M.R.O. 1—10,006—28-2-50.

(1) Number of pages_____

(2) Date of repair_____

(3) Initials of the Referencer_____

MADRAS RECORD OFFICE

Government of Madras

Pub. Works DEPARTMENT

G.O. No.	3285	Press
~~B.P. No.~~ 353, 54.		~~Mis.~~
Dated	20.11.1874	195 . .

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department,
20th November 1874.

No. 353. Read the following letter from Lieutenant-Colonel J. F. FISCHER, R.E., District Engineer, Madura, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Pulney, 26th October 1874, No. 3,134:—

1 Revised Estimate of Rupees 1,140.
1 Comparative Statement.
1 Plan.

I HAVE the honor to submit, for the sanction of Government, the accompanying revised estimate of Rupees 1,140 for constructing three Police huts at Ramaisweram in lieu of the estimate sanctioned in G. O., in the Judicial Department, No. 292, under date the 20th February 1874.

2. The necessity for submitting the present revised estimate is owing to the substitution of a tiled roof instead of a domed one, as provided in the sanctioned estimate.

3. The chief cause that led to the idea of a domed roof instead of a tiled one appears to be the enormous expense of procuring tiles from Colombo or Carical, but it has now been found to be impossible to construct the dome by means of concrete made up of coral stone and lime obtainable at Ramaisweram, inasmuch as they are of very inferior quality, and so much impregnated with salt that I am doubtful as to the stability of the work if carried out. Hence the necessity of the proposed alteration.

4. It will be observed from the enclosed comparative statement that a sufficient saving has been effected in the sanctioned estimate to cover the extra cost of tiling the huts as now proposed by me, and thus the amount of the sanctioned estimate will not be exceeded by carrying out the proposed alteration.

5. In conclusion, I may mention that, with a view of completing the work as soon as possible, I ordered the work to be proceeded with at once after personal inspection, as I am satisfied the walls will not bear the weight of a domed roof. Under these circumstances, I trust the course I adopted will be approved of and sanctioned by the Government.

No. 354. ORDER THEREON, 20th November 1874, No. 3,285.

CIVIL WORKS, No. 26.

UNDER ordinary circumstances as no increase of cost is proposed it would have been within the competence of the District Engineer to carry out the alteration of design in question. But inasmuch as a sanction of Rupees 1,140 was accorded after Rupees 1,000 had been refused, on the sole plea that a far superior description of building was to be provided for that sum, it was evidently his duty to have obtained fresh orders before authorizing the execution of the work on the ordinary plan. Lieutenant-Colonel Roberts should have ascertained the competence of the material available at Paumben for carrying out his design.

(True Extract.)
(Signed) G. W. WALKER, Colonel, R.E.,
Secretary to Government.

To the District Engineer, Madura.
„ Superintending Engineer, Tanjore.
Exd. S. T. Austin.
Spare Copies

Detailed Estimate &c of Public Works in District Madura Taluq Ramisseram.

Work Constructing 3 Police Huts at Ramisseram.

Particulars of Work.	No.	Measurements L	B	H	Contents
Foundation					
Rear wall of 2 Constable Huts	1	29-9"	2-9"	3-	245-6"
Do of Head Constable Hut	1	17-6	2-9"	3-	144-4½"
~~Front~~ wall of Constable Huts	1	29-9"	2-9"	3-	245-6"
Do of Head Constable Hut	1	17-6	2-9"	3-	144-4½"
End and Cross walls of Huts	5	8-	2-	3-	300-
Verandah walls	3	5-	2-	3-	112-6"
End and Cross wall connecting the Huts	1	32-	1-9"	2-6"	140-
Retaining walls to Verandahs	3	14-	1-6"	1-6"	94-6"
Basement					
Rear wall of 2 Constable Huts	1	29-9	2-	1-6"	89-3"
Do of Head Constable Hut	1	17-6"	2-	1-6"	52-6"
~~Front~~ wall of Constable Huts	1	29-9	2-	1-6"	89-3"
Do of Head Constable Hut	1	17-6"	2-	1-6"	52-6"
End and Cross walls of Huts	5	8-6	1-9"	1-6"	111-7"
Verandah walls	3	5-	1-9"	1-6"	39-4½"
Retaining walls to Verandahs	3	14-	1-	1-6"	63-
Superstructure.					
Rear wall of 2 Constable Huts	1	29-9	1-6"	8-	357-
Do of Head Constable Hut	1	17-6	1-6"	8-	210-
~~Front~~ wall of Constable Huts	1	29-9	1-6"	8-	357-
Do of Head Constable Hut	1	17-6	1-6"	8-	210-
End and Cross walls of Huts	5	9-	1-3	8-	450-
Gables to Do Do	5	12-	1-3	2-	30-
Verandah walls	3	5-	1-3	5-	93-9"
End and Cross wall connecting the Huts including 3 ceiling	1	32-	1-3	6-	240-
Total Cubic feet of					3871-11½"

Deductions.

Doors.	3	3.-	1-3	6.-	..	67-6
Windows.	6	2-6	1-6	3	..	67-6
Total Deduction Cubic feet						135
Remaining Rough Stone in chunam Cubic feet or						3736-11½
Cubic yards						138 10½/27
Deduct for old Rough Stone in chunam Cubic yards						58
Remaining New Rough Stone in chunam Cubic yds						80 10½/27

Plastering

Coping to end and centre walls connecting the Cons Table and Head Constable Huts	1	32.-	2	..	..	64
Basement of Cons Table Huts all round	1	102.-	-	1-6		153
Do of Head Constable Hut all round	1	68	..	1-6		70
Outside of rear wall of Cons Table Huts	1	29-9	-	8	..	238
Do of Do of Head Constable Hut	1	17-6	..	8	-	140
Do of end walls of Cons Table Huts	2	10-6	..	8	-	168
Do of Do of Head Constable Huts	2	10-6	..	8	..	168
Do of front walls of Cons Tables Huts	1	29-9	..	8	..	238
Do of Do of Head Constable Huts	1	17-6	..	8	..	140
Inside of rooms Cons Table Huts	2	44.-	..	8	-	704
Do of Do of Head Constable Huts	1	48.-	..	8	..	384
Both sides of Verandah walls for Head and Deputy Constables Huts	3	72	6.-	..	5	150
End and Centre walls connecting the Huts	1	2	32.-	..	5	320
Both sides Gable walls	5	24	.-	..	2	240
Total Plastering Square feet or						3177
Squares						31 77/100

Flooring

Head Constables Hut	1	15.-	9.-	..	..	135
Deputy Do Do Verandahs	2	13.-	9.-	..	..	234
	3	9-6	4.-	..	-	114
Total flooring with stone chips under floor to remain clear Sft						483
Squares						4 3/4

3a

Honey Comb tiled Work for Verandah walls	6	5.-	..	..	1-6	45 Sft
Tiling to Verandah	3	14.-	7.-	..	-	294
Do to Head Constable Hut	..	17-6	20.-	..	-	350
Do to 2 Deputy Constables Huts	..	28-6	20.-	..	-	570
Total Tiling with new rafters, new reefers, old and new tiles, nails and chunam borders &c Complete Square feet or Squares nearly						1214 / 12 1/8
Ballon Doors 3'x6'	3					3
Do Windows 2½x3'	6					6
Calumrah posts for Verandahs	6	..	..	..	-	6
54 R ft of Calumrah breastsummers for Verandah						54 Rft
Cut stone Steps 5/2x1'8"						3
Cornice work Lineal feet						148 Lft

Abstract Estimate for
District Madura Taluq Ramaiseeram.
Work Constructing 3 Police Huts at Ramaiseeram.

Quantities	Descriptions of Work.	Rate	Amount	Total
58	Cubic Yards of Old Rough Stone in chunam	3 ..	174 ..	
80 11/27	" of New Rough Stone in chunam	3 8	281 6 10	
4 3/4	Squares of Flooring with stone chips in chunam and plastered with clay	3 12 ..	17 13 ..	
31 77/100	Squares of Plastering	2 8 ..	79 6 9	
45	Sq. ft. of Honey Comb tile work per 100 sq. ft.	12 ..	5 6 5	
12 1/5	Sqrs Tiling with new reepers, new rafters old and new tiles, nails and chunam borders & complete	30 ..	366 ..	
	Carried Forward	12 8 ..	37 8 ..	
3	Ballow Doors 3'x6'	10	60	
6	Windows (ballow) 2 1/2'x3'	1 4 ..	7 8 ..	
6	Calmirah Posts for Verandah	.. 10 ..	3 12 ..	
6	Cut Stone brackets and posts 2 1/2'x1 1/2'	.. 6 ..	20 4 ..	
54	R ft. Calmirah breastsummers for Verandah 6"x4"	1 8 ..	4 8 ..	
3	Cut Stone Steps 5'2"x1'x9"	.. 1 ..	9 4 ..	1066 13 ..
148	Lineal feet Cornice work			23 3 ..
	Excavating Foundations and Sundries			50 .. ..
	Superintendence			
	Total Estimate Rupees			1,140 .. ..

Copy

Approved

Madura
24th August 1874

Lieut. Col. R.E.
District Engineer of Madura

Chief Office of the I.G. of Police
Madras 8th October 1874

Inspr Genl of Police

Examined

Chief Overseer

Assistant Superintendent of Police
Madura

Examiner

Enc 1 In a Letter from
the Dist Engr Madura to the
Secretary to Govt / PWD No 3134
dated 26 October 1874
Madura District

Paumbunn Sub Division
Pg No 20 Nov 74
Dig B No 353.
Estimate No of

No 6755/74
2

Sealed and Abstract
of Estimate for Cons.
Iron String 3 Cable Anchor
at Rameswaram.

Amount of Estimate Rs 1140.....

Comparative Statement Shewing the difference between the Original and Revised Estimates for Constructing the 3 Police Huts at Ramaiseeram.

Items.	As per Original Estimate			As per Revised Estimate			Excess upon Original Estimate		Deficiency upon Original Estimate		Remarks.
	Quantity	Rate	Amount	Quantity	Rate	Amount	Quantity	Amount	Quantity	Amount	
New Rough Stone in Chunam Cubic yards	85 18/27	4 14 ..	417 10 ..	80 11/27	3 8 ..	281 6 10	.. ..	.. ..	5 7/27	136 3 2	
Old Do Do Do	58	3	174	58	3	174	.. ..	.. ..	.. ..	.. ..	
Pointing with 1 Coat of Chunam Squares	9 15/100	1 12 ..	16 .. 2	31 77/100 *	2 8 ..	79 6 9	22 62/100	63 6 7	.. ..	.. ..	* 2 Coats of Chunam.
Semicircular Arch of Stone Cubic yards	28 5/27	5 8 ..	155 4 ..	.. ..	.. ..	.. ..	.. ..	.. ..	28 5/27	155 4 ..	
Pointing with Chunam Squares	35	1	35	.. ..	.. ..	.. ..	.. ..	.. ..	35	35	
Flooring with Stone Chips in Chunam floated with Clay Squares.	1 3/4	3 12 ..	6 9 ..	4 3/4	3 12 ..	17 13 ..	3	11 4 ..	.. ..	.. ..	
Stone Coursed Rubble work Square feet per 100.	8 sq ft 45	12	5 6 5	2 sq ft 45	12	5 6 5	.. ..	.. ..	.. ..	.. ..	
Roofing with old rafters, new battens, new Tiles, nails and Chunam borders & Complete Squares	3	19 4 ..	57 12 ..	.. ..	.. ..	.. ..	.. ..	.. ..	3	57 12 ..	
Tiling with new rafters, new battens, old and new Tiles, nails and Chunam borders & Complete Squares	.. ..	.. ..	.. ..	12 1/2	30	366	[illegible]	[illegible]	.. ..	.. ..	
3 Teak Doors 3'x6'	3	12 8 ..	37 8 ..	3	12 8 ..	37 8 ..	.. ..	.. ..	.. ..	.. ..	
6 do Windows 2½'x3'	6	10	60	6	10	60	.. ..	.. ..	.. ..	.. ..	
Palmirah Posts for Verandah	6	1 4 ..	7 8 ..	6	1 4 ..	7 8 ..	.. ..	.. ..	.. ..	.. ..	
Cut Stone Brackets and Posts 2½'x1½'	6	.. 10 ..	3 12 ..	6	.. 10 ..	3 12 ..	.. ..	.. ..	.. ..	.. ..	
Palmirah Battens for Verandah 6"x4" R Ft	54	.. 6 ..	18 4 ..	54	.. 6 ..	20 4 ..	.. ..	2	.. ..	.. ..	
Cut Stone Steps 5½'x1¾'	3	1 8 ..	4 8 ..	3	1 8 ..	4 8 ..	.. ..	.. ..	.. ..	.. ..	
Cut Ventilators on Arched Roof	3	1	3	.. ..	.. ..	.. ..	.. ..	.. ..	3	3	
Iron rods 13 Ft long 1" diameter including T head	262 lbs	.. 2 6	40 15 ..	.. ..	.. ..	.. ..	.. ..	.. ..	262	40 15 ..	
Service Work Lineal Feet	.. ..	.. ..	.. ..	148 ..	1 ..	9 4 ..	148	9 4 ..	.. ..	.. ..	
Excavating found Rock and Sundries	.. ..	.. ..	46 15 5	.. ..	.. ..	23 3 ..	.. ..	.. ..	.. ..	23 12 5	
Superintendence	.. ..	.. ..	50	.. ..	.. ..	50	.. ..	.. ..	.. ..	.. ..	
Total Estimate Rupees			1,140			1140		451 14 7		451 14 7	

Pamban
24th August 1874

Total Estimate Rupees 1,140
Chief Office of the I.G. of Police
Madras 5th October 1874

Mears
Insp. General of Police

Pamban
24th August 1874

Lieut. Col. R.E.
District Engineer of Madura

W. Lyon Capt.
Asst. Inspector

Inspector of Fortifications Pamban

District Engineer's Office
No. 3134 Pulicat 26th Oct/74

From

Lieutenant Colonel J. G. Fischer R.E.
District Engineer
Madras

To

Colonel C. W. Walker R.E.
Secretary to Government
of Madras

Sir,

Enclosures 3
Revised Estimate of Rs 1140
Comparative Statement
Plan

I have the honor to submit for the sanction of Government the accompanying Revised Estimate of Rs 1140 for constructing 3 Police Huts at Ramaswaram in lieu of the Estimate sanctioned in the Judicial Department Order dated the 20th February 1874.

2. The necessity for submitting the present Revised Estimate owing to the substitution of a tiled roof instead of a Domed one as provided in the sanctioned Estimate

3

Duplicate Duly Signed

Comparative Statement
Showing the difference between the Original and Revised Estimate for constructing 3 Police Huts at Ramaswaram

Plan as above.

3 The chief cause that led to the idea of a Domed roof instead of a tiled one appears to be the enormous expence of procuring tiles from Colombo or Caricab but it has now been found to be impossible to construct the dome by means of concrete made up of Coral Stone & lime obtainable at Dainiaiseeaama in as much as they are of very inferior quality & so much impregnated with salt that I am doubtful as to the Stability of the work if carried out. Hence the necessity of the proposed alteration.

4 It will be observed from the enclosed comparative Statement that a sufficient saving has been effected in the Sanctioned Estimate to cover the Extra cost of tiling the huts as now proposed by me & thus the amount of the Sanctioned Estimate will not be exceeded by carrying out the proposed alteration

5 In conclusion I may mention that with a view of completing the work as soon as possible I ordered the work to be proceeded with at once, after personal inspection, and am satisfied the walls will not bear the weight of a Domed roof. Under these circumstances I trust the course I adopted will be approved of and sanctioned by the Government.

I have the honor to be
Sir
Your most obedt Servt
Lieut. Colonel RE
District Engineer
Mannar

P.W.D. Despatch

Proceedings of the Head Quarters

Road the following:-

3285

From the Engineer
Kaduna

18. 8. 84 & 3/1304 & 26.8.84

Under ordinary circumstances no increase of cost in proposed work would have been entertained after the completion of the District Engineer to carry out the above-stated proposal - But in view of the delays in connection with the Railway Bridges, which have occurred, after the Estimate had been accepted, and which could not have been foreseen, and which are beyond the control of the Engineer in charge, I am of opinion that the increase of cost should be allowed.

The Secretary to Government W.P. Kaduna

Dated 26th October 84

Rec'd 31st October 84

Enclosure

Forwards Revised Estimate & Comparative statement for Construction Police Huts at Kaduna Junction for sanction

G.O. No: 3285. 20th-84.

P.W. 1874 Despatch

From The Secretary

No: 6799

The District Engineer

Kaduna

Sir

I have the honor to acknowledge the receipt of your letter No: 1874 of the 31st ultimo, forwarding Revised Estimate & Comparative statement for Construction of Police Huts at Kaduna Junction, and in reply to inform you that the increase of cost in the proposed work has been sanctioned by the Governor in Council.

I have the honor to be,
Sir,
Your obedient Servant

Secretary to Government

Dated 31st October 1884

No. 358

ave the sole plea that
a far superior descrip
tion of building was
due provided for that
sum, it was evidently
his duty due care ob-
tained fresh orders
before authorizing
the execution of the
work on the ordinary
Plan. Lieut Colonel
Roberts should have
ascertained the com-
petence of the material
available at Paumben
for carrying out his
design.

Lyon

353-354.

30

D. E. Madura
S. E. Tanjore
Sign & d. Caprin dispd 25/4/14

6799 √

Govt. of {1874} Madras.

PUBLIC WORKS.

To

The Dist. Supr
Madura

Dated

Recd. Encl. 3

G. 20 Nov. 1874, No. 3285

Nos. 173-174.

Police Huts at Ramaiswaram Madura Dt

Pointing out that it was the duty of the Engr to have obtained fresh orders before anthorizing the substitution of tiled roof for a domed one for the Huts—