

(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.	200	Press
129/30/31		Mis.
Dated	18	

Not to be folded or roughly handled

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**Proceedings of the Madras Government, Public Works Department,
30th January 1873.**

Read the following letters:—

No. 629. From the Controller of Public Works Accounts, to the Secretary to Government, Public Works Department, dated Fort St. George, 2nd November 1872, No. 1,745.

I HAVE the honour to bring to the notice of Government that the works enumerated in the margin, situated in the Cuddapah District, were completed in 1871-72 during the period Mr. Cowley (since dismissed the service) was in charge of the Pullumpett Range.

	RS.	A.	P.
Madapoor Pathacherroo Tank ...	2,197	2	6
Repairing Madras Road ...	972	0	0
Googoolavanpilly Cavati Coon- tah ...	685	0	0

The Officer in charge of the Cuddapah Range, with which Pullumpett has been amalgamated, states his inability to furnish the completion certificates for the works in question, as he cannot check the expenditure incurred on them. The Superintending Engineer of the Division is of opinion that it is quite impossible for Mr. Hunter to furnish the documents required under the circumstances stated.

2. I beg therefore to be favoured with the orders of Government as to whether the certificates may be dispensed with.

No. 630. From the District Engineer, Cuddapah, to the Chief Engineer, Public Works Department, dated Cuddapah, 26th December 1872, No. 130.

With reference to your memorandum No. 223, dated 15th November last, to the address of the late Superintending Engineer, 3rd Division, I have the honour to forward the accompanying original estimates, together with copy of statement of monthly expenditure from commencement to date of completion.

2. As regards the state of the works when Mr. Assistant Engineer Hunter took charge of the old Pullumpett Range, I have the honour to enclose copy of letter, No. 1,194, dated 23rd December 1872, from that officer reporting briefly on the condition of these three works.

3. The Controller's letter, No. 1,745, dated 2nd November, is herewith returned.

No. 631. ORDER THEREON, 30th January 1873, No. 309.

ACCOUNT, No. 62.

	RS.
Madapoor Pathacherroo Tank ...	2,197
Repairing Madras Road ...	972
Googoolavanpilly Cavati Coontah ...	685

UNDER the circumstances represented the Controller is authorized to dispense with the usual completion certificates for the works noted marginally.

(True Extract.)

Colonel, R.E.,

Secretary to Government.

To the District Engineer, Cuddapah.
,, Controller of Public Works Accounts.

Ed. S. T. Austin.

Causes of irrigation

Detailed Estimates

Repairs

Talac on South District Cuddapah

Village Gopoolavarepally

3

Work Repairs of Gopoolavarepally Levee at Court

Particulars of work	Measured			Total	Cost	Price	Total	Cost
	L	B	D					
Commenced from Talac on South								
Height of Calingula for 1000 ft								
Materials required	15	10	20					
Wing wall with a low stone	10	1/2	1		5			
Raising bank	18	2 1/2	1/2	22 1/2				
Do Do		1/2	1/2	1 1/2				
Rebuilding old stone		1/2	1/2		1 1/2			
New stone to do		1/2	3/4		6 3/4			
Raising bank	53	2	3/4	79 1/2				
Rebuilding old stone		1/2	1/2		13 1/2			
New stone to do		1/2	1		20 1/2			
Backfilling with gravel		1/2	1					26 1/2
Strong throwing bank	53	1/2	0	79 1/2				
Raising bank	14	2	1/2	14				
Strong throwing bank		1/2	1 1/2	10 1/2				
Rebuilding old stone		1/2	3/4		5 1/4			
New stone to do		1/2	1 1/4		8 3/4			
Raising bank	17	1 1/2	1/2	12 3/4				
Widening do		1	2 1/2	42 1/2				
Rebuilding old stone		1/2	1		3 1/2			
New stone to do		1/2	1 1/2		12 3/4			
Gravel backfilling		1/2	2 1/2					21 1/4
Raising bank	27	2	5/8	33 3/4				
Strong throwing bank		1/2	2	27				
Rebuilding old stone		1/2	1 1/2		20 1/4			
Carried over 326 1/2 59 3/4 51 1/4 47 3/4								

Appd Engineer Cuddapah

/ S. S. S. S. S.

Particulars of work	Measured			Total	New	Old	Gravel
	L	B	D.	Cords	stone	stone	backing
Brought forward				326 1/2	59 3/4	51 3/4	47 3/4
New stone work	27	1/2	1 1/2	"	20 1/4	"	"
Gravel backing		1/2	3	"	"	"	40 1/2
Raising haup	4	2	3/8	3	"	"	"
Widening do		1/2	2 1/2	5	"	"	"
Rebuilding old stone		1/2	1 3/4	"	"	3 1/2	"
New stone to do		1/2	1 1/4	"	2 1/2	"	"
Gravel backing		1/2	3	"	"	"	6
Raising haup	10	2	1/2	10	"	"	"
Rebuilding old stone		1/2	1 1/2	"	"	7 1/2	"
New stone to do		1/2	1 1/2	"	7 1/2	"	"
Gravel backing		1/2	3	"	"	"	15
Widening haup		1/2	2 1/2	12 1/2	"	"	"
Raising haup	48	1	3/8	18	"	"	"
Widening do		1/2	2 1/2	180	"	"	"
Rebuilding old stone		1/2	1 1/2	"	"	36	"
New stone to do		1/2	1 1/2	"	36	"	"
Gravel backing		1/2	3	"	"	"	72
Raising haup	38	2 1/2	1/2	47 1/2	"	"	"
Rebuilding old stone		1/2	1 1/2	"	"	28 1/2	"
New stone to do		1/2	1 1/2	"	28 1/2	"	"
Gravel backing		1/2	3	"	"	"	57
Raising haup	9	1 1/2	3/8	5 1/16	"	"	"
Widening do		1	3	27	"	"	"
Rebuilding old stone		1/2	2	"	"	9	"
New stone to do		1/2	1	"	4 1/2	"	"
Gravel backing		1/2	3	"	"	"	13 1/2
Raising haup	15	2	1/2	15	"	"	"
Widening do		1/2	2 1/2	18 3/4	"	"	"
Carried Over				668 5/16	159	136 1/4	257 3/4

Particulars of work	Measured			Total	New	Old	Gravel
	L	B	D.	Cords	stone	stone	backing
Brought forward				668 5/16	159	136 1/4	257 3/4
Rebuilding old stone	15	1/2	1 3/4	"	"	13 1/8	"
New stone to do		1/2	1 1/4	"	9 3/8	"	"
Gravel backing		1/2	3	"	"	"	22 1/2
Raising haup	28	1 1/2	3/8	28	"	"	"
Widening do		1	3	84	"	"	"
Rebuilding old stone		1/2	1 1/4	"	"	17 1/2	"
New stone to do		1/2	1 3/4	"	24 1/2	"	"
Gravel backing		1/2	3	"	"	"	42
Raising haup	15	2	3/8	11 1/4	"	"	"
Strengthening do		1/2	2 1/2	18 3/4	"	"	"
Rebuilding old stone		1/2	1 1/2	"	"	11 1/4	"
New stone to do		1/2	1 1/2	"	11 1/4	"	"
Gravel backing		1/2	3	"	"	"	22 1/2
Raising haup	27	1	3/8	10 1/8	"	"	"
Widening do		1 1/2	2 1/2	101 1/4	"	"	"
Rebuilding old stone		1/2	4 1/2	"	"	20 1/4	"
New stone to do		1/2	1 1/2	"	20 1/4	"	"
Gravel backing		1/2	3	"	"	"	40 1/2
Raising haup	10	2	3/8	7 1/2	"	"	"
Widening do		1/2	1	5	"	"	"
Rebuilding old stone		1/2	1 1/2	"	"	7 1/2	"
New stone to do		1/2	1 1/2	"	7 1/2	"	"
Gravel backing		1/2	3	"	"	"	15
Raising haup	48	1 1/2	3/8	48	"	"	"
Widening do		1	2 1/2	120	"	"	"
Rebuilding old stone		1/2	1 1/2	"	"	36	"
New stone to do		1/2	1 1/2	"	36	"	"
Gravel backing		1/2	3	"	"	"	72
Carried Over				1102 3/16	247 3/4	241 7/8	466 1/4

W. H. Engineer, Cedar Rapids, Iowa

1 True Copy

W. H. Engineer

Particulars of work	Measured			Total Cubits	New stone	Old stone	Gravel backing
	L	B	D				
Brought forward				1102 $\frac{3}{8}$	267 $\frac{7}{8}$	241 $\frac{7}{8}$	466 $\frac{1}{4}$
Raising haup	12	2 $\frac{1}{2}$	$\frac{1}{2}$	15	"	"	"
Rebuilding old stone	$\frac{1}{2}$	$\frac{1}{4}$	"	"	7 $\frac{1}{2}$	"	"
New stone to do	$\frac{1}{2}$	$\frac{1}{4}$	"	"	10 $\frac{1}{2}$	"	"
Gravel backing	$\frac{1}{2}$	3	"	"	"	"	18
Raising haup	13	1 $\frac{1}{2}$	$\frac{3}{8}$	7 $\frac{15}{8}$	"	"	"
Rebuilding old stone		1	2	26	"	"	"
New stone to do	$\frac{1}{2}$	$\frac{1}{4}$	"	"	8 $\frac{1}{8}$	"	"
Gravel backing	$\frac{1}{2}$	$\frac{1}{4}$	"	"	11 $\frac{3}{8}$	"	"
Raising haup up to skin	18	2 $\frac{1}{2}$	$\frac{1}{2}$	22 $\frac{1}{2}$	"	"	"
Rebuilding old stone	$\frac{1}{2}$	1 $\frac{1}{2}$	"	"	13 $\frac{1}{2}$	"	"
New stone to do	$\frac{1}{2}$	$\frac{1}{4}$	"	"	15 $\frac{3}{4}$	"	"
Gravel backing	$\frac{1}{2}$	3	"	"	"	"	27
Reconstruction of sluice				"	"	"	"
Raising haup from sluice	21	2 $\frac{1}{2}$	$\frac{3}{4}$	39 $\frac{3}{8}$	"	"	"
Rebuilding old stone	$\frac{1}{2}$	1	"	"	10 $\frac{1}{2}$	"	"
New stone to do	$\frac{1}{2}$	$\frac{1}{4}$	"	"	13 $\frac{1}{8}$	"	"
Raising up to end of haup	15	2 $\frac{1}{2}$	$\frac{5}{8}$	23 $\frac{7}{16}$	"	"	"
Rebuilding old stone	$\frac{1}{2}$	$\frac{1}{2}$	"	"	3 $\frac{3}{4}$	"	"
New stone to do	$\frac{1}{2}$	1	"	"	7 $\frac{1}{2}$	"	"
Rebuilding old stone to drag	$\frac{1}{2}$	$\frac{1}{2}$	"	"	1	"	"
New stone to drag wall	$\frac{1}{2}$	1	"	"	2	"	"
Gravel on the top of the whale haup	46	2 $\frac{1}{2}$	$\frac{1}{8}$	"	"	"	143 $\frac{3}{4}$
Total				1236 $\frac{7}{16}$	328 $\frac{1}{8}$	286 $\frac{1}{4}$	674 $\frac{1}{2}$

Work Repairing Goojolanahally Channel Contd.					7			
Particulars of work	L	B	D	Total				
Reconstruction of sluice								
Foundation to Tunnel	60	5	$\frac{1}{2}$	450				
Do to Pials	6 $\frac{1}{2}$	6 $\frac{1}{2}$	$\frac{1}{4}$	73 $\frac{15}{16}$				
Do to Cistern	6 $\frac{1}{2}$	6 $\frac{1}{2}$	$\frac{1}{4}$	73 $\frac{15}{16}$				
Walls above	120	$\frac{1}{2}$	$\frac{1}{2}$	270				
Pials above	6	4 $\frac{1}{2}$	2	54				
Front retaining wall	6	$\frac{1}{2}$	3	27				
Cistern walls above	18	$\frac{1}{2}$	$\frac{3}{4}$	101 $\frac{1}{4}$				
Caping above	60	4 $\frac{1}{2}$	$\frac{3}{4}$	202 $\frac{1}{2}$				
Total Cubic feet stone masonry				1269 $\frac{1}{2}$				
Plastering								
Plastering for Tunnel bottom	60	6	"	360				
Do Pials in front	18	5	"	144				
Do Retaining wall	8	5 $\frac{1}{2}$	"	33				
Do Cistern walls	36	4 $\frac{1}{2}$	"	162				
Do Caping	60	4 $\frac{1}{2}$	"	270				
Total Sq. feet Plastering				969				
Opening and closing haup	8	3 $\frac{1}{2}$	2 $\frac{1}{2}$	70				
Total Cart work				70				
A year's Account	A	C	V.	Amount				
Balance	28			280				
Excess	12			120				
Highest years revenue of the last 5 years				222				
Average revenue of the last 5 years				267 $\frac{12}{9}$				
Amount expended during 5 years				"				

W. J. Engineer, Cuddalore
/ True Copy /

Abstract

Serial	Description of Charge	Rate	Amount	Total
1236 7/16	Brick	1 6	115 14 8	✓
1236 7/16	Cy. Earthwork	3 19	5 1	✓
328 1/8	do. New stone work	8	164 1	✓
286 1/4	do. Old stone work	2	35 12 6	✓
674 1/2	do. Gravel backing	2 6	105 6 3	440 7 6
1269 1/2	Effect Stone in Chumam	2	150 11	✓
969	Sq. feet Plastering	3	15 2 3	✓
70	Cy. Earthwork including tamping	2 0	6 8 12	✓
2	Wooden Posts of 8 feet length	2	4	✓
1	Cross do	1	1	185 6 3
42	Covering Stones 2 1/2 X 1 1/2 X 1 1/2	8	21	20 9 3

Total 649 15 3

Sundries and 5% on sundries @ 5 Percent 34 2 3

Total Estimate Rs. 660 15 3

The bank of this tank entirely overgrown all throughout and the stone structural trembled down. The stone altogether given out way, as the side walls fall out times it has been constructed long ago. This Estimate is provided for every thing necessary, and no supplementary will afterwards be required. The Estimated amount can be expended in 4 months from the date of its sanction. Petty repairs are not attended by Village authorities.

Moththopur
24th November 1877

Authorization

Detailed Estimate
Taluk Sidhout District Cuddalore
Village Madapoor

Repairs 11

for Repairs of the Madapoor Pattacheroor Tank

stone to do	1/2	1			
and backing do	1/2	3 1/2			206 1/2
wellings and the bank	2 1/2	1/8			36 7/8
Carried over	617 1/4	141	272 1/2	243 1/2	

Appd Engineer Cuddalore
/ Sine Copy/

Abstract

Serialty	Description of charges	Rate	Amount	To
1236 7/8	Cap. Earthwork	1 6 115 14 8	✓	

1236 7/8

328 1/8

286 1/4

674 1/2

1269 1/2

969

70

2

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amount can be a

its sanction

authorities

Moathook

27 Dec 1870

From Regt. 1047
The Overseer
of Sidhout Talag

The Officer in
Charge
Pullempe
Range

November 1870
Dec 1870

Estimate for repairing
Goojoolavarepally -
Chevaly Courtah
in the Sidhout Talag
Cuddapah District.

Amount Rs. 660

R. W. 6494/72

months from the date
was attended by

27 Dec 1870

Overseer

Estimate

Detailed Estimate

Talag Sidhout District Cuddapah

Talag Madapoor

Work Repairs of Sidhout Talag

Particulars of work	Measurement	Rate	Amount	Total
Commenced from the head				
Rough stone up to 1000	38	1/4	9 1/2	
Wing wall on the side of the river	12	3/4	9	
Earthwork to do	1 1/2	3/4	1 1/4	
Raising bank	15	3	45	
Rebuilding old stone	1/2	2 1/2	1 1/4	
Rebuilding old stone	1/2	1/2	3 3/4	
Backfilling to do	1/2	2 1/2	1 1/4	
Raising bank up to the level	50	1 1/2	75	
Rebuilding bank	1	2 1/2	2 1/2	
Rebuilding old stone	1/2	2 1/2	1 1/4	
Backfilling do	1/2	2 1/2	1 1/4	
Leveling over the old bank	27	3	81	
Rebuilding old stone	1/2	1/2	3 3/4	
Backfilling do	1/2	1/2	3 3/4	
Gravel filling up to the level	85	3	255	
Rebuilding old stone	1/2	2 1/2	1 1/4	
Backfilling do	1/2	3	1 1/2	
Repairs of old stone				
Raising bank	118	3	354	
Rebuilding old stone	1/2	2 1/2	1 1/4	
Rebuilding old stone	1/2	1	59	
Gravel backfilling do	1/2	3 1/2	1 1/4	
Leveling over the bank	2 1/2	1/2	1 1/4	

Carried over = 617 1/4 141 27 1/2 248 1/2

Offg Engineer Cuddapah Range

1 Dec 1870

Particulars of work	Measured			Total Cords	New stone	Old stone	Gravel backing
	L	B	D				
Brought forward				617 1/4	141	272 1/2	243 3/8
Raising bank	36	2	1/3	24	"	"	"
Widening do	1	3		108	"	"	"
Rebuilding old stone	1/2	2 1/2	"	"	"	45	"
New stone to do	1/2	1	"	"	18	"	"
Gravel backing do	1/2	3 1/2	"	"	"	"	63
Gravelling over the bank	3	1/8	"	"	"	"	13 1/2
Leveling bank up to old breast	3	1/4	"	36	"	"	"
Rebuilding old stone	1/2	2 1/2	"	"	"	60	"
New stone to do	1/2	1	"	"	24	"	"
Gravel backing	1/2	3 1/2	"	"	"	"	84
Gravelling over the bank	3	1/8	"	"	"	"	18
Leveling bank	27	0	1/4	20 1/4	"	"	31
Rebuilding old stone	1/2	2 1/2	"	"	"	33 3/4	"
New stone to do	1/2	1	"	"	13 1/2	"	"
Gravel backing	1/2	3 1/2	"	"	"	"	47 1/4
Gravelling over the bank	3	1/8	"	"	"	"	10 1/8
Raising bank	110	2	5/16	68 3/4	"	"	"
Widening do	1	3		330	"	"	"
Rebuilding old stone	1/2	2 1/2	"	"	"	137 1/2	"
New stone to do	1/2	1	"	"	55	"	"
Gravel backing	1/2	3 1/2	"	"	"	"	192 1/2
Gravelling over the bank	3	1/8	"	"	"	"	41 1/4
Raising bank	82	2	1/3	54 2/3	"	"	"
Widening do	1	3		246	"	"	"
Rebuilding old stone	1/2	2 1/2	"	"	"	102 1/2	"
New stone to do	1/2	1	"	"	41	"	"
Gravel backing	1/2	3 1/2	"	"	"	"	143 1/2
Gravelling over the bank	3	1/8	"	"	"	"	30 3/4
Carried over				1504 1/2	292 1/2	651 1/4	884 11

Particulars of work	Measured			Total Cords	New stone	Old stone	Gravel backing
	L	B	D				
Brought forward				1504 1/2	292 1/2	651 1/4	884 11
Leveling bank	47	2 1/2	1/4	29 3/8	"	"	"
Strengthening do	1/2	3 1/2	"	52 1/4	"	"	"
Rebuilding old stone	1/2	2 1/2	"	"	"	58 3/4	"
New stone to do	1/2	1	"	"	23 1/2	"	"
Gravel backing	1/2	3 1/2	"	"	"	"	82 1/4
Gravelling over the bank	3	1/8	"	"	"	"	17 9/16
Raising bank	27	3	1/3	27	"	"	"
Rebuilding old stone	1/2	2	"	"	"	27	"
New stone to do	1/2	1 1/2	"	"	20 1/4	"	"
Gravel backing do	1/2	3 1/2	"	"	"	"	47 1/4
Gravelling over the bank	3	1/8	"	"	"	"	10 1/8
Raising bank	30	2 1/2	1/3	25	"	"	"
Strengthening do	1/2	3	"	45	"	"	"
Rebuilding old stone	1/2	2 1/2	"	"	"	37 1/2	"
New stone to do	1/2	1	"	"	15	"	"
Gravel backing	1/2	3 1/2	"	"	"	"	52 1/2
Gravelling over the bank	3	1/8	"	"	"	"	11 1/4
Raising bank	78	2	1/3	52	"	"	"
Widening do	1	3 1/2	"	273	"	"	"
Rebuilding old stone	1/2	2 1/2	"	"	"	97 1/2	"
New stone to do	1/2	1	"	"	39	"	"
Gravel backing	1/2	3 1/2	"	"	"	"	136 1/4
Gravelling over the bank	3	1/8	"	"	"	"	29 1/4
Raising bank	55	2 1/2	1/3	45 5/6	"	"	"
Strengthening do	1/2	2 1/2	"	68 3/4	"	"	"
Rebuilding old stone	1/2	2 1/2	"	"	"	68 3/4	"
New stone to do	1/2	1	"	"	27 1/2	"	"
Gravel backing	1/2	3 1/2	"	"	"	"	76 1/4
Gravelling over the bank	3	1/8	"	"	"	"	20 5/8
Carried over				2153 1/3	417 3/4	940 3/4	1390 7/8

W. H. L. Engineer
/ S. C. C. /

Particulars of work

Measurement

Total

New

Old

Gravel

L B D

Cust.

stone

stone

backing

Brought forward

2153 1/8 417 3/4 940 7/4 1390 1/8

Raising bank

33 1 3/4 3/8 21 3/8

Strengthening do

1 1/4 2 1/2 103 1/8

Rebuilding old stone

1/2 2 1/2 41 1/4

New stone to do

1/2 1 14 1/2

Gravel backing

1/2 3 1/2 57 3/4

Graveling over the bank

3 1/8 12 3/8

Raising bank

42 2 1/2 1/3 35

Strengthening do

1/2 2 1/2 52 1/2

Rebuilding old stone

1/2 2 1/2 52 1/2

New stone to do

1/2 1 21

Gravel backing

1/2 3 1/2 73 1/2

Graveling over the bank

3 1/8 15 3/4

Rebuilding old stone

24 1/2 2 1/2 30

New stone to do

1/2 1 12

Raising bank

54 1 1/2 1/3 27

Widening do

1 1/2 3 24 3

New stone to do

1/2 1/2 18 1/2

Gravel backing

1/2 1/2 13 1/2

Graveling over the bank

3 1/8 20 1/4

Leveling bank

12 2 1/4 6

Widening do

1 2 1/2 30

New stone do

1/2 1/4 1 1/2

Gravel backing

1/2 1/4 1 1/2

Graveling over the bank

3 1/8 4 1/2

Leveling bank

33 2 1/2 1/4 20 7/8

Strengthening do

1/2 1 3/4 28 7/8

New stone do

1/2 3/4 12 3/8

Gravel backing

1/2 3/8 6 3/16

Graveling over the bank

3 1/8 12 3/8

Carried over

2720 29/32 494 7/8 1064 1/2 1605 9/16

Repairs of Madapoor Pattacharooro Sanku

15

Particulars of work

Measurement

Total

New

Old

Gravel

L B D

Cust.

stone

stone

backing

Brought forward

272 494 7/8 1064 1/2 1605 9/16

Leveling bank

22 1 1/2 1/4 8 1/4

Widening do

1 1/2 2 1/2 52 1/2

New stone do

1/2 1 16 1/2

Gravel backing

1/4 1 5 1/2

Graveling over the bank

3 1/8 3 1/4

Leveling bank

6 1 1/2 1/4 2 1/4

Widening do

1 1/2 3 27

New stone do

1/2 1 1/2 4 1/2

Gravel backing

1/2 1 1/2 4 1/2

Graveling over the bank

3 1/8 2 1/4

Raising bank

22 2 3/16 8 1/4

Widening do

1 4 8 8

Rebuilding old stone

1/2 3 33

New stone do

1/2 1 1/2 16 1/2

Gravel backing

1/2 3 1/2 38 1/2

Graveling over the bank

3 1/8 8 1/4

Leveling bank

40 2 1/2 1/4 25

Strengthening do

1/2 3 60

New stone do

1/2 1 1/2 30

Gravel backing

1/2 1 1/2 30

Graveling over the bank

3 1/8 15

Leveling bank

36 2 1/4 18

Widening do

1 8 108

New stone do

1/2 1 1/2 27

Gravel backing

1/2 1 1/2 27

Graveling over the bank

3 1/8 13 1/2

Leveling bank

24 2 1/4 12

Widening do

1/2 8 36

Rebuilding old stone

1/2 8 36

Carried over

3244 5/32 589 1/8 1133 1/2 1761 5/16

Offg. Engineer, Cuddalore

/ S. S. C. S. /

Particulars of work	Measured			Total C. & F.	New stone	Old stone	Gravel back
	L	B	D				
Brought forward				3244 $\frac{5}{32}$	589 $\frac{1}{8}$	1100 $\frac{1}{2}$	1761 $\frac{1}{16}$
R New stone to do	24	$\frac{1}{2}$	$\frac{1}{2}$	"	18	"	"
I Gravel backing		$\frac{1}{2}$	$\frac{4}{2}$	"	"	"	54
R Graveling over the bank	3	$\frac{1}{8}$	"	"	"	"	9
R Raising bank	40	$2\frac{1}{2}$	$\frac{1}{8}$	33 $\frac{1}{3}$	"	"	"
I Strengthening do		$\frac{1}{2}$	$2\frac{1}{2}$	50	"	"	"
I New stone to do		$\frac{1}{2}$	$\frac{1}{2}$	"	10	"	"
R Gravel backing		$\frac{1}{2}$	$\frac{1}{2}$	"	"	"	10
I Graveling over the bank	3	$\frac{1}{8}$	"	"	"	"	15
R Raising bank	20	$2\frac{1}{2}$	$\frac{1}{8}$	16 $\frac{2}{3}$	"	"	"
I Strengthening do		$\frac{1}{2}$	$2\frac{1}{2}$	25	"	"	"
I New stone to do		$\frac{1}{2}$	$\frac{3}{4}$	"	7 $\frac{1}{2}$	"	"
I Gravel backing		$\frac{1}{2}$	$\frac{1}{2}$	"	"	"	5
I Graveling over the bank	3	$\frac{1}{8}$	"	"	"	"	7 $\frac{1}{4}$
I Levelling bank	66	$3\frac{1}{2}$	$\frac{3}{8}$	86 $\frac{5}{8}$	"	"	"
R Strengthening do		$\frac{1}{2}$	$2\frac{1}{2}$	82 $\frac{1}{2}$	"	"	"
I New stone do		$\frac{1}{2}$	$1\frac{1}{4}$	"	41 $\frac{1}{4}$	"	"
I Backing do		$\frac{1}{2}$	$1\frac{1}{4}$	41 $\frac{1}{4}$	"	"	"
I Raising bank	51	$2\frac{1}{2}$	$\frac{3}{8}$	47 $\frac{13}{16}$	"	"	"
I Strengthening do		$\frac{1}{2}$	$2\frac{1}{2}$	63 $\frac{3}{4}$	"	"	"
I New stone do		$\frac{1}{2}$	$1\frac{1}{4}$	"	41 $\frac{1}{4}$	"	"
I Backing do		$\frac{1}{2}$	$1\frac{1}{4}$	41 $\frac{1}{4}$	"	"	"
I Raising bank up to 2d line	51	$2\frac{1}{2}$	$\frac{3}{8}$	47 $\frac{13}{16}$	"	"	"
I Strengthening do	12	$\frac{1}{2}$	2	12	"	"	"
I Rebuilding old stone		$\frac{1}{2}$	$2\frac{1}{2}$	"	"	15	"
I New stone do		$\frac{1}{2}$	1	"	6	"	"
2d line to be repaired				"	"	"	"
I Raising bank	42	3	$\frac{3}{4}$	94 $\frac{1}{2}$	"	"	"
I New stone do		$\frac{1}{2}$	$2\frac{1}{2}$	"	52 $\frac{1}{2}$	"	"
I Backing do		$\frac{1}{2}$	$2\frac{1}{2}$	52 $\frac{1}{2}$	"	"	"
Carried over				3876 $\frac{4}{32}$	749 $\frac{2}{8}$	1148 $\frac{1}{2}$	1861 $\frac{13}{16}$

Particulars of work	Measured			Total C. & F.	New stone	Old stone	Gravel back
	L	B	D				
Brought forward				3876 $\frac{4}{32}$	749 $\frac{2}{8}$	1148 $\frac{1}{2}$	1861 $\frac{13}{16}$
R Raising bank	86	3	$\frac{5}{8}$	161 $\frac{1}{4}$	"	"	"
I New stone do		$\frac{1}{2}$	2	"	86	"	"
I Backing do		$\frac{1}{2}$	2	86	"	"	"
I Levelling over the 3d line	10	3	$\frac{1}{4}$	7 $\frac{1}{2}$	"	"	"
I Raising bank	18	$2\frac{1}{2}$	$\frac{2}{3}$	30	"	"	"
I New stone do		$\frac{1}{2}$	1	"	9	"	"
I Wing wall with new stone	10	$\frac{3}{4}$	$1\frac{1}{2}$	"	11 $\frac{1}{4}$	"	"
I Removing bank for rough				"	"	"	"
I stone & iron	3	6	$1\frac{1}{4}$	22 $\frac{1}{2}$	"	"	"
I Rough stone & iron	12	6	$\frac{3}{4}$	"	54	"	"
I Opening foundation do		6	$\frac{1}{4}$	18	"	"	"
Total				4201 $\frac{19}{32}$	910 $\frac{1}{8}$	1148 $\frac{1}{2}$	1861 $\frac{13}{16}$

	Measured			Total C. & F.
	L	B	D	
Repairs of the 1st line				
Foundation to Tunnel	24	5	$1\frac{3}{4}$	210
Do to front pials	6 $\frac{1}{2}$	$6\frac{1}{2}$	$1\frac{3}{4}$	73 $\frac{15}{16}$
Do to Cistern	6 $\frac{1}{2}$	$6\frac{1}{2}$	$1\frac{3}{4}$	73 $\frac{15}{16}$
Side walls above	48	$1\frac{1}{2}$	$1\frac{1}{2}$	108
Cistern do	18	$1\frac{1}{2}$	$3\frac{3}{4}$	101 $\frac{1}{4}$
Pials above	6	$4\frac{1}{2}$	2	54
"	3 $\frac{3}{4}$	$4\frac{1}{2}$	1	16 $\frac{7}{8}$
Front retaining wall	6	$1\frac{1}{2}$	3	27
Capping above	24	5	$\frac{3}{4}$	90
Total Stone in Channel				757

W. J. Engineer, Caddell & Co. survey
/ True Copy /
W. J.

Plastering of the 1st & 2nd stories				Total
	sq ft	sq yds	sq ft	sq yds
Sidewalls on both sides	48	4 1/2	"	216
Do to Peals	18	2	"	144
Do to Cistern walls	36	4 1/2	"	162
Do to Retaining wall	6	5 1/2	"	33
Do coping	24	5	"	120
Total Spigged Plastering				675
Opening & closing haub	8	3	13 1/4	42
Total Earthwork				42
Repairs of the 2nd story				
Foundation to front peals	6 1/2	6 1/2	13 1/4	73 15/16
Do to Tunnel	12	5	13 1/4	105
Do to Cistern	6 1/2	6 1/2	13 1/4	73 15/16
Do to Sidewalls above	24	1 1/2	1 1/2	54
Do to Cisterns	18	1 1/2	3 3/4	101 1/4
Do to Peals above	6	4 1/2	2	54
Do to Front retaining wall	3 3/4	4 1/2	1	16 7/8
Do coping above	6	1 1/2	3	27
Do coping above	12	5	3 1/4	45
Total Earthwork in this				561
Plastering				
Sidewalls on both sides	24	4 1/2	"	108
Do to Peals	18	2	"	144
Do to Cistern walls	36	4 1/2	"	162
Do to Retaining wall	6	5 1/2	"	33
Do coping	12	5	"	60
Total Spigged Plastering				507
Opening & closing haub	4	2	1	8
Total Earthwork				8

Repairs of the 2nd story					19
Amount expended					Amount
Cement	20	"	"	"	2145
Stone	9	"	"	"	1808
Highway years revenue					9597
Average revenue the last 5 years					2227
Amount expended during 5 years					6
Quantity	Description of work	Rate	Amount	Total	
4201	Do Earthwork	1 6	390	13 6	
4201	Do Tamping do	" 3	55	10 3	
910 1/2	Do New stone work	" 10	535	13 3	
1148 1/2	Do Old stone work	" 3	215	5 6	
1861 13/16	Do General haubing	" 4	465	7 3	
1861 13/16	Do Tamping do	" 3	27	1 5	1738 3 2
Repairs of 2nd story					
1318	Effect Stone in channels	" 2 6	205	15 "	
1182	Spigged Plastering	" 4	24	10 "	
50	Do Earth for opening & closing haub	" 2 6	7	13 "	
24	Carrying stones each 3' x 1 1/2' x 1/2'	" 8 "	12	" "	
4	Wooden Posts " 9' x 3/4"	" 4 "	16	" "	
2	Do Cross " 6' x 1/4"	" 1 8 "	3	" "	269 6 "
Total				2007	9 2
Sundries & Superintendence @ 10 Percent				202	6 10
Total Estimated				2210	" " 28

The old stone structure of the tank at the head of the road, and the consequent of the tank being partially worked away, has fallen, and the sand very much exposed, the front, only 2.2 miles to the west of the tank, is greatly exposed.

Order, and should be looked to as soon as possible.

Estimate in provision of money necessary, and no supplementary well effected.

Report, \$500.

Work completed within nine months.

From the date of its execution. But repairs have not been attended to in any manner.

Distance of stone quarry is half a mile.

Balance —

11 Dec 1871. Submitted for sanction of the Committee.

6 Jan 1871. Supervisor D.H.

Detailed Estimate No 15 of 1870-71.

Channell along Chellampall Canal. Guacaf sub Dist.

Work. Repairing damage done to the Madras Road by the late rains.

Detail of work.	miles	width	measurements			C.C.	Total quantity of each kind of work.
			1	2	3		
							290
							37 1/2
							50
							125
							37 1/2
							80
							127 1/2
							82 1/2
							225
							1102 1/2
							45
							5 1/2
							202 1/2
							12 3/8
							42
							8 1/2
							36
							216
							45
							21
							682 1/2
Spreading gravel.	27	4	130	5	1/2	62 1/2	
	8	130	5	1/2	75		
	36	3	102	5	1/2	42 1/2	
	4	220	5	1/2	91 1/2		
	47	7	220	5	1/2	91 1/2	
Total gravel 682 1/2							

To the Hon. Secy. to Govt.

Asst. Engineer Chittoor District.

1/2

and for everything necessary, and no supplementary will
 be required. The Paper, \$500, could be employed
 and the work completed within nine months,

K. H. Root: 10/16/66

62 to 119 10 11/72
 119 to 24 12/72

Abilene
11th Dec

6. Ja.

Reg. No. 1046
France

The Overseer
By Richard
Talbot

on the 23rd Jan

The Officer
in Charge
Rangef

Oct 11 } D... .. 1890

Estimate for repair
-ing Madapur Path

= Cherokee Township
the Edgmont Twp
and as all Distres

Case No. 2210-11
C. 6494/72

Detailed Estimate No 15 of 1870-71.
Pillampett Taluk Pillampett Census. Guceapah Dist.
Work. Repairing damage done to the Madras Road
by the late rains

Detail of work	Mile	Days	Measurements			C.C.	Quadrant of each kind of work
			Y	S	D		
Filling benches in road (gravel)	27	7	60	2 1/2	1/2	37 1/2	
Do			40	2 1/2	1/2	50	
Do			50	2 1/2	1	125	
Do		8	100	2 1/2	1 1/2	375	
Do			80	2	1/2	80	
Do	36	3	102	5	1/4	127 1/2	
Do		4	60	5 1/2	1/4	82 1/2	
Do			70	5 1/2	3/4		
Do			90	5	1/2	225	
Gravel C.Yards							1102
Filling benches in road	47	7	5	9	1	45	
Do			12	9	1/2	5 1/4	
Do			9	9	2 1/2	202 1/2	
Do			9	5 1/2	1/4	12 3/8	
Do			12	2	1/2	42	
Do			6	5 1/2	1/4	8 1/4	
Do			12	5 1/2	1/2	36	
Do			48	9	1/2	216	
Do			45	2	1/2	65	
Do			14	3	1/2	21	
Total earthwork C.Yards							60
Spreading gravel	27	7	120	5	1/2	62 1/2	
Do		8	180	5	1/2	75	
Do	36	3	102	5	1/2	42 1/2	
Do		4	220	5	1/2	91 2/3	
Do	47	7	220	5	1/2	91 2/3	
Total gravel C.Yards							14

270 272 146
 Lt. Col. James C. Cassin
 Asst. Engineer, Cavalry
 / Grand Canyon /

Description of work

Report to accompany the foregoing estimate.
The above is an estimate of the Chief damage done to the
Mackinac Road during the late rains. The greater part
of the repairs estimated for have been counted out of the
annual maintenance grant, and ordinary repairs have been solely reflected in consequence.

9th February 1871

Salvy Bussca O.P.M.

W. A. Cowley

Superior, Mich.

Roller 1st

Wm. Engeman Cust
/ True Copy /

23rd December 1872

N^o 1194

From, The Officer in Charge of
Cassarah Range

To, The District Engineer of
Cassarah

Sir,

In reference to Superintending Engineer's
Indorsement of Copy of Memorandum N^o 223 of
15th November 1872 from the Chief Engineer P. W. C.
I have the honor herewith to forward the Estimates
called for.

II. The two Tanks Madakoor-Pattacherroo and
Goojoolarari fully Carat Comlah were completed
in August 1871. I did not find time to inspect
them till April 1872. The work in both tanks bunds
had been satisfactorily performed but the quantity
could not be checked as there was water in the
Tanks, and the pits had been excavated in the bed.
I also had no sections of the bund previous to the
work being done to it to help me as the Overseer had
just entered the heights &c in the Estimate, as
he thought fit and proper.

III. The part of the Maras Road Estimated
for was in fair order when I inspected it in
May 1872. This work was completed in September 1871.
I could not check this for there was no one to show
me where the pits &c were the Jew by the road
side hire measuring for under the amount put
down in the Estimate for Earthwork.

I have the honor Y^{rs} Obedt
Wm. H. Hunter C.E.
Dist. Engineer Cassarah Range
/ True Copy /

Memorandum showing the Expenditure on the following 3 Tanks
Estimated for repairing all Madakoor-Pattacherroo & Goojoolarari
1st for 1000 Rs. 00 p. 00 c. Goojoolarari Carat Comlah
1st for 1000 Rs. 00 p. 00 c. Maras Road
1st for 1000 Rs. 00 p. 00 c. Chief Engineer's Memorandum N^o 223 herewith sent

1872 to 1873 Rs. 1000 00 00

1872 to 1873 Rs. 1000 00 00

Amount shown in charge
of the Officer in Charge
Cassarah Range

Dated 9th Dec. 1872
Received 10th Dec. 1872

Wm. H. Hunter

Estimated for the repair
of the tanks above
to the Maras Road
during the 1872-73

Amount of Estimate
Rs. 972

111 6494/72

Amount in charge of the Officer in Charge

12M/1494/72

Ordered 3 Estimates and
 1 Estimate with Particulars
 Explanation regarding the
 Method of Estimate,
 Georgia Cavalry, Cavalry
 and Cavalry Squad

No 1194

Ordered 23 Dec 1892
 Dec 2

Ordered 23 Dec 1892
 Dec 2

1892/75.

Statement showing the expenditure incurred during the 1892/75. Cavalry's time in the State of Tennessee

Time of work	Amount of Estimate	Amount of Actual Expenditure	Grant for 1891/92	Oct 1891	May	June	July	August	September	Total	By the State
Repairing Cavalry and the Cavalry Squad	3.220	570	1700			12	5	102	25	1684	26
Repairing Georgia Cavalry Squad Cavalry Squad	3.685		685					5	7	684	40
Repairing Cavalry Squad	"	"	972					630	341	971	152

Approved Range Officer
 22 Dec 1892

Signed J. M. Spaulden C.E.
 Chief Cavalry Engineer Cavalry Squad

True Copy

W. H. H. H.

Chief Cavalry Engineer

81745

Office of the Controller of
Public Works Accounts,
Fort St. George, 2^d November 1872.

From,

The Controller of
Public Works Accounts,

To,

The Secretary to Government,
Public Works Department,
Fort St. George

Sir,

I have the honor to
reply to the notice of Government
that the works enumerated in

Madapoor Sathacheroo	} the margin,	
Temple ————— 2177. 2-6.		} situated in
Repairing Madras road — 972 — — —		
Gojrolavarimilly Carili bontals ————— 685 — — —		

were completed in 1871/2
during the period Mr. Cowley

From
The Office of the
Controller of
Public Works Accounts
Fort St. George
23 Decr 72

Madras Sathacheroo
Temple
Repairing Madras road
Gojrolavarimilly Carili
bontals

P.W. 6494/72

(since dismissed the service) was in charge of the Sullumpett Range. The officer in charge of the Buddapah Range, with which Sullumpett has been amalgamated, states his inability to furnish the completion Certificates for the works in question, as he cannot check the expenditure incurred on them. The Superintending Engineer of the Division is of opinion that it is quite impossible for Mr. Hunter to furnish the documents required, under the circumstances stated.

2. I beg, therefore, to be

33
favored with the orders of Government, as to whether the certificates may be dispensed with.

I have the honor to be
Sir

Your most obedient servant

S. Hoell
Controller of Public
Works Accounts.

11/11/1872

Chobiz

1311 6494/72

Request to the account
Government and other
the Commission of the
Certificate for certain
more in the Contract
which must for the
reason of the
deposited with.

1311 6494/72
1311 6494/72

1311 6494/72

1311 6494/72

1311 6494/72

No. 130 District Engineer's Office
Caddoah
26th December 1872.
From, The District Engineer
Caddoah
To, The Chief Engineer
Public Works Department
Port Saint George,
Maras.
Sir,
Enclosures 6.
With reference to your Memorandum
of 1st 22nd dated 15th November last to the address
of the late Superintending Engineer 3rd Division
I have the honor to forward the accompanying
Original Estimates to gether with a statement
of Monthly expenditure from commencement to date
of completion.
2. As regards the state of the works when Mr.
Assistant Engineer Hunter took charge of the, old
Ballampet Range, I have the honor to enclose copy of
letter of 1st 1194 dated 23rd December 1872 from
that reporting briefly on the condition of these three works.
3. The Controller's letter of 1st 1745 dated 2nd November
is herewith returned.
I have the honor to be,
Sir,
Your most Obedt. Servant
J. L. M.
District Engineer Caddoah.

John

Paid \$6.00 { December 1892
 Dec 30 1892
 1892
 In reply to Howard
 from the
 down 1892 of 15
 November each former
 the original letters
 and statement of Howard
 Highland and Howard
 write the copy of letter
 Howard is return the
 1892 date 1892
 1892-1892
 1892

1872
 15th of January
 No 0494
 The City Engineer
 Casata
 Chief Engineer
 200 90 St Andrews
 Fort St George
 Madras

No 309 P. h. d. 4
Proceedings of the Madras Government 37
Read the following: 5
From the 1. 4. 22

From,

The Controller of } (H. E. No. 17457 22 Dec 1912
 P. W. Acto }
 " S. E. Engineer }
 Judolapah } (" " " 1507 26 Dec 1912

Under the cir-

stances represented,
The Controller is au-
thorized to dispense
with the usual com-
pletion Certificates
for the works noted
marginally.

Emm C. J.

Madapoor Kathacheroo
Sankt- 2197
Respecting Maras Road " 972
Gougoolavampilly Lavate
Coontaki } " 685-

02 Sugar Cane Dept. ✓
Antilles ✓

Desp. 2 1/2/73.

1/2 5365 26497

Govt. of 1873 Madras.

PUBLIC WORKS.

To the District Engineer
Maddur

Dated

Recd.

Encl. 6

G. O. 30th Aug. 1873. No. 307.

For 629C 631

Completion Certificates.

The undersigned P.W.
Accts. Authorized to
dispense with the
Completion Certificates
for certain works.