M.R.O. 1—77,006—8-6-37.

(1) Number of pages 40

(2) Date of repair 11-8-62

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 1746	Press / Mis.
40-41.	
Dated 5-7-	1863.

Not to be folded or roughly handled

Orgn

Proceedings of the Madras Government, Public Works Department, 3rd July 1863.

No. 40. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer 7th Division, to Colonel W. I. BIRDWOOD, R. E., Secretary to Government, Department Public Works, dated Coimbatore, 17th June 1863, No. 29:—

SIR,

1. In Order No. 2,851 of 28th November 1862, authority was granted for the entry in the Budget of 1862-63 of the sum of Rupees 25,000 for the improvement of the road from Konghiem to the Railway Station at Tirpoor, and an estimate for the work was ordered to be submitted without delay. A difference of opinion between the District Engineer and Deputy Chief Engineer as to the sufficiency of that sum, with reference to the nature of the soil traversed and amount of traffic, led to Order No. 3,023 of 17th December 1862, calling for a statement of traffic and report from the Deputy Chief Engineer after personal inspection. The result of Colonel Outcherlony's inspection was communicated in letter No. 411 of 21st January 1863; on which Order No. 287 of 3rd February was passed, stating inability to provide funds in 1862-63, and deferring the question of their provision till the present year.

5 Plans.
5 Estimates.
1 Extract of do.
5 Traffic Returns.

2. In obedience to these several instructions I find that an estimate, whereof the following is an abstract, has been very carefully prepared by Lieutenant Trail, R. E., on the instructions given by Colonel Outcherlony:—

Abstract of Tirpoor and Konghiem Estimate.

	Rs.	A.	P.			
Forming, gravelling and metalling 20 miles of road ...	12,365	12	3			
1 River-crossing 80 yards long	1,450	0	0			
2 Do. do. 30 do.	960	0	0			
1 Do. do. 22 do.	350	0	0	6,014	12	0
3 Tunnels of 1 vent 4 × 3	435	0	0			
10 Do. of 2 do. 4 × 4	2,420	0	0			
2 Additions to existing tunnels of 2-vents each ...	399	12	0			
Superintendence and sundries	919	7	9			
Total ...	19,300	0	0			

Five sets of Traffic Returns have also been prepared as follows, viz:—

1. Return of Traffic on the Noyel Bridge between Tirpoor Village and Station, 7th to 17th January.

2. Two Returns of Traffic between Konghiem and Tirpoor, taken at Tirpoor, 18th to 31st January and 1st to 28th February.

3. Two Returns of Traffic between Konghiem and Tirpoor, taken at Konghiem, 7th to 31st January and 1st to 28th February.

4. Two Returns of Traffic between Tirpoor and Pulladum, taken at Tirpoor, 18th to 31st January, 1st to 28th February.

5. Two Returns of Traffic between Avenashy and Tirpoor, taken at Avenashy, 7th to 31st January and 1st to 24th February.

3. These Traffic Returns I herewith submit, but substitute for the entire estimate that portion only which relates to the masonry works and amounting to Rupees 6,014-12-0; supplementing such indent on the Reserve Fund by demand of an annual maintenance and improvement grant for the three Railway feeders converging at Tirpoor, at the rate of Rupees 110 per mile, viz:—

Konghiem to Tirpoor	19 miles.	35 miles.
Avenashy to do.	8 do.	
Pulladum to do.	8 do.	

making Rupees 3,850 as a permanent grant, and a total of Rupees 9,864-12-0 for the current year.

4. I am induced to make this recommendation by perusal of Colonel Ouchterlony's description of the line, and by Lieutenant Trail's own candid statement that though he has prepared his estimate as per order, he thinks it would be waste of money to spend its amount on so good a road with so moderate a traffic on it. Again, I observe that Colonel Ouchterlony urges the adoption of the Cantonal system of repairs which depends upon a sufficient and permanent grant; and approving of it as I do, and finding in Lieutenant Trail an Officer most able and willing to carry it into practice, I think the opportunity too good to be lost of making a commencement with these three convergent feeders. It is also to be remembered that Rupees 3,760 were spent on the Konghiem and Tirpoor road on sanctions Nos. 2,755 of 15th November and 2,860 of 1st December 1862, with which the condition of the line has doubtless been improved even since Colonel Ouchterlony reported so favorably of it.

5. I am aware that the Avenashy and Konghiem feeders to Tirpoor Station, form portion of a line from Caroor to Metapolliem, for which a maintenance allowance of Rupees 2,225 per annum is already available; but the rate of that grant being only Rupees 25 per mile for 89 miles which the separate provision for these 27 miles will raise by Rupees 10 a mile only for the remaining 62 miles, no exception to the grant now proposed need arise on that ground.

No. 41. ORDER THEREON, 3rd July 1863, No. 1,746.

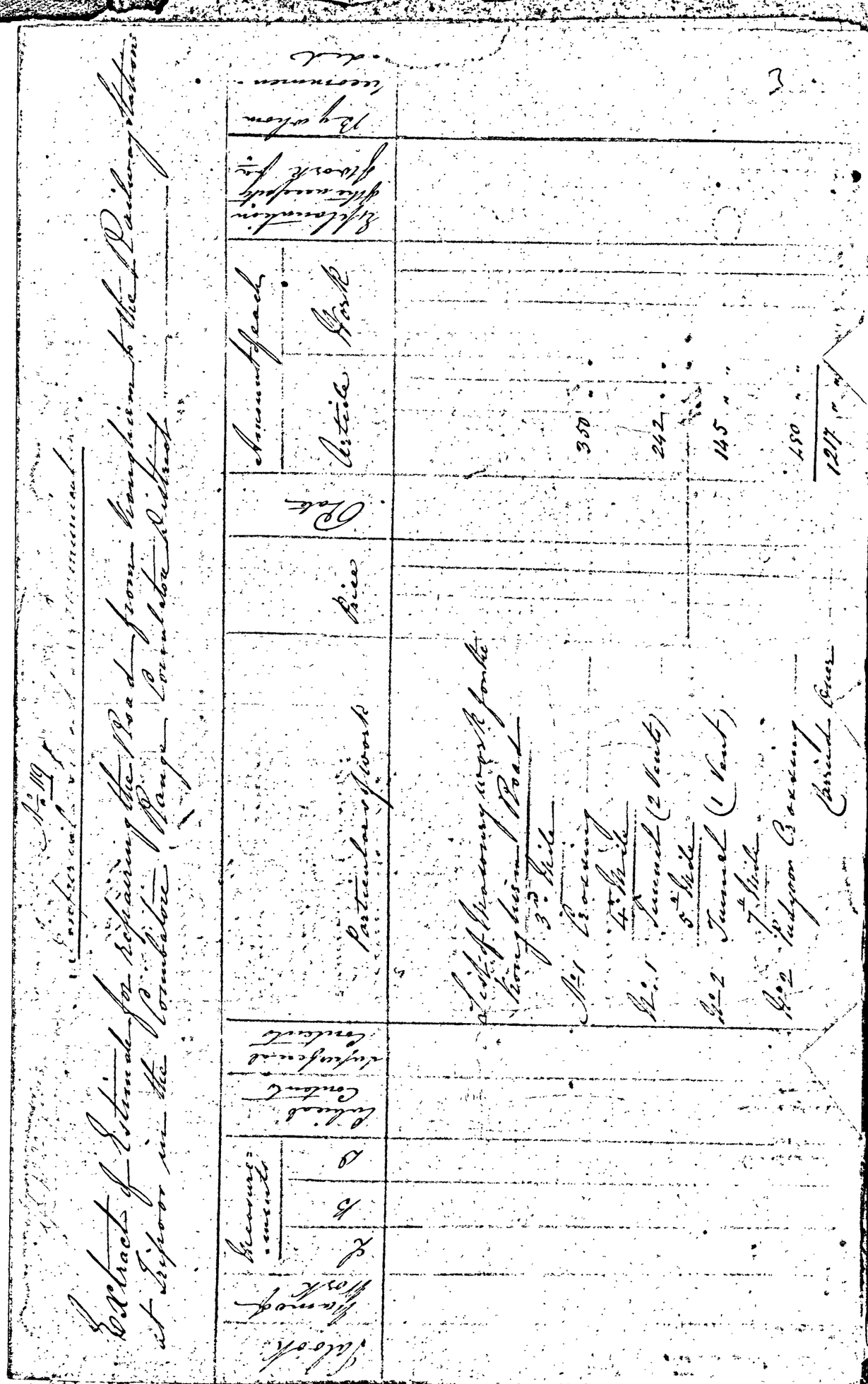
1. The Superintending Engineer 7th Division will observe from paragraph 6 of the Orders of the Government of India on the Budget of 1863-64, that the cost of the repairs of roads cannot be provided for from the Reserve, unless on a special transfer of assignment to be authorized by the Government of India. Lieutenant-Colonel Walker will be good enough, therefore, to report in what other manner he would propose to make funds available for the maintenance of the roads referred to, if he is of opinion that the condition of the lines is such as would not warrant the postponement of the proposed outlay on them until the next official year. It is observed that Colonel Ouchterlony after personal inspection, reported that the road between Konghiem and Tirpoor was in good order, and that "as a line of Military communication he really did not know what more could be desired."

See Procs. of this Govt., dated 10th June 1863, No. 1,492.

Vide Procs. 3rd February 1863, No. 287.

2. The estimate for the tunnels will be considered on receipt of the information called for above.

(Signed) W. I. BIRDWOOD, Colonel, R. E.,
Secretary to Government.



Return of Traffic passed at the Royal Bridge near Thenpoor on the Road from Avenashy to Hongsheem from 7th to 17th January 1863 Vide Proceedings of Madras Government No 3023 dated 17th December 1862 and Divisional Engineers Order thereon No 250 dated 23rd December 1862

	Number of Foot Passengers	Coolies	Carts with Load	Horses Packed	Horses unpack'd	Carts Loaded	Carts Empty	Bullocks Packed	Bullocks unpack'd	Buffaloes	Camels	Inward Cattle	Elephants	Horses	Ironbodied	Palankeens	Jeggis	Sheep	Wheel Carriages
Road from Avenashy to Hongsheem	2584	468	388	352	674	539	548	845	447	30	"	41	"	205	1856	"	"	797	2
Road from Hongsheem to Avenashy	1729	565	840	796	588	569	478	847	407	"	"	32	"	178	1328	"	"	415	1

W. Sadler
District Engineer

Lt Col Reid
Executive

Coimbatore Range Office
10th March 1863.
A.H. Keller
Lieut & Asst Engr

This Return includes the whole of the traffic which passed the Royal Bridge from the 7th to the 17th Jany the traffic since Railway Station forms but a portion of it. Later returns show the traffic to & from

D. H. Reid Lieutenant RE
Acting Assistt Divl Engineer

Abstract of Goods taken on the Road from Ahmjeer to Palladum from 1st to 28th January 1863 Vide Superintending Inspector General's Circular No. 3023 dated 17th December 1862 and Government Notification No. 260 dated 25th December 1862.

	Articles	Ahmjeer to Pallaghaut	Pallaghaut to Ahmjeer	Ahmjeer to Pallaghaut	Pallaghaut to Ahmjeer	Ahmjeer to Pallaghaut	Pallaghaut to Ahmjeer	Ahmjeer to Pallaghaut	Pallaghaut to Ahmjeer	Ahmjeer to Pallaghaut	Pallaghaut to Ahmjeer	Ahmjeer to Pallaghaut	Pallaghaut to Ahmjeer	Total
	Number of Days Road was open for Traffic	28	28	28	28	28	28	28	28	28	28	28	28	
	Carts	195	82	5	245	28	533	211	101	"	"	"	"	1405
	Carts with Cotton	"	"	"	"	"	"	"	"	"	"	"	"	"
	Carts with Grain	"	"	"	"	"	"	"	"	"	"	"	"	"
	Carts with Salt	"	"	"	"	"	"	"	"	"	"	"	"	"
	Carts with Cattle	"	"	"	"	"	"	"	"	"	"	"	"	"
	Carts with Coal	"	"	"	"	"	"	"	"	"	"	"	"	"
	Carts with Timber	"	"	"	"	"	"	"	"	"	"	"	"	"
	Carts with Bamboos	"	"	"	"	"	"	"	"	"	"	"	"	"
	Carts with Sundries	"	"	"	"	"	"	"	"	"	"	"	"	"
	Carts with Cattle

Abstract of Monthly Returns of Labour employed on the Madras Road from Trengalum to Sherpoor from 1st to 28th January 1863

Statement showing Quantity of Stone broken by Prisoners Convicts Coolies and Peons employed on the 3023 daily Average Strength during the month of December 1862.

| | Trengalum to Sherpoor | | |

Return of Traffic Taken at Kongheim on the road from Kongheim to Railway Station at Shirpoor from 7th to 31st January 1863 Vide Proceedings Madras Government No 3023 dated 17th December 1862 and District Engineers Order thereon No 250 dated 23rd December 1862

	Transhipment for Carriage	Coolies	Do with Loads	Asses		Carts		Bullocks		Buffaloes	Camels	Country Cabins	Elephants	Horse	Men Loaded	Palankeen	Pigs	Sheep	Steel Carriage
				Pack	unpack	Loads	unload	pack	unpack										
From Kongheim to Railway Station at Shirpoor	3032	557	735	246	231	1666	1049	238	282	93	59	193	10	125	374	10	67	597	162
From Railway Station at Shirpoor to Kongheim	672	491	783	181	171	962	622	223	270	60	2	160	"	106	354	"	"	66	60

Coimbatore Range Office
10th March 1863

Lieut Colonel
District Engineer of Coimbatore

Colonel R.E.

J. H. Grail Lieutenant R.E.
Acting 2nd Class Asst D.E. Engineer

Returns of Traffic Taken at Avenashy on the road from Avenashy to Thirpoor from 1st to 24th February 1863
Vide Proceedings Madras Government No 3023 dated 17th December 1862 and District Engineers Order thereon No 250 dated 23rd December 1862

	Travellers foot passengers	Coolies	Doolies	Asses		Carts		Bullocks		Buffaloes	Camels	Cow & Calves	Elephants	Horses	Unloaded	Palanqueens	Pigs	Sheep	Wheel Carriages
				Pack	unpack	Loaded	unloaded	Pack	unpack										
From Avenashy to Thirpoor	237	29	175	25	35	127	144	56	82	8	"	4	"	28	129	1	20	57	55
From Thirpoor to Avenashy	495	65	173	84	40	294	104	94	32	33	4	40	"	28	105	17	6	17	109

Coimbatore Range Office
10th March 1863

Wm Walker Sub Lieut R.E.
Supt Engr 1st Div

Actg Executive Engr
District Engr of Coimbatore

Colonel Rob.t D. H. Pratt
Acting 1st Assist to Dist Engineer

Lieutenant R.E.

Returns of Traffic taken on the Road from Avenashy to Tiruppur
January 1863 & the Amount realized thereby & Date of Sanction
Order thereon &c &c dated 23rd December 1862

	Rice in the husk	Do cleaned	Ghee	Oil	Jaggery	Dholl	Paddy	Cotton unmanufactured	Cotton manufactured	Tobacco	Indigo	Coffee	Tea	Sugar	Salt	Piece Goods	Iron	Hardware	Cutlery	Glass	Earthenware	Timber	Bamboos	Firewood	Charcoal	Grain & Pulse	Sundries	Total Value	Amount of Toll
From Avenashy to Chennimalay	195	5	40	"	"	119	19	21	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	20	"
From Chennimalay to Tiruppur	104	"	21	"	"	107	5	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	19	15

Coimbatore Camp 18th Feb. 1863

Assistant Collector & Pt. Superintendent

10th March 1863. Millette. Overland Despatch from Coimbatore

Dated 19th March 1863. Received 20th March 1863. Chetty's Report Enclosed.

D P L

Ex. 12

From

The Asst. Collr. & Dy. Engineer

Coimbatore

To The District Engineer

Coimbatore

Dated 10th March 63.

Received

Return of Traffic Taken at Avenashy on the road from Avenashy to Tiruppur from 1st to 24th February 63

12 In a letter from Dy. Engr. of Coimbatore dated 1st April 63 No 583

To The Dy. Chief Engineer

Sir Arthur

D.P.J.

From

The Dy Asst Dir Engrs

Coimbatore

To The District Engineer

Coimbatore

Dated 10th } March 63.

Received

Returns of Traffic Taken

at Shirpoor on the road

from Railway Station to

Ringleeum from 1st to 28th

February 1863.

No 122.

Estimate for constructing Crossing No 3 proposed for the Pannaimandy Stream on the Road from Ranghiem to the Railway Station at Tripur

Sabbs	Nature of work	measurements in yds.			Area or Cubic Contents	Particulars of work.	Price			Rate per	Amount of each			Remarks	Increase or decrease	By whom recommended
											Article		Work			
		C.	B.	F.												
Ranghiem	Crossing	180	1	1⅓	256⅔	Excavating foundation to side walls.										
		80	0	1	480	D. for concrete bed.										
					746⅔	C. yds. earthwork at anna	—	1	—	C. yd.	46	10	8	/		
		180	2/3	1⅓	177⅔	D. side walls Ranghetore i.c. Chunam	2	8	—	—	444	7	1	/		
		80	0	3/4	360	D. Filling in with large and small stone, gravel &c. in Concrete.	2	8	—	—	900 720	—	—	139 1/2 / 111 1/2		
						Sundries								58		
														450 / 270		

Total Rupees.

Coimbatore Range Office
the March 1863.

D. Rose Lieut. R.E.
Asst. to Lieut. Col. Ritter
District Engineer of Coimbatore
Actg. 2d Assist. Dist. Engr.
Lieut. R.E.
Dept. Engrs &c.

Estimate
Lieut R.E.

12/268/63

(3)

In a letter from the
Supg. Engr & Dr. No. 29
dated 1st June 1863

To

The Secy. to Govt
P. P. Dy.
Madras

Engr. In a letter from Asst.
Engineer Coimbatore No
583 dated 1st April 1863.

To

The Deputy Chief Engineer
Southern Circle

P.W. 2039/63

No. 122.

Estimate for
Constructing a
Crossing No. 3.
across the Panamand
Stream on road from
Kongkinad to Erpur
Pags. 1270.

No. 121.

Estimate of the probable expense of Constructing a Tunnel of 2 Feet 4 × 4 on the Road from Mongicew to the Railway station at Trepoor.

Sales	Names of work	Measurement Ft	In	Fr	Cubical Contents	Particulars of work	Price	Paid	Amount of Each Article	Amount of Each Work	Explanation of the nature of Work	By whom recommended
		40	3¼	3	390	Foundation to abutments.						
		22	3¼	3	214½	Do to Piers.						
		12	2½	3	90	Do to Wings						
		1¼	1	4	5	Cubic Feet above.						
		40	2½	4	400	Abutments above.						
		20	½	¾	7½	Space between Each Covering stone.						
		20	2½	4	200	Piers above.						
		12	2	4	96	Wings above						
		87	2	1	74	Parapets.						
					1477	Cubic Feet Long stone in Chunam						
		24	1	¾	18	Deduct for the space occupied by Covering stone						
					1459	Cubic Feet Long stone in Chunam at	2	8	Rup	135 1 5		
		20	12	¾	180	Cubic Feet 6 6/9 Cubic Covering stone at	12	"	Do	80 " "		
		63	4	3	756							
		14	8	3	126	Excavation.						
					882	Cubic Feet 32 6/9 Cubic Earth at Rat	"	1	" Do	2 " 8		
		108										
		13	6	2	156	Cubic Feet filling in roadway at	"	2	" Do	19 " 8		
										236 2 9		
										Sundries at 5 per Cent		5 13 3
										Total Rupees	242 " "	
										Total for Ten Like Rupees	2420 " "	

Contractor

10th March 1863

D. R. Rail Lieutenant R.E.

Asst Engr Colonel R.E. 2d Assist District Engineer

District Engineer Examinator

Lieut R.E.

Dep. Engr 1st Div.

2d Asst R.E.

(3)

In a letter from the Engr. Engr & Surveyor No 29 dated 17 June 1863

To the Secretary to Govt. of Madras

(3)

In a letter from the Engineer & Surveyor No 583 dt 1 April 1863

To

The Deputy Chief Engr Asst Circle

P.W. 2089/63

(3) 121.

Estimate of the probable expense of Constructing a Tunnel of 2 Yards 4 x 4 on the road from Hangrieum to the Railway station at Trichinopoly Amount of Rs 1625-11-11

13/268/63

(3)

Rs. 350.

Estimate for Constructing Crossing No 1 proposed for the Poolam pettum stream on the road from Coimbatore to the Railway station at Eripoor in the Coimbatore District.

Dated 12th March 1863.

Name of Work	Measurements			Cubical Contents	Particulars of work.	Rate	Amount of Rate			Amount of Work			Explanations of the Figures in the Columns	Signatures
	Length	Breadth	Depth				Rupees	Annas	Pie	Rupees	Annas	Pie		
Poolampettum Causeway Crossing	44	1	1 2/3	78 1/3	Excavating foundation & side walls									
	22	6	1	132	Do for Concrete bed									
				205 1/3	Cyds Earth work	Cyd	1			12	18	4		
	44	2/3	1 2/3	48 8/9	Cyds roughstone in Chunam to side walls	Do	8			122	3	6		
	22	6	3/4	99	Do filling in road way with large and small stones gravel &c in Concrete	Do	2			198				
										333		10		
					Sundries					16	15	2		
					Total Rupees					350				

Coimbatore
10th March 1863

Examined
22nd 1863

Asst Asstr Colonel Rtc.
District Engineer Coimbatore

J. H. Nail Lieut RE
2d Assistant District Engr

S-DPW 21/2689/63

Encl. in a letter from the Superintending Engr. & Dr. No. 29 dated 17th June 1863

To

The Secretary to Govt. of P.W.D.

Madras

Encl. in a letter from Dist. Engr. of Coimbatore Dno. 583 dt. 1st April 1863.

To

The Deputy Chief Engr. - Southern Circle

P.W. 2089/63

(3)

No. 120.

Estimate of the probable expense of Constructing a roughstone Sunnel of 1 Vent 4×3 ft on the road from Pongeiur to the Railway station at Eachoor

Amount Rupees 635

14/2689/63

(3)

In a letter from the Supg. Engr. & Dr. No. 29 dated 17 June 1863.

To

The Secretary to Govt. of P.W.

Encl. in a letter from Dist. Engineer of Coimbatore No 583 Dated 1 April 1863

To

The Deputy Chief Engr. Southern Circle

P.W. 2089/63

No. 123.

Estimate for Contracting Coffering &c. proposed for the Poolampallam stream on the Road from Pongeiur to the Railway station at Eachoor Amounting to Rupees 350

37

Engr's Report Dec 1863.

No 120.

Estimate of the probable expense of Constructing a rough stone Tunnel of 1 Vent 4×3 feet in the road from Mongeesun to the Railway station at Erpoor.

Labour	Name of work	Measurement. No	ft	in	Cubic Contents	Particulars of work	Price	Rate	Amount of Each. Rupees	Annas	Pie	Explanation & Remarks	Estimate by whom
Contractors	Culvert or Rough Stone Tunnel	40	3/4	3	390	Foundations & abutments							Lieut Hall
		12	2 1/2	3	90	Do & Wings							
		40	2 1/2	3	300	abutments above							
		12	2	2'8	64	Wings above							
		24	1	2	48	Parapets							
					892	Cft of rough stone in Chunam							
		12	1	3/4	9	Deduct for the space occupied by Covering stone							
					883	Cft or 3 42/27 Cyds of rough stone in Chunam @	2	8	Rupees 81	12	1		
		20	6	3/4	90	Cft or 3 1/3 Cyds of Covering stone @	12	"	Do 40	"	"		
		42	4	3	504	Excavation for foundations							
		14	3	3	126								
					630	Cft or 23 1/3 Cyds of Earth work	4	1	Do 1	7	4		
		13	70/100 6	2	156	Cyards of facing road on both sides of Tunnel	"	2	Do 19	8	"		
						Sundries @ 2 per Cent				142	11	5	
										2	4	7	
						Estab				145	"	"	
						Estab for 3 Culverts Two Rupees				435	"	"	

Coimbatore
10th March 1863

D. H. Hall Lieut RE
2d assistant District Engineer

Lieut Colonel RE
Supt Engr 7th Div

Colonel RE.
District Engineer of Coimbatore

Ed 4th

S.P.W. 21/2683

(2)

In a letter from the
Superintending Engr
S. Dr. No. 29 dated 17th
June 1863
To
The Secretary to Govt.
P. W. Dept.
Madras

Encl.
In a letter from Dist.
Engr. of Coimbatore No.
583 dt. 1st April 1863.
To
The Deputy Chief Engr.
Southern Circle
P.W. 2039/63
(3)

No. 120.
Estimate of the probable
expense of Constructing
a Pongha stone Summit of 1
Yard 4×3 ft. on the road from
Pongreim to the Railway
station at Eripoor
Amount Estimate Rs. 435

14/2683/63

In a letter from the
Supy. Engr. S. Dr. No. 29
dated 17th June 1863
To
The Secretary to Govt
P. W. Dept.

(3)
Encl.
In a letter from Dist.
Engineer of Coimbatore
No 583 Dated 1st April 63

To
The Deputy Chief Engr.
Southern Circle

P.W. 2039/63

No. 123.
Estimate for Contracting
Crossing No 1. proposed for
the Porlamputtum stream
on the Road from Pongreim
to the Railway station at
Eripoor Amounting to
Rupees 350

more could be observed.-

The Estimate for the Tunnels will be considered on receipt of the information called for above—

Chelsea Barracks
3rd July 1865

The Royal Engineer 7th Division Depth 4th July

187

2

59

Pro. 15th Nov 62 No. 308-309
" 28 " 498-499
" 4th Dec 9-10
" 17 " 330-331
" 8th Feby 63 50-51

No. 40. 41.

Pro. 9th 1863 Depth
Pro. of Govt. 3rd July
No. 2039.

From
The Superintending Engr
7th Div.
(3)
To
The Secretary to Govt
P. P. W.
Madras

Dated 17th June 1863
Rec'd 26th "
No. 29

Encls. 16
No. 1746. 3rd July.

Submits an abstract estimate amounting to Rupees 6814-12-0 for repg the road from Tirpoor to Kulligherum with Kuccha Culverts and recommends an annual maintenance of Rs 3850 for the 3 Stations & riders converging at Tirpoor.

With an Order.

No. 1746.

The Superintending Engineer 7th Division will observe from Para 6 of the orders of the Government of India on the Budget of 1863/4 that the cost of the repairs of roads cannot be provided for from the Revenue unless on a special transfer of assignment to be authorized by the Government of India. (Recent) Should Colonel Walker will be good enough therefore to report in what other manner he would propose to make funds available for the maintenance of the roads referred to, if he is of opinion that the condition of the lines is such as would not warrant the postponement of the proposed outlay on them until the next official year.

It is observed that Colonel Duchterlony after personal inspection, reported that the road between Kulligherum and Tirpoor was in good order and that as a line of military communication he really did not know what

See Pro: of this Govt. 10th June 1863 No. 1492.

Vide Pro: 3rd Feby 63 No. 287.