

(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. 1301	Press ~~Mis.~~
271-272	
Dated 12 - 5 - 1865.	

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
12th May 1865.*

No. 271. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Coonoor, 29th April 1865, No. 339:—

SIR,

1. In Government Order No. 1,532, dated 26th May 1864, an estimate of Rupees 1,47,550 was sanctioned by Government for the Tambracherry Ghât, but having reason to believe that Captain Bean, R. E., then Executive Engineer of Malabar, had not accurately estimated the waterway for the bridges and drains on the Ghât itself, and finding, moreover, that he had omitted at least one important nullah below, I remitted all the papers connected with the subject to Captain Kennedy and Mr. Sub-Engineer Bailey for revision of the plans and estimates. The result of their observations, which have been checked by myself as far as practicable, has been to reduce the estimate for bridge work on the Ghât sufficiently to cover the cost of bridging the line to the junction with the old road below at Poothoopady, including an improved trace to that place.

2. The only differences between the former and the present estimates, as regards earthwork and blasting on the Ghât, are caused by the addition of 6 Pie to the rate per cubic yard of the former item (in easy soil), and adding Rupees 3,000 for cost of blasting tools. These are found practically desirable. An increase on account of under-drains across the Ghât has also been found necessary.

Per contra, it has been found practicable so to reduce the cost of the bridges and large drains on the Ghât, and of the mere earthwork below, as to allow for bridging all nullahs not already provided for between the Ghât and the coast. Two of these are 90 and 50 feet broad respectively, and I do not understand how the late District Engineer failed to provide for them when he had the Ghât estimates in hand.

3. I have the honor to recommend the adoption of the revised papers now forwarded, and an increase to the original sanction of Rupees 1,863, bringing up the new total to Rupees 1,49,413. If the additional Rupees 3,000 for blasting tools is charged to the separate head for "Tools and Stores," the actual amount of sanction for "Work" will be proportionately reduced.

No. 272. ORDER THEREON, 12th May 1865, No. 1,301.

CIVIL WORKS, No. 36.

* Amount of estimate	Rupees 1,49,413
Deduct cost of blasting tools	" 3,000
Total	" 1,46,413

1. Under the circumstances brought to notice in this letter the Government sanction the revised* estimate of Rupees 1,46,413 for the completion of the Tambracherry Ghât in the District of Malabar. The sanction accorded in Proceedings No. 1,532, dated 26th May 1864, to the original estimate will be considered cancelled.

2. The entry of the sum of Rupees 3,000 in the revised estimate on account of tools cannot, under existing rules, be admitted. The charge will have to be met from the current year's provision in the Budget under "Tools and Plant," but before it is incurred, Colonel Walker will place himself in communication with the Superintendent of the General Stores, with a view to ascertaining whether the whole or any portion of the articles required can be supplied by that Officer, in which case no payment will be necessary.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,

Secretary to Government.

To the Superintending Engineer, 7th Division.
 .. Controller of Public Works Accounts.
 .. Accountant General.
 .. Store Department.

Exd. S. T. Augustin.

N^o 339

Superintending Engineer's Office
Coonoor 29th April 1865.

Thru

Lieutenant Colonel G. W. Walker RE
Superintending Engineer 7th Division

To

Colonel C. A. Orr RE
Secretary to Government D. O. W.
Madras

Sir,

In Government Order N^o 1532 dated 26th May 1864 an Estimate of Rs 14,550 was sanctioned by Government for the Simbrachery Ghaut, but having reason to believe that Captain Bean RE then Executive Engineer of Malabar had not accurately estimated the waterway for the Bridges and Drains on the Ghaut itself, and finding moreover that he had omitted at least one important Nullah below, I remitted all the papers connected with the subject to Captain Kennedy and Mr. Sub-Engineer Bailey for revision of the Plans and Estimates. The result of their observations, which have been checked by myself as far as practicable, has been to reduce the Estimate for Bridge work on the Ghaut sufficiently to cover the cost of Bridging the line to the junction with the old road below at Poothoopady including an improved trace to that place.

2 The only differences between the former and the present Estimates as regards earthwork and Blasting on the Ghaut, are caused by the addition of 6 p^{er} cent to the rate per cubic yard of the former item (in easy soil) and adding Rs 3,000 for cost of Blasting Tools. These are found practically desirable

desirable - An increase on account of Under Drains
across the Ghaut has also been found necessary -

Per contra, it has been found practicable
to reduce the cost of the Bridges and large drains
in the Ghaut, and of the more Earthworks below, as
to allow for Bridging all Nullahs not already
provided for between the Ghaut and the Coast - Two
of these are 90 and 50 feet broad respectively, and
I do not understand how the late District Engineer
failed to provide for them when he had the Ghaut
Estimates in hand -

3 I have the honor to recommend the adoption of the revised papers now forwarded; and an increase to the original sanction of Rs 1863, bringing up the new total to Rs 149,413 - If the additional Rs 3,000 for "Blasting Tools" is charged to the separate head for "Tools and Stores", the actual amount of sanction for "Works" will be proportionately reduced -

I have the honor to be,

Sir
Your Most Obedient Servant

Chas. L. Smith
Superintending Engineer



Estimate for Bridges and Turnouts for Tamboresing Ghat and Road
below to Pookopady —

List showing where Bridges are required —

[illegible]

Sub Engineer Malabar

Bridges and Tunnels as per list opposite side

Measurements				Nature of work	Rate	Cost of work	
Length	Width	Height	Thickness			Per sq. ft.	Total
38	3 1/2	2	266	Construction of 17 ft. bridge			
20	3 1/2	2	212	Foundation to abutments			
36	2 1/2	2 1/2	255	Wing walls			
32	2 1/2	6 1/2	520	Abutment above			
26	1 1/2	2	128	Wing walls above level of springing			
20	2	1	40	Haunches			
12	2	1 1/2	156	Blocking course			
20	1 1/2	2	156	Parapets			
18	4	1	72	Floor			
18	11	1 1/2	297	Cost of Rubble stone in Chumam	35	75 ft	25 1/5
				Crack in abutment	14	5	74 4
				Excavating foundation forming roadway			13
				Centering			625 2 5
				Superintendence & sundries about	10	60	60 10 7
				Total for one bridge 12 x 6			696
32	4	2	304	Constructing 2 bridges 12 x 6			1192
26	4	2	242	Foundation to abutments			
36	3	1	432	Wing walls			
36	2 1/2	3 1/2	432	Abutment above			
36	2 1/2	3 1/2	315	Wing walls above level of springing			
28	3 1/2	2	180	Haunches			
28	2 1/2	3 1/4	322	Blocking course			
64	2	1 1/2	192	Parapets			
64	1 1/2	2	192	Floor			
18	4	1	72	Cost of Rubble stone in Chumam	35	24	84 4
				Crack in abutment	14	5	70
				Excavating foundation forming roadway			20
				Centering			16
				Superintendence & sundries about	10	16	16 3
				Total for one bridge 12 x 6			206
38	4	2	304	Constructing 2 bridges 12 x 6			412
34	4	2	272	Foundation to abutments			
36	3	3	324	Wing walls			
36	3	3	324	Abutment above			
36	2 1/2	4 1/2	405	Wing walls above level of springing			
36	2 1/2	2	180	Haunches			
36	2 1/2	1 1/2	112 1/2	Blocking course			
				Centering			
				Superintendence & sundries about	10	112 1/2	112 1/2 10
				Total for one bridge 12 x 6			1237 1/2
37 1/2	4 1/2	3	576-3	Constructing a wooden bridge 20 x 11			
38 1/2	4 1/2	3	579-9	Foundation to abutments			
36	3	11	1188	Wing walls			
48	3	11	1452	Abutment above			
				Wing walls above			
				Centering			
				Superintendence & sundries about	10	1452	1452 10
				Total for one bridge 20 x 11			1564 10
				Grand forward			3900

Measurements				Nature of work	Rate	Cost of work	
Length	Width	Height	Thickness			Per sq. ft.	Total
42	2	1 1/2	216	Constructing a bridge 12 x 6			
42	1 1/2	2	126	Foundation to abutments			
12	1 1/2	1	158	Wing walls			
12	1 1/2	1	158	Abutment above			
18	1 1/2	1 1/2	423 1/2	Wing walls above level of springing			
				Haunches			
				Blocking course			
				Parapets			
				Floor			
				Cost of Rubble stone in Chumam	35	9 ft	315 5
				Crack in abutment	14	5	70 5
				Excavating foundation forming roadway			25
				Centering			20
				Superintendence & sundries about	10	93 5	93 5 10
				Total for one bridge 12 x 6			1016
38	5	2	380-0	Constructing a bridge 12 x 9			
46	4 1/2	2	414-0	Foundation to abutments			
46	3 1/2	6	482-0	Wing walls			
50	3 1/2	6	975-0	Abutment above			
52	2 1/2	4 1/2	525-0	Wing walls above level of springing			
36	2 1/2	2	180-0	Haunches			
36	2 1/2	1 1/2	135-0	Blocking course			
38	2	1 1/2	254-0	Parapets			
38	1 1/2	2	254-0	Floor			
18	1 1/2	1	198-0	Cost of Rubble stone in Chumam	35	5 ft 11	238 2 5
				Crack in abutment	14	5	70 5
				Excavating foundation forming roadway			25
				Centering			20
				Superintendence & sundries about	10	158 9 1/2	158 9 1/2 10
				Total for one bridge 12 x 9			1520
33	5	2	330-0	Constructing 2 bridges 12 x 12			
54	5	2	540-0	Foundation to abutments			
36	3 1/2	6	956-0	Wing walls			
58	3 1/2	6	1218-0	Abutment above			
60	2 1/2	4 1/2	1125-0	Wing walls above level of springing			
36	2 1/2	3	270-0	Haunches			
36	2 1/2	2 1/2	312-0	Blocking course			
46	2	1 1/2	288-0	Parapets			
46	1 1/2	2	288-0	Floor			
18	1 1/2	1	198-0	Cost of Rubble stone in Chumam	35	5 ft 11	159 1 5
				Crack in abutment	14	5	70 5
				Excavating foundation forming roadway			30
				Centering			20
				Superintendence & sundries about	10	176 1 1/2	176 1 1/2 10
				Total for one bridge 12 x 12			1950
37 1/2	4 1/2	3	576-3	Constructing a wooden bridge 20 x 11			
38 1/2	4 1/2	3	579-9	Foundation to abutments			
36	3	11	1188	Wing walls			
48	3	11	1452	Abutment above			
				Wing walls above			
				Centering			
				Superintendence & sundries about	10	1452	1452 10
				Total for one bridge 20 x 11			1564 10
				Grand forward			3900

Civil Works

Public Works Dept

Re-2.64 May/64. N 588-339

7th Division D.P.W.
N. 1568 Department
Plat of Govt for May 26.5
No. 1498 following

From
The Superintending Engineer
7th Division

To The Secretary to Government
Dept. Public Works April 1865
Madras (589)

Dated 29th April 1865
Recd 1 May
Enclosures 339
Howards Revised Plan 13 for the
and Estimate for constructing
Roads and Bridges on the
Hambacherry Ghaut for
Sanctions
1/6 to
1301-12th May 1865-10 will
be considered cancelled

The entry of the sum
of Rs 3000 in the revised
estimate on account of Tools
cannot under existing
rules be admitted. The charge
will have to be met from the
current year's provision in the

5th May 1865-Dr. 8th

MR

MR

MR

104033 2187

104033 2187

104033 2187

Estimate for Bridges and
Sanitary Works
and Road at 1000 to 1000
— 104033-0-0 —

104033 2187

Civil Works

Public Works Dept.

No 1301

Proceedings of the Madras Government
Under date the 12th May 1865
Read the following

From the Supy Engineer
J. Sw

Forwards Revised Plan
and Estimate for constructing
Roads and Bridges on the
Tambacherry Grant for sanction. (Here enter 29 April 1865
1839)

Amount of Rs 149,413
Deduct cost of 3000
Blasting tools 3000
Rs 146,413

Under the circumstances
brought to notice in this letter
the Govt sanction the revised es-
timate of Rs 146,413 for the
completion of the Tambacherry
Grant in the District of Travancore.
The sanction accorded in No
1532 of 26 May 1865 to
the original estimates will
be considered cancelled.

The entry of the sum
of Rs 3000 in the revised
estimate on account of Tools
cannot under existing
rules be admitted. The charge
will have to be met from the
current year's provision in the

Budget under "Tools & Plant,"
but before it is incurred, Col.
Halter will place himself
in communication with the
Supt of the General Stores with
a view to ascertaining whether
the whole or any portion of
the articles required can be
supplied by that office, in which
case no payment will be necessary.

W.B.

To The S. Engr, Dir
Cent of M. Affairs
Acct Gen
War Dept

Recd 13th May

P.W. 1865 Department
Proc. of Court for May

No. 1301.

Proc. of the Madras Court

Dec 12th May 1865
(11)

Am²

The revised estimate
amounting to Rs 146,418
for the completion of the
Pambacherry Chab. Malabar
District. Sanctioned.

No 271-272