

(1) Number of pages 28
(2) Date of repair 20. 10. 47
(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. <u>2116</u>	Press Mis.
<u>575-516</u>	
Dated <u>21-10-</u>	18 <u>64.</u>

Not to be folded or roughly handled

1

*Proceedings of the Madras Government, Public Works Department,
31st October 1864.*

No. 575. Read the following letter from Captain J. BEAN, R. E., Officiating Superintending Engineer, 6th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Tanjore, 15th October 1864, No. 1,670 :—

SIR,

1. With reference to the orders marginally indicated, I have the honor to forward

No. 1,877, dated 14th July 1863.
" 685, " 7th March 1864.
" 1,345, " 10th May "
" 1,358, " 30th do "
" 1,974, " 8th July "
* By banghy.
‡ Estimates.

surveys,* plans, and estimates amounting to Rupees 17,800, Rupees 14,200, and Rupees 21,000 for constructing bandy roads from Cotraputty Railway Station to Kovilady on the north bank of the Cauvery river, from Boodalore Station southwards to Senjiputty, and from Saliamun-

galum Station southwards to Road No. 7, which connects Manargoody with Tanjore. I could have furnished these estimates at an earlier date, but the recent changes in the Tanjore range have delayed their submission and caused me to keep back the plans for revision.

2. The first work allowed for, consists of a second class road four miles seven furlongs in length, with all the large irrigation streams and small channels bridged, but the estimate does not provide for masonry works across the Vennar and Cauvery rivers. Traffic therefore will be almost entirely stopped in the wet weather, and also when the rivers are full during the period of freshes, commencing in June and probably earlier in the year. The amount of estimate is not large, otherwise I would hardly recommend its sanction as it now stands, on account of the small probability of much bandy traffic.

3. I am quite prepared to carry out this work through the agency of the Department without handing it over to the Railway Company, if Government will be pleased to obtain the necessary funds.

4. The second estimate of Rupees 14,200 provides for connecting the road from Tanjore to Trichinopoly with the Railway. This is a favorable line, it crosses little irrigation or drainage, and there are no rivers to bridge. The length is five miles one furlong.

5. The same may be said of the third estimate of Rupees 21,000 as regards the Engineering difficulties of the road for which it provides. The largest masonry work is a bridge of three arches twenty feet span. The distance amounts to four miles five furlongs.

6. I propose, with the permission of Government, to enter these estimates in the Budget of 1865-66 now in preparation in my Office. There are still two more road surveys and estimates required to be submitted by the first order quoted at the head of this letter, namely, from Keervalore northwards to Polagum and from the same Railway station southwards to Kileur on the road from Negapatam to Tritapoonchy. The former will be a very expensive line crossing one of the richest and most extensively cultivated Taluqs of the District. These estimates are very nearly completed, but I presume they can be scarcely required for entry in the outgoing Budget, as provision for Railway feeders has already been entered in it beyond the probable available funds.

No. 576. ORDER THEREON, 31st October 1864, No. 3,116.

1. The Governor in Council approves of the three estimates submitted with the foregoing letter, but a larger number of projects having already been sanctioned than funds can be provided for in the ensuing year, the proposed Railway feeders must lie over until 1866-67.

2. Meanwhile the Superintending Engineer will take steps to ascertain the probable traffic.

(True Extract.)

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

To the Superintending Engineer, 6th Division.

" Financial (Railway) Department.

Accountant General
Exd. T. O'Connor. *J. H. A.*

3

Abstract Estimate
Tanjore District
Tanjore Taluk

Work — Constructing Road from Coilady to the
E. S. S. Railway Station at Chappathy

Quantities	Particulars of Work.	Rate	Amount	Amount of each part.
15935 ⁵ / ₁₆	Qty. of Earthwork in Embankment — ft. Cd. —	1	995 15 1	
1112	Do in side Channels — do —	1	69 8	
6857 ³ / ₄	Do Catch Drain — do —	1	428 9 9	
3891 ⁹ / ₁₆	Do Stationing Helling — do —	1	243 3 1	
5593 ³ / ₈	Do Stationing — do —	1	5593 5 4	
16365 ¹ / ₂	Qty. of Laying — ft. Cd. —	1	6 511 6 9	
2580	Do Channel Laying — do —	1	13 7	
16678	Running Qty. of Bridging — ft. Cd. —	2	173 11 8	
350	Diagonal Connecting Channel — 50 yds. apart by yards in length and One Sqr Foot Area. —	9	16 6 6	
	Forming Approaches to the Canals and Drain or River beds —		100	
5	Mile Stones — ea —	5	25	
	Land in Horticulture —		409 6 10	
	<u>Total</u>			8580
	Cost of Masonry Works as per Appendix —			6850
	Compensation for Land —			2370
	<u>Total Estimate Proper</u>			17800

Supp. Engr. & Officer in Charge
Tanjore 15. October 1864.

Mean Captain R. S.
Offg. Supp. Engr. & Officer in Charge

Appendix of the Cost of Erecting Bridges and Tunnels
on the Road from Loviladdy to the G. I. R. Railway
Station at Coliappilly. 5

Quantity	Description of Work	Rate	Amount	Amount of each Part.
<u>Constructing a Bridge of</u>				
<u>One Arch 20 feet Span.</u>				
7451 $\frac{1}{4}$	Cubic feet of Brick in Churnam per ft. 2		931 6 6	
729 $\frac{3}{4}$	D ^o of Arch work per ft. 2 3		102 9 11	
3118 $\frac{1}{2}$	Sq. ft. of Plastering per sq. ft. 2 8		77 15 4	
632 $\frac{3}{4}$	Cy ^s of Lateral Gravel Concrete per Cy. 2 7 6		59 5 7	
200	Cy ^s of Earth work for Excavating			
	Centring	1	12 8	
	Earth work Approaches		200	
	Surfing		8	
4	Guard Stones each	5	20	
	Indrias & Contingencies		138 3 2	
	<u>Total</u>			1600
<u>Constructing a Bridge of 4</u>				
<u>Arches of 9 feet Span.</u>				
5210	Cubic feet of Brick in Churnam per ft. 2		651 4	
907 $\frac{1}{2}$	D ^o of Arch work per ft. 2 3		127 10 6	
833 $\frac{1}{4}$	D ^o of Lateral Gravel Concrete per Cy. 1 6		78 1 10	
3960 $\frac{1}{4}$	Sq. ft. of Plastering per sq. ft. 2 8		99 1	
200	Cy ^s Excavating foundation per Cy. 1		12 8	
72	D ^o of all talling per ft. 1 4		90	
607 $\frac{1}{2}$	D ^o of Approaches Earth per ft. 1		37 15 6	
180	Sq. ft. of Surfing per sq. ft. 4		3 12	
	Centring		200	
	<u>Carried forward</u>		1300 3 11	1600

Brought forward		1300	341	1600
4	English Stones ————— each	5	20	
	Sundries and Contingencies	129	121	
	Total			1450
Constructing a Tunnel of One Vent of 6 feet Span.				
882	Cft. of Bricks in Churnam — per Cft.	2	110	4
153 1/8	D. of Arch work	23	21	86
90 7/8	D. of Concrete	16	8	711
584 1/2	Sq. ft. of Plastering — per Sq. ft.	28	14	99
20	Cyds of Earth work for excavations	1	1	4
4	D. of Rough Stoner ————— Cys.			
	work ————— D.	38	14	
607 1/2	Cyds of Approaches — Earth — Cys.	1	37	156
180	Sq. ft. of Surfing ————— Sq. ft.	4	3	12
	Centring —————		10	
4	Guard Stones ————— each	5	20	
	Sundries & Contingencies		28	24
	For One		270	
	For 7 Tunnels as Particulars as above		1890	
	Total for 8 Tunnels			2160
Constructing a Tunnel of One Vent 4 1/2 feet Span.				
1445 1/8	Cft. of Bricks in Churnam — Cft.	2	180	1110
131 1/4	D. of Arch work	23	18	73
139 1/8	D. of Laterite Gravel Concrete D.	16	13	8
626 3/4	Sq. ft. of Plastering ————— Sq. ft.	28	15	106
50	Cyds of Excavating found ————— Cys.	1	3	2
15	D. of Scaffolding ————— D.	10	9	6
607 1/2	D. of Earth work ————— D.	1	37	156
180	Sq. ft. of Surfing ————— Sq. ft.	4	3	12
	Carried forward		282	195210

Brought forward		282	19	5210
	Centring		10	
	Sundries and Contingencies		27	143
	For One		320	
	For One Tunnel as Particulars as above		320	
	Total for 2 Tunnels			640
Constructing a Tunnel of 2 Vents of 6 feet Span.				
1361 5/32	Cft. of Bricks in Churnam — Cft.	2	170	24
328 1/8	D. of Arch work	23	46	23
239 3/8	D. of Laterite Gravel Concrete D.	16	22	71
70	Cft. of Selly		6	23
14 1/3	Cyds Rubble Stone	38	50	28
961 3/4	Sq. ft. of Plastering ————— Sq. ft.	28	24	9
50	Cyds Foundation Earth work	1	3	2
	Centring		20	
607 1/2	Cyds of Approaches, Earth Cys.	1	37	156
360	Sq. ft. of Surfing ————— Sq. ft.	4	7	8
4	Guard Stones ————— each	5	20	
	Sundries & Contingencies		46	45
	Total			450
Constructing a Tunnel of 2 feet Span.				
564 1/16	Cft. of Bricks in Churnam — Cft.	2	70	81
39 3/8	D. of Arch work	23	5	87
85 1/2	D. of Laterite Gravel Concrete	16	8	3
34	Cft. of Brick jolly ————— Cft.		6	11
	Carried forward		85	116300

Brought forward ... 8511 6300

333 3/4	Sup ^{ts} of Plastering	Sq ^{ts} 28	8 55
10 1/2	Cy ^{ts} of Foundation Earthwork Cy ^{ts}	1	10 6
200	D ^{ts} of Approaches Earthwork D ^{ts}	1	12 8
100	Sup ^{ts} of Surfing	Sq ^{ts} 4	2 14
1	Cy ^{ts} of Gravel	Cy ^{ts} 1 1/4	1 4
4	Guard Stones	each 5	20
	Sundries & Contingencies		10 10

Total ... 140

For 2 Tunnels as Particulars above ... 280

Total for 3 Tunnels ... 420

Constructing a Tunnel of
one Vent of 4 feet Span.

453 7/16	Cy ^{ts} of Brickwork	Cy ^{ts} 2	56 11
59 1/16	D ^{ts} of Brickwork	D ^{ts} 23	8 4 10
63 3/4	D ^{ts} of Concrete	D ^{ts} 16	5 15 7
368 1/4	Sup ^{ts} of Plastering	Sq ^{ts} 2	3 2
20	Cy ^{ts} of Foundation Earthwork Cy ^{ts}	1	1 4
	Centering		10
240	Cy ^{ts} of Approaches of Earthwork D ^{ts}	1	15
180	Sup ^{ts} of Surfing	Sq ^{ts} 4	3 12
	Gravel		5
	Sundries & Contingencies		14 13 4

Total ... 130

Total Estimate Prepared 6,850

Per Captain R.C.

Sup^{ts} Engr^s Office 6th Dec
Tanjore 15 October 1864

Off^{rs} Superintendent Engineer 6th Dec

Abstract Estimate
Tanjore District
Tanjore Taluk

K. Constructing Road from Sengipetty to the
P. S. Railway Station at Boobaloor.

Rs.	P.	A.	Annas
114	1	1	1

1

Total Estimate Prepared 14200

Engr^s Office 6th Dec
Tanjore 15 October 1864

Per Captain R.C.
Off^{rs} Sup^{ts} Engr^s 6th Dec

Appendix of the Cost of erecting Masonry Works.
on the Road from Seijipetty to the G. S. I. Railway
Station at Doddalore.

Quantities	Particulars of Work.	Rate	Amount of each part.	Amount
Constructing a Tunnel of 1 Vent 6 feet Span.				
582	Cu ^{ft} Brick in Chumam ———— p. Cu ^{ft}	2	110 4	
153 1/8	do. — do — Arch Work. ———— do	25	21 8 6	
90 5/8	do — Concrete ———— do	16	8 7 11	
58 1/2	Sup ^{ft} of Plastering ———— p. Sup ^{ft}	28	14 9 9	
20	Cu ^{yd} of Earthwork for excavation p. Cu ^{yd}	1	1 4	
4	do — Rough Stone Work ———— do	38	14	
60 1/2	do — Cart work for Approaches — do	1	37 5 6	
180	Sup ^{ft} of Surfing ———— p. Sup ^{ft}	4	3 12	
	Centering ————		10	
4	Guard Stones. ———— each	5	20	
	Smother's & Contingencies ————		28 2 4	
	Total for one Tunnel.			270
	Constructing nine other Tunnels Particulars as above. — each		270	2430
Constructing a Tunnel of 1 Vent of 4 feet Span.				
453 2/3	Cu ^{ft} of Brick in Chumam ———— p. Cu ^{ft}	2	56 11 1	
59 1/8	do — do — Arch Work. ———— do	25	8 4 10	
63 3/4	do — Concrete ———— do	16	5 15 7	
368 1/2	Sup ^{ft} of Plastering ———— p. Sup ^{ft}	28	9 3 2	
20	Cu ^{yd} of Earthwork for excavating Foundation. ———— p. Cu ^{yd}	1	1 4	
	Centering ————		10	
	Carried over.		91 68	2700

Brought over.		91 68 2700
240 Cys ² Earthwork for Approaches.	pr. Cys.	15
180 Sq ^{rs} Surfing.	pr. Sq ^{rs}	4 3 12
Gravel.		5
Sundries Contingencies		14 13 4

Total for one Tunnel. 130

Constructing Seven other Tunnels.
Particulars as above. each 130 910

Constructing a Tunnel
of 2 Vents of 6 feet span.

1822 Cys ² of Brick in Churnam	pr. Cys.	2 227 12
459 7/8 do do Arch Work.	do	2 3 64 97
342 7/8 do Concrete & Latite gravel.	do	1 6 32 17
90 do of Lelly.	do	6 2 10
20 Cys ² of Rubble Stone Apron.	Cys ²	3 8 70
1366 1/4 Sq ^{ft} of Plastering	pr. Sq ^{ft}	2 8 34 26
70 Cys ² Earthwork in excavating foundation	pr. Cys ²	1 4 6
Centring		50

22 Cys² of Distilling. do 1 12 388

240 do Earthwork for Approaches. do 1 15

120 Sq^{rs} Surfing pr. Sq^{rs} 4 2 8

4 Guard Stones. each 5 20

Sundries Contingencies 58 3 4

Total 620

Constructing a Tunnel
of 2 Vents of 6 feet span.

136 1/2 Cys ² Brick in Churnam	pr. Cys.	2 170 24
328 7/8 do do Arch Work	do	2 3 46 23
239 3/8 do Latite gravel Concrete	do	1 6 22 71

14 1/2 Cys ² of Rubble Stone	pr. Cys.	3 8 30 28
961 Sq ^{ft} of Plastering	pr. Sq ^{ft}	2 8 24 9
50 Cys ² Earthwork in excavating foundation	pr. Cys ²	1 3 2
Centring		20
607 1/2 Cys ² of Earthwork for Approaches do	do	1 37 56
360 Sq ^{rs} of Surfing	pr. Sq ^{rs}	4 7 8
4 Guard Stones	each 5	20
Sundries Contingencies		46 45
Total		450
Total Estimate Prs		1810

Sup^r Engr^s Office 6th Dec
Jan^y 15th Feb^r 1861

Recd Captain R. E.
Off^r Sup^r Engr^s 6th Dec

Abstract Estimate
Tanjore District
Tanjore Taluk

Work — Constructing Road from the G. S. I. Railway Station at Sahamungalam to H. J. Road.

Quantities	Particulars of Work	Rate	Amount	Amount of each part.
11665 ¹³ / ₁₈	Cy. of Earthwork in embankment <u>prop.</u>	1..	729	18
1253	do — in side Channels — do —	1..	78	5.
5516 ¹ / ₈	do — Catch drains — do —	1..	342	12 1
3288 ¹ / ₂	do — Sectioning & levelling — do —	1..	250	8 6
5206 ² / ₃	do — of Metalling —	1 8..	7810	..
8063	Sqr. yds. Surfing — <u>prop.</u>	..	6251	15 6
16220	Run. yds. of Ridging & Surfing —	..	2 168	15 4
320	Diagonal connecting Channels on both sides by <u>2</u> in length and 1 <u>sq</u> foot in Area. —	..	9	15 ..
5.	Mile Stones — ea	5..	25	..
	Provisions & contingencies —		486	5 11
	<u>Total</u> —			101 60 ..
	Cost of Masonry Works as per Appendix —			8770 ..
	Compensation for land —			2070
	<u>Total Estimate</u> Rupees			821000

Supd. Engrs Office 6th Div
Tanjore 15th October 1864.
Capt. R. E.
Offg. Supd. Engrs 6th Div

Estimate for constructing Road from Sahamungalam to the G. S. I. Railway Station at Sahamungalam.
15th October 1864.
11665 ¹³/₁₈
1253
5516 ¹/₈
3288 ¹/₂
5206 ²/₃
8063
16220
320
5.
486 5 11
8770
2070
821000

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Appendix of the Cost of Erecting Bridges and Tunnels
on the Road from the G. D. R. Railway Station at
Salemungaham to No. 7. Road. with 1st to

Quantity	Description of Work	Rate	Amount of each Part	Amount
<u>Massary Works</u>				
<u>Bridge of 3 Arches of 20' Span</u>				
17,558	Cft. of Brick in Churnam	2	2194 12	
2,126 1/4	Dm. of Arch work	2 3	299	
7,402	Sq. ft. of Plastering	2 8	185 9	
3,026	Cft. of Latent Gravel Concrete	1 6	283 11	
120	Dm. of Cornice work	2	15	
60	Dm. of Walling Roadway	1 12	105	
550	Cft. of Foundation Earth work	1	34 6	
	Scaffolding		60	
	Baling		140	
	Centring		430	
	Approaches		155 12 7	
	Sundries & Contingencies		397 5 0	
	<u>Total</u>			4300
<u>Constructing a Bridge of 1 Arch</u>				
<u>of 20 feet Span</u>				
7,457 1/4	Cft. of Brick in Churnam	2	931 6 6	
729 3/4	Dm. of Arch work	2 3	102 9 11	
3,118 1/2	Sq. ft. of Plastering	2 8	77 15 4	
632 3/4	Cft. of Latent Gravel Concrete	1 6	59 5 1	
	Cft. of Foundation Earth work	1	12 8	
	Centring		200	
	Approaches of Earth work		50	
	Jumping		8	
	Guard Stones	5	20	
	Sundries and Contingencies		138 3 2	
	<u>Total</u>			1600
	Carried forward			5900

Brought forward				5900
<u>Constructing a Tunnel of 1 Vent</u> <u>of 6 feet span.</u>				
882	Cft. of Brick in Churnam	Cft.	2	110 4
152 7/8	D. of Arch work	D.	23	21 8 6
90 7/8	D. of Concrete	D.	16	8 7 11
584 1/2	Sup. ft. of Plastering	Sup.	28	14 9 9
20	Cy. Foundation Earth work	Cy.	1	1 4
4	D. Ring Stone work	D.	3 8	14
607 1/2	D. of Approaches Earth work	D.	1	37 15 6
180	Sup. ft. Surfing	Sup.	4	3 12
	Centering			10
4	Guard Stones	each	5	20
	Sundries & Contingencies			28 2 4
	For One			270
	For 4 Tunnels as Particulars as above			1080
	Total for 5 Tunnels			1350

<u>Constructing a Tunnel of 1 Vent</u> <u>of 4 1/2 feet span.</u>				
1445 15/16	Cft. of Brick in Churnam	Cft.	2	180 11 10
131 1/4	D. of Arch work	D.	23	18 7 3
139 7/8	D. of Laterite Gravel Concrete	D.	16	13 8
626 3/4	Sup. ft. of Plastering	Sup.	28	15 10 6
50	Cy. Foundation Earth work	Cy.	1	3 2
15	D. of Metalling	D.	10	9 6
607 1/2	D. of Approaches Earth work	D.	1	37 15 6
180	Sup. ft. of Surfing	Sup.	4	3 12
	Centering			10
	Sundries & Contingencies			27 14 3
	For One			320
	For One Tunnel Particulars as above			320
	Total for 2 Tunnels			640
	Carried forward			7890

Brought forward				7890
<u>Constructing a Tunnel of 1 Vent</u> <u>of 4 feet span.</u>				
453 7/8	Cft. of Brick in Churnam	Cft.	2	56 11 1
59 1/8	D. of Arch work	D.	23	8 4 10
63 3/4	D. of Concrete	D.	16	5 15 7
368 1/4	Sup. ft. of Plastering	Sup.	28	9 3 2
20	Cy. for Foundation Earth work	Cy.	1	1 4
	Centering			10
240	Cy. of Approaches Earth work	Cy.	1	15
180	Sup. ft. of Surfing	Sup.	4	3 12
	Gravel			5
	Sundries & Contingencies			14 13 4
	For One			130
	For One Tunnel Particulars as above			130
	Total for 2 Tunnels			260
<u>Constructing a Tunnel of 3 Vents</u> <u>of 6 feet span.</u>				
1822	Cft. of Brick in Churnam	Cft.	2	227 12
459 3/8	D. of Arch work	D.	23	64 9 7
342 3/8	D. of Laterite Gravel Concrete	D.	16	32 17
90	D. of Gully	D.	6	2 13
20	Cy. of Rubble Stone Apron	Cy.	38	70
1366 1/4	Sup. ft. of Plastering	Sup.	28	34 2 6
70	Cy. of Foundation Earth work	Cy.	1	4 6
	Centering			50
22	Cy. of Metalling	Cy.	12	38 8
240	D. of Approaches of Earth	D.	1	15
120	Sup. ft. of Surfing	Sup.	4	2 8
4	Guard Stones	each	5	20
	Sundries & Contingencies			58 3 4
	Total			620
	Total Estimate Refracs			8770

Sup. Engr. Office 6th Dec
 Tanjore 15 October 1864

Recd
 Capt. R. C.
 Off. Sup. Engr. 6th Dec

Enclosure in a letter
from the wife; copy
of the original of 1870 dated
11/5 - 1870. Deddon 1874

irrigation streams and small channels bridged, but the Estimate does not provide for masonry works across the Tambar and Cannery Rivers. Traffic therefore will be almost entirely stopped in the wet weather, and also when the Rivers are full during the period of freshes, commencing in June and probably earlier in the year. The amount of Estimate is not large, otherwise I would hardly recommend its sanction as it now stands, on account of the small probability of much bandy traffic.

3 I am quite prepared to carry out this work through the agency of the Department without handing it over to the Railway Company, if Government will be pleased to obtain the necessary funds.

4 The second Estimate of Rs 14,200 provides for connecting the Road from Tanjore to Trichinopoly with the Railway. This is a favorable line, it crosses little irrigation or drainage, and there are no rivers to bridge. The length is 5 miles 1 furlong.

5 The same may be said of the third Estimate of Rs 21,000 as regards the engineering difficulties of the road for which it provides. The largest masonry work is a bridge

of 3 arches 20 feet span. The distance amounts to 4 miles 5 furlongs.

6 I propose, with the permission of Government, to enter these Estimates in the Budget of 1865/66 now in preparation in my office. There are still two more road surveys and estimates required to be submitted by the first order quoted at the head of this letter, namely, from Kevalore northwards to Palagum and from the same railway station southwards to Kileur on the road from Negapattam to Tirupattur. The former will be a very expensive line crossing one of the richest and most extensively cultivated Taluqs of the District. These estimates are very nearly completed, but I presume they can be scarcely required for entry in the out going Budget, as provision for railway feeders has already been entered in it beyond the probable available funds.

I have the honor to be

Sir,
Your most obedient servant

W. H. R. C. R. E.
Offg. Supr. Engineer 6th Div.

No 3446
 Proceedings of the Madras Government
 Under date the 31st October 1864.

Read the following
 from the Supg Engineer 6th Dec

Forwarding 3 Estimates of Rs
 17,800, Rs 14,200 and Rs 21,000 for con-
 structing the Sandy roads herein
 mentioned and offering certain remarks
 on them.

(Forwarded 15th October 1864
 No 1640)

The Govt approves
 of the three estimates
 submitted with the fore-
 going letter, but a larger
 number of projects
 having already been
 sanctioned than funds
 can be provided for
 in the ensuing year,
 the proposed Railway
 feeders must lie over
 until 1865/66.

Meanwhile the
 Supg Engr will take
 steps to ascertain the
 probable traffic that
 will pass along the
 new roads.

J. The Supg Engr 6th Dec
 " Insd (Hacking) 8th Dec
 " Accountant Genl. S
 " Controller of W. & A. S
 1st November

Madras/Secy
 685-3

1864
 No. of Govt Order
 No. 3116-3120 Oct/64

To the Secretary
 Madras

Dated 16th October 1864
 Rs 17,800
 Rs 14,200
 Rs 21,000

Forwarding 3 Estimates
 of Rs 17,800, Rs 14,200
 and Rs 21,000 for
 constructing the Sandy roads
 herein mentioned and
 offering certain remarks
 on them.

Madras Secy

It strikes me that these roads are
 hardly wanted at all - we must have
 some estimate of the probable traffic upon
 them before they are included in the estimate.

Too many other works are on hand
 at present.

The following estimates for entry
 in the Budget of 1865/66.

For constructing a road from
 Cuddalore to the Great Southern
 Indian Railway Station
 at K. Maruthi - 17,800

From Dargipally
 to - 14,200

From the District
 Southern Indian Railway
 Station at Vallamangalam
 to the alluvial canal
 Tangur road - 21,000

To the Secy
 Madras
 1st Nov

10575.57

4077 18th & 2nd
Wm. J. Goodfellow

1022116

Wm. J. Goodfellow

2/21/10 ch/18

The Office Secretary
has been in the
house & has
by the duty. By
in New York N. 1670
of 1866/1870
to be accounted
1866/1870