

(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.	1762	(14)	Press Mis.
Dated	22-11-	1877.	

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

22nd November 1877, No. 1,762 W.

Buildings and Roads.

Civil Works.

Read the following paper:—

No. 202. From W. S. HARRINGTON, Esq., District Engineer, Madura, to the Chief Engineer, Public Works Department, Buildings and Roads, dated Camp, Dindigul, 14th September 1877, No. 139.

I HAVE the honor to submit, for the sanction of Government, the enclosed estimate of Rupees 4,175 for repairing damages which are said to have occurred during 1876-77 on the road from the foot of the Goodalore ghaut to the Travancore frontier. Copy of the Pereacolum Sub-Divisional Officer's No. 277, of the 28th ultimo, is forwarded for your information. The repairs are stated to be absolutely necessary, may I beg therefore that the requisite funds may be allotted. The only sum at my disposal is the maintenance allotment for the year, viz., Rupees 1,320. The sum of Rupees 7,200 entered in the budget is for the road from Goodalore to the foot of the ghaut.

From W. M. MONTSERRAT, Esq., Assistant Engineer, Pereacolum Sub-Division, to W. S. HARRINGTON, Esq., District Engineer, Madura, dated Butlagoondoo, 28th August 1877, No. 277.

In forwarding herewith an emergent estimate for repairing damages incurred from bad weather on the Goodalore ghaut during 1876-77 for approval and early sanction, I have the honor to state that orders have been given to the Sub-Overseer to push on with this in anticipation of sanction, as the ghaut is at present in a very dangerous condition till this emergent estimate is sanctioned. The amount which will be expended is proposed to be met from the maintenance. Trusting that you will get early sanction for the same.

No. 202-A. From the Additional Secretary to Government, Revenue (Famine) Department, dated 17th November 1877.

RETRANSFERRED to the Public Works Department with the Notes of His Grace the Governor.

(Signed) J. H. GARSTIN,
Addl. Secy. to Government, R.D.

transferred

PUBLIC WORKS DEPARTMENT, 22ND NOVEMBER 1877, No. 1,762 W.

No. 203. ORDER THEREON, 22nd November 1877, No. 1,762 W.

BUDGET funds should be utilized as far as practicable—the maintenance grant in the first instance.

(True Extract.)

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

7. Nov. 8992. 483
Munim.

*The Government of India
Public Works Department
No. 1762 W.
Dated 22nd November 1877
Colonel, R.E.,
Secretary to Govt., P.W.D.*

With reference to the letter
of this Govt. the Govt. the
undersigned has the honor
to point out respectfully that
Madras is under E.O. 74th
Sept. No 284, a district
district, that all works
within it except hunting,
are then free to be treated
as relief works. The work
must therefore be sanctioned
in the Prov. Fam. Dept.
under existing rules.
Yours as requested.

Cl.
11.10.77.

The District Engineer
 has approved the
 estimate for the
 work proposed
 for the year 1877-78

The District Engineer
 has approved the
 estimate for the
 work proposed
 for the year 1877-78

C12-10-77 R13-10-77

~~Estimated cost of work~~
~~proposed for the year~~
~~1877-78~~

~~Estimated cost of work~~
~~proposed for the year~~
~~1877-78~~

1762 W
 11777

No 3052: P. D. D. 40

Letter from the District Engineer,
 Montreal, No 139, dated 14th Sept 1877.

The Chief Engineer approves of the
 estimate amounting to Rs 4,175 for
 rebuilding and repairing revetment,
 tunnels and roadway from the foot
 of the Goodaloot Chant up to the
 69th mile (Vancouver frontier) and
 remarks that the District Engineer
 has Rs 1,320 available as a main-
 tenance grant for this portion of the
 front. The difference therefore Rs 2,855 is
 amount required to be appropriated
 to the work.

E A Mordall R.E.
 Chief Engineer, P. D. D.

J. L. George
 30 Oct 1877

Transferred

No 3053

Transferred to the Famine Relief
Department for sanction.

E & Mrd Jallh.
Secy: Government
P.O.D.

Lot. St George
3rd Oct 77

To The Famine Relief Department
with papers in original

42 hds.

No 277

From

713
Percaluma Sub Division Office
Bullagoundoo 28 August 1877.
Dups 24 - 22 -

The Assistant Engineer,
Percaluma Sub Div.

To

The District Engineer,
Madura.

Sir,

Encls. 1. 2 etc.

In forwarding herewith an urgent
estimate for repairing damages incurred from
bad weather on the Goodalore ghaut during
1876-77 for approval and early sanction, I have
the honor to state that orders have been given
to the Sub. Oversee to push on with this in anti-
-icipation of sanction as the ghaut is at present
in a very dangerous condition till this
urgent estimate is sanctioned. The amount
which will be expended is proposed to be met
from the maintenance, trusting that you will
get early sanction for the same.

I have + 12

/ signed W. M. Montserrat
Asst. Engr. Percaluma Sub Div.

/ True copy /

W. Harrington
District Engineer,
Madura.

Enclosure 2/ In a letter from the
District Enquirer MacLure to the
Chief Enquirer DMS No 129
dated 14 Instant.

Gen 2

7.8992

Copy of Mr Montserrat's
letter.

Detached. Estimated. No. of 1877-78

Madura District. Paracolum Volug

Work. Detailed Estimate for Rebuilding & Repairing Sewerage, Tunnels & Road way from
Back of Ghaut up to the 69th Mile (Travancore Frontier)

[illegible]

No.	Quantity	Unit	Rate	Amount	Description
1	190	226	4	1/8	Graveling up to Tunnel.
2	68	318	4	1/8	Clearing catch drain.
3	118				Constructing parapet on 2 sides 9 x 1 1/2 x 1 1/2.
4	42	407	4	1/8	Graveling road.
5	120	123	4	1/8	Clearing catch drain.
6	130	10	10		Removing earth.
7	118	299	2	1 1/2	Graveling road.
8	112	22	4	1/8	Clearing catch drain.
9	112	22	4	1/8	Graveling road.
10	112	22	4	1/8	Clearing catch drain.
11	112	22	4	1/8	Graveling road up to bridge.
12	112	22	4	1/8	Clearing catch drain up to bridge.
13	112	22	4	1/8	Road good.
14	112	22	4	1/8	Repairing catch drain.
15	112	22	4	1/8	Clearing catch drain.
16	112	22	4	1/8	Constructing revetment of 10 x 1 x 4.

6	165	255	4	$\frac{1}{8}$		127 $\frac{1}{2}$	255	1020	$\frac{1}{4}$	Graveling road.
	172	7	4	$\frac{1}{8}$		3 $\frac{1}{2}$	25	28	D:	Cleaning catch drain.
						29 $\frac{1}{2}$	137	115		Graveling road.
2	179	667	4	$\frac{1}{8}$		33 $\frac{1}{2}$	55	268	D:	Cleaning catch drain.
	8183	4	4	$\frac{1}{8}$		2	667	16	D:	Constructing revetment 7 x 1 $\frac{1}{2}$ x 4
										Graveling road.
2	36	73	4	$\frac{1}{8}$		36 $\frac{1}{2}$	73	292	D:	Cleaning catch drain.
	56	20	4	$\frac{1}{8}$		10		80	D:	Removing earth.
							20		D:	Graveling road.
3	116	280	4	$\frac{1}{8}$		140		1120	D:	Cleaning catch drain.
						280			D:	Graveling road.
										Cleaning catch drain.
										Constructing Tunnel of 1 foot 4 x 3
										Revetment 126 in length separate
										East ends attached.
	158	42	4	$\frac{1}{8}$		21		168	D:	Graveling road.
							42		D:	Cleaning catch drain.
	191	33	4	$\frac{1}{8}$		16 $\frac{1}{2}$		132	D:	Graveling road.
	209	18	4	$\frac{1}{8}$		9	33	72	D:	Cleaning catch drain.
							18		D:	Graveling road.
										Cleaning catch drain.
										Constructing revetment
	219	10								D: Parapet of 10 x $\frac{3}{4}$ x $\frac{3}{4}$
							10			Cleaning catch drain.
	79	960	4	$\frac{1}{2}$			960			Road good & bearing catch drain.
	86	7								Removing earth.
							7			Cleaning catch drain.
	86	1100					1100			Road good, bearing catch drain.
Total					289	2128	6466	17024		

Detailed Estimate No. of 1877-78
 Madura District Paracolum Salug
 Work. Repairing & Rebuilding Revetment & Tunnels from
 Foot of Ghaut up to the 69th Mile (Travancore Frontier)

Particulars of Work	Number	Measurements			Contents
		Length	Breadth	Height	
Constructing Building No. 1.					
Parapet for Tunnel No. 275 including coping	1	7	1 1/2	1 1/2	15 3/4 ✓
Total to ft.					15 3/4 ✓
or to yds of Re. S. Revetment					15 3/4 ✓
Blasting rock to yds					27 ✓
Excavating foundation	1	7	1 1/2	1/4	2 5/8 ✓
Total to ft.					2 5/8 ✓
or to yds of Excavating foundation					2 5/8 ✓
Constructing Building No. 2.					
Parapet for Tunnel including coping	2	9	1 1/2	1 1/2	40 1/2 ✓
Total to ft.					40 1/2 ✓
or to yds of Blasted stone in chm					1 1/2 ✓
Blasting rock to yds					1 1/2 ✓
Excavating foundation	2	9	1 1/2	1/4	6 3/4 ✓
Total to ft.					6 3/4 ✓
or to yds of excavating foundation					1 1/4 ✓
Constructing Building No. 3.					
Constructing Revetments in yds	1	10	1	4	40 ✓
Total to yds of revetment					40 ✓

Blasting rock to yds					40 ✓
Excavating foundation	1	10	1	4	40 ✓
or to yds of					40 ✓
Constructing Building No. 4.					
Constructing revetment	1	7	1 1/2	4	42 ✓
Parapet	1	7	1	3/4	5 1/4 ✓
Total to yds of Loose stone					47 1/4 ✓
Blasting rock to yds					47 1/4 ✓
Excavating foundation or Packing	1	7	1 1/2	4	42 ✓
or to yds of Excavating foundation					42 ✓
Constructing Building No. 5					
Constructing revetment	1	4	1 1/2	2	12 ✓
Total to yds of revetment					12 ✓
Blasting rock					12 ✓
Excavating foundation & filling	1	4	1 1/2	2	12 ✓
Constructing Building No. 6 or					
Tunnel of 1 Vent 4' x 3'					
Foundation or Mags	1	21	8	6	1008 ✓
Side walls above	2	20	2	4	320 ✓
Filling the interstices of beam	2	18 1/2	2	3/4	55 1/2 ✓
Total to ft of stone in chm					1383 1/2 ✓
or to yds of Stone in chm					51 6 1/2 27 ✓
Blasting rock to yds					51 6 1/2 27 ✓
Constructing parapet including coping	2	6	1 1/4	2	30 ✓
Total to ft					30 ✓
or to yds of Brick in chm including plastering					1 1/9 ✓

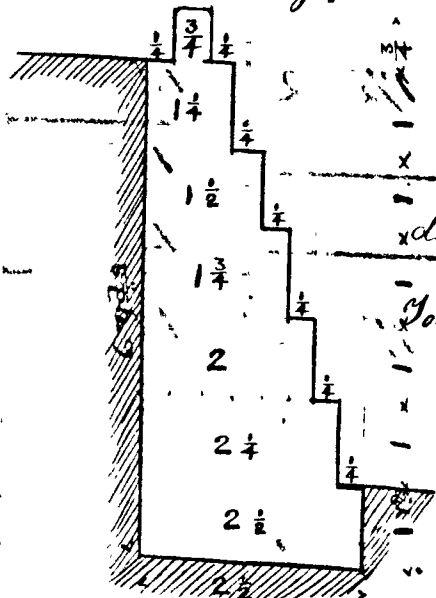
Wood work

Beams	3	7	1/2	3/4	17 7/8 ✓
Covering with planks	4	21	1	1/8	14 ✓
Total c. ft. of Teak wood wrought & put up					21 7/8

Iron work

Iron Nails 6 in long	16	6 inches			
Excavating foundation for Tunnel c. yds					37 1/3
Constructing revetment on either sides	1	39	17/8	6	438 3/4 ✓
Parapet	1	39	3/4	3/4	21 15/16 ✓

Revetment in yds



c. yds of Revetment

Blasting Rock c. yds

Excavating foundation & filling

Total c. yds of excavating foundation

Larning to Beams

for face

Planks

Total 3/4 ft of surfacing

or 3/4 ft

Constructing building No 7

Revetment

Parapet

Total c. yds of Revetment

Blasting Rock

Excavating foundation

Constructing building No 8

Constructing Building No 8

Parapet

Total c. yds of Stone revetment

Blasting rock c. yds

7 B

5 5/8 ✓

5 5/8

5 5/8

R. H. Montdunat
Arch Eng.

Abstract Estimate No. of 1877-78

Madura District Paracolum Solug

Work Rebuilding & Repairing Revetment, Tunnels and Road way from foot of Ghaut up to the 69th Mile

(Travancore Frontier)

Quantity	Description of work	Rate	Amount	Total
289	6 yds of Earth	12	36 2.	
2128	— Do — of Gravel carted from a distance of 1/4 Mile	7	931 .	
6466	1/2 yds of clearing catch drain and bushes & per 1/2 yds	1 1/2	50 83	
17024	1/2 yds of Levelling & spreading Gravel, watering & tamping & complete per 1/2 yds	2 1/2	221 108	
1/9	6 yds of Brick in chunam with rough plaster	6	6 108	
53 17/54	6 yds of Blasted stone in chunam	3	159 166	
683 1/16	— Do — Do — loose stone revetment per 6 yds	1 2	769 24	
834	6 yds of Excavating foundation & filling in	3	156 6.	
697 5/432	6 yds Blasting Rock	2	1394 4	
217/8	6 ft of Teak wood wrought & put up	3	65 10.	
1/3	Dozens of 6 inches of Iron nails for fitting planks	10	13 4	
2 1/2	1/2 yds of Tarring to covering Planks & beams per 1/2 yds	12	1 14.	
			8793 13 1	

Brought forward	3793 13 1
Less about 5 per cent	185 2 11
Superintendent at 3 per cent	116 11 11
Total Estimate of Rupees	4095 .

D. H. Lagoondoo
28th August 1877

A. H. Mortensen
Assistant Engineer
Paracolum Sub Division

W. Harrington
District Engineer Madras

Encl: Java letter from the
District Engineer Madras to the
Chief Engineer D.P.W. No 139 dated
14th Instant.

Madura District

Paracolum Talug

Estimate No. of 1877-78

Detailed & Abstract
Estimate for Rebuilding
& Repairing Pavement,
Tunnels and Road way
from Foot of Ghaut up
to the 69th Mile. (Travancore
Frontier). The above Dam-
ages occurred during 1876-77.

Amount of Estimate

Rs 4095

En 3

28992

Roads & Buildings
No. 139.

From

W. L. Harrington Esq.
District Engineer, Madras

Colonel. W. Harwell,
Chief Engineer for Roads & Buildings
Madras.

Sir,

I have the honor to submit for the
sanction of Government the enclosed estimate
of Rs (4175) four thousand one hundred and
seventy five for repairing damages which are
said to have occurred during 1876-77 on the Road
from the foot of the Goodalur Ghaut to the Tra-
-vancore frontier. Copy of the Paracolum Sub Di-
-visional officer's No 277 of the 28th ultimo, is for-
-warded for your information. The repairs are
stated to be absolutely necessary - may I beg
therefore that the requisite funds may be allotted.
The only sum at my disposal is the mainde-
-nance allotment for the year viz: Rs (1320) one
thousand three hundred & twenty. The sum of
Rs (7200) seven thousand & two hundred entered in
the Budget is for the road from Goodalur
to the foot of the Ghaut.

Encls: 2.

1. Estimate.

1. Copy of letter.

I have the honor to let
Sir
Your Most Obedt Servt

W. Harrington

District Engineer
Madison

Roads & Buildings No 139
From
The District Engineer
Madurai

To
The Chief Engineer for
Roads & Buildings

Dated 14 September 1877
Received

Rs 1
78992

Rs 2 M

Goodalord Lyhat -
forwarding an estimate
for sanction -

46222 Recd by Bk. 202

W. 21.11.77 No 1762 W Public Works Department. 513
PROCEEDINGS OF THE MADRAS GOVERNMENT.
UNDER date the 22 Nov 77
Read the following:—

From the Atlys Madurai (H E No 139 of 14 Sep 77)
Endorsement in the Res/Finance Dept (H.E. 1717 Nov 77)

Budget funds should
be utilized as far as
practicable - the main-
tenance grant in the
first instance.

W. 20.11.77

B.E. Madurai ✓

Dated 22 11-77
SC Drpd - 30-11-77

Feb 17 1877

Govt. of 1877 ~~Public~~
PUBLIC WORKS.

430/10

To *the H.C. Mr. Rogers*

Dated

Issued

Recd.

Encl.

G. O., 22nd Feb 1877, No. 17624

Nos. 202-203

Goodaire Grant.
Includes the Budget
funds to be utilized as
far as practicable - the
maintenance grant in the
first instance for repairs
to the —

Cont. in Rep.

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