M.R.O. 1—77,004—8-6-37.

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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 7519 Press Mis.

Dated 16-3- 18

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 16*th March* 1864.

No. 386. Read the following letter from Lieutenant-Colonel E. HEMERY, R. E, Superintending Engineer, 3rd Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Cuddapah, 26th February 1864, No. 287:—

SIR,

10 Plans.
6 Estimates.
4 Specifications.
2 Abstract Estimates.
1 Sketch Map.

1. With reference to paragraph 5 of my letter No. 176, dated 8th October 1863, I have the honor herewith to forward Plans and Estimates amounting in the aggregate to Rupees 21,034 for ramps, tunnels and small bridges still required on Trunk Road No. XI within the limits of the Cuddapah District, as follows:—

				RS.
Ramps on the bank of the Kalkadda river			... ...	2,346
Do.	do.	Mahal do.	... ...	3,220
Do.	do.	Piler do.	... ...	3,560
9 Tunnels of 1 vent, at Rupees 387 each.			... ...	3,483
5 Do.	2 do. at „ 567 „		... ...	2,835
1 Do.	3 do. at „ 820 „		... ...	820
1 Bridge of	2 arches of	16' feet span.	... ...	2,200
1 Do.	1 do.	16' feet do.	... ...	1,650
1 Do.	1 do.	12' feet do.	... ...	920
			Total ...	21,034

2. The expenditure on masonry works on this road up to the end of April next, from the Estimate amounting to Rupees 94,884, sanctioned by Government in Order No. 1,628, dated 28th August 1857, will probably amount to Rupees 65,164; this sum added to Rupees 21,034, the aggregate amount of the Estimates now forwarded, gives a total of Rupees 86,198, which is less than the sanctioned amount by Rupees 8,686.

* No. 1,503. 11th June 1863.
„ 1,781, 7th July „

3. This result has been obtained by substituting ramps for costly bridges over the rivers at Mahal, Kalkadda and Piler, the first of which Government have twice* declined to sanction.

4. Similar ramps constructed on the banks of the Mandavir river at Rayachoti on this road, have proved a very great convenience to traffic.

5. As the sum of Rupees 10,000 has been entered in the Budget of 1864-65 for expenditure in the Cuddapah District, out of the Estimate amounting to Rupees 94,884 above referred to, I have the honor to solicit the approval of Government to the Plans and Estimates now submitted for sanction.

No. 387. ORDER THEREON, 16th March 1864, No. 799.

1. The Governor in Council sanctions the Estimates amounting to Rupees 21,034 for ramps, tunnels and small bridges still required on Trunk Road No. 11, within the limits of the Cuddapah District.

G. O. No. 1,628, dated 24th August 1857.

2. The amount originally sanctioned for the masonry works on this road was Rupees 94,884. The Superintending Engineer, however, states that by carrying out the modifications proposed in the foregoing letter the estimated cost will be reduced to Rupees 86,198.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer, 3rd Division.
„ Accountant General.
„ Controller and Auditor of Public Works Accounts.

Exd. S. T. Augustin.

Communication

Abstract Estimate
District Secunderabad

Work Constructing Bunkers or Model Plan below the 22d Mile on Trunk Road No XI

Jan 1864

Quantity	Description of Work	Rate	Amount	Total
	Ramps			
	Earthwork			
2589	Cubic yards Earthwork			
2312 11/27	do do Hard Rocky			
			2 - 323 10 -	
			3 - 442 15 1	
285 1/2	do **Masonry**			
			8 - 999 4 -	
	Sky Scrapers			
111 1/3	do **Earthwork**			
11.6	do **Masonry**		2 - 17 11 8	
			4 - - 464 - -	
	Road			
550	Rs. 3 per Metalling, Granelling and Ramming			
	Blasting & Removing Rock (C)		12 - 412 8 -	
	Sundries and Superintendence		250 - -	2909 15 9
				290 - 3 -
				2200 - -
				0 - -

Executive Engrs Office
Secunderabad
24th September 1863

A. Williams Capt
Executive Engr

A. Smith
Asst

Deasy
Lieut Col R.E. Secunderabad
Chief Engineer 3d Division

PW. 1049/64

Abstract & Estimate for
Ramps on the Bamboo &
Mahad River

Communication

New Work

Abstract & Estimate
District Suvarnadrug
Work Constructing Pucheer or Pedair Bridge below
the 65th Mile on Trunk Road No. XI

57

Description of Work | Rate | Amount | Total

Ramps
Earthwork
8116/2 Cubic yards Earthwork ——— @ 3 " 1521 13 6
Masonry
291 2/3 ——— do ——— Masonry ——— @ 3 8 " 1020 13 4
Road
520 Running yards Metalling Grravelling and Ramming } " 12 " 390 " -
Blasting & Removing Rock ——— 300 " " 3232 11
Sundries and Superintendance ——— 323 5
3555 0

Executive Engrs. office
Poonamallee
24th September 1863

Approved
Executive Engr
Suvarnadrug

Lieut. Colo. R.E.
Chief Engineer 3d Division

(No. 1069/64.

Abstract & Estimate for Ramps on the Pinnacles on Pedoin River.

Abstract

Quantities	Description of Works	Rate	Amount	Total
	Constructing a Bridge of 1 Arch 16 feet Span across the Nerra Kanamo Channa Vunda below the 6¼ Mile on Trunk Road No. 4.			
	Masonry Work			
194 8/27	Cubic Yds. of Masonry Stone in Channam	4 " "	777 3 "	
15	Do. of Roughstone flooring	" 8 "	9 8 "	
25	Do. of Brickwork Brickmen Channam	5 " "	125 " "	
50	Sqre Yards of Pointing Brickwork	" 4 "	12 8 "	
132 2/3	Do. Do. Stone	" 2 "	16 9 4	
2089½	Cubic Yds. of Earthwork	" 1 6	195 14 3	
	Centring	" " "	100 " "	
4	Guard Stones	1 " "	4 " "	
	Road			
350	Running Yards Metalling, Gravelling and Ramming	" 12 "	262 8 "	
				1501 2 7
	Sundries and Superintendance			148 13 5
	Total Rupees			1650 " "

Superint. Engineers Office
Cuddapah
26th February 1864

Lieut. Col. R.E.
Superint. Engineer
3d Division

Abstract Estimate of small bridges, tunnels and ramps still required on Trunk Road No. 11 in the Buddapah District.

9 Tunnels of 1 vent @ Rupees 387	3,483
5 do of 2 do @ 567	2,835
1 do of 3 do @ 820	820
1 Bridge of 2 arches of 16 feet span	2,200
1 do 1 do 16 feet do	1,650
1 do 1 do 12 feet do	920
Ramps on the bank of the Kalkadda river	2,346
do do Mahal do	3,220
do do Pillu do	3,500
Total	21,034

Buddapah
Supdg. Engr. Rlys
26 February 1864.

Lieut. Col. Rlys.
Supdg. Engineer
3 Division.

Abstract Estimate of small bridges, tunnels and ramps still required on Trunk Road No. 11 in the Buddapah District.

Plan

Tunnels

Ramps

P. Map 1864

C.R. 1049/64

Abstract Estimate for
Small Bridges, Culverts and
Sample Walls required on
Trunk Road No 1 in the
Cuddapah District 10th Feby 1864

Abstract

Quantities	Description of Work	Rate	Amount	Total
	No 1 Bridge of 2 Arches of 15 feet span across the Pedda Nimmacanama Nullah below the 64th Mile on Trunk Road No 1.			
	Masonry			
274 7/8	Cgde of Masonry in Lime in Cumam	4 " "	1099	1 9
30	do of Roughstone flooring	" 8 "	15	" "
49 1/2	do Archwork in Brick in Cumam	5 " "	247	8 "
213 3/4	Sqyards Pointing	" 2 "	26	10 10
100	Do Do Arch	" 4 "	25	" "
1228 13/36	Cgde of Earthwork	" 1 6	115	2 6
	Centring	" " "	200	" "
	Road			
4	Guard Stones	1 " "	4	
350	Running Yards Metalling, Travelling and Ramming	" 12 "	262	8 "
			1394	15 1
	Sundries and Superintendance		205	" 11
	Total Estimate Rupees		2200	" "

Supdt Engineers Office
Cuddapah
25th February 1864

Lieut Col RE
Superintg Engineer
3d Division

Abstract

From

The Superintending Engineer

2nd Division

P.W. 1019/64.

Abstract of a Bridge
of 2 Arches of 16 feet span
below the 64th Mile on
Trunk Road No XI
Amounting to Rs 2200/-

P.W. 1049/64

Abstract Estimate for Ramps
on the Kalkaroo Rivers

Abstract Estimate
District Cuddalapah

Quantities	Description of Works	Rate	Amount	Total
	Constructing a small Bridge of 12 feet span across the Stream near the 7/8 mile on Trunk Road No. XI			
	Masonry Works			
119 4/24	Cubic Yards of Masonry	4	476 9 6	
11	Do. Rough stone flooring	.. 8 ..	5 8 ..	
	Arch			
19 5/8	Cyds. of Brick in Chunam	5	99 2 8	
44 4/9	Sq.re Yards Pointing Arch	.. 4 ..	11 1 9	
94	Do. Do. Stone	.. 2 ..	11 12 ..	
	Earthworks			
729 4/9	Cyds. of Earthwork	.. 1 6	68 6 2	
	Centring	.. .. ..	50	
4	Guard stones	1	4	
	Road			
150	Running Yards Metalling, Gravelling & Ramming	.. 12 ..	112 8 ..	839 .. ..
	Sundries and Superintendence			80 15 ..
	Total Estimate Rupees			920 .. ..

Superintendents Engineers Office
Cuddalapah
26th February 1864

Deeany
Lieut.-Col. R.E.
Superintendent Engineer
3d Division

Abstract Estimate of Tunnels still required on Trunk Road No. XI in the Cuddalapah District.

Quantity	Description of Charges	Rate	Amount	Total
	A Tunnel of 1 Vent			
1441	C.ft. Stone in mortar in foundation and superstructure	"	2 "	1802
58¼	Sqrs. Pointing with Chunam	"	2 "	7 4 6
25⅓	Cys. of Earthwork Excavating foundation	"	2 "	3 4 8
638⅓	Do. Do. Filling and Approaches	"	1 6	59 13 6
336	Sqrs. Turfing Approaches	"	1 "	21 " "
91⅓	Rt. yards Metalling & Gravelling Roadway	"	12 "	68 12 "
14	Covering Flags	"	8 "	14 " "
4	Guard Stones		1 " "	4 " "
	Sundries and Superintendence at 10 per Ct. in round Numbers	"	" "	35 11 4
			387 " "	
	Vide above particulars 8 Tunnels of 1 Vent at 387 " "		3096 " "	3483 " "
	A Tunnel of 2 Vents			
2010	C.ft. Stone in mortar in foundations & superstructure	"	2 "	2514 "
90¼	Sqrs. Pointing with Chunam	"	2 "	11 4 6
35⅓	Cys. of Earthwork Excavating foundation	"	2 "	4 6 8
981	Do. Do. Filling and Approaches	"	1 6	91 15 6
524	Sqrs. Turfing Approaches	"	1 "	32 12
141⅔	Rt. Metalling & Gravelling Roadway	"	12 "	106 4 "
28	Covering Flags	"	8 "	14 " "
4	Guard stones		1 " "	4 " "
	Sundries and Superintendence at 10 per Cent in round Numbers	"	" "	57 1 4
			567 " "	
	Vide above particulars 4 Tunnels of 2 Vent 567 " "		2268 " "	2835 " "
	Carried forward			6318 " "

From
Lieut. Mackenzie Superintendent
3rd Division

C.W. 1019/61

Abstract
Estimate of a Tunnel
Bridge & Culvert
near 82 70 Miles on
Trunk Road No. XI
Amounting to Rs. 920 —

Quantity	Description of Charges	Rate	Amount	Total
	Brought forward			6318 " "
	A Tunnel of 3 Tents			
68 13/18	Cey^{ds} of Masonry work		3 8 "	2408 5
97 7/9	Sqrey^{ds} Painting walls		" 4 "	247 1
10 1/2	Cey^{ds} of Roughstone work		" 3 "	1 15 6
1191 5/9	Cey^{ds} of Earthwork		" 1 6	111 11 4
350	Running Yards of Metalling, Gravelling and Ramming Road way		" 12 "	262 8 "
63	Covering stones		1 8 "	94 8 "
4	Guard stones		1 " "	4 " "
	Sundries and Superintendence		" " "	80 5 8
				820 "
	Grand Total of 15 Tunnels Rs			7138 " "

Superintending Engr's Office
Buddalpah
26th February 1864.

Examined

Lieut Col RE
Superintending Engineer 3d Div

No 287.

Cuddapah
Depy: Engrs Office
26th February 1864.

From

Lieut: Col. C. Kinney R.E.
Depy: Engineer
3rd Division

To

The Secretary to Government
P.W.D.

Sir,

With reference to Para 5 of my letter No 176 dated 8th October 1863, I have the honor herewith to forward plans and Estimates amounting in the aggregate to Rupees 21034 for Ramps, tunnels and small bridges & tiles required on Punta Road No 11 within the limits of the Cuddapah District, as follows:

Ramps on the banks of the	Kalvadda	River			2.340
——do——	——do——	Mahati	——do——		3.220
——do——	——do——	Pilér	——do——		3.560
9 Tunnels of 1 Span at Rupees		387	each	——	3.483
5 ——do——	2 do	at . 567	.	——	2.835
1 ——do——	3 do	at . 820	.	——	820
1 Bridge of 2 arches of		16'	Span	——	2.200
1 ——do——	1 do	——16'	do	——	1.650
1 ——do——	1 do	——12'	do	——	920
			Total Rupees.		21.034

2. The Expenditure on Masonry works on this Road up to the end of April next, from the Estimate amounting to Rupees 64.884 sanctioned by Government in Order No 1628 dated 28th August 1857, will probably amount to Rupees 65.164; this sum added to the Rs 21.034, the aggregate amount of the Estimates now forwarded gives a total of Rs 86.198, which is 6/8 less than the Sanctioned amount by Rs 8686.

3. This result has been obtained by substituting Ramps for costly bridges over the Rivers at Mahati Kalvadda and Pilér, the first of which Government have since declined to sanction.

I have &c

(Signed) P. Hall Kinney

Lieut: Col: Engrs
Executive Engineer

Alphabetical Estimate required for Punta Road No 11 in the Cuddapah District

Rupees 21034-0-0

No 799

The Governor in Council Sanctions the Estimates amounting to Rupees 21034 for Ramps, tunnels and small bridges still required on Trunk Road No 11 within the limits of the Cuddapah District.—

2 The amount oreginally sanctioned for the masonry works on this road was Rs 94,884 - The Superintending Engineer, however, states that by carrying out the modifications proposed in the foregoing letter the estimated cost will be reduced to Rupees 86,198.—

G.O. No 1628
of 24 Augt 1857.

To The Supt Engr 3 Cs Dr with 14 Estt, 8 Plans & 4 Specifications
" Accountt Genl
" Controller & Audr Genl
P.W. Accounts

Chief Secrets Office
16th March 1865

Dept 17th March

No 88

4. Similar Ramps constructed on the Lands of the Maharaja Rao of Vizianagram Rao of Pogiadu to on the Road, have proved a very great Convenience to Traffic.

5. As the Amount Rs 10000 has been intended for Repairs of 1864/65 for Superintendence on the Road Establishment, and the Estimate amounting to Rs 1894 8 8 4 alone Expended to Plans & Estimates for the approved of Government & Plans and Estimates now submitted for Sanctions.

Have &c

Observer

Lt Col. R.E.

Supg. Engineer
3 Circle

1864 Dated
Mond. Bo. of Fort. 24 for March
No 1049

The Supdg Engineer
3e Division

To

The Secy to Government
P.W.D.

No 287

Dated 26
Recd 8 February 1864.

Encloses. 23.

Shows plan and Estimates
Amounting to Rs 21034 for
Camps tunnels and Bridges on
Trunk road Sta 1 and &
Requests that the same be
Sanctioned.

No. 386. 387

No 799 - 16th March

With an Order.

C. 10th March 1864 - Rs 11th