M.R.O. 1—77,000—8-6-31.

(1) Number of pages 20

(2) Date of repair 29. 9. 1942

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

PUBLIC WORKS DEPARTMENT.

G.O. No. 1702 Press/Mis.

233-234

Dated 16-6- 1864.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 10th June 1864.

No. 233. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Coimbatore, 27th May 1864, No. 10 :—

SIR,

1. In forwarding the Statement of unfinished works of the Canara District for the year 1863-64, I take the opportunity of submitting for sanction revised Estimates for the undermentioned bridges on the road below Munjerabad Ghát, viz. :—

		Rs.
Plan and Estimate.	1. Re-construction of the Cabbinhalla bridge...	5,272
Estimate.	2. Conkerady bridge	2,260
Plan and Estimate.	3. New platform to Cujikar bridge	750

2. The first work is one for which an Estimate of Rupees 2,400 was sanctioned, and funds allotted in G. O. No. 98 of 14th January 1863 for the re-construction of a new timber platform ; but the monsoon of 1863-64 not only led to the necessity of re-building one abutment and one pier from the foundations, but showed the propriety of raising the whole structure 4½ feet for better security from floods. It is proposed also to face the up-stream cut-waters with granite. These papers were not earlier submitted because from the difficulties of getting work done it seemed likely that the funds already in hand would not be exceeded.

3. No. 2 is to cover an excess of Rupees 420 over the original sanction of Rupees 1,840 (portion of Rupees 9,040 in Government Order No. 2,134 of 6th September 1862), which is due to deterioration of stone and to unadjusted advances to Stone-cutters, in the proportion of Rupees 220 to the former and Rupees 200 to the latter cause, for which Lieutenant Fraser and his Overseer Parthasarthy Naidoo are both liable without excuse. A considerable saving (Rupees 673) was however effected by them in the construction of the Goletattoo bridge, the first of the set comprised in this sanction, and I am inclined partly to attribute such saving and the excess now reported to their having confused the accounts of the two works. As no excess will be incurred on the gross original allotment I think leave may be given to write off the irrecoverable advances to "profit and loss" and sanction be accorded for the revised amount.

4. The third work is one for entire re-construction, of which Government accorded a sanction of Rupees 2,560 in their Order No. 2,816 of 24th November 1862. For this, by my advice, was substituted a smaller work costing only Rupees 436 under a sanction conveyed in Government Order No. 443 of 28th February 1863. When last over the line with Lieutenant Filgate I found that additional expenditure must necessarily be incurred for a new platform, which I directed him to undertake from funds already at his disposal and for which I now request that the sanction of Government may be accorded. The total expenditure incurred will have been much less than half that which was originally contemplated and sanctioned.

No. 234. ORDER THEREON, 10th June 1864, No. 1,702.

1. Under the explanation afforded, the Government sanction the revised Estimate of Rupees 5,272 for the bridge across the Cabinhalla river in the District of South Canara.

2. As regards the expenditure of Rupees 420 incurred in excess of the sanctioned Estimate of Rupees 1,840 for the Conkerady bridge, the Government note the Superintending Engineer's opinion that such excess is due in some measure to the accounts of the work having been confused with those for the Goletattoo bridge, on which a considerable saving is shown to have been effected. As the aggregate of the Estimates for these two bridges will not be exceeded, the Government authorize the writing off of the sum of Rupees 420 to "profit and loss." This mode of adjustment will render the sanction of the revised Estimate submitted, unnecessary.

3. The revised Estimate of Rupees 750 for the re-construction of the dilapidated bridge over the Nulla a mile east of Upinangadi on the Munzerabad road, is sanctioned. It is observed that Colonel Walker has authorized this work being undertaken from funds at Lieutenant

Proceedings of the Madras Government, Public Works Department, 10th June 1864.

Filgate's disposal. Information should be furnished as to the particular allotments from which the necessary funds have been obtained. It will be observed on reference to the Orders noted in the margin, that savings on grants specifically made for works entered in the Budget, cannot be appropriated to works not originally included therein. The Superintending Engineer will, in replying to these Proceedings, report whether the diversion of the funds referred to or any portion thereof, was authorized subsequent to the promulgation of the orders in question.

G. O. 9th May 1864, No. 1,340.

4. The list of incomplete works submitted will be separately disposed of.

(True Extract.)

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

To the Superintending Engineer, 7th Division.
„ Controller and Auditor of Public Works Accounts.
„ Accountant General.

Exd. S. T, Augustin.

Superintending Engr's Office
Fk. Coimbatore 2d May 1864.

From,

Lieut Col. C. W. Nasher R.E.
Supg Engineer Seventh Circle
Colonel C.A. Orr R.E.
Secretary to Govt P.W.

Sir,

In forwarding the Statement of unfinished works of the Canara District for the year 1863-64, I take the opportunity of submitting for sanction Revised Estimates for the undermentioned Bridges on the Road below Munzerabad Ghaut, Viz.—

Plan & Estimate. 1/ Reconstruction of the Aubbin Holay Bridge. ——— Rupees—272

Estimate. 2/—Conkeredy Bridge ——— " ——— 2260

Plan & Estimate. 3—New Platform to Mujikar Bridge — 755

No 1 work is one for which an Estimate of Rupees 2,400 was sanctioned and funds allotted, in C.C. No 98 of 14th January 1863 for the Reconstruction of a New Timber Platform, but the Monsoon of 1863-64 not only led to the necessity of rebuilding one abutment & one Pier from the foundations, but showed the propriety of raising the whole Structure 1½ feet for better security from floods. It is proposed also to pave the upstream waterway with granite—

These papers were not earlier submitted because

from the difficulties of getting work done if
secured little than the funds already in hand
would not be exceeded.—

Rs 2 is to cover an excess of Rupees 420
over the original sanction of Rupees 1580 (section
of Rupees 1940 in Government Order No 218 -
dated 6th September 1862), which is due to Serjeant
Station of stone and 5 unskilled labourers
& Stone Cutter, in the proportion of Rupees
220 to the former and Rupees 200 to the latter
Cause for which Lieutt Fraser and his Corps
Pathan artillerymen are both liable without
excuse— a Considerable saving (Rupees 578)
was however effected by them in the Construc-
tion of the Goleratto Bridge, the first of the
last comprised in this sanction, and I am
inclined partly to attribute such saving
and the excess now reported to their having
confused the amounts of the 2 sanctions— as
no excess will be incurred on the 2nd objects
allotment should have may be given credit
off the irrecoverable remainder of Captain's offi
and sanction be accorded for the Revised
Amount.—

No 3
is for the work is one for the same
Station for which Government accorded
a Sanction of Rupees 2800 in their Order

5 R.

No 2816 of 24th November 1862— for this, by
my advice, was substituted a smaller work
costing only Rupees 436 under a sanction
conveyed in Govt Order No 443 of 20th Feb: 63
When last over the line with Lieutt Filgate
I found that additional Expenditure must
necessarily be incurred for a new platform
which I directed him to undertake from funds
already at his disposal, and for which
I now request that the sanction of Govt
may be accorded— The total Expenditure
incurred will have been much less than
half that which was originally contemplated
and sanctioned.—

I have the honor to be
Sir
Your most Obedt Servant

Lieut & Adjt R.E.
Supg Engineer 5th Division

Detailed Estimate No of 1863/64

of an amt

for Engr. Constructing Ferkready Bridge on the 11th Mile of the road from Upsinangjaoy to Munzeradad.

Particulars of works.	Measurements No.	L.	B.	Contents
Foundations to 2 abutments	48	5	5	1200
Ditto to 4 wingwalls	62	5	4	1240
Two Abutments	44	3	4	528
	62	5	3½	1085
Two wingwalls	62	5½	2¼	937½
	62	5½	2	682
Backing to Arch	36	3	3	324
Face walls	36	1	5	180
Hacking Courses	44	3¼	1½	214½
Inner retaining walls	124	1	1½	186
Parapets	46	3	3	414
Solidity in chunam Cft	124	2	3¼	186
One Arch Solidity in chunam ditto	34	13¼	21	7177½
Flooring rough granite in mud ditto	23	22	3	1240½
Centering				1380
Plastering under Arch	34	21		1550
Ditto Abutments	42	3		714
Ditto wing & face walls	80	15		1200
Parapets	248	2½		620
Plastering with 1 Coat of chunam				2660
Excavating				1096
Filling up wings & approaches				15740
Earthworks Cubic feet				26436

Assistant Engineer
in Canara
Mangalore 23rd January 1864

Alex. J. Fleyate Lieut. R.E.
Assistant Engr.
in Canara

Executive Engineer Lieut. Col. R.E.
in Canara

Dist. 14th July 1862 to 1927-1932

Estimate Detailed Estimate
for Engineering Works
Bridge No. 2440
on the Upsinangjaoy & Munzeradad
Road

Dated 29th May 1864.

Rec'd 1902 - 10th June 1864 -
Rec'd 5

Remarks

Estimate of Engineering Works of Cross Bridge No 2440 on the 11th Mile of the road from Upsinangjaoy to Munzeradad.

Executive Engineer's Estimate
Bridge No 2440
1864.

Dr. 2883.

Canara 16 Dec. 64

Revised 9.13.

Abstract Estimate No 1 of 1863/64

South Canara

Works. Constructing Cockady Bridge on the 11th/12th Mile of the road from Upinangady to Munzerabad.

Quantity	Description of work.	Rate	Amt	Total
7777¼	Cubic ft of Laterite in chunam per 100 ft	20	..	1425 72
1249½	Ditto of Arch work ditto ditto	20	..	249 14
1330	Ditto of rough granite in mud ditto	7	..	96 97
1330	Ditto of Centering ditto	6	..	75 ..
2660	Sq ft of plastering per Sq yd	3	..	79 12
24133	Cubic ft of earthwork per 100 cft	..	7	115 10 8 / 2032 5 6
	Sundries			20 13 2 / 591
				2260 ..
	Deduct amount of Estimate sanctioned in Govt order No 2134 Dated 6th September 1862			1840 ..
	Net amount now requiring sanction			420 ..

Recd for Rangers Pay
& Sundries
Bellary 23rd January 1864

Alex. J. Elliott Lieut RE
Actg Assistt Engineer
South Canara

Lieut Col RE
Supg Engr 7th Division

Lieut

Lieut Col RE
Supg Engr 7th Div

Received
from
The Supt. Engr. 7. Divn.
To the Secy. to Govt. P.W.D.
No. 2010
Madras
Dated 27th May 1864.
Recd. 8 May 1864.
P.W. 2440/64
Estimate No. of 1863/64
South Canara
Work. Constructing
Constructing Bridge
on the 4th mile of
the road leading to
.....
420.0.0
Rs. 0.0.

11.13.

Detailed Estimate No. of 1863/64

South Canara

Work: Constructing a new Timber Platform over the [illegible] River Bridge on the Mungerabad Road

Particulars of Work	Measurements L.	B.	D.	No.	Cubic Ft.
Girder Beams	32½	8"	1'	12	257 [illegible]
Sleepers	11'	8"	1'	6	44 [illegible]
Ditto	7½	8"	1'	12	60
Struts &c.	4½	8"	8"	24	69 [illegible]
Joists	17	3"	4½"	14	30 [illegible]
Ditto	28	3"	4½"	10	21 [illegible]
Posts	3'	3"	4½"	20	5 5/8
Braces ditto	4½	3"	2"	40	7 1/2
Cap Rails	64½	3"	4"	2	10 13/16
Lower ditto	64½	3"	2"	4	10 [illegible]
					517 23/288
Wastage					73 265/288
Total jungle wood Cubic ft.					591
Planking	64½	17	1½	-	136 [illegible]
Wastage					27 [illegible]
Total Jungle wood planking C.ft.					164.

Abstract Estimate No. of 1863/64

South Canara.

Work: Constructing a new Timber Platform over the [illegible] River Bridge in the Mungerabad Road.

Quantity	Description of Charges	Rate			Amount			Total		
591	Cubic feet of 2nd [sic] jungle wood — P. c.ft.	1	2	-	664	14	-			
164	Ditto of ditto planking — Ditto	1	6	-	225	8	-			
	Sundries and Superintendence				59	10	-	950	-	-
	Total Rupees							950	-	-
	Deduct value of old Timber							200	-	-
	Nett amount requiring Sanction							750	-	-

Coolor Range Office
South Canara
Oopinangady 20th Feby 1864

Alex. J. [illegible] Lieutt. R.E.
Assistant Engineer South Canara

[illegible] Walker Lieut. Col. R.E.
[illegible] 27th Do.

The Revenue Secretary
South Canara
From The Collector
No.
The Supply Dept. ... Dr.
Dated 27 May 1844
Recd. ...
DW 240/64

Detailed Estimate of 1864/65
Works Rebuilding ... Cubbinholly Bridge ...
750

Repairs — Communications

1313

Detailed Estimate No. of 1864/65

South Canara

Work Rebuilding and Weightening one Pier and one Abutment and Weightening two Piers & one Abutment of the Cubbinholly Bridge

Particulars of Work.	Measurements L	D	B	No.	Contents
Masonry	21¾	19½	5	1	2120⅝
Rebuilding one Pier with Abutments	21¾	4½	5	2	978¾
Weightening Piers with Ditto	25	17½	6 7/16	1	3138 9/32
Rebuilding one Abutment	25	4½	5 3/16	1	653 29/32
Weightening one Ditto	13	1	5	3	195
Blocking Course to Pier	112½	1	1½	..	~~168¾~~
Ditto to Abutments & Wingwalls	3	5	5	1	75
	3	5	4	1	60
	6	5	5	1	151
	6	5	4	1	120
Wing Walls	3	5	3	1	45
	24	4½	2½	1	270
	6	5	3	1	90
	18	4½	2½	1	202½
	27 2/48	4½	2½	2	611 23/32
Parapets	108¾	2½	1	.	271 7/8
Total					9153 13/32
Deduct for corners of Abutments	409½				638¼
Ditto for Cut granite facing to Cutwaters	228¾				8515 5/32
Total Cubic feet in Chunam C ft.					635 7/..
Pointing Sqr. feet					55 7/..
Earth Work C yds.					57..
Cut Granite facing to Cutwaters C ft.					
Wood Work.	28	13½	9	22	[illegible]
Junglewood Beams	18	13½	9	18	273-4-..
Sleepers	9	13½	9	12	91-1-6
Ditto	8½	9	9	48	229-6-..
Struts	17	4½	3	46	71-8-7½
Joists	23	4½	3	23	49-7-1½
Ditto	3	4	3	46	11-6-0
Posts	4½	4	3	46	17-3-..
Struts to Ditto	304	4	3	-	25-4-..
Upper Rails	608	3	2	.	25-4-..
Lower Ditto					
Carried over					1534-2-9

Brought over					151
Wastage					223-7-3
Total Jungleword & Cubic feet					1738
Plantings	152	11	17		323
Wastage					64
Total Jungleword & Plantings Cubic feet					387

Portion Range Office
South Canara
Camp Bellaringeroy 21st January 1864.

Alex. J. Fleet Lieutenant R.E.
Assistant Engineer South Canara

Repairs

Communications

Abstract Estimate No. of 1864/65.

South Canara

Work. Rebuilding & Heightening one Pier & an Abutment & heightening two Piers and one Abutment of the Cubbinhollay Bridge

Date	Description of Charges	Rate			Amount			Total.	
30/12/63	Subsist of Labute in Chunam P.M. Cft	21	.	.	502	10	1		
63	Sqft of Coating P Sq	1	.	.	63	9	1		
985	Cubic Yds of Earth Work P Cyd	.	2	.	110	14	7		
510	Subsist of Cut Granite P Cft	1	4	.	637	8	.		
1738	" of Good Jungleword "	1	0	.	1738	.	.		
387	" of Teak Timber "	1	4	.	483	12	.		
	Charges & Superintendence				485	14	6	5400	. .
	Total Rupees							5400	. .
	Deduct for Materials in hand and Balance of Income Tax grant available							2400	. .
	Net Amount requiring Sanction Rupees							3000	. .

Portion Range Office
South Canada
Camp Bellaringeroy 21st January 1864.

Alex. J. Fleet Lieut. R.E.
Assist Engineer South Canara

Report to accompany an Estimate of Rupees 5400 for the Restoration of the Cubbinhollay Bridge in the District of South Canara

The foundations of the Piers & Abutments being found it will be necessary to rebuild one Pier & one Abutment entirely & four others & to raise the remaining Piers & Abutments (as per sketch) the first portions of the eastern King Walls will also have to be rebuilt & the Coping walls must be raised.

The Steam Cutters of the remaining Piers having been a good deal damaged & chipped it will be necessary to face them with Cut granite to a height of 17 feet the Steam Cutwaters of the new Piers & the Abutments are also intended to be faced to the same height. The whole charged in the Estimate is that charged at Cubbinhollay last year.

The superstruction was estimated for separately last year & is now partly ready for this work. The balance of the Superstruction being part of the Contract for 1864/65 is available for this work & has been allowed for accordingly.

Alex. J. Fleet Lieutenant R.E.
Assistant Engineer South Canara

Executive Lieut. Col. R.E.
Supt. Engr. 7. Div.

11

Public Works Dept
17.B

1702

No. 1702

Proceedings of the Madras Government
Under date the 10th June 1864
Read the following letter
from the Supg Engr. J. Div

Forwards Statement of unfinished
Works of South Canara District
for 1863/64. and submits 3 Estimates
for Sanction of Cabbinkolloy Cu-
-kady and Cajekar Bridges, Rs 272,
2260, & 750.

Fleet enters 27. May 1864
No 10.

Under the explanation
afforded, the Government sanction
the revised Estimate of Rs 272
for the Bridge across the Cabin-
-kalla River, and the District of
South Canara
to regards the expendi-
-ture of Rs 420 incurred in
excess of the sanctioned Estimate
of Rs 1840 for the Conkerady
Bridge, the Government note the
Supg Engineer's opinion that
such excess is due in some measure
to the accounts of the work
having been confused with those
for the Goletakloo Bridge on which
a considerable saving is shewn
to have been effected. to the

Letter from Dr. A. Cotter
to the Secy. to Govt. J. Dept.
Madras
Dated 31st May 1864
Rec'd 8th June 1864

No 2440/64

Estimate for Miscellaneous
and Unforeseen Works and Repairs
of the Public Buildings under the
Executive Engineer's charge
for the year 1864-65

Estimate

aggregate of the Estimates for these two Bridges will not be exceeded, the Govt authorize the transfer of the sum of Rs 420 to Project & Log- This mode of adjustment will render the sanction of the revised Estimate submitted, unnecessary. —

The revised Estimate of Rs 700 for the reconstruction of the dilapidated Bridge over the Kulla a mile east of Kopinan-gadi on the Bungeriabad road, is sanctioned. It is observed that Col: Walker has authorized this work being undertaken from funds at Lt Colgate's disposal - In-formation should be furnished as to the particular allotments from which the necessary funds have been obtained - It will be observed on reference to the orders noted on the margin, that savings on grants specifically made for works entered in the Budget, cannot be appropriated to works not originally included therein. The Supg Engr will, in replying to these proceedings, report whether the diversion of the funds referred to, or any portion thereof —

G. O. 9th May 1864 - 1340.

19.

was authorized subsequent to the promul-gation of the orders in question.

The List of Incomplete works submitted will be separately disposed of.

To

The Supg Engr 2d "
" Cont & Audr of Wr accts
" Asst General

3 4 1
Desp 11th June

A. G. O. 1864 Depts
Rec'd of Govt for Issue

No 1702
Rec'd of the Adjt Genl
D. D. 10th June 1864

C.M. 2760/64

No 293-294