

(1) Number of pages 18

(2) Date of repair 23 6 42

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.	625	Press
		<u>Mis.</u>
585-586.		
Dated	31-3-	1862.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
31st March 1862.*

No. 585. Read the following letter from Lieutenant-Colonel J. OUCHTERLONY, Acting Deputy Chief Engineer, Northern Circle, to Lieutenant-Colonel W. H. HORSLEY, Secretary to Government, Public Works Department, dated Chepauk, 8th March 1862, No. Gm/9
190.

SIR,

1 Letter from District Engineer Ganjam, No. 345, dated 31st Jan. 1862.
1 Abstract estimate.
1 Specification.
3 Plans.
1 Survey.

1. I have the honor to submit herewith an estimate, with plans, amounting to Rupees 17,740, for constructing a bridge of 7 arches of 36 feet span over the Mahendra river, and two smaller works of one arch each over Nullahs on the line of Trunk Road No. 6, in the Ganjam District.

2. There has been considerable delay in the submission of these estimates in consequence of a necessity which arose for their being remitted to the District for alteration. They have now been finally revised and checked in this office, and I beg to recommend them for sanction out of the Budget Funds of the ensuing official year 1862-63, as the traffic on Trunk Road No. 6, which is fast increasing is greatly impeded by the want of the bridges which they provide for, specially where the river Mahendra intersects the road. The Collector of the District has on more than one occasion commented on the grave inconvenience arising from the unbridged condition of the streams for which viaducts are now provided.

3. As no provision appears to have been made in the Budget of 1862-63 for these necessary works, it will be necessary, should the estimates be sanctioned, that an allotment of the amount be made from the General Reserve Fund.

No. 586. ORDER THEREON, 31st March 1862, No. 625.

	Rs.
* 1 Bridge of 7 Arches of 36 feet span	12,950
1 Do. 1 Arch of 30 do.	2,530
1 Do. do. 21 do.	1,780
Compensation for land.....	480
Total.....	17,740

The three estimates marginally* noted submitted with the foregoing letter and amounting, inclusive of compensation for land, to Rupees 17,740 for constructing a bridge of 7 arches of 36 feet span over the Mahendra river and two smaller works on Trunk Road No. 6 in the

Ganjam District are sanctioned, but no allotment can be made from the Reserve Fund of 1862-63 until the Budget of that year has received the sanction of the Government of India. A fresh application should therefore be made after the commencement of the next official year.

(Signed) W. H. HORSLEY, Lieut.-Colonel,
Secretary to Government.

N: 345,

To,

The Deputy Chief Engineer
Rothers Circle.
Madras.

Sir,

With reference to my letter of yesterday's date, I have the honor now to forward two Estimates for ^{the larger} Mearns Works on Trunk Road N: 6. between Cape Hooghly and Dundo Gedda, — in lieu of those ordered to be revised in Circular N: 8744 of 24th ultimo. —

Originally, Estimates for 4. Bridges were submitted, but of these, one, for the Bridge of 3. Arches of 36' Span over the Bunde (or Poonabudra) Gedda, was included in the Estimate amounting to Rs: 33,600. forwarded by Capt. Harrington on the 20th September 1889. in his letter N: 176. of that date, — and which has been sanctioned by Government, as Communicated in your Proceedings N: 9255. dated 14th instant. —

A second, revised, Estimate for a Bridge of 21' instead of 30' span, over the Mulla near Muchelly, was submitted by me on 17th November, — returned to me for revision, which however it did not require, — and was yesterday retransmitted with my letter N: 335. in compliance with your Telegram. —

There

* N: 116.

There remains therefore only two bridges, -
the Estimates of which I have carefully revised
and now forward amounting to Rs. 16,370. -
in the Aggregate. -

The site taken up for the Bridge of 7. ^{arches}
of 36' Span, and for the small one of 30'
thence about half a mile beyond, necessitates
new Approaches through cultivated land
belonging to the Mundasa Zemindar,
who claims Compensation, which I have
added to the Estimate, Rs. 480. for 12. Acres.

I have added necessarily to the rates for
the Wells, Brickwork, and plastering;
in consequence of a rise in prices since the
old Estimate was framed, and perceiving
constant small freshes in the River,
caused by rains falling in the distant
Hills, 5000 feet high, I have added one
hundred rupees to the sum allowed for
temporary Dams and baling. -

I believe the Estimates are now
as perfect as they can be made, and I
trust Early Sanction will be accorded for the
expenditure. -

I have the honor to be
Sir.

Yours most obedt. Servant.

C. I. Whiffles

1st Assist. Secy. Engineer
in Charge

Specification and Report accompanying the Revised
Estimate for Constructing certain large Bridges on
Trunk Road, No. 6 from Cassiboga to Soudage
Miles 27. yards 1445

Amount of Estimate is Rupees (16,370) sixteen thousand three hundred and seventy Comprising the following items —

1 Bridge of 7 Arches of 36 feet span No. 13360

1—rd—of 1 Arch of 30 feet span—2,530

Compensation for 12 acres of land - 480

Total Estimate Super. 16340

The bridge of 7 arches of 36 feet span is to be
across the Mahandra River.

The river bed is of sand, with a fall of $3\frac{1}{2}$ feet per mile—

The foundations of the bridge are to be of rough stone 3 feet thick built on wells sunk 10 feet depth—

The cutwaters of the piers and abutments are to be connected with each other by retaining walls in front and rear built of rough stone in Chunan on wells 10 feet deep and the floorings are to be stone in Chunan $2\frac{1}{4}$ feet thick. In rear of the bridge is to be a rough stone apron 21 feet broad and 3 feet thick to prevent scour.

The piers to be 6 feet thick and the abutments 9 feet, raised to a uniform height of 9 feet. The versed sine of the arches to be 9 feet, giving

Adolph Schmalzer
6779
from

Estlin G. G. Phillips

1818-1819

Flaminio

The Beechey Engraving.

John G. Leary

dated 31st January 1882
received - 10 - 7/6

159.686/62

02-3457

Traveling in preparation, daily news, &
Belgian report concerning certain
larger prisoners ^{in Belgium} Dunkl Road
not, released with D.O.: 2097/44.
246 Cellino -

June 20, 1902

3 March 1861

Specification and Report accompanying the Revised
Estimate for Constructing certain large Bridges on
Trunk Road No. 4th from Cassibooga to Soudage Lake
• Miles 27. yards 1445 —————

Amount of Estimate is Rupees (16,370) sixteen thousand three hundred and seventy/ Comprising the following items —

1 Bridge of 7 Arches of 36 feet span No 13360

1—rd—of 1 Arch of 30 feet span—2,530

Compensation for 12 acres of land - 480

Total Estimate Super 16370

The bridge of 7 arches of 36 feet span is to be
across the Mahandra River—

The river bed is of sand, with a fall of $3\frac{1}{2}$ feet per mile.

The foundations of the bridge are to be of rough stone 3 feet thick built on wells sunk 10 feet depth.

The Culwaters of the piers and abutments are to be connected with each other by retaining walls in front and rear built of rough stone in Chunan on wells 10 feet deep and the floorings are to be stone in Chunan $2\frac{1}{4}$ feet thick. In rear of the Bridge is to be a rough stone Apron 21 feet broad and 3 feet thick to prevent scour.

The piers to be 6 feet thick and the abutments 9 feet, raised to a uniform height of 9 feet. The versed sine of the arches to be 9 feet, giving

 α

Wm. Schuchardt
June 11, 1899

Captain G. G. Phillips

W. D. Keith & Co. Package

Langinleis

The Attached Envelope

For Mr. Geo. W. Lewis

dated 31st January 1882
received - 10 - Feb -

159.686/62

020 3457

Available for donation, duly received,
delivered for construction of certain
large ^{in immediate} bridge on South Road
No. 6, adjacent with D.O. No. 908/44/4
24th February -

Grand total 200

*Wm. B. Smith & Co.
3 Howard St.*

a total height of 18 feet to their soffits
and allowing a clear height of 6 feet
above highest floods for passage
of trees &c. The bridge will provide 1,095
square feet of water way. The section of
river in highest floods being 3,520 square feet.

The superstructure of Bridge will be
of brick in Chumam with perforated
parapet and plastered.

The roadway over the Bridge is to
be horizontal and the approaches will
have a moderate slope. Over the arches
the clear width between parapet will
be 18 feet and between the wing walls
24 feet.

C. J. Griffiths Esq
1st Asst Dist Engineer
Inch: of Ganjam District

Ganjam District
Engineer's office }
Berhampoor }
31st January 1861.

PUBLIC (ROADS)

ABSTRACT of Estimate No.

of 186 .

New work !!

ROAD No.

DISTRICT

WORK

Ganjam

*Construction of Large Bridges on Trunk Road No. 6 from
Causabogah to Dandila Gidda Miles 27 Quits 1445.*

Quantities.	Description of Work.	Rate.			Amount. Rupees.	Amount of each part. Rupees.
		Rs.	A.	P.		
	<i>One Bridge of 7 Arches of 36 ft span.</i>					
<i>1452 1/2</i>	<i>Cy³ Rough Stone work in Chunam — 7 1/2</i>	<i>1</i>	<i>8</i>		<i>2179</i>	
<i>1517</i>	<i>do Brick work in Chunam — do</i>	<i>2</i>	<i>2</i>		<i>3289</i>	
<i>612</i>	<i>do Arch work in Chunam — do</i>	<i>3</i>	<i>6</i>		<i>2067</i>	
<i>81</i>	<i>do Concrete work in Chunam — do</i>	<i>1</i>			<i>82</i>	
<i>9</i>	<i>do Cornice work in Chunam — do</i>	<i>3</i>			<i>27</i>	
<i>31000</i>	<i>sq ft Plastering in Chunam — 10</i>	<i>1</i>	<i>10</i>		<i>504</i>	
<i>1049</i>	<i>Cy³ Loose Stone, revetting and Lower Apron — Cy³</i>	<i>5</i>	<i>8</i>		<i>550</i>	
<i>12354</i>	<i>Cy³ Earth work — Cy³</i>	<i>6</i>	<i>1</i>		<i>772</i>	
<i>244</i>	<i>do Metalling & Graveling — do</i>	<i>3</i>	<i>6</i>		<i>91</i>	
<i>2700</i>	<i>Square Yards Surfing — sq yd</i>	<i>4</i>	<i>3</i>		<i>112</i>	
	<i>3 Centerings — Each</i>	<i>130</i>			<i>390</i>	
	<i>8 Guard Stones — Each</i>	<i>3</i>			<i>24</i>	
	<i>Building and temporary Camp — do</i>				<i>800</i>	
<i>116</i>	<i>Sinking wells — Each</i>	<i>8</i>	<i>4</i>		<i>957</i>	
	<i>Continuances —</i>				<i>1176</i>	
						<i>12950</i>
						<i>12950</i>

To Good 8th March 1890. Item 9

29/11/86 86/52

*Specification and Report
accompanying the revised
estimate for constructing
certain large bridges
on trunk road No. 6 from
Causabogah to Dandila
Miles 27. Quits 1445.*

Quantities.	Description of Work.	Rate.		Amount.	Amount of each part.
		Rs.	A. P.	Rupees	Rupees.
	Brought over —				12950
	One Bridge of 1 Arch of 30 feet span —				
103	Cy ⁴ Rough Stone work in Chumani — Cy ⁴	1	8	"	605
193	do Brick in Chumani — do	2	2	"	1049
56	do Arch work in Chumani — do	3	6	"	189
8 1/2	do Concrete — do	1	"	"	8
6173	Sup ⁴ Plastering in Chumani — Cy ⁴	1	10	"	101
1017	Cy ⁴ Earthwork — Cy ⁴	"	1	"	253
66	Cy ⁴ Loose Stone Revetting do	"	8	"	33
1	Centering —	"	"	"	80
8	Guard Stones — Each	3	"	"	24
	Contingencies —	"	"	"	188
					2530
	Compensation for 12 acres of land belonging to Munnasiee zemindary taken over the trunk Road No 6 between Mahindra River & Palvassa 1/2 acre. —	40	"	"	180
					180
	Total Rupees —				15960

Central Office of W
Chepauk
8th March 1862.

Structural Engineer
Acting Deputy Chief Engineer
Barracks Circle.

Quantities	Description of Work.	Rate		Amount.	Amount of each part.
		Rs.	A. P.	Rupees.	Rupees.
	Brought over. —	"	"	"	15960.
	Constructing a Bridge of 1 Arch of 21 feet span across the Mah. St. Mar. Temple Road No VI.				
295	Cubic Yards of Rough Stone in Chumani — Cy ⁴	1	8	"	142.
364	do of Brickwork in do. — do	2	"	"	729.
1 1/2	do of Archwork — do	2	8	"	109.
8	do of Concrete — do	1	"	"	8.
52	Squares of Plastering in Chumani — Cy ⁴	1	8	"	78.
3000	Cubic Yards of Earthwork — Cy ⁴	3	"	"	141.
1	Centering —	"	"	"	35.
8	Guard Stones — each	2	"	"	16.
	Baling water —	"	"	"	30
36	Cubic Yards of Loose Stone Lower Assem —	"	12	"	27.
	Contingencies —				165
					1780.
	Total Rupees —				17740

Structural Engineer
Acting Deputy Chief Engineer
B. Circle

Madras District

No. 679
190

Central Office P.W.
Chennai, 8 March
1882

From D. Colonel R. Bucklebury
Asst. Dy. Chf. Engineer N.C.

To D. Colonel W. H. Hasley
Secretary to Government
D.P.W.

Sir,
I have the honor to submit herewith an Estimate, with Plans, amounting to Rs. 17,543 for constructing a bridge of 7 arches of 36 feet span over the Panchendra river, two smaller spans of one arch each over nullahs on the line of Trunk Road No. 6 in the Ganjam District.

2. There has been considerable delay in the submission of these Estimates in consequence of a necessity which arose for their being resubmitted to the District for alteration. They have now been finally revised & checked in this office, & they are recommended for sanction out of the Budget funds of the ensuing financial year 62/63, as the traffic on Trunk Road No. 6 which is fast increasing is greatly impeded by the want of the Bridges, which they provide for, especially where the river Pan-
hendra

Chief Engineer

Madras

From

The Acting Deputy

Chief Engineer

Madras

To

The Secretary to Govt

P.W.

Dated 8th March 1882

1882

Estimated Estimate for

Constructing 7 arch Bridges

on Trunk Road No. 6 of the

Madras District 29 miles N.W.

in the District of Ganjam

amounting to Rs.

intersect the road. The Collector of the District has on more than one occasion commented on the grave inconvenience arising from the unbridged condition of the streams for which viaducts are now provided.

3. As no provision appears to have been made in the Budget of 1862/63 for these necessary works, it will be necessary, should the Estimate be sanctioned, that an allotment of the amt. be made from the general Revenue Fund.

I have the honor to be

Central Office of Govt.
C. O. Secy.
8th March 1862

Sir, Your most obed^t Serv^t
Richardson Esq^r
Asst. Secy. to Govt. N. E.

To Lieutenant Colonel W. H. Forster
Secretary to Government D. O. N.
Fort Saint George.

10th March 1862: Deputt
 1040: 21st 1862

Estimate on the Construction
 of the Bridge over the River
 at the Village of B. B. B.
 and the Road to the B. B. B.
 and the Road to the B. B. B.
 and the Road to the B. B. B.

Date 11th March 1862
 By J. B. B.

Estimate and Plans amounting
 to Rs 17,740 for the
 construction of a bridge of 7
 arches of 36 feet span
 over the Chakandara River
 and the smaller works
 and the smaller works
 and the smaller works
 and the smaller works

Rs 10,383-14-55

Rs 10,383-21-40
 By the order

10th March 1862

1 Bridge of 7 Arches of 36 feet span.	12,950
1 - do - 1 Arch of 30 - do -	2,530
1 - do - do - 21 - do -	1,780
Compensation for land -	480
Total.	17,740

10th March 1862

The three Estimates accompanying
 noted submitted with the foregoing
 and amounting inclusive of compen-
 sation for land to Rs 17,740 for the construction
 of a Bridge of 7 Arches of 36 feet span over
 the Chakandara River and the smaller
 works on the same Road at B. B. B. and the
 same district are sanctioned, but no al-
 lowance can be made from the Revenue
 Fund of 1862/63 until the Budget of
 next year has received the sanction of
 the Government of India. A good
 application should therefore be
 made after the commencement of
 the next official year.

13th April 1862
 By the order of the Dy. Commr.
 J. B. B.
 10th March 1862