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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.	2571	Press Mis.
Dated	17-12-1860	

Not to be folded or roughly handled

No. 227. Read the following letter from Lieutenant-Colonel W. H. HORSLEY, Chief Engineer, to J. D. SIM, Esq., Acting Secretary to Government, dated Chepauk, 30th November 1860, 7,545 :—

SIR,

1. On the 12th July 1859, the Acting District Engineer, Kurnool, addressed me in a letter

1 Letter from District Engineer, Kurnool, No. 378, dated 12th July 1859.
1 Do do do No. 1,100, dated 13th December 1859, with 6 enclosures.
1 Do do do No. 692, dated 13th October 1860.
1 Abstract estimate.
1 Traffic Statement.

No. 378 (herewith forwarded), enquiring whether it was considered desirable to have an Estimate prepared for the road, from Nandiál through Banaganpilly to Peápullu, a distance of 55 miles, and he stated the advantages to be obtained by its construction to be as follow :—

1st. To render the Civil and Sessions Court at Nandiál more accessible to the inhabitants of the south portion of the Dhone Tálug, and of nearly the whole of the large Tálug of Panchapálam.

2ndly. As improving the direct route for troops proceeding from Bangalore and Bellary to the Northern Division, and shortening the distance hitherto travelled by troops proceeding thither by 45 and 40 miles respectively.

3rdly. As a feeder to the Railway at Gooty, and as a connecting link between the Rail and the Canal to be constructed by the Irrigation Company through the Kundár Valley.

2. Observing, by Major Scott's Road Book (pages 48 and 49), such expressions as the following, "Ghát extremely rugged on the side of a hill-descent difficult," "Road stony and confined by jungle," entered in the column of remarks against the road in question, and deeming it, for the reasons adduced by the Acting District Engineer, to be a line of great importance to the District, I directed an Estimate to be prepared for the same, which was submitted for Rupees 1,09,200 (corrected in this office to Rupees 1,08,700) by Lieutenant Beckley in a letter (which is enclosed) No. 1,100, dated 13th December 1859, but as the same appeared not to have been prepared after personal examination of the route, and as the operations of the Irrigation Company were at that time more fully developed, I requested that the Estimate might be re-submitted by Lieutenant Beckley with a report, after he had himself inspected the whole line.

3. The result of that inspection is contained in the accompanying letter from the Acting District Engineer. The facilities of road making were found to be so great as to lead to the recommendation that a reduction should be made in the charges for earthwork, and in a consequent reduction of the Estimate from Rupees 1,08,700 to Rupees 1,01,700. Moreover, however desirable it may be eventually to build the bridges and tunnels along the whole line of road, for the present they may be deferred.

4. The line selected by Mr. Assistant Supervisor Conran was mainly approved of by Lieutenant Beckley; in one particular place the Nawab of Banaganpilly requested that the road should not go through his plantation, and as the detour involved only 100 yards increased distance, the request was, of course, complied with. A sketch of the country through which the road is to pass, together with a statement of the present traffic, which it will be seen on account of the difficulties of the track is at present very trifling, accompanies the Estimate.

5. As an argument for the early completion of all roads that are to be made in his District, the Acting District Engineer brings forward one to the effect that when irrigation is greatly extended the cost of road making will be much enhanced by the cost of bridging the channels, whereas should the roads be first formed the onus of that work will fall upon the Irrigation Company. The price of land and labor, also, will probably rise considerably as irrigation increases.

Canis Aoi

42710

*Proceedings of the Madras Government, Public Works Department,
17th December 1860.*

6. Government will observe by the copy of the Honorable Mr. Arbuthnot's letter, which is attached to the Estimate, that he considers the line will prove one of the greatest utility, being the only available pass for many miles through the Yerra Mulla hills and if made will be the means of opening up direct communication between a large tract of country and the East Coast by the Nundy Cannama Pass.

7. As the Estimate Rupees 1,01,700 will be required to make the line complete, the whole sum has been entered accordingly in No. 1 Budget with a proposed expenditure of Rupees 20,000 in 1861-62, which is all the Acting District Engineer can well spend in one year, and the confirmation of Government for the entry in question is solicited.

No. 228. ORDER THEREON, 17th December 1860, No. 2,591.

The Estimate submitted with this letter amounting to Rupees (1,01,700) one lac, one thousand and seven hundred is approved for entry in the Budget for 1861-62.

(Signed) J. D. SIM,
Acting Secretary to Government.

PUBLIC (ROADS)

ABSTRACT of Estimate No. of 186

ROAD No.

DISTRICT *Eluru*

WORK *Constructing a Road and Bridges 1/2 on the proposed line of Road from
Kandam to Pappilly Sub Panagapilly*

Quantities.	Description of Work.	Rate.		Amount.	Amount of each part.
		Rs.	A. P.	Rupees.	Rupees.
136709 5/16	Cy ² Earth works ——— Cy ²	"	1 "	8544	
104086 1/2	do Gravel ——— do	"	3 "	19516	
2666	Square yards of Clearing jungle do	"	4 "	167	
12015	Cubic yards Removing Rocks do	"	5 "	3755	
12400	do Removing Boulders do	"	3 "	2325	
	Sundry Charges a ——— Rent	10	"	3503	
					37810
A					
<i>Bridge of 5 Arches of 26 feet span</i>					
18587	Cy ² Masonry work in Chumam 1/2	"	1 1/4	1549	
8452 1/2	do Archwork in Chumam — do	"	3 8	1849	
492	Sq ft Cordon work in Chumam — Sq ft	"	1 "	123	
180	do Centring ——— do	2	8 "	450	
138	Square Pointing the whole Bridge square	1	"	138	
53 1/2	Cy ² Excavating the foundation — 1/2 Cy ²	"	2 "	7	
<i>Approaches</i>					
2100	Cy ² Earth works ——— 1/2 Cy ²	"	1 6	197	
	Baling ———	"	"	150	
	Sundry Charges ——— Rent	10	"	437	
					4900
B					
<i>Bridge of 1 Arch of 50 ft span</i>					
3439 1/4	Cy ² Masonry work in Chumam 1/2	"	1 1/4	2866	
3622 1/2	do Archwork in Chumam — do	"	3 6	793	
	Carried over ———				42710

Quantities.	Description of Work.	Rate.		Amount.	Amount of each part.
		Rs.	A. P.	Rupees.	Rupees.
	Brought Over				142710
272	Sqft. Cordon work in Chumam Sqft.	"	1 "	68	
50	do Centering ————— do	2	8 "	125	
74	Squares Pointing the whole Bridge sq.	1	" "	74	
971 1/2	Cy. Excavating foundation — Cy.	"	2 "	121	
50	do Flooring the archway — do	"	8 "	25	
	Approaches				
528 7/8	do Earth work ————— Cy.	"	1 6	196	
	Baling —————	"	" "	100	
	Sundry Charges —————			162	
	C				5120
	Bridge of 1 arch of 12 feet span				
5720 1/8	Cy. Masonry work in Chumam Cy.	"	1 1/4	177	
588	Cy. Arch work in Chumam — do	"	3 6	129	
94	Sqft. Cordon work in Chumam Sqft.	"	1 "	23	
12	do of Centering ————— do	2	8 "	30	
16 1/2	Squares Pointing the whole Bridge — square	1	" "	16	
276 1/4	Cy. Excavating foundation Cy.	"	2 "	35	
16	do Flooring the archway — do	"	8 "	8	
	Approaches				
367 1/4	Cy. Earth work ————— Cy.	"	1 6	34	
	Baling —————	"	" "	50	
	Sundry Charges —————			78	
					880
	Cumulative Over				18720

Quantities.	Description of work	Rate		Amount	Amount of each part
	Brought Over				48720
	D				
	Bridge of 3 arches of 36 feet span				
26035	Cy. Masonry work in Chumam — Cy.	"	1 1/4	2170	
4630 1/2	do Arch work in Chumam — do	"	3 6	1013	
352	Sqft. Cordon work in Chumam — Sqft.	"	1 "	88	
108	do Centering ————— do	2	8 "	270	
103 1/4	Squares Pointing to the whole Bridge square	1	" "	103	
937	Cy. Excavating foundation — Cy.	"	2 "	117	
108	do Flooring the archway — do	"	8 "	54	
	Approaches				
1122 3/4	Cy. Earth work ————— Cy.	"	1 6	105	
	Baling —————	"	" "	100	
	Sundry Charges —————	"	" "	100	
					14120
	E and N				
	Bridge of 1 arch of 12 feet span				
5299 1/2	Cy. Masonry work in Chumam — Cy.	"	1 1/4	1442	
588	do Arch work in Chumam — do	"	3 6	129	
88	Sqft. Cordon work in Chumam — Sqft.	"	1 "	22	
12	do of Centering ————— do	2	8 "	30	
16	Squares Pointing the whole Bridge — sq.	1	" "	16	
276 1/4	Cy. Excavating foundation — Cy.	"	2 "	35	
16	do Flooring the archway — do	"	8 "	8	
	Approaches				
313 3/4	Cy. Earth work ————— Cy.	"	1 6	29	
	Baling —————	"	" "	50	
	Cumulative Over			761	53140

Quantities	Description of work	Rate	Amount	Amount of each Part
	Brought Over		761	53140
	Sundry Charges at about 10 Cent	10	79	
			840	
	Bridge <i>N</i> same as <i>E</i>		840	
				1680
P				
	Bridge of 1 arch of 36 ft. Span.			
23885	Cft. Masonry work in Chumans — Cft.	" 1 4	1990	
1617	do Arch work in Chumans — do	" 3 6	354	
192	Pgft. Cordon work in Chumans — Pgft.	" 4 "	18	
36	do Centering — do	2 8	90	
111 1/2	Squares Pointing to the whole Bridge — sqs	1 "	111	
681 3/4	Cy. Excavating foundation — Cy.	" 2 "	85	
36	do Flooring the archway — do	" 8 "	18	
	Approaches			
1636 1/2	Cy. Earth work — Cy.	" 1 6	153	
	Rating —	" "	100	
	Sundries at about 10 Cent	10	288	
				3170
G				
	Bridge of 2 arches of 20 feet Span.			
11313 1/2	Cft. Masonry work in Chumans — Cft.	" 1 4	943	
1911	do Arch work in Chumans — do	" 3 6	418	
168	Pgft. Cordon work in Chumans — Pgft.	" 4 "	42	
40	do Centering — do	2 8	100	
43 3/8	Squares Pointing the whole Bridge — sqs	1 "	44	
1470 1/4	Cy. Excavating foundation — Cy.	" 2 "	59	
40	do Flooring the archway — do	" 8 "	20	
	Brought Over		1626	57990

Quantities	Description of work	Rate	Amount	Amount of each Part
	Brought Over		1626	57990
	Approaches			
1119 8 1/2	Cy. Earth work — Cy.	" 1 6	110	
	Rating —	" "	100	
	Sundry Charges at about 10 Cent	10	184	
				2050
H				
	Bridge of 1 arch of 36 feet span.			
2115 5/8	Cft. Masonry work in Chumans — Cft.	" 1 4	2038	
1514 3/2	do Arch work in Chumans — do	" 3 6	338	
204	Pgft. Cordon work in Chumans — Pgft.	" 4 "	51	
36	do Centering — do	2 8	90	
62	Squares Pointing the whole Bridge — sqs	1 "	62	
566 3/4	Cy. Excavating foundation — Cy.	" 2 "	71	
36	do Flooring the archway — do	" 8 "	18	
	Approaches			
1176 1/4	Cy. Earth work — Cy.	" 1 6	110	
	Rating —	" "	100	
	Sundry Charges at about 10 Cent	10	292	
				3170
I				
	Bridge of 1 arch of 36 feet span.			
13055 1/2	Cft. Masonry in Chumans — Cft.	" 1 4	1088	
1514 3/2	Cft. Arch work in Chumans — do	" 3 6	337	
172	Pgft. Cordon work in Chumans — Pgft.	" 4 "	43	
36	do Centering — do	2 8	90	
417 1/8	Squares Pointing the whole Bridge — sqs	1 "	42	
	Brought Over		1600	63210

Quantities	Description of work	Rate	Amount	Amount of each part
	Brought Over		1600	63210
47 1/4	Cy ³ Excavating foundation — Cy ³	" 2 "	59	
36	do Flooring the archway — do	" 8 "	18	
	approaches			
1403 3/4	Cy ³ Earth work — Cy ³	" 1 6	132	
	Baling —	" "	100	
	Sundry Charges —	" "	191	
				2100
J				
<u>Bridge of 1 arch of 20 feet span</u>				
7719 1/4	Cy ³ Masonry in Chumam — Cy ³	" 1 1/4	643	
992 1/4	do Arch work in Chumam — do	" 3 6	217	
116	Pgts ² Cordon work in Chumam — Pgts ²	" 1 "	29	
20	do Centering — do	" 2 8 "	50	
28 5/8	Squares Pointing the whole Bridge — Sgs ²	" 1 "	29	
341 1/4	Cy ³ Excavating foundation — Cy ³	" 2 "	143	
20	do Flooring the archway — do	" 8 "	10	
	Approaches			
1110	Cy ³ Earth work — Cy ³	" 1 6	104	
	Baling —	" "	100	
	Sundry Charges at about 1/2 Cent	" 10 "	125	
				1350
K				
<u>Bridge of 1 arch of 12 ft. span</u>				
4814 1/4	Cy ³ Masonry in Chumam — Cy ³	" 1 1/4	1401	
588	do Arch work in Chumam — do	" 3 6	129	
84	Pgts ² Cordon work in Chumam — Pgts ²	" 4 "	21	
	Carried Over		551	66660

Quantities	Description of work	Rate	Amount	Amount of each part
	Brought Over		551	66660
12	Pgts ² of Centering — Pgts ²	" 2 8 "	30	
15 3/4	Sgs ² Pointing the whole Bridge — Sgs ²	" 1 "	16	
267 1/4	Cy ³ Excavating foundation — Cy ³	" 2 "	33	
12	do Flooring the archway — do	" 8 "	6	
	Approaches			
1262 1/4	Cy ³ of Earth work — Cy ³	" 1 6	118	
	Baling —	" "	50	
	Sundry Charges —	" "	76	
				880
L				
<u>Bridge of 1 arch of 50 feet span</u>				
37614 1/4	Cy ³ of Masonry in Chumam — Cy ³	" 1 1/4	3135	
3622 1/4	do Arch work in Chumam — do	" 3 6	792	
272	Pgts ² Cordon work in Chumam — Pgts ²	" 1 "	68	
50	do — of Centering — do	" 2 8 "	125	
87 7/8	Squares Pointing the whole Bridge — Sgs ²	" 1 "	88	
949 3/4	Cy ³ Excavating foundation — Cy ³	" 2 "	119	
50	do Flooring the archway — do	" 8 "	25	
	Approaches			
7430 3/4	Cy ³ of Earth — Cy ³	" 1 6	697	
	Baling —	" "	50	
	Sundry Charges —	" "	511	
				5610
M				
<u>Bridge of 1 arch of 36 ft. span</u>				
16256	Cy ³ Masonry in Chumam — Cy ³	" 1 1/4	1355	
	Carried Over		1355	73150

Quantities	Description of work	Rate	Amount	Amount of each part
	Brought Over		1355	73150
151 3/4	Cft. Arch works in Chumam	Cft. " 3 6	338	
188	Pgft. of Cordon works in Chumam	Pgft. " 4 "	47	
36	do of Centering	do 2 8 "	90	
51 1/2	Squares Pointing the whole Bridge	Sq. 1 " "	51	
511 1/2	Cy. Excavating foundation	Cy. " 2 "	64	
36	do Flooring the archway	do " 8 "	18	
	Approaches			
2380 1/2	Cy. of Earth	Cy. " 1 6	223	
	Baling	" " "	100	
	Sundry Charges	" " "	23 1/2	
			2520	
	O			
	Bridge of 3 arches of 20 ft. span			
17840	Cft. of Masonry in Chumam	Cft. " 1 4	1487	
2756 1/2	do Arch works in Chumam	do " 3 6	603	
222	Pgft. of Cordon works	Pgft. " 4 "	56	
60	do of Centering	do 2 8 "	150	
58 7/8	Squares Pointing the whole Bridge	Sq. 1 " "	58	
2561 1/2	Cy. Excavating foundation	Cy. " 2 "	320	
60	do Flooring the archway	do " 8 "	30	
	Approaches			
800 1/2	Cy. of Earth	Cy. " 1 6	75	
	Baling	" " "	200	
	Sundry Charges	" " "	29 1/2	
			3270	
	Carried Over		78940	

Quantities	Description of work	Rate	Amount	Amount of each part
	Brought Over			78940
	P			
	Bridge of 4 arches of 20 ft. span			
20681	Cft. of Masonry in Chumam	Cft. " 1 4	1723	
367 1/2	do Arch works in Chumam	do " 3 6	804	
268	Pgft. Cordon works in Chumam	Pgft. " 4 "	67	
80	do of Centering	do 2 8 "	200	
72	Squares Pointing the whole Bridge	Sq. 1 " "	72	
3706	Cy. Excavating foundation	Cy. " 2 "	463	
80	do Flooring the archway	do " 8 "	40	
	Approaches			
764	Cy. of Earth	Cy. " 1 6	72	
	Baling	" " "	200	
	Sundry Charges	" " "	369	
			4010	
	Q			
	1 Bridge of 4 arches of 20 ft. span			
15085	Cubft. of Masonry in Chumam	Cft. " 1 4	1257	
367 1/2	do Arch works in Chumam	do " 3 6	804	
260	Pgft. of Cordon works	Pgft. " 4 "	65	
80	do of Centering	do 2 8 "	200	
65 1/2	Squares Pointing the whole Bridge	Sq. 1 " "	66	
2519	Cy. Excavating foundation	Cy. " 2 "	315	
80	do Flooring the archway	do " 8 "	40	
	Approaches			
1498 1/2	Cy. of Earth	Cy. " 1 6	140	
	Baling	" " "	200	
	Sundry Charges	" " "	313	
			3400	
	Carried Over		86350	

Quantities	Description of work	Rate	Amount	Amount of each part
	<u>Brought Over</u>			86350
	R <u>Tunnels of 1 Vent of 6 ft. Span</u>			
	No. 1-2-5-7-10-11-12-14-15-17-18			
	20-21-25-28-29-30-33-			
	34-37-38-39-44-46-47-48			
	49-50-54-55-56-57-62-63-64			
	65-68-			
1169 1/4	Cu ^{ft} of Masonry in Churnam — C ^{ft}	" 1 4	122	
160	do Arch work in Churnam — do	" 3 6	35	
	Centering —	" " "	5	
7 1/8	Squares Pointing the whole Tunnel	1 " "	7	
24 1/2	Cy ² Excavating foundation — Cy ²	" 2 "	3	
	Sundry Charges —		18	
	<u>Total for Tunnel</u>		190	
	<u>D: for 37 D:</u>			7030
	S <u>Tunnels of 3 vents each 3 ft. span</u>			
	No. 349-			
2698 1/2	Cu ^{ft} of Masonry in Churnam — C ^{ft}	" 1 4	225	
360	do Arch work in Churnam — do	" 3 6	79	
	Centering —	" " "	15	
14 1/2	Squares Pointing the whole Tunnel	1 " "	14	
43 3/8	Cy ² Excavating foundation — Cy ²	" 2 "	5	
	<u>Carried Over</u>		338	93380

Quantities	Description of work	Rate	Amount	Amount of each part
	<u>Brought Over</u>		338	93380
	Sundry Charges —	" " "	32	
	<u>Total for one Tunnel</u>		370	
	<u>D: two D:</u>			740
	T <u>Tunnel of 1 Vent 3 feet span</u>			
	No. 4, 6, 8, 13, 19, 22, 23, 24, 26,			
	27, 31, 32, 35, 45 & 67.			
1151 1/4	Cu ^{ft} of Masonry in Churnam — C ^{ft}	" 1 1/2	96	
110	do Arch work in Churnam — do	" 3 6	24	
	Centering —	" " "	5	
6 5/8	Squares Pointing the whole Bridge	1 " "	7	
19 1/2	Cy ² Excavating foundation — Cy ²	" 2 "	2	
	Sundry Charges —		16	
	<u>Total for One Tunnel</u>		150	
	<u>D: for 15 D:</u>			2250
	U <u>Tunnel of 1 Vent 9 ft. span</u>			
	No. 16, 36, 40, 41, 42, 43, 51, 52 53			
	58-60, 61, and 66,			
2408 7/8	Cu ^{ft} of Masonry in Churnam — C ^{ft}	" 1 4	201	
220	do Arch work in Churnam — do	" 3 6	48	
	Centering —	" " "	5	
10 1/2	Squares Pointing the whole tunnel	1 " "	10	
36 1/2	Cy ² Excavating foundation — Cy ²	" 2 "	5	
	<u>Carried Over</u>		269	96370

Quantities	Description of work	Rate	Amount	Amount of sub-fact
	Brought Over		269	96370
	Sundry Charges	" " "	21	
	Total for One Tunnel		290	
	Do for 13 - Do			3770
V				
	Tunnel of 2 Vents of 6 ft. Apiece			
	No. 59 and 69.			
233 7/8	Cy ³ of Masonry in Chumam	Cy ³ " 1 1/2	194	
11 1/8	Square Pointing the whole tunnel	Sq. " 1 " "	12	
38	Cy ³ Excavating foundation	Cy ³ " 2 " "	5	
	Centering	" " "	10	
	Sundry Charges	" " "	29	
	For One Tunnel		250	
	Do 2 - Do			500
W				
	Road Dam 20 yards I & X			
34 1/2	Cy ³ Masonry in Chumam	Cy ³ " 2 1/2 " "	78	
20	do of Rough Stone Apron	" " 1 " "	5	
3 1/2	do Excavating foundation	" " 1 " "	2	
	Sundry Charges	" " "	3	
	Total for 1 Road Dam		88	
	Do 2 - Do			176
W				
	Road Dam 30 yards II			
76	Cy ³ of Masonry in Chumam	Cy ³ " 2 1/2 " "	171	
30	do of Rough Stone apron	" " 1 " "	7	
	Came Over		178	100816

Quantities	Description of work	Rate	Amount	Amount of sub-fact
	Brought Over		178	100816
46	Cy ³ Excavating foundation	Cy ³ " 1 " "	5	
	Sundry Charges	" " "	7	
				190
W				
	Road Dam 20 yards III IV V VI VII VIII			
52	Cy ³ of Masonry in Chumam	Cy ³ " 2 1/2 " "	117	
20	do of Rough Stone Apron	" " 1 " "	5	
52	do of Excavating foundation	" " 1 " "	3	
	Sundry Charges	" " "	15	
	Total for 1 Road Dam		140	
	Do 4 - Do			560
W				
	Road Dam 10 yards V & IX			
14	Cy ³ of Masonry in Chumam	Cy ³ " 2 1/2 " "	31	
10	do of Rough Stone in do	" " 1 " "	3	
14	do Excavating foundation	" " 1 " "	1	
	Sundry Charges	" " "	1	
	Total for 1 Road Dam		36	
	Do 2 - Do			72
W				
	Road Dam 15 yards VI			
20	Cy ³ of Masonry in Chumam	Cy ³ " 2 1/2 " "	45	
	Came Over		45	101638

Quantity	Description of work	Rate			Amount	Amount of each part
15	Cy ⁴ of Rough stone	Brought Over			115	101638
	upon — 7 1/2	"	4	"	11	
20	Excavating foundation — Cy ⁴	"	1 1/2	"	1	
	Sundry Charges				12	
						62
Total Rupees —						101700

Central Office of *W. D. Worsley* Lieutenant Colonel
 Chepauk Chief Engineer D. P. W.
 30 November, 1860.

Central Office of P.W.
Chennai 12.30.1860

N^o 7545

From

Lieut. Colonel W. H. Worsley
Chief Engineer

To

J. D. Sims Esq.

As Secy to Govt P.W.D.

Sir

Placed

On the 12th July 1859 the Acting
Assistant Engineer Munnick addressed me in
a letter N^o 378 / herewith forwarded enquiring
whether it was considered desirable to
have an Estimate prepared for the road
from Randalial thro' Panchapalam to
Talur. The distance of 55 miles, and he states the
advantages to be obtained by its construction
to be as follows:

Randalial

Talur

To render the Civil and Sessions
Court at Munnick more accessible to
the inhabitants of the South portion of
the Panchapalam Taluk and of nearly the
whole of the large Taluk of Panchapalam
The improving the direct route for
Troops proceeding from Bangalore and
Bellary to the Northern Division, and
shortening

Enclosure

Draw

Draw

The Chief Engineer

W. H. Worsley

To the Secretary to Govt

Dated 30th Novr 1860

N^o 7545

Abstract Estimate for

Constructing Bridges across

and across and on the proposed

line of Road from Munnick to

Panchapalam and Panchapalam

in the District of Munnick

amounting to Rs. 10,000

17927 228

shortening the distance hitherto travelled by horse
proceeding thither by 40 and 40 miles
respectively.

3. As a feeder to the Railway at
Dorby, and as a connecting link between
the Road and the Canal to be constructed
by the Irrigation Company thro' the
Korndair Valley.

2. Observing by Major Scott's
Road Book / Pages 48 and 49 / such expressions
as the following, "Shank extremely rugged
on the side of a hill - descent difficult"
"Road strong and encircled by jungle", entered
in the Column of. Remarks against the
road in question, and deeming it, for the
reasons adduced by the Acting District
Engineer, to be a line of great importance
to the District, I directed an Estimate
to be prepared for the same, which was
submitted for Rs 1,09,200 / corrected
in this Office to Rs 1,08,700 / by Lieuten-
ant Buckley in a letter / which is
enclosed / N: 1100, dated 13th December 1857,
but as the same appears not to
have been prepared after personal
examination of the route, and as
the operations of the Irrigation
Company

Company were at that time more
fully developed, I requested that the
Estimate might be resubmitted
by Lieutenant Buckley with a
report, after he has himself inspec-
ed the whole line.

3. The result of that inspection
is contained in the accompanying
N: 642-1384ps letter from the Acting District Engineer.
The facilities of road-making were
found to be so great as to lead to
the recommendation that a restriction
should be made in the charges for
earthwork, and in consequence
reduction of the Estimate from
Rs 1,08,700 to Rs 1,01,700.
Moreover, however desirable it
may be eventually to build the bridges
and tunnels along the whole line of
road, for the present they may be
deferred.

4. The line selected by Mr. O'Neil
and a Supervisor Omran was mainly
approved of by Lieutenant Buckley;
in one particular place the Nawab
of Banaganpally requested that the
road should not go thro' his plantation,
and

and as the detour involved only 100 yards increased distance, the request was, of course, complied with. A sketch of the country thro which the road is to pass, together with a statement of the present traffic, which it will be run on account of the difficulties of the track is at present very trifling, accompanies the estimate.

5. In an argument for the early completion of all roads that are to be made in his District the Acting District Engineer brings forward one to the effect that when irrigation is greatly extended the cost of Road making will be much enhanced by the cost of bridging the channels, whereas should the roads be first formed the main of that work will fall upon the Irrigation Company. The price of land and labor also, will probably rise considerably as irrigation increases.

6. Government will observe by the copy of the Privy Council Minute to the letter, which is attached to the estimate, that he considers the line will prove one of the greatest

greatest utility; being the only available pass for many miles thro the Serra Mulla hills and if made will be the means of opening up direct communication between a large tract of country and the East Coast by the Mudy Cumama Pass.

As the Estimate requires 101,700 will be required to make the line complete the whole sum has been entered accordingly in the Budget with a proposed expenditure of Rs 20,000 in 1861/62, which is all the Acting District Engineer can well spend in one year, and the confirmation of Government for the entry in question is solicited.

Chupank
30. Nov 61

I have the honor to be,
Sir,
Your most obedient servant

A. B. L. Sub.
Ag. Dy. Secy. to Govt.

W. R. Rossall Esq. Secy. to Govt.

J. D. Smith Esq. Chief Engineer
By Secy. to Government
p. 8

Wm 1860 2 of 28th
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Wm 1860 2 of 28th
Aug 1860 2804 paid in
to J. H. John
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