

(1) Number of pages 14

(2) Date of repair 23-10-42.

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 3570	Press
275-276	~~Mis~~
Dated 14-12-	1864.

Not to be folded or roughly handled

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*Proceedings of the Madras Government, Public Works Department,
14th December 1864.*

No. 275. Read the following letter from Captain J. MULLINS, R. E., Consulting Engineer for Irrigation and Canal Company, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Madras, 26th November 1864, No. 157:—

SIR,

1. I have the honor to forward, for the sanction of Government, an estimate Rupees 8,910

4 Letters in original.
1 Copy of letter.
1 Estimate.

for the off take channel from the Rajoly anicut at the head of the 9th Section, the estimates for which were sanctioned in Proceedings of

the Madras Government No. 2,807, dated 28th September 1864, and in which no provision was made for the channel now requiring sanction.

From Chief Engineer, No. 808, 24th September.
To " Agent " 1,409, 30th "
" do. " 261, 4th October
From Chief Engineer, " 1,064, 14th November.
With Agent's " 1,984, 25th "

2. The correspondence, as per margin, is submitted, from which it will be seen, that originally two small estimates, besides that for the off take channel, were forwarded, but the Chief Engineer does not now desire that these

should be sanctioned, as the work can be executed from the allowance for contingencies in the section estimate.

3. It will be noticed from the latter part of the Chief Engineer's second letter that the off take channel will probably be completed far less than estimated amount, but that the revision of the rates would have necessitated a re-examination on the spot. This would have been inconvenient by withdrawing the Pennair Division establishment or a part of it from the work on which it is employed, and it will be sufficient, I think, to leave it with the Chief Engineer to see that due economy is enforced in the carrying out of the work.

4. In paragraphs 3 and 4 of his second letter, the Chief Engineer explains the cause of the difference in the levels of the head and under-slucies, noticed in paragraph 4 of my letter No. 93 of the 9th September. From this it would

appear, that the roadway of the head-slucie, according to the plan received with the estimates, is only 6 inches above the calculated level of extreme freshes in the Kundar, and, if so, it would certainly be advisable to increase this margin to at least the extent* suggested by Colonel Cotton, or, what would be simpler still, to alter the shutter gearing so as to allow of a reversion to the design with a parapet.

* From 6" to 2'-0"

No. 276. ORDER THEREON, 14th December 1864, No. 3,570.

1. The Government sanction the estimate of Rupees 8,910 submitted with this letter for the off take channel from the Rajoly anicut at the head of the 9th Section of the Irrigation Company's main Canal.

2. The Chief Engineer acknowledges that the rates allowed in the estimate are high, but he is unwilling to revise them without a re-examination of the ground, which the Consulting Engineer considers would be inconvenient. Due economy should however be enforced in carrying out the work.

3. The attention of the Chief Engineer will be drawn to the suggestion in paragraph 4.
(True Extract.)

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

To the Consulting Engineer for Irrigation and Canal Company.

" *Manager* for do. do.

Exd. T. O'Connor.

No. 261.

Consulting Engineers Office,
Irrigation and Canal Co.
Madras, 1st October 1864.

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From,

Captain J. Mullins, R.E.
Consulting Engineer, Sand, & Co.

To,

The Agent and Manager,
Irrigation and Canal Co.

Sir,

1. I have the honor to acknowledge the receipt of your letter No. 14,09 of the 30th ultimo transmitting together with a copy of the Chief Engineer's letter No. 806 of the 21st Idem, revised or rather supplemental Estimates for the Earth-work of the 9th Section of the Canal in the 14th & 145 miles and 168th mile and an Estimate Rs. 8910 for the off take channel at the head of the section.

2. The alterations in the first two estimates can be carried out at so small a cost that I think it will not be necessary, unless you should desire it, to apply for supplemental sanction as the allowance Contingencies is intended to cover such charges. I observe however that no mention is made of alterations to the masonry works which will be affected by the alterations of the bank and therefore it would be advisable to bring to the Chief Engineer's notice, in either or no the aqueduct

* Rs. 179
x 341

* Culvert 3 feet
aqueduct 1 arch
20 feet.

Handwritten

aqueduct of 6 arches in the 168th mile will be affected. I cannot tell, as no separate longitudinal section was furnished for this mile and the general longitudinal section has no letters corresponding with those referred to on the remaining sheet of cross sections.

3. With regard to the off take channel I would request information as to the object of making the top bank 2 feet higher than the Roadway at the head sluice and the embankment thereto joined on the other side. A similar want of correspondence in the level of the head and under sluices was referred to in para 4 of my letter No 93 of the 9th September 1864 to Government.

P. M. G. No 2807
28th Sept 1864

4. I would also request information as to the intended thickness of the revetments, included in this estimate, for the banks near the Head sluice, and I may remark that I have been unable to make the average width or breadth of these revetments measured on the slope any thing like the 15 yards entered for it in the estimate. I make the average length of slope of the higher bank 9 yards and of the right bank 5 yards, and allowing an average thickness of 2 feet, and a rate of 10 annas per Cubic yard of the quantity, and cost would be 701 Cubic yards, and Rupees 438-2-0, respectively, against 1418-12-0 allowed

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allowed in the estimate. I may further remark that I do not think the entry of the average rate 4 annas for the earthwork is as near an approximation as was practicable or advisable, for in the first place the amount of rocky soil might easily have been ascertained, and in the next place I observe that side cutting in "black soil" and rock are provided for, and while the cutting on the line of the Channel must go through whatever soil is found, there is no such necessity for the ~~pit~~ additional soil being taken down into hard materials. Altogether I am inclined to judge, from the calculations I have made, that instead of Rupees 8910 this work should cost under 6000 Rupees and perhaps not much more than 5000, if as may be supposed from the numerous levels on the rock surface in the river, which are exhibited on the Plan of ancient site at Rajol, the cutting in this material on the line of the off take channel should not exceed on the average 2 feet in depth.

I have the honor
to sign
J. H. Mullins, Captain, R.E.
Consulting Engineer, S.C.C.

True Copy
W. H. Mullins, Captain, R.E.
Consulting Engineer, S.C.C.

E. D. M. D.

Consulting Engineer's Office,
Irrigation & Canal Company
Madras, 26 November 1884.

N^o 157

7A

From,

Captain J. Mullins, R.E.

To

Cons Engineer & C. Co.

The Secretary to Government

Sir,

Department of Pub. Works.

1. I have the honor to forward for the sanction of Government an estimate Rupees 89/10 for the off take channel from the Rajah Mient at the head of the 9th section, the estimates for which were sanctioned in Proceedings of the Madras Government N^o 2807 dated 28 September 1884, and in which no provision was made for the channel now requiring sanction.

Ch. Eng. N^o 806-25 Sept 82.
Agmt. - 11/09-82-
Adm. - 26/10-82-
Ch. Eng. - 17/04-85-
Agmt. - 19/04-85-

The correspondence, as per margin, is submitted, from which it will be seen, that originally two small estimates, besides that for the off take channel, were forwarded, but the Chief Engineer does not now desire that these should be sanctioned as the work can be executed from the allowance for contingencies in the section estimate.

3. It will be noticed from the latter part of the Chief Engineer's 2nd letter that the off take channel will probably be completed for less than estimated amount, but that the revision of the rates would have necessitated a re-examination of the appt. This would have been inconvenient by withdrawing the Pen-
nair Division Establishment or a part of it from the

11/12/84

Enclosure in letter
No 157 of 26 November 1884
to Govt. from the Office

P.M. 20 Sept. 1807.

Ch.

Wentworth, Captain

Lowell & Co. -

Ed. M. Smith

His Majesty's Government of India
 To the Contingent Bill of No. 3 Range as District
 for the month of April 1865.



Description of Charges	Amount	Total	Remarks
1 Maple with hook and eye	5.		
1/2 Dozen Screw Nails	8.		
Carpenters hire for fixing the above & Office Desk	1.		
1 Padlock for	8.		
Repairing Office table	4.		
		1 28	
		Total	1 28

No. 3 Range Office
 Poonamallee
 13 May 1865

Receives One Rupee two and pice
 eight

I do hereby certify that the charges
 included in this bill have been bonafide incurred
 and that they were considered absolutely necessary.

W. M. H. Smith
 Sub Engineer, D. W.
 Sub. No. 3 Range Madras

A. B. S. S. S.
 Superintending Engineer, S. D.

Done at 15th Dec 1865

No. 28 of 1864/65

13th May 1865

to the Contingent Bill of No. 3 Range as District for the month of April 1865.

No. 28 of 1864/65

13th May 1865

to the Contingent Bill of No. 3 Range as District for the month of April 1865.

No. 28 of 1864/65

26th Dec 1864 B. 9th