

(1) Number of pages 26(2) Date of repair 27-8-43

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No.	23	Press Mis.
45-45-4		
Dated	5-1-	1869.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
5th January 1869.*

No. 45. Read the following letter from the Superintending Engineer, 3rd Division, to the Secretary to Government, Public Works Department, dated Camp at Madakseera, 5th November 1868, No. 2,811 —

1. With reference to G. O , No 3,163, dated 7th October 1868, I have the honor to submit the accompanying estimate, &c , for completing Trunk Road No XII. between Joladrassy, thirteen miles from Bellary, and the Pennair river near Pen Hoblum. The distance is about twenty-five miles, and the chief items are masonry works, metalling, and gravelling.

2. Some years ago (1855-56, I believe,) an estimate for a bridge across the Pennair river was sanctioned and commenced ; but after a quantity of stone had been collected, and several piers had been founded, all work was dropped. As the Pennair river is not in flood for any length of time, and as the chief requirements of this road are the smaller masonry works and metalling, I have not considered it advisable to waste the time of this department in preparing a plan, &c., for a bridge which most probably would not be sanctioned

No. 45 A. ORDER THEREON, 5th January 1869, No. 23.

CIVIL WORKS, No. 4

1. With this letter the Superintending Engineer of the 3rd Division submits estimates of Rupees 92,500 for forming, metalling, and gravelling about twenty-five miles of Trunk Road No. 12 between Joladiassy and the Pennair river near Pen Hoblum in the Bellary District, including the cost of minor masonry works, but making no provision for a bridge across the Pennair river, as, in the opinion of the Superintending Engineer, such a structure is not urgently needed, owing to the river not being in flood for any length of time.

2 The Government approve of the estimates, but no funds being at present available for the work, it must be deferred.

(True Extract)

Colonel, R. E.
Secretary to Government.

To the Superintending Engineer 3rd Division
" Controller of Public Works Accountant
" Accountant General

Exd. S. T. Augustin.

*Division
era
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1868
3163
the
Trunk
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in R.E.
Division*

Gort. of 1869 Madras.

PUBLIC WORKS.

To

THE SUPERINTENDING ENGINEER,

3^d DIVISION

&c, &c, &c

Date 1 January, 5th.

Recd

Enc

G O, 5th January 1899, No 23

JANUARY.

Nos. 45-45 A

Trunk Road No. 12 — Estimates amounting to Rupees 92,500 for forming, metal-ling and gravelling a portion of Trunk Road No. 12, between Jolachassy and the Pennu river, near Pen Haddam, in the Bellary District, approved.

No 2811

Supg. Engr. Office 3^d Division
Camp, Madakasa
Bellary District
5th November 1888

From

The Superintending Engineer
3^d Division

&

The Secretary to Government
(P. W. D.)

Sir,

With reference to G. O. No. 3163 dated 7th Oct 1888, I have the honor to submit the accompanying Estimate, for completing Trunk Road No. 12 between Jolachassy, 13 miles from Bellary, and the Pennu River near Pen Haddam. The distance is about 25 miles, and the chief items are masonry works, metal-ling and gravelling.

Some years ago (1886-87 I believe), an estimate for a Bridge across the Pennu River was sanctioned and commenced; but after a quantity of stone had been collected and several piers had been founded, all work was dropped. As the Pennu River is not in flood for any length of time, and as the chief requirements of this road are the smaller masonry works and metal-ling, I have not considered it advisable to waste the time of this Department in preparing a Plan &c. for a Bridge which most probably would not be sanctioned.

I have &c.

W. M. S. Major R. E.
Supg. Engineer 3^d Division

Rs. 92,500

1. Plans

2. Estimates

3. Specifications

William Lloyd Garrison

New North York

Commencement

North? Improving the Smith Road No 411 from junction with the Gully & Bellany Road to the
South side of the River Ure. As Called for by Survey Engineer Messrs Dutton 26 January 1865

56

Project No. at the Station	Mile Number	Welding and Fitting			Metalting 1/2 inch			Gravelling 2 1/2 Filling			Side Drains			Manufacturing			Paving	Total		
		Cyrs	Rate	Amount	Cyrs	Rate	Amount	Cyrs	Rate	Amount	Cyrs	Rate	Amount	Cyrs	Rate	Amount				
1	Road Dam 1741																161	161		
2	14 1840	2	235	470	1 1/2	87	130	1 1/2	108	162							1573	54		
3	" 1875	2	60	120	1 1/4	390	10	350	1	218	12						670	5		
4	15 2001	2	230	460	1 1/4	1042	3	7335	10	156	6	8	125	1 1/4	1068		1789	14		
5	Road Dam 1742																103	8		
6	" 1980	2	247	494	1 1/8	1125	1	840	1 1/2	612	8	450	1 1/4	378			2022	8		
7	16 690	2	16	32	1 1/2	437	5	2800	1 1/2	204	2	8	210	1 1/4	1610	8	744	94		
8	Road Dam 1743																103	8		
9	Road Dam 1744																206	-		
10	Road Dam 1745																276	-		
11	17 3532	2	241	482	1 1/8	1658	10	12352	1 1/2	901	6	4	849	1 1/4	7012		3069	44		
12	Road Tunnel 1746																271	-		
13	18 1368	2	525	1050	1 1/8	1818	12	13581	1 1/2	990	3	4	911	1 1/4	75		126	-		
14	Road Dam 1747																126	-		
15	Road Dam 1748																2426	94		
16	" 2005	2	251	502	1 1/8	1437	8	8162	1 1/4	680	2	8	450	1 1/4	378		1413	8		
17	Road Dam 1749																1202	8		
18	19 170	2	116	232	2	750	1	4200	1 1/2	306	4						391	83		
19	Road Tunnel 1750																3093	10		
20	20 4050	2	506	1012	1 1/8	1687	6	12600	1	787	8	1237	1 1/4	1128			276	-		
21	Road Dam 1751																754	28		
22	" 900	2	112	224	1 1/2	437	5	2800	1 1/2	204	2	8					632	101		
23	Road Tunnel 1752																142	6		
24	139	2	142	284													161	4		
25	1290	2	161	322													126	4		
26	100	2	126	252													632	101		
27	Road Tunnel 1753																1474	42		
28	363	2	70	140	1 1/8	695	3	23663	1	353	13						905	86		
29	21 790	2	84	168	1 1/8	354	10	4137	1	255	9	958	1 1/4	7134			200	-		
30	100	2	128	256	1 1/8	157	8										126	-		
31	Road Dam 1754																792	8		
32	140	2	31	62	1 1/8	375	1	1200	1	262	8	910	1 1/4	76						
33	140	2	31	62	1 1/8	375	1	1200	1	262	8	910	1 1/4	76			357	8		

Dec 11 1885
 D. D. Adams
 100 N. 1st St.
 New York
 N. Y.

See also
3784

The Secretary
 11/17/87

White Sea, 1890
Vol. 27 " "
Lactaria H.

Adm. Comm.

towards 'Gloriously See'
 'for Conquering of them'
 'Raid of the Hill between'
 'Military and Persian'
 'their mounting to'
 'to 2500/-'
 'No. 23-5-5' 'Persian'

No.	Date	Masonry			Metalling			Graveling & Paving			Side Drain			Stone facing			Masonry		Total	
		Cy	Rate	Amount	Cy	Rate	Amount	Cy	Rate	Amount	Cy	Rate	Amount	Cy	Rate	Amount				
				3536 5.			13488 16.			6674 12 8			443 4 8			354 8.	3575 4 5	28093 1 9		
33	21	Road dam 1415															188 8.	188 8.		
34		Road dam 1416															143 8.	143 8.		
35	22	1746 . 2 . 218 4 .	727 5	1 4 .	909 6 .	8148	- 1 .	509 4 .									126 .	126 .		
36		Road dam 1417															161 .	161 .		
37		Road dam 1418															196 .	196 .		
38		Road dam 1419																3400 14 .		
39	23	4440 . 2 . 577 8 .	1125	1 12 .	1968 12 .	12600	- 1 .	787 8 .	1525 8 .	1 4 .	127 2 .						675 .	1 4 .	56 4 .	
40																				
41		3000 . 2 . 375 .	625	2 .	1250 .	7000	- 1 2	570 6 8						16875	1 4 .	210 16 .			2346 5 8	
42		Road Turn 1420															632 10 1	632 10 1		
43		Road Dam 1421															276 .	276 .		
44	24	2000 . 2 . 250 .	500	2 .	1000 .	5600	- 1 2	408 5 4	155 .	1 4 .	11 4 .	30	1 4 .	37 8 .			1677 12 1			
45		Road Turn 1422															391 8 3	391 8 3		
46		600 . 2 . 75 .	125	2 .	250 .	1400	- 1 2	102 1 4												
47		Road Dam 1423															246 .	246 .		
48		Road Dam 1423 1/2															103 8 .	103 8 .		
49		2400 . 2 . 300 .	750	2 .	1500 .	8400	- 1 2	612 8 .	1050 .	1 4 .	87 8 .									
50		Road Dam 1424															143 8 .	143 8 .		
51	25	1346 . 2 . 141 13 2	23870 2 4 .	514 11 .	2362 .	1 2	189 13 .	450 .	1 4 .	37 8 .									882 12 9	
52		Road Dam 1425															346 .	346 .		
53		Road Dam 1426															241 .	241 .		
54		2596 . 2 . 324 9 .	750	2 .	1500 .	8400	- 1 .	525 .	900 .	1 4 .	75 .								2424 9 .	
55		Road Dam 1427															391 8 3	391 8 3		
56	26	780 . 2 . 97 8 .	375	2 .	750 .	4200	- 1 .	262 8 .	900 .	1 4 .	75 .								1185 .	
57		Road dam 1428															473 8 .	473 8 .		
58		66 . 2 . 8 2 .	125	2 .	250 .	1400	- 1 2	102 1 4	265 5 .	1 4 .	22 2 .								382 5 4	
59		1640 . 2 . 205 .	125	2 .	250 .	1400	- 1 2	102 1 4	310 .	1 4 .	25 .								382 1 4 .	
60		600 . 2 . 75 .	500	2 .	1000 .	5600	- 1 2	408 5 4	910 .	1 4 .	75 .								1538 5 4	
61		Road Dam 1429															381 .	381 .		
62	27	450 . 2 . 56 4 .	375	1 8 .	562 8 .	4200	- 1 .	262 8 .	300 .	1 4 .	25 .								906 4 .	
63		Road Dam 1430															161 .	161 .		
64		600 . 2 . 75 .	750	1 4 .	937 8 .	8400	- 10	407 8 .	350 .	1 4 .	29 2 8								1479 2 8	
65		Road Dam 1431															121 .	121 .		
66	28	650 . 2 . 86 4 .	375	1 8 .	562 8 .	4200	- 1 .	262 8 .	100 .	1 4 .	8 5 4								919 9 4	
67		132 . 2 . 54 .	260	1 8 .	375 .	2310	- 1 .	175 .											604 .	
68		Road Turn 1432															391 8 3	391 8 3		
69		7056 . 2 . 88 3 2	125	1 5 .	157 8 .	1400	- 1 1	94 12 8	300 .	1 4 .	25 .								396 7 1	
70		365 . 2 . 170 10 .	1375	1 8 .	651 4 .	4900	- 1 2	357 4 8											1179 2 .	
Total				1574 6 4			2775 .			12754 4 1			141 1 5			102 15 0				

29th Oct 1880

	Widening & Laying			Installing			Graveling & Rolling			Side Drains			Surfacing			Masonry	Total
	Cy	Rate	Amount	Cy	Rate	Amount	Cy	Rate	Amount	Cy	Rate	Amount	Cy	Rate	Amount		
Brought Over			6674 64			2790			12784 44			1141 48			602 16	8789 153	5770 137
71 29	Burquandah	11 33														1980	1980
72	"	2	625	250	1 4	312 8	2800	1	176							113 8	113 8
73	Road Drain	11 34															2352 14
74 30	"	2	175	575	1 12	1531 4	900	1	612 8	400	1 4	33 5 4					1090 117
75	"	2	378	400	1 12	701 6	9487	1 2	327 210	300	1 4	25					339 9 4
76	"			125	1 12	28 12	1400	1 2	102 14	225	1 4	18 12					271
77	Road Drain	11 36															1562 8
78 31	"	2	93 12	625	1 8	937 8	700	1	137 8	125	1 4	93 12				143 8	143 8
79	Road Drain	11 37															73 66
80	"	2	73 66														2831 11 10
81 32	"	2	22 8	123937	1 8	1839	10 1381	1	867 9	9915	1 4	82 10					1950
82 33	"			1000	1 4	1250		1200	1	700							2013 36
83 34	"			1078 12	1 4	1372	10 4	1249		10	640 9 2						2054 10
84 35	"			120 62	1 4	1400	14 10	12551		10	653 11 2						1947 148
85 36	"			1062 5	1 4	1328	2	11970		10	619 12 8						2172 8
86 37	"			1185	1 4	1481	4	13272		10	691 4						1345 11 7
87	"			843 12	1 4	1053	14 5	9443		10	491 13 2						229 28
88	"			125	1 4	156	4	1407		10	72 148						80 11 2
89	Irregular	11 38															152 1 4
90 38	"	3	378	625	1 4	78 2	700	10	36 74								101 15 4
91	"			4987	1 4	61 10	2 353	1 2	40 52							4896	4896
92	Report to Council																
			7176 8 10	11650 15 14			19252 14 10			1394 12			602 16			46304 10 5	863 82 10 3
																Sum of	4314 3 1
																Superintendent	1803
																Total Rd	92500

Gooty Range Office No. 1, 2
Camp Pantatacherro
29th October 1880
C.R.

P. W. Porter
Supt. Engineer
Gooty Range
A. B. B. B. B.
Supt. Engineer 3rd D.

116

Bellamy District

Constructing Road Amounts as Called for by
Impf. by russ. No. 2880 Dated 24 January/68

Quantities	Description of Work.	Rate	Amount	Amount of each part
	<u>1 Water Tunnel</u>			
1583 1/4	Cft Stone in Chumam @	25	222 10 1/2	
72	Soft Coping Concrete @	2	144	
17 1/2	Cords. Floring @	1	17 1/2	
350	Soft Concreting Sqr @	2	700	
10	Cooling Slabs @	2	20	
211	Cords. Reclamation @	3	633	
	- For two segments -			512 1/2
	<u>2 Water Tunnel</u>			
2176 3/8	Cft. Stone in Chumam @	25	544 12 1/2	
9 1/2	Soft Coping Concrete @	2	19	
9 1/2	Cords. Floring @	1	18 1/2	
588	Soft Concreting Sqr @	2	1176	
2	Outwater heads @	9	18	
58 1/2	Cords. Reclamation @	3	175 1/2	
20	Cooling Slabs @	2	40	
	- For four segments -			1266 1/2
	<u>4 Water Tunnel</u>			
3363 3/8	Cft. Stone in Chumam @	25	840 37 1/2	
136 1/2	Soft Coping Concrete @	2	273	
18 1/2	Cords. Floring @	1	18 1/2	
1062	Soft Concreting Sqr @	2	2124	
6	Outwater heads @	3	18	
40	Cooling Slabs @	2	80	
	- Carried over -			1044 1/2

2.9.1882/1882 A. 188

Quantity	Description of work	Rate	Amount	Amount of each part
95	8 cyp. Excavation	6 1/2	612 1/2	
	For three required	17 1/2	1632 1/2	
			1397 1/2	

Gorty Range Office No. 1,
 29 October 1880

W. P. M.
 Asst. Engineer
 Gorty Range

Spunk Road No. 11

136

ABSTRACT ESTIMATE

Bellary District

Continuing a tunnel over Irrigation Channel
 38th Mile. As called for by Supr. Pgr. No. 2880 of 24 January 1880

Quantities	Description of Work.	Rate	Amount	Amount of each part
138	Cft Stone in Churnam	@ 23	6196	
10	Covering Slabs	@ 1	10	
8 1/2	cyp. Excavation	@ 3	196	
207	Sqft Paving	@ 2	422	
27	Coping	@ 2	36	
	Total			8012

Gorty Range Office No. 1,
 29 October 1880

W. P. M.
 Asst. Engineer
 Gorty Range

A. W. S. S. S.
 Supr. Engineer

ABSTRACT ESTIMATE (No 5)

Bellary District

Verks

Bellary District
 Constructing Road ^{to} ~~be~~ ^{as} ~~called~~ ^{called} for by
 Supp. Engineer No 2880 Dated 24th January 1901

Quantities.	Description of Work	Rate	Amount	Amount of each part
240	6ft Stone in Chumam @	26	378	
7	Cyrs. Excavation @	4	28	
20	Right. covering Slabs @	8	10	164
				4
	In 20 feet of Body wall			50
	Costage for 1 foot			28
	Right Stone Sprow for each 1	"	"	"
	foot in length 1 Cubic Yard			
452	6ft Stone in Chumam @	26	1146	
27	Cyrs. Excavation @	3	51	
114	Right. Covering @	2	144	
2	Slabs to Walls @	12	18	
	In 120 Right. of Slope Complete			135
	Costage for 1 foot			12
	N.B. From the Costage, Rates as above obtained the Estimates for 27 (Road) damps of different length have been constructed as follows			
	Near Line 21 feet level Slope			
20	Right. Body wall @	28	50	
80	" " @	1.2	90	
21	" " @	1	21	161
	" " @			153
	In 3 lying			

Quantity	Description of work	Rate	Amount	Per cent
	<u>Road Dam 10ft level 30ft. Side Slope</u>			
10	Right Body wall	@ 28	25	
60	" Slopes	@ 12	67 8	
11	" Apron	@ 1	11	103 8
	- For 3 required			310 8
	<u>Road Dam 20ft level 60ft Side Slope</u>			
20	Right Body wall	@ 28	50	
120	" Slopes	@ 12	135	
21	" Apron	@ 1	21	206
	<u>Road Dam 10ft level 60ft Side Slope</u>			
40	Right Body wall	@ 28	100	
120	" Slopes	@ 12	135	
41	" Apron	@ 1	41	276
	- For 3 required			828
	<u>Road Dam 10ft level 10ft Side Slope</u>			
11	Right Body wall	@ 28	25	
81	" Slopes	@ 12	90	
11	" Apron	@ 1	11	126
	- For 4 required			504
	<u>Road Dam 15ft level 10ft Side Slope</u>			
16	Right Body wall	@ 28	37 8	
80	" Slopes	@ 12	90	
16	" Apron	@ 1	16	143 8
	- For 5 required			717 8
	<u>Road Dam 15ft level 60ft Side Slope</u>			
15	Right Body wall	@ 28	37 8	
120	" Slopes	@ 12	135	
16	" Apron	@ 1	16	188 8
	<u>Road Dam 30ft level 60ft Side Slope</u>			
30	Right Body wall	@ 28	76	
120	" Slopes	@ 12	135	
31	" Apron	@ 1	31	241

Quantity	Description of work	Unit	Amount	Value	Remarks
	<u>Road Dam 31 feet level 10 ft Side Slopes</u>			175	
31	19 ft Body wall	@ 28	75		
86	" " Slopes	@ 12	41		
31	" " Apron	@ 1	31	146	69
	<u>Road Dam 60 feet level 60 ft Side Slopes</u>				
60	19 ft Body wall	@ 28	150		
120	" " Slopes	@ 12	135		
60	" " Apron	@ 1	60	345	7
	<u>Road Dam 90 feet level 70 ft Side Slopes</u>				
90	14 ft Body wall	@ 28	225		
140	" " Slopes	@ 12	157.8		
90	" " Apron	@ 1	90	472.8	13
	<u>Road Dam 70 feet level 60 ft Side Slopes</u>				
70	14 ft Body wall	@ 28	175		
120	" " Slopes	@ 12	135		
70	" " Apron	@ 1	70	380	14
	<u>Road Dam 15 feet level 30 ft Side Slopes</u>				
15	19 ft Body wall	@ 28	37.8		
60	" " Slopes	@ 12	67.8		
16	" " Apron	@ 1	16	121	15

Groby Range Office Dec. 11 -

29 October 1880

Cat. 3

A. A. A. A.

Sup. Engineer S. E. B.

Worles

A. H. Hyman

Groby Range

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131

Bellary District

Work Constructing a Road from the Millage at
the 20th Mile to called for by Sup^r License #2889
dated 26 January 1888

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of
in
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1874/1875

Conf. 29th October 1860

A. M. S. - 1848
Prof. of English - 1848

2.940822/1650A.14

Summit Road No. 11 (Estimate No. 1)

218

ABSTRACT ESTIMATE.

Bellamy District.

Work

Constructing Masonry Steps to River
as called for by Super. Engineer No. 2880 dated 24th January 1868

Quantities	Description of Work.	Rate	Amount	Amount of each part
	Bellamy North Side			
100	Cybs. Rough Stone	@ 1	100	
88 1/2	Cybs. Stone in Channel	@ 2 1/2	220 1/2	
4	Coring Slabs	@ 8	32	
300	4 yds. of Slabs for side walls	@ 8	240	
20	Iron Clamps Complete	@ 2	40	
33 7/8	Cybs. Excavation	@ 3	101 1/4	
5 3/4	" Metallurgy (spreading)	@ 2	11 1/2	260 7 1/2
	Handies 5 per Cent			104 8 1/4
	Total			277 1/4
	Manitapan North Side			
97 1/2	Cybs. Stone in Channel	@ 2 1/2	243 1/2	
59 1/2	Cybs. Rough Stone	@ 1	59 1/2	
30	Cybs. Coring Slabs	@ 8	240	
60	Iron Clamps Complete	@ 2	120	
28 1/2	Cybs. Excavation	@ 3	85 1/2	
9 1/2	" Metallurgy (spreading)	@ 2	19	258 1/2
	Handies			125 1/4
	Total			260 1/4
	Manitapan South Side			
	Bellamy North Side			
	Total for both			277 1/4

227 1/4

Given Range Office No. 1, 29th October 1868
W. M. D. [Signature]
S. [Signature]
W. M. D. [Signature]
S. [Signature]

2.9.1869/1869A.14

Mr. L. 1869/1869

83

Public Works Department

No 23

Proceedings of the Madras Government
Interstate the 5th January 1869
Read the following

From the Super Engineer S.D. H. E. No 2811 dated 5th Nov 1867

With this letter the Super-
intending Engr of the S.D. H.
submits estimates of Rs 2,500
for forming, metalling and
gravelling about 25 miles of
Trunk Road No 12 between
Joladacey and the Pennar
river near Pen Hoblum in
the Bellary Dist, including
the cost of minor masonry
works, but making

1869

A. J. A.

no

no provision for a bridge
across the Pennair river,
as, in the opinion of the
superintending engineer,

such a structure is not
urgently needed, owing
to the river not being
in flood for any length
of time.

For the Govt. appropriation of
the estimate, but no
funds being at present
available for the work,
it must be deferred.

W.B.

To
The Supy Engr, 3rd Div
a Contn of the Accts
a Accts for
Recd 1/1/82

154354

Cue 4628

Govt. of 1868 Madras.

PUBLIC WORKS.

To the Superintending Engrs
3rd Division

&c, &c, &c.

Dated

Recd

Ln^y. 9

G O. 5th Jan'y 1869 No. 23.

No. 45-452

Trunk Road No 12 Estimates
Amounting to Rs 92500 for
forming, metalling and gravelling
a portion of Trunk road No 12 be-
tween Joladapuz & the Pennair
river near Pen Hoblum in the
Bellary Dist, approved.

Acct^h June 1868

Recd 1/1/69