

(1) Number of pages 12

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. <u>302-1</u>	Press Mis.
<u>356-277</u>	
Dated <u>20-10-18</u>	<u>64</u>

Not to be folded or roughly handled

6/10-18

*Proceedings of the Madras Government, Public Works Department,
20th October 1864.*

No. 376. Read the following letter from L. B. BOWRING, Esq., Commissioner for the Government of the Territories of His Highness the Maharajah of Mysore, to Colonel C. A. ORR, R. E., Secretary to Government, in the Public Works Department, dated Bangalore, 11th October 1864, No. 2,462-104:—

Sir,

With reference to the accompanying copy of letter No. 93 C-1,812, dated 15th April 1864, from the Government of India, sanctioning my applying to the Madras Government for the services of an Engineer Officer for superintending the construction of a bridge over the Toonga Budra river, at Hurrihur, I have the honor to transmit copy of a letter No. 1,496, dated 5th instant, from the Officiating Chief Engineer in Mysore, bringing to notice the name of Lieutenant H. R. Mead, R. E., and shall be obliged, should there be no material objection, by your moving His Excellency in Council to be pleased to place the services of that Officer at my disposal for the purpose indicated.

No. 377.

ORDER THEREON, 20th October 1864, No. 3,021.

Ordered that the following letter be sent:—
(Here enter No. 3,022, dated 20th October 1864.)

(True Extract.)

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

Exd. S. T. Augustin.

3
PUBLIC WORKS DEPARTMENT

Public.

FORT SAINT GEORGE,
20th October 1864.

No. 378.

No. 3,022.

From

COLONEL C. A. ORR, R. E.,

Secretary to the Government of Fort Saint George, P.W.D.,

To

*The Commissioner for the Government of the Territories
of His Highness the Maharajah of Mysore.*

SIR,

I am directed to acknowledge the receipt of your letter No. 2,462-104, dated 11th instant, and to state, in reply, that the Madras Government regret that they are unable to spare the services of Lieutenant Mead, as that Officer is employed on important duty in the Tanjore District, and there is no other Engineer Officer at the disposal of this Government whose services can be made available for it.

I have the honor to be,

Sir,

Your most obedient servant,

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

Exd. S. T. Augustin.

N^o 938
1812

From Captain C. C. Williams B. E.
Under Secretary to the Govt of India
To The Secretary to the Commissioner
of Mysore.

Public Works Department
Fort William 15th April 1864

Civil Works
Communications.

Sir

I am directed to acknowledge receipt of your letter N^o 205, dated 2nd March, submitting an estimate, amounting to Rupees 297,790, for the construction of a bridge over the Srongaludra river at Hurrikar on the Bombay and Madras road.

2. The estimate does not appear to the Governor General in Council to be unreasonably large for such a structure, yet the cost may be reduced below the sum named by the use of brick instead of stone in the piers. The price of the latter is given at Rupees 50 per 100 Cubic feet, and that of the former at Rupees 30. For mere facing, stone may be better, but it is needless to pay so large an additional price for it, when brick will answer the purpose. For the cutwaters only is stone really necessary.

Cy

by omitting it elsewhere, there will be a reduction in the cost of the bridge of nearly Rs 20,000, and a further reduction of Rupees 10,750 may be made by omitting, as needless, the exterior plastering of the brickwork to give it the appearance of stone.

3. In addition to this, the whole of the ornamental work on the exterior should be dispensed with. All that is required is a plain neat elevation. The caressed work would be under water a good part of the year, and will at the best be a doubtful ornament. The same remarks apply to the voussairs and the decorations on the piers, all of which should be omitted.

4. The abutments are too light. That on the right bank, which is the lowest should be at least 18 feet thick, and on the left bank 22 feet should be given. This is supposing a plain abutment be built. But it will be preferable to construct a less massive abutment, supported by a deep counterfort intermediate between the two wing walls. Probably, the thicker abutment may be made 16 feet with a buttress of 8' x 6' average section.

5. The wing walls are pierced with small arches, which are unsightly, and otherwise objectionable. It is desirable to check the action of the stream near the abutments, rather than encourage it as these vents would; there is always a tendency to form a back eddy which often cuts into the road embankments, if precautions are not taken.

6. The data as to the discharge of the river are very imperfect, and no decided conclusion can be arrived at as to whether the waterway provided is enough or too much. It is essential to have 2 or 3 more sections and actual observed velocities. These should be obtained during the coming rainy season; if it be then found that more waterway is required from the closing of the small abutment arches, an additional opening of the regular span can be given.

7. Before finally settling the arrangement of the piers, consideration should be given to the possibility of closing all the arches

Arches in one season. If this cannot certainly be reckoned upon, two abutment piers not less than 20 feet thick should be introduced.

For lowering the centres the use of sand cylinders with plungers is suggested in preference to the method proposed.

8. The roadway as designed is very narrow; it certainly should not be less than 20 feet in the clear. The high cost of concrete (£2 37 per 100 Cubic feet) is noticed. Comparing it with the cost of brickwork, it should apparently be capable of very great reduction.

9. As regards the incident for plant, the pumps and brick making machines may be procured; but as the use of stone is prohibited, some of the other plant may not be required. It is requested that information may be afforded on this point.

10. A further communication will be made as to the incidence of the charge of the project. Meanwhile I am to request that a statement may be submitted, showing the

the difference which the above modifications will make in the amount of the estimate.

11. There is at the present moment no Officer available at the disposal of the Government of India, who could be employed to take charge of this work. You might make enquiry whether any Madras Officer is likely to be found capable and willing to undertake the duty.

Have the honor to be,
Yours faithfully,
E. C. L. Williams Esq.
Under Secy to the Govt of India

1 Copy 1

L. B. Brown

Commissioner.

No 1246.

11
Mysore Public Works Department.

Central Office

Current Branch.

From

Major R. H. Sastry R. E.

Offg. Chief Engineer in Mysore.

To

The Secretary to the Commissioner

for the Government of the Territories of

His Highness the Raja of Mysore.

Dated the 5th October 1864.

In

In compliance with the wishes of the Government of India as conveyed in the Secretary to Government's letter No. 23⁹/₁₅₁₂ of the 1st April, and with your No. 2123³/₂₁₅ of 22nd Ultimo, I have the honor to request the favor of the Commissioner moving the Government of Madras to place, if possible, the services of Lieutenant H. R. Inrad R. E. an Officer of acknowledged merit, at disposal, for the construction of the new bridge over the Tungabhadra at Herryhur.

2. I have already ascertained from Lieut. Inrad that he will be happy to take the position if transferred in the rank of 4th Class Executive Engineer.

3. As the Commissioner is aware the charge.

1864

1741

Enclosed in a letter from the Commr. of Mysore, to the Secy. to Govt. is a copy of the Public Works Department -

Estimate for the year 1864-65.

For the year 1864-65.

Under the charge of the Secy. to Govt.

in the Public Works Department.

The Secy. to the Comr. of Mysore.

Dated 15th April

1864

In reply to the letter No. 23⁹/₁₅₁₂ of the 1st April, 1864, from the Secretary to the Government of India, in relation to the estimate, amounting to Rs. 20,000 for the construction of a bridge over the Tungabhadra River at Herryhur, on the Bombay and Bussar Road.

Charge for an Officer of this standing is provided for
in the Budget, with the express object of obtaining
one fully qualified for so important a work, I
sincerely hope that no objection will be raised
to the transfer at the earliest date possible,
the working season commencing very shortly.

I have &c

Bangalore
5th October 1886.

Signed R. W. Langley. Esq. R. E.

Offy. Chief Engineer in Charge

Copy.

to Bowring

Commissioner

General No. 2462
Civil Works No. 1014.
Communications

Mysore Commissioner's Office

From
L. B. Bowring Esq.
Commissioner for the Government
of the Territories of His Highness
the Maharaja of Mysore.

To
The Secretary to Government
in the Public Works Department
Fort St. George.

Dated Bangalore 11th October 1864.

Sir,
With reference to the accompanying
copy of letter No. 93^C/₁₈₆₂ dated 15th April 1864 from the
Government of India sanctioning my applying
to the Madras Government for the services of an
Engineer Officer for superintending the construction
of a Bridge over the Toonga Rudra river at their
river, I have the honor to transmit copy of a
letter No. 1496 dated 5th instant from the Officiating
Chief Engineer in Mysore bringing to notice the name
of Lieutenant A. R. Mead R. E., and shall be
obliged should there be no material objection, by
your

5 1864
No. 2

Enclosed in a letter from the
Commissioner of Mysore, to the
Secretary to Government in
the Public Works Department,
Fort St. George, dated 11th October
1864. 93^C/₁₈₆₂ 104. 9377 44 50/14
From
The Officiating Engineer
in Mysore
To
The Secy to the Govt of Mysore

Dated 5th October
Ch 1496.

In reference to the 2193 and
Government letter No. 93^C/₁₈₆₂ of 15th
April 1864, regarding the plan of the
Government of Madras having applied to
for the services of Lieut. H. R. Mead R. E.
for the construction of the new bridge
over the Toonga Rudra river at their

your moving His Excellency in Council to be pleased
to place the services of that Officer at my disposal
for the purpose indicated.

I have the honor to be

Sir

Your most obedient servant

L. Brown

Commissioner.

From ¹⁸⁶¹ ~~Pro. a part~~ ²¹ ~~for~~ ²¹ ~~October~~
The ~~Commissioner of Mysore~~

To The Secy to Government
in the Public Works Dept.
Fort St. George

Dated 11th }
Despatched 11th } October
Received 10th }

Enclosures, No. 2.

General No 2462

Civil Works No 104
Communications

Referring to the accompany-
ing correspondence applies for
the services of Lieut. H. B. Elwood
B. E. for superintending the
construction of a Bridge over
the Soogaludra River at Hurrhur.

nos 3021-43022-20th Oct/64

With an Order

Letter be sent.

20th 3022.

The Commission for the
Government of the Services of
His Highness the Maharajah

Sir,

I am directed to acknowledge
the receipt of your letter No 2462 dated
10th Instant and to state, in reply,

that the Maharajah Government report

that they are unable to spare the
services of Lieutenant Elwood as the

Officer is employed in important
duties in the Maharajah's Militia, and
therefore no other Officer

can be sent to take his place.
at the disposal of the Government
services can be made available.