 721 of 2^d March 1877.

2. Of this excess, Rs 51 arises from concrete and asphalt flooring being substituted for Brick jelly in mud as ordered by the Deputy Chief Engineer in his memo: N^o 1350 of 23^d May 1877. and the remainder from the substitution of sun dried brick in clay for simple mud in the compound wall.

3. The other alterations are shown in

the comparative statement.

10

I have the honor to be

Sir,

your most obedt servt

J. D. Hunt

Offt Dist Engineer

RECEIVED
JAN 10 1880
DISTRICT ENGINEER
SACRAMENTO

Roads Buildings.

From 10.10.77

The off^r District Engineer
Linnevelly

The Chief Engineer
D. P. W.
Madras.

fr. 2nd March 1877 No 721.

No 108.

Dated 23rd }
Recd 27 } October 1877.

Enclos: 2 3 ✓
+ 10 Revised Estimate sent to the D. P. W.
Linnevelly on 12.11.77
Police Huts at Melattappari.

Submits a revised
Estimate of Rs. 1,490
for sanction.

No 9 R
C. works

No 1580/77

Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 10th Nov 1877.

Read the following:—

From:

The off^r District Engineer } (L.C. No 108 of 23rd Oct 1877)
Linnevelly

The revised estimate
of Rs. 1,490 for constructing
Police huts at Melattappari in the
Linnevelly District,
is sanctioned in lieu
of that sanctioned
in L. O. No 721, dated
2nd March 1877 - W. H.
7.11.77

[Signature]

W. H.
7/11

This sanction has been
registered as Provincial No 21013
of 1877-78.

To the D. C. Linnevelly
Super. Genl. of Police
Examiner of P. W. H.
Judicial Department.

S. C. J. Disp 15-11-77

Col 1872
Supt. of (1877) Public Works.
PUBLIC WORKS.

To

Mr H. L. Linnally

Dated

Issued

Recd.

Encl.

G. O., 10 Nov 1877, No. 1580

No. 88-89

*Police huts at Kotala
Kore, Linnally, Dr
launching and
of No 1490 for constructing*

Left in file