MADRAS RECORD OFFICE

Government of Madras

DEPARTMENT

G.O. No. Press 1918.

Dated 15

Not to be folded or readily handled

No. 25. Read the following letter from Lieutenant-Colonel E. LAWFORD, Officiating Chief Engineer; to the Secretary to Government, dated 15th November 1858, No. 5425.

SIR,

1 One original letter No. 219 dated 6th October 1858, from the District Engineer Malabar.
4 Plans.
1 Abstract Estimate.
1 Survey.

Referring to Extract from the Minutes of Consultation under date the 17th July 1858, No. 1389, I have the honor to forward Plans, and a revised Estimate amounting to Rupees (88,830) eighty-eight thousand, eight hundred and thirty, for completing and bridging the Road from Calicut to Paulghaut via Moondoor, together with a Survey of the whole line.

2. From the total amount the balance Rupees 24,405 of the former estimate sanctioned in Extract Minutes Consultation 1st May 1858, No. 823, has been deducted in the revised estimate herewith forwarded, the work remaining only to be done has been entered, deduction having been made for that portion of the Road hitherto completed on the estimate, amounting to Rupees 52,083 sanctioned on the 1st June 1855.

3. The amount of the accompanying estimate may be considered excessive at first sight, but will not be considered so, when it is observed that it provides for the entire bridging and tunnelling of the line, not allowed for in the original one. Fair working rates have been allowed, taking into consideration the nature of the country through which the road passes, (in some parts South of Malliapooram dense jungle.)

4. The survey of the portion between Malliapooram and Calicut was undertaken when the original estimate was made, it is now continued to Paulghaut to render it more complete.

5. The former portion requires some Road Tunnels only, where several miles of unmetalled Road will be thrown open to Traffic.

6. The estimate for the Keelputty Bridge on this line is entered in the Budget as No. 419 of 1857-58 and therefore not included in the estimate herewith forwarded.

7. I have therefore now to solicit the sanction of Government for entry in the Budget for 1859-60 the accompanying estimate amounting to Rupees (88,830) eighty-eight thousand, eight hundred and thirty.

Letter from Lieutenant J. BEAN, District Engineer of Malabar; to the Officiating Chief Engineer, dated Poothoopaud 6th October 1858, No. 219.

SIR,

Extract of Proceedings No. 8187, dated 17th March 1858.
Do. No. 2595, dated 7th August 1858.
Memo. dated 8th September 1858.

With reference to the letters marginally noted received from your office, I have the honor to enclose Plans and Estimates amounting to Rupees 88,830 for completing and bridging road from Calicut to Paulghaut via Moondoor together with a survey of the whole line. To avoid further delay I have only sent one copy of the estimate, but a duplicate can be made if you will favor me with the original as soon as you have approved and submitted it for sanction to Government. I regret the delay in forwarding these documents, but it has been unavoidable owing to the illness of the Overseer who surveyed the line.

In the total I have deducted the balance of the former estimate Rupees 24,405 which has already been sanctioned for expenditure by Government in Extract of Minutes of Consultation No. 823 of 1st May 1858, and which I am now laying out on the road from Calicut to Malliapoorum. In this revised estimate the work remaining to be done only has been entered, deductions having been made for the road hitherto completed on the estimate of Rupees 52,083, sanctioned on the 1st June 1855.

I have allowed what I consider the fair working rates of the District, taking into consideration the nature of the country through which the road passes, which in some portions South of Malliapoorum is dense jungle. A few of the Tunnels and small bridges in the estimate are of

wood as some of the existing works on the line merely require repair, it may be however considered desirable to re-build them of latterite or brick in chunam especially as considerable traffic may be expected on this line when completed.

The survey of the portion between Malliapoorum and Calicut was undertaken when the original estimate was made, but I have continued it to Paulghaut so as to forward the whole in a complete state. This former portion only requires the road Tunnels to be built, when several miles of unmetalled road will be thrown open for traffic. The Kalpetty bridge at Paulghat on this line is entered in the Budget number 419 of 1857-58* therefore I have not included an estimate for it in the Appendix which I now forward.

* Government, January 25th 1856.

No. 26. ORDER THEREON, No. 2666; dated 8th December 1858.

Ordered that the eitimate of 88,830 Rupees submitted with the above letter for bridging and completing the road from Calicut to Paulghaut, via Mundoor, in the Malabar District, be entered in the Budget of 1859-60, in the Government Office.

2. It is observed that the Officiating Chief Engineer has been already asked to submit forthwith a sketch map in illustration of the above project.

(Signed) W. H. BAYLEY,
Acting Secretary to Government.

District Engineer's Office
Malabar
Poothoorpaud
6 Octr 1858

No 219.

From

The District Engineer of Malabar

To

The officiating Chief Engineer D. P. W.

Sir

With reference to the letters margi-
nally noted received from your Office
E of Pro No 8184 dated 17th March 1858 D: No 2595 dated 7th Augt 58 — I have the honor to enclose Plans and Estimates Memo dated 8th September 1858 amounting to Rupees 88,830 — for completing and bridging Road from Calicut to Paulghat via Moondoor together with a survey of the whole line. To avoid further delay I have only sent one Copy of the Estimate, but a duplicate can be made if you will favor me with the Original as soon as you have approved and submitted it for Sanction to Government. I regret the delay in forwarding these documents, but it has been unavoidable owing to the Heavy

illness of the Overseer who surveyed the Line.

In the total I have deducted the balance of the former Estimate Rupees 24,405—— which has already been sanctioned for expenditure by Government in Extract of Minutes of Consultation Nº 823 of 1st May 1858, and which I am now laying out for the Road from Calicut to Mallipooram In this revised Estimate the works remaining to be done only, have been entered, deductions having been made for the Road hitherto completed on the Estimate of Rupees 52.083. sanctioned on the 1st June 1855.

I have allowed what I consider the fair working Rates of the District, taking into consideration the nature of the Country thro' which the Road passes, which in some portions south of Mallapooram is dense jungle. A few of the Tunnels and small Bridges in the Estimate are of wood as some of the

5

existing works on the line merely require repair, it may be however considered desirable to rebuild them of latterite or brick in Chunam especially as considerable traffic may be expected on this line when completed.

The Survey of the portion between Mallipooram and Calicut was undertaken when the Original Estimate was made, but I have Continued it to Paulghaut so as to forward the whole in a Complete state. This former portion only requires the Road Tunnels to be built, when several miles of Unmetalled road will be thrown open for traffic. The Kalputty Bridge at Paulghat on this line is entered in the Budget number x Govt Sanc 25th 1856 1,19 of 1857 58. Therefore I have not included an Estimate for it in the Appendix which I now forward.

I have the honor to be
Sir
Your Most Obedient Servant
Signd J Beaver
District Engineer Malabar

Compd JR Roza

Central Office of P. W.
Fort Saint George 15th November
1858.

No. 5425.

From

The Officiating Chief Engineer

To

The Secretary to Government
Public Works Department

Sir

Public

Referring to Extract from the
Minutes of Consultation under date the 17th July 1858
No. 1389 I have the honor to forward Plans and
a revised Estimate amounting to Rupees (88,830)
eighty eight thousand eight hundred and thirty for
Completing and bridging the Road from Calicut
to Paulghaut via Moondoor, together with a Survey
of the whole line.

From the total amount the balance
Rupees 24,405 of the former Estimate sanctioned
in Exo: Mins: Cons: 4th May 1858, No. 823 has
been deducted in the revised Estimate herewith
forwarded, the work remaining only to be done has
been

Enclosures 7
1 One original Letter
No. 219 6th Oct. 58
from the Dy. Engineer
Malabar
1 Plans
1 abstract Estr.
1 Survey

been entered, deduction having been made for that portion of the Road hitherto Completed on the Estimate, amounting to Rupees 52,083 Sanctioned on the 1st June 1855

3 The amount of the accompanying Estimate may be considered excessive at first sight, but will not be considered so, when it is observed that it provides for the entire bridging and tunnelling of the line, not allowed for in the original one. Fair working rates have been allowed, taking into Consideration the nature of the Country through which the Road passes (in Some parts South of Malliapooram dense jungle.)

4 The Survey of the portion between Malliapooram and Calicut was undertaken when the original Estimate was made, it is now contemned to Paulghaut to render it more complete

5 The former portion requires Some Road Tunnels only, where Several miles of unmetalled Road will be thrown open to Traffic

6 The Estimate for the Kallipatty Bridge on this line is entered in the Budget as

7

as No. 19 of 1857/58, and therefore not included in the Estimate herewith forwarded

7 I have therefore now to Solicit the Sanction of Government for entry in the Budget for 1859/60 the accompanying Estimate amounting to Rupees (80,830) eighty thousand, eight hundred and thirty

I have the honor to be,

Sir

Your most Obedient Servant

Fort Saint George
15th November
1858
N N
S. E. Circle.

/Signed/ E. Lawford Lt. Col.
Officiating Chief Engineer

To

The Secretary to Government.

Compd. S. Z. Raza

Public Works 1858 Sept 27th Con 14th Dec

No 2751

From the Off Ch Engr

Dated 15th Nov 1858

No 5425

Public Works

to Rupees 52,083 stands entered and the 14th June 1859.

3 The amount of the accompanying Estimate may be considered exceptional at first sight, but will not be considered so, when it is observed that it provides for the ordinary budgeting and dismantling of the Line not allowed for in the ordinary Estimates. Similar works have been allowed, taking into consideration the nature of the country through which the Road passes, said some parts south of Mallinpooram and dense jungle.

4 The Survey of this Section between Mallinpooram and Cuttack and undertaken when the original Estimate was made, it is now considered to Embankment to render it more complete.

5 The lower portion required some Road Pencil only, where several Miles of mountainous Road will be traversed to Pregel.

6 The Estimate for the Tel-fundy Pregel on the Line is omitted in the Budget as the 4th of 85/86, and Pregel not included in the Estimate hereto forwarded.

7 I have therefore now to solicit the sanction of Government for entry in the Budget for 1859/60 the accompanying Estimate amounting to

12

to Rupees 88,530 eighty eight thousand eight hundred and thirty.

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

Fort St. George
the 5th March 1859

R.S.
A. D. de Gold

A. Campbell Lieut. Colonel
Officiating Chief Engineer

The Secretary to Government

Capt III

Public Roads (New Work)

Abstract of Estimate No. of 185 15

Road No.

District Malabar

Work Completing and Bridging Road from Palghaut to Calicut Via Moondoor

Quantities	Description of work	Rate	Amount	Amount for Each part	Total
		Rs. a. p.	Rupees	Rupees	Rupees
Cyds	Paulghaut.				
6039	Cyds Easy Soil @	1	377		
5555	do Hard do @	1 6	521		
3476	do Metalling @	4	869		
5	do Blasting Rocks @	3	15		
	Sundries		90	1872	
	1 Bridge No. 1 for Thombodo				
183	Cft Junglewood @	10	112		
	20 lbs of Iron nails @	2	3		
	Carpenter and Coolys hire for removing Old Bridge and replacing		10		
	Replacing and plastering Chu-nam for 2 abutments		5		
	Sundries		6	138	
	2 Bridge No. 2 Irruary Todo				
	Cft Junglewood @	10	355		
	lbs of Iron nails @	2	12		
	Center and Coolys hire		40		
	dries		20		
	Carried over				2

Bridge No. 2 Irruary Todo 6263
1 Bridge 1352
49048

Bridge No. 1 for Thombodo 6263
1352
49048

Copy Dated

Quantities	Description of work	Rate	Amount	Amount for each part	Total
Cyds		Rs a p	Rupees	Rupees	Rupees
	Brought over			2437	
	Tunnel No. 1				
304 6ft.	Datente in Chunam ₹100 ft.	10 " "	30		
	Plastering	" " "	1		
	Excavating foundation and Sundries		1	38	
	12 Tunnels No. 2.3.4.6.7.8.9				
	10.11.12.14 & 15 Same as No. 1 @	38 " "		456	
	Tunnel No. 5				
462 6ft.	Datente in Chunam ₹100 ft.	10 " "	46		
	Plastering	" " "	6		
	Excavating foundation & Sundries		5	57	
	2 Tunnels No. 13 and 16 Same				
	as No. 5 @	57 " "		114	
	Total Rupees for Ruttyhaud Talook				3102
	Walloowanaad				
16736	6yds Easy Soil ₹6yds	" 1 "	1046		
12953	do Hard do do	" 1 6	1211		
10238	do Metalling do	" 4 "	2560		
750	do Datente do	" 4 "	188		
6514	do Removing Rock do	3 " "	1964		
	Sundries	" " "	318	7327	
	Bridge No. 10 Jachampara Talo				
	Datente in Chunam ₹100 ft.	10 " "	233		
	Excavating foundation and				
	Raising approaches	" " "	1		
	Sundries				
	Carried over				

Quantities	Description of work	Rate	Amount	Amount for each part	Total
Cyds		Rs a p	Rupees	Rupees	Rupees
	Brought over			7574	3102
	Bridge No. 11 Thopanaad River				
6566 2	6ft. Bricks in Chunam ₹100 ft.	13 " "	8536		
18894	Sft. Plastering ₹ Square	2 " "	378		
1800	6ft. Cut Stones for facing to Piers				
	to abutments ₹ ft.	8 " "	900		
	Centering	" " "	600		
	Baling water	" " "	200		
	Approaches	" " "	160		
	Sundries		536	11250	
	Bridge No. 12. Arrecovery Talo				
1140	6ft. Datente in Chunam ₹100 ft.	12 " "	1441		
	Excavating foundation and				
	filling in		118		
	Sundries	" " "	7	159	11409
	1 Bridge No. 23 Same as above			159	
	Bridge No. 13. Nelly River				
22313	6ft. Bricks in Chunam ₹100 ft.	13 " "	2901		
6474	Sft. Plastering Sqrs	2 " "	129		
	Centering	" " "	150		
	Baling and approaches	" " "	150		
	Sundries		167	3497	
	Bridge No. 14 Condy River				
	Bricks in Chunam ₹100 ft.	13 " "	11917		
	Plastering Sqrs	2 " "	389		
	Cut Stones for facing Piers				
	and abutments ft.	8 " "	1116		
	Carried over		12552	226	

Quantities	Description of work	Rate	Amount	Amount for each part	Total
Cyds		Rs. As. P.	Rupees	Rupees	Rupees
	Brought Over		12552	22639	3102
	Excavating foundation	" " "	100		
	Centring and Backing to Haunches	" " "	800		
	Baling water	" " "	200		
	Approaches	" " "	100		
	Sundries	" " "	688	11,440	
	Bridge No. 15 Comaramparoor				
3825	Cft. Laterite in Chunam for Cft.	10 " "	382		
	Excavating foundation and				
	Raising approaches	" " "	10		
	Sundries	" " "	20	412	
	Bridge No. 16 Travoor Todo				
16121	Cft. Laterite in Chunam for Cft.	10 " "	1612		
5000	Sft. Plastering Sqd.	2 " "	100		
	Centring	" " "	100		
	Approaches & Haunches	" " "	150		
	Baling water	" " "	50		
	Sundries	" " "	100	2112	
	Bridge No. 19 Thodoor Capel				
	Todo Same as No. 16				
	Bridge No. 17				
	Cft. Laterite in Chunam for Cft.	10 " "	1		
	Excavating foundation & filling				
	Sundries				
	Bridge No. 38 Same as No. 17				
			Carried Over		

Quantities	Description of work	Rate	Amount	Amount for each part	Total
Cyds		Rs. As. P.	Rupees	Rupees	Rupees
	Brought Over			41997	3102
	Bridge No. 18				
1636	Cft. Laterite in Chunam for Cft.	10 " "	163		
	Excavating foundation and filling		6		
	Sundries		9	178	
	Bridge No. 20 Capel Todo				
2722	Cft. Laterite in Chunam for Cft.	10 " "	272		
	Excavating foundation & filling	" " "	10		
	Sundries	" " "	14	296	
	Bridge No. 21 Valaccorichy Todo				
1554	Cft. Laterite in Chunam for Cft.	10 " "	155		
	Excavating foundation & filling	" " "	8		
	Sundries		8	171	
	Bridge No. 22 Coothyparayil Todo				
768	Cft. Laterite in Chunam for Cft.	10 " "	77		
	Excavating foundation & filling	" " "	4		
	Sundries		4	85	
	Bridge No. 24				
2303	Cft. Laterite in Chunam for Cft.	10 " "	230		
	Excavating foundation & filling	" " "	7		
	Sundries	" " "	12	249	
	3 Bridges No. 28. 32 and 34				
	each as No. 24	249 " "		747	
	Bridge No. 25				
	Cft. in Chunam for Cft.	10 " "	258		
	& foundation & filling	" " "	9		
	Cft.	" " "	13	280	
	Bridge No. 26 Same as No. 25			280	
			Carried Over	44283	3102

Quantities	Description of work	Rate	Amount	Amount for each part	Total
Cyds		Rs. A. P.	Rupees	Rupees	Rupees
	Brought Over			44283	3102
	Bridge No. 29				
1116	Cft. Laterite in Chunam @ 100 Cft	10 . .	112		
	Excavating foundation & filling	" . .	4		
	Sundries	" . .	6	152	
	Bridge No. 29 Over Paddy field				
2511	Cft. Laterite in Chunam @ 100 Cft	10 . .	251		
316	Ds. Jungle wood @ Cft	" 8 "	158		
	Nails	" . .	8		
	Carpenters hire	" . .	115		
	Approaches	" . .	50		
	Sundries	" . .	26	538	
	Bridge No. 30				
707	Cft. Laterite in Chunam @ 100 Cft	10 . .	71		
	Excavating foundation	" . .	3		
	Sundries	" . .	3	77	
	Bridge No. 31				
1568	Cft. Laterite in Chunam @ 100 Cft	10 . .	157		
	Excavating foundation & filling	" . .	6		
	Sundries	" . .	7	170	
1	Bridge No. 36 Same as No. 31			170	
	Bridge No. 33				
813	Cft. Laterite in Chunam @ 100 Cft	10 . .	81		
	Excavating foundation & filling	" . .			
	Sundries	" . .			
	Bridge No. 35				
569	Cft. Laterite in Chunam @ 100 Cft	10 . .			
	Excavating foundation & filling	" . .			
	Sundries	" . .			
	Carried Over				

Quantities	Description of work	Rate	Amount	Amount for each part	Total
Cyds		Rs. A. P.	Rupees	Rupees	Rupees
	Brought Over			45547	3102
	Bridge No. 37				
1357	Cft. Laterite in Chunam @ 100 Cft	10 . .	136		
	Excavating foundation & filling	" . .	4		
	Sundries	" . .	6	146	
	Bridge No. 39				
1110	Cft. Laterite in Chunam @ 100 Cft	10 . .	111		
110	Ds. Jungle wood @ Cft	" 8 "	55		
	Excavating foundation	" . .	3		
	Nails	" . .	2		
	Carpenters hire	" . .	12		
	Sundries	" . .	11	224	
	Bridge No. 40				
1464	Cft. Laterite in Chunam @ 100 Cft	10 . .	146		
162	Ds. Jungle wood @ Cft	" 8 "	81		
	Excavating foundation	" . .	4		
	Nails	" . .	3		
	Carpenters hire	" . .	19		
	Sundries	" . .	13	266	
44	Tunnels Same as No. 1 @	38 . .		1672	
4	Ds. Same as No. 5 @	57 . .		228	
13	Same as No. 21 @	31 . .		403	
	Tunnel No. 39				
51	Laterite in Chunam @ 100 Cft	10 . .	57		
	ing	" . .	6		
	ung foundation & Sundries		5	68	
	Tunnels Same as No. 39 @	68 . .		1632	
	Carried Over			50186	3102

Quantities	Description of work	Rate	Amount	Amount for Each part	Total
Cy[ds]		Rs. A. P.	Rupees	Rupees	Rupees
	Brought over			50186	3102
	Tunnel No. 98				
689 Cft.	Laterite in Chunam Juft	10 . .	69		
	Plastering	" . .	6		
	Excavating foundation & Sundries	" . .	6	81	
	Tunnel No. 116 Same as No. 98			81	
	Total Rupees for Hallawwanda Block				50348
	Nedungamaad				
34223 Cy[ds]	Easy Soil	Cy[ds] " 1 "	2139		
9840	Do. Hard Do.	Do. . 1 6	922		
12911	Do. Metalling	Do. . 4 "	3228		
429	Do. Laterite	Do. . 4 "	107		
18¼	Do. Removing Rock	Do. 3 . "	55		
	Sundries	" . .	323	6774	
	Bridge No. 3				
	Poolliampully Jodo				
9902 Cft.	Laterite in Chunam Juft	10 . .	990		
708	Do. Junglewood	Cft. " 10 "	443		
	Iron nails	" . .	8		
	Carpenters hire	" . .	75		
	Approaches	" . .	20		
	Sundries	" . .	76	1612	
	Bridge No. 1				
	Valathe Jodo				
4020 Cft.	Laterite in Chunam Juft	10 . .			
224 Cft.	Junglewood	Cft. " 10 "			
	Nails	" . .			
	Carpenters hire & Roadway	" . .			
	Sundries	" . .			
	Carried over				

Quantities	Description of work	Rate	Amount	Amount for Each part	Total
Cy[ds]		Rs. A. P.	Rupees	Rupees	Rupees
	Brought over			9002	53450
	Bridge No. 5				
	Kaingapandum Jodo				
5051 Cft.	Laterite in Chunam Juft	10 . .	505		
363 Cft.	Junglewood Cft.	" 10 "	227		
	Nails	" . .	7		
	Carpenters hire & approaches	" . .	60		
	Sundries	" . .	40	839	
	Bridge No. 6				
	Surrakle Jodo				
26704 Cft.	Bricks in Chunam Juft	13 . .	3472		
8109 Sft.	Plastering Sft.	2 . .	162		
	Centring and Baling water	" . .	100		
	approaches and Scaffolding	" . .	100		
	Sundries	" . .	206	4340	
	Bridge No. 7				
	Alumpade Jodo				
1140 Cft.	Laterite in Chunam Juft	10 . .	114		
	Excavating foundation and filling in	" . .	8		
	Sundries	" . .	7	159	
	Bridge No. 12 Same as No. 7			159	
	Bridge No. 8				
	Rootkeyad Jodo				
3475 Cft.	Laterite in Chunam Juft	10 . .	347		
	ing foundation and				
	proaches	" . .	10		
	s	" . .	18		
				375	
	Carried over			14874	53450

Quantities	Description of work	Rate	Amount	Amount for Each part	Total
		Rs. A. P.	Rupees	Rupees	Rupees
Cyt.					
	Brought over		14874	53450	
	Bridge No. 9				
	Moolchen Todo				
5686	Cft. Laterite in Chunam Jwo Cft.	10	569		
464	Cft. Junglewood Cft.	10	292		
	Carpenters hire		45		
	Nails		8		
	Excavating foundation and				
	raising approaches		20		
	Sundries		16	980	
	Bridge No. 11				
	Codelangadaly River				
125649	Cft. Bricks in Chunam Jwo Cft.	18	16334		
24113	Sft. Plastering Sft.	2	482		
24118	Cft. Cut Stone facing to Piers &				
	abutments Cft.	8	1224		
	Centring		950		
	Approaches		100		
	Baling waters		200		
	Sundries		965	20255	
	2 Bridges No. 43 & 45 Same				
	as No. 31 &	170		340	
	Bridge No. 44				
3264	Cft. Laterite in Chunam Jwo Cft.	10	326		
218	Do. Junglewood Cft.	8	109		
	Approaches				
	Nails				
	Carpenters hire				
	Sundries				
	Carried over				

Quantities	Description of work	Rate	Amount	Amount for Each part	Total
		Rs. A. P.	Rupees	Rupees	Rupees
Cyt.					
	Brought over			36995	53450
	Bridge No. 46				
5745	Cft. Laterite in Chunam Jwo Cft.	10	574		
	Centring		50		
	Approaches		50		
	Sundries		34	708	
	Bridge No. 47				
1871	Cft. Laterite in Chunam Jwo Cft.	10	187		
	Excavating foundation		5		
	Sundries		10	202	
	Bridge No. 48 Same as No. 47			141	
	Do. Do. 49 Do. Do. 27			152	
	Bridge No. 50				
1358	Cft. Laterite in Chunam Jwo Cft.	10	136		
	Excavating foundation		5		
	Sundries		7	148	
	Bridge No. 51				
2301	Cft. Laterite in Chunam Jwo Cft.	10	230		
	Excavating foundation and				
	Baling waters		10		
	Sundries		13	283	
	Bridge No. 52				
2956	Cft. Laterite in Chunam Jwo Cft.	10	295		
	Baling water and Earth				
	work		50		
	ries		16	361	
	Bridge No. 53				
	lewood Cft.	8	28		
	nd Carpenters hire Jwo		1		
	es		2	31	
	Carried over		39021	53450	

Quantities	Description of work	Rate	Amount	Amount for Each part	Total
Cyds		Rs. As. P.	Rupees	Rupees	Rupees
	Brought over			39021	53450
	Bridge No. 54				
44	Cft. Jungle wood Cft.	" 8 "	22		
	Nails and Carpenters hire &c.	" " "	2	24	
	Bridge No. 55				
52	Cft. Jungle wood Cft.	" 8 "	26		
	Nails and Carpenters hire &c.	" " "	1	27	
	Bridge No. 56				
1678	Cft. Laterite in Chunam Mortar Cft.	10 " "	168		
	Excavating foundation and filling	" " "	5		
	Sundries	" " "	8	181	
	18 Tunnels Same as No. 1 &	38 "		684	
	Tunnel No. 21				
245	Cft. Laterite in Chunam Mortar Cft.	10 " "	24		
	Plastering	" " "	3		
	Sundries	" " "	4	31	
	6 Tunnels Same as No. 21 &	31 "		186	
	Tunnel No. 122				
501	Cft. Laterite in Chunam Mortar Cft.	10 " "	50		
	Plastering	" " "	4		
	Sundries	" " "	4	58	
	Tunnel No. 134 Same as No. 122			58	
	2 Tunnels Same as No. 98 &	81 "		162	
	2 Do. Same as No. 39 &	68 "		136	
	2 Do. Same as No. 5 &	57 "			
	Tunnel No. 136				
758	Cft. Laterite in Chunam Mortar Cft.	10 "			
	Plastering	"			
	Excavating foundation and				
	Sundries	"			
	Carried over				

Quantities	Description of work	Rate	Amount	Amount for Each part	Total
Cyds		Rs. As. P.	Rupees	Rupees	Rupees
	Brought over			40768	53450
	Tunnel No. 138				
1029	Cft. Laterite in Chunam Mortar Cft.	10 " "	103		
	Plastering	" " "	5		
	Excavating foundation &				
	Sundries		7	115	
	Total Rupees for Nedingamaud Valley				10883
	Nimaad				
1,350	Cyds Easy Soil	Cyds " 1 "	272		
1578	Do Hard Do	Do " 1 6	1118		
908	Do Metalling	Do " 1 "	224		
175	Do Removing Rock	Do " 3 "	525		
	Sundries		57	1229	
	Bridge No. 57				
66	Cft. Jungle wood	Cft. " 8 "	33		
	Nails and Carpenters hire		2	35	
	Bridge No. 58 Same as No. 57			35	
	Do Do 59 Do Do 54			21	
	Bridge No. 60				
	Cft. Jungle wood	Cft. " 8 "	31		
	Nails Carpenters hire &c	" " "	2	33	
	Bridge No. 61 Same as No. 60			33	
	Do Do 62 Do Do 55			27	
	Carried over		1416		91333

Quantities	Description of work	Rate		Amount	Amount for each part	Total
Cft.		Rs.	A.	P. Rupees	Rupees	Rupees
	Brought Over				1416	94333
	Tunnel No. 140 Same as No. 93				81	
	Do. No. 141 Do. No. 5				57	
	Do. No. 142 Do. No. 4				38	
	Do. No. 143 Do. No. 122				58	
	Total Rupees for Sherawad Talooka					1650
	Sherawad					
27338	Cft. Easy Soil Cft.	..	1	..	1709	
10245	Do. Hard Do. Do.	..	1	6	960	
5516	Do. Mekalling Do.	..	1	..	1381	
333	Do. Talende Do.	..	1	..	83	
231	Do. Removing Rocks Do.	3	..	..	693	
	Sundries	..	..	..	211	5077
	Bridge No. 63					
140	Cft. Junglewood Cft.	..	8	..	70	
	Nails	..	..	6	2	
	Carpenters hire	..	..	..	5	
	Sundries	..	..	..	2	79
	Bridge No. 64 Same as No. 55					27
	Do. No. 65 Do. No. 54					
	Bridge No. 66					
50	Cft. Junglewood Cft.	..	8	..	25	
	Nails Carpenters hire &c.	..	..	..	1	
	Carried Over					

Quantities	Description of work	Rate			Amount	Amount for each part	Total
Cft.		Rs.	A.	P.	Rupees	Rupees	Rupees
	Brought Over					5240	95983
	Bridge No. 67 Same as No. 53	..	..	..	..	31	
	5 Bridges Same as No. 81 &	170	..	..		850	
	4 Do. Do. No. 17 &	141	..	..		564	
	1 Bridge No. 73	..	..	..		241	
	Bridge No. 74						
1764	Cft. Talette in Chunam Mortar Cft.	10	..	..	176		
168	Do. Junglewood Cft.	..	8	..	84		
	Nails and Carpenters hire	..	..	..	13		
	Sundries	..	..	..	13		
						287	
	Bridge No. 77 Same as No. 50					148	
	Tunnel No. 144 Same as No. 98					81	
	Do. No. 145 Do. No. 5					57	
	2 Tunnels No. 146 and 147 Same as No. 1 &	38	..	..		76	
	Total Rupees for Sherawad Talooka						7575
	Total for five Talookas						103558
	Survey Jungle, Extra Establishments and Sundries						5177
	Carried over						108735

Quantities	Description of Works	Rate			Amount	Amount for each part	Total
Cy.ds.		Rs.	A	P	Rupees	Rupees	Rupees
	Brought Over						108735
	Compensation for Lands						4500
	Grand Total Company's Rs						113235
	Deduct Amount remaining from former Estimate already Sanctioned by Government on M.O. Consultation No. 8230 Dt. 1st. May 1858						24405
	Total Company's Rupees Requiring Sanction						88830

Central Office of P.W.
Fort Saint George
15th Nov.r 1858

Lawford Lieut.t Colo.
Officiating Chief Engineer
P.W.

K.

Enclosure

Ina

From

The Offg Chief Engr
2 Nov 58.

To

The Secretary to Govt
2 Nov 58.

MR 2751/58

Dated 15th } Nov 58
Received }

No 5425

Abstract of the
revised Estimate
plenyard
Road from Cal
Shaw & Via Im
Abstract of the
Bridges & Cul

No. 2666. 3 P.W.D.

Extract from the Minutes of Consultation
Under date the 8th December 1858.

Read the following letter
from the Offg Chief Engineer.
(Received 15th November 1858 No 5425)

Ordered that the
estimates of 28 & 30 Rs sub-
mitted with the above letter
for bridging and completing
the road from Calicut to Paul-
ghaut, via Mundoor, in the
Malabar District, be entered
in the Budget of 1859/60 in
the Fort Office.

It is observed that the
Offg Chief Engr has been al-
ready asked to submit for the
sketch map in illustration
of the above projects.

WRB

10 Copies to the Offg Chief Engr.
Dated 9th.

P.W. Mem. 20 July/58 No 62-63
" 4 Aug — 62-63
" 6 July/58 — 45 & 48

Public Works Dept
Dr to Govt of Ceylon

No 2666.

Extract Minute of Govt.
8 Decr/58
From the Chief Engineer dated 19th
January/59 & Act of 30 Ditto

Sanctioning for entry in the Budget of 1859-60 the Estimate of Rupees 33330 for bridging and completing the road from Kalmunai to Pilgrimtavalai — Mundoor in Batticaloa.

Dec 1858