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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 1465	Press Mis.
603-604	
Dated 31- 5- 1865.	

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
31st May 1865.*

No. 603. 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 Coonoor, 10th May 1865, No. 5 :—

SIR,

1. In paragraph 21 of Government Order No. 1,143 of 28th April, I am ordered to report on the causes of excess over several sanctioned estimates of the Canara District. In my report which elicited the order, I accounted generally for the excesses on the works below Munjerabad Ghât by the outbreaks of fever and cholera which have interfered with their progress, and disabled the Subordinate Executive staff. I have now the honor to submit revised estimate of the Wokaturn bridge on the new road by Vitla to Hosdoo.

2. Of the excess of Rupees 2,000 on the sanction of Rupees 3,550, rather more than one-fourth is due to extra work. The rest is due to insufficient rates of the original estimate. For both I am personally responsible. The site selected by me was one at which bare rock could apparently be relied on for foundation to one abutment and one pier, while the other pier and abutment and all the wing-walls would require but shallow foundations. The rock, however, was found to be so far from continuous that all the wing-walls and one pier had to be laid much deeper than could be anticipated.

3. As to rates it must be remembered that this estimate was drawn up in my first working season in Canara since 1855-56, scarcely any such work having been undertaken in the six years' interval, during which it is well known that the great rise in value of labor and materials commenced. Two years more elapsed before funds were provided and the work undertaken, during which that rise kept constantly on the increase. Even now the rates asked by Mr. Supervisor Fernandez are not excessive compared with those prevailing, for instance, at Cannanore in the neighbouring Range to his, at a civilized station where there is a regular demand for labor; while the work under note is on a new line of road, where the supply and carriage of materials have to be provided for as the line is opened; and which is a new and unknown field to the limited number of artisans in the district, the demand for whom is also greatly on the increase in the large towns.

4. Under these circumstances I trust the demand now made will not appear excessive. I have every reason to believe that it is not in any wise attributable to defective superintendence. The work will be entered, and funds asked for in the Statement of Unfinished Works of 1864-65, about to be submitted. It is all but completed.

No. 604. ORDER THEREON, 31st May 1865, No. 1,465.

CIVIL WORKS, No. 88.

1. In Proceedings No. 655, dated 17th March 1863, the Government sanctioned an estimate, amounting to Rupees 3,550, for the construction of a bridge at Wokaturn on the line of road inland from Panimangalore by Vitla to the Hosdoo river in the South Canara District.

2. In the letter above recorded the Superintendent Engineer, 7th Division, represents the insufficiency of this estimate, and reports that a further sum of Rupees 2,000 is required for the completion of the work.

3. The causes of this excess are stated to be, first, the insufficiency of the rates allowed in the sanctioned estimate, and secondly, the necessity which is found to exist for executing work beyond that originally contemplated.

4. Colonel Walker explains, with reference to the first of these causes, that when the original estimate was prepared, he had only a short time previously rejoined the District after six years' absence, and that no work of the kind having been executed in that interval, he did not make allowance for the great rise in rates

work

Running feet

*Proceedings of the Madras Government, Public Works Department,
31st May 1865.*

which had taken place. Further two years elapsed between the framing of the estimate and commencement of the work, during which time prices kept going up.

5. As regards the second cause of excess, the Superintending Engineer states that, in the preparation of the sanctioned estimate, it was anticipated that rock could be relied upon for the foundations of one of the abutments and piers, and that shallow foundations only would be required for the wing-walls and for the other abutment and pier, but that, on the actual commencement of the work, the rock was found not to be continuous, and the foundations of all the wing-walls and of one of the piers had to be laid much deeper than was originally contemplated.

6. The Government sanction the supplemental estimate, amounting to Rs. 2,000, but they consider it the duty of an Engineer, when framing an estimate, to ascertain the prices at which work can be done, and not to take things upon trust, and to make himself thoroughly acquainted with the nature of the foundations of his work.

(True Extract.)

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

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

Exd S T Augustin

*Revised Estimate No. 1 of 1864/65
District South Canara.*

*Work Constructing a Masonry Bridge over the Kankoon
River on the Pan-mangalore and Hosdroog road.*

<i>Particulars of work.</i>	<i>Measurements</i>					<i>Cubit feet.</i>
	<i>Length.</i>	<i>Depth.</i>	<i>Breadth.</i>	<i>Height.</i>	<i>Number.</i>	
<i>Foundation to North abutment.</i>	20 3/4	5	8 1/4	1	1	855 1/2
<i>Ditto to a Pier.</i>	29 3/4	5	5 1/4	1	1	855 1/2
<i>Ditto to North wing walls.</i>	12	2 1/2	5 1/4	1	1	172 1/2
<i>Abutments.</i>	12	6 1/4	5 1/4	2	2	787 1/2
<i>Piers.</i>	20	10	6 1/4	1	1	1350
<i>Wing walls.</i>	20	7	6 1/2	1	1	910
<i>Packing to arches.</i>	20	10	5	1	1	1000
<i>Filling in between arches.</i>	12 3/4	5	4 1/2	2	2	579 3/8
<i>Spandrel walls.</i>	8 1/2	4	4 1/2	2	2	316
<i>Blocking course.</i>	24 1/2	12	2 3/4	4	4	3087
<i>Cutwaters.</i>	30	4 1/2	1 1/2	4	4	810
<i>Parapets.</i>	5	1	1 1/2	4	4	30
<i>Laterite in Chunam.</i>	20	6	2 1/2	2	2	600
<i>Archwork with laterite in Chunam.</i>	20	3 1/2	4 1/2	2	2	630
<i>Cordon work.</i>	35	2 1/4	1 1/2	4	4	472 1/2
<i>Blocking course.</i>	11	2 1/2	1 1/2	4	4	165
<i>Cutwaters.</i>	160	1/2	1 1/2	2	2	240
<i>Parapets.</i>	5	10	2 1/4	2	2	225
<i>Laterite in Chunam.</i>	5	8	2 1/4	2	2	180
<i>Archwork with laterite in Chunam.</i>	5	4 1/2	1 1/2	4	4	101 1/4
<i>Cordon work.</i>	160	3	1	2	2	960
<i>Laterite in Chunam.</i>	42 1/2	2	20	3	3	5100
<i>Cordon work.</i>						320

Centring	Running feet.				90
Plastering the parapets with chunam. 5 1/2 ft.	161	7	-	2	2254
Covering with laterite jelly and Chunam over the arches. 1 1/2 ft.	105	20	-	-	2100
Pointing inside the arch.	37 1/2	20	-	3	2355
D ^o abutments.	20	10	-	1	210
	20	7	-	1	140
D ^o piers.	30	10	-	2	600
	30	8	-	2	480
	6 1/2	10	-	2	135
D ^o wing walls.	6 1/2	7	-	2	91
	14	5	-	2	140
	30	11 1/2	-	4	1380
Ditto Scaewalls	35	5	-	4	700
	15	4 1/2	-	4	270
D ^o to cap to cutwaters	10	2 1/2	-	4	90
D ^o Parapets	161	7	-	2	2254
Pointing with chunam. 1 1/2 ft.					6581
Clearing rock for foundation & excavating foundation					8835
And removed from the foundation which was fallen while excavating & during last monsoon					263 1/2
					421
					128
Fill up in between wing walls &c.					568
Earth work Cubic yards.					1117

Mangalore Range Office,
South Canara,
Mangalore, 28th April 1865

E. H. Mansingh
Superintendent

Revised Abstract Estimate No. of 1864/65.
District South Canara.

Work: Constructing a Masonry Bridge over the Hokailom River on the Panemangalore & Roddowag road.

	Description of work.	Rate	Amount	Total
15117	Cubic feet of laterite in chunam. per 100 ft.	19	0	2872 3 8
5700	D ^o of arch work with D ^o per ft.	21	0	1071 0 0
320	Running feet of cordon work - per 100 ft.	0	6	120 0 0
90	D ^o of centring - per ft.	6	8	585 0 0
2254	Sq. feet of plastering the parapets with chunam - per sq. ft.	4	0	90 2 6
2100	Sq. feet of covering with laterite jelly & chunam over the arches. per sq. ft.	3	0	63 0 0
6581	Sq. feet of pointing with chunam per ft.	2	0	131 6 1
8835	Sq. feet of clearing rock for foundation - per sq. foot	0	6	98 7 0
1117	C. yards of earth work. per C. yard.	0	2	174 8 6
	Baling water			70 0 0
	Lundries & Superintendence.			274 1 3
				5350 0 0

Deduct the amount sanctioned in G.O. No. 635 of the 17th March 1863. } 3530 0 0

Net amount requiring sanction - 2000 0 0

Mangalore Range Office,
South Canara,
Mangalore, 28th April 1865

E. H. Mansingh
Superintendent

M. Walker Lieut. Col. R.E.
Superintending Engineer 7th Division

Supernitending Engineer's Office
7th Division
No 5
Dionor 10th May 1865
From Lieut Colonel G. M. Walker R.E.
Supernitending Engineer 7th Division
To Colonel C. A. Orr R.E.
Secretary to Government O.P.P.

Sir, In para 21 of Government Order No 1142 of 28th April I am ordered to report on the causes of excess over several sanctioned Estimates of the Benara District. In my report which elicited the order I accounted generally for the excesses on the works below. Amjerabad Ghaut by the outbreaks of Fever and Cholera which have interfered with their progress and disabled the subordinate Executive Staff. I have now the honor to submit a revised Estimate of the Mokator Bridge on the new road by Villa to Koop Droog.

2. Of the excess of Rupees 2000 on the sanction of Rupees 3550, rather more than one fourth is due to extra work. The rest is due to insufficient rates of the original Estimate. For both I am personally responsible. The site selected by me was one at which bare rock could apparently be relied on for foundation to one Abutment and one pier, while the other pier and Abutment and all the Wing walls would require but shallow foundations. The Rock however was found to be so far from continuous that all the Wing Walls and one pier had to be laid much deeper than could be anticipated.

3. As to rates it must be remembered that this Estimate was drawn up in my first working season

Enclosure via letter from
the Supernitending Engineer
7th Div. to the Secretary &
Lieut. C. A. Orr R.E. of 10th
May 1865.

To Mr. 10th/65

Estimate for constructing
a Masonry Bridge on the
Mokator River on the
Benara Ghaut and Koop
Droog road

C. A. Orr 3550

season in Kanara since 1855-56, scarcely any such
work having been undertaken in the 6 years in-
terval, during which it is well known that the
great rise in value of labour and materials com-
menced - Two years more elapsed before funds
were provided and the work undertaken, during
which that rise kept constantly on the increase -
Even now the rates asked by Mr Supervision Ser-
vant are not excessive compared with those
prevailing for instance at Cannanore in the
neighbouring Range to his, at a civilized station
where there is a regular demand for labour;
while the work under note is on a new line of
road where the supply and carriage of materials
have to be provided for as the line is opened; and
which is a new and unknown field to the limited
number of artisans in the District, the demand
for whom is also greatly on the increase in the large
towns.

Under these circumstances I trust the demand
now made will not appear excessive - I have
every reason to believe that it is not in any wise
attributable to defective Superintendence - The work
will be entered and funds asked for in the state-
ment of unfinished works of 1864-65 about to be
submitted - It is all but completed -

I have the honour to be

Yours most obedient servant

Wm. L. L. L.

Superintending Engineer

SL

To W. W. Department
Secy of Govt for May
1865

From

The Superintending Engr,
7th Division

To the Secretary to Govt
S. D. P. W.

No 5

Dated 10th May 1865
Received 13th

Enclosure 11

Submits a Revised Estimate
for Constructing a masonry
Bridge over the Nokaita
River in Canara District
and explains the circumstances
under which the original
Estimate exceeded by Rs 2000

A 603

c. 17th May 1865. D. 19th

no. 1465-31st May/65-

Civil Works

Pub. Works Department
no 1465

Proceedings of the

Nachas. Government

Under date the 31st May 1865

Read the following.

From the Superintending Engr.

Submits a revised Estimate
for constructing a masonry
Bridge over the Nokaita
River in Canara Dist.,
& explains the circumstances
under which the original
Estimate exceeded by Rs
2000

H. D. 10th May 1865 No 5

In Proceedings of 1865,
dated 17th March 1863, the
Government sanctioned
an Estimate amounting
to Rupees 3,550 for the
construction of a bridge
at Nokaita on the line
of road inland from
Pannangalore by
Vitta to the Kosschoog
river in the South Canara
District.

Wm

Wm

Wm

Wm

2. In the letter above
recorded the Superintendent
Engineer 7th Divⁿ represents
the insufficiency of the
Estimate, and reports that
a further sum of Rs. ^{about 56 per cent}
2000 is required for the
completion of the work.

3. The causes of
this ~~excess~~ are stated to be
1st the insufficiency of
the rates allowed in the
sanctioned Estimate, and
2nd the necessity which
is found to exist for
executing work beyond
that originally contemplated.

4. Colonel Walker
explains, with reference
to the first of these causes,
that when the original
Estimate

15
Estimate was prepared;
he had only a short time
previously rejoined the Dis-
trict after six years
absence, and that no work
of the kind having been
executed in that in-
terval, he did not

make allowance for the
lapse of time. great rise in rates which
of the estimate occurred of the had taken place. Further
which time prices
up.

5. As regards the se-
cond cause of excess,
the Supy Engr. states that,
in the preparation of the
sanctioned Estimate, it was
anticipated that rock could
be relied upon for the
foundations of one of the
abutments and piers and
that shallow foundations
only.

P. W. 1865 Dept

Proc of Govt for May

Apr 1465

Proc of the Madras Gov

of 31st May 1865

~~Proc of the Madras Gov~~

~~of 31st May 1865~~

~~Proc of the Madras Gov~~

~~of 31st May 1865~~

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~~of 31st May 1865~~

~~Proc of the Madras Gov~~

~~of 31st May 1865~~

~~Proc of the Madras Gov~~

The Supplement
estimate amounting
to Rs 2000 for the con-
struction of a bridge
at Wakatur in the
South Canara District
Chandernagor

A 500 601