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MADRAS RECORD OFFICE.

Government of Madras.

Public Works **DEPARTMENT.**

G.O. No. 2382	Press
396-398	Mis.
Dated 19-8-	18 64.

Not to be folded or roughly handled

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*Proceedings of the Madras Government, Public Works Department,
19th August 1864.*

Read the following letters:—

No. 396. 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 Nellore, 23rd July 1864, No. 43.

SIR,

Revenue Department, No. 898, 26th May 1864.
Public Works Department, No. 1,629, 3rd June 1864.

1. In their Order as per margin* the Government sanctioned the modifications in the arrangements of the Main Canal in the 35th and 63rd miles, proposed by the Chief Engineer of the Irrigation and Canal Company, but no formal sanction was given to the amounts of the Supplemental Estimates submitted by the late Consulting Engineer.

2. These Estimates were—

	RS.
1. For a line of Canal round the Ullur Tank	38,580
2. For constructing an Aqueduct and embankment for the Ullur Valley	22,010
3. For raising the banks of Canal 2 feet from 52nd to 63rd miles inclusive, for the Teroogopully Valley	51,565
4. For constructing Aqueduct and embankment for the Teroogopully Valley	36,244
† 5. Supplemental Estimate for do.	666
Total...	1,49,065

† This addition is for cut-stone work.—Vide Chief Engineer's letter No. 1,519 of the 31st March last, enclosed.

3. In the case of the Teroogopully Valley, the Estimates amounting to Rupees 88,475 represent the extra cost of the alteration, there being no deductions to be made, but at the Ullur Valley, from the total Rupees 60,590 of the two Estimates the sum Rupees 37,500, which would be the cost† of completing the original arrangement, has to be deducted, leaving Rupees 23,090 to be sanctioned, so that altogether the supplemental sanction required is for Rupees 1,11,565.

No. 397. 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, 8th August 1864, No. 64.

SIR,

1. With reference to your Memorandum No. 87, of the 5th instant, I have the honor to inform you that there is no information in this Office beyond that shown in paragraph 3 of my letter No. 43, of the 23rd ultimo, as to the probable additional cost to the Irrigation and Canal Company of the alterations in the line of the Main Canal which was sanctioned in Proceedings of the Madras Government, Revenue Department, No. 898, 26th May 1864.

2. Had the original Estimates been sufficient to complete properly the original arrangements, and were the present Estimates at all sure to prove ample or complete, the amount Rupees 1,11,665 now requiring sanction would represent the additional cost to the Company.

3. The original Estimate provided nothing for revetting the bank in the Ullur Valley, 35th mile. The late Consulting Engineer considered that the cost of completing the old bank would very nearly have amounted to as much as the Supplemental Estimates for the diverted line. I have no means of forming an opinion except as regards revetment, which would probably have amounted to eight or nine thousand Rupees, and this therefore might be deducted from the supplemental amount Rupees 23,090, but on the other hand, I believe the Ullur Aqueduct will cost about 6,000 Rupees more than its Estimate, and therefore this would have to be added.

Letter No. 174, 1st April 1864, paragraph 16.

*Proceedings of the Madras Government, Public Works Department,
19th August 1864.*

4. The original Estimate for the Canal in the 63rd mile at the Teroogopully Valley provided for pitching the single bank, the rate allowed being 2 Annas per square yard, and, from data derived from an Estimate recently received from the Chief Engineer for the neighbouring section of the Canal, I should say that this item would have fallen short by about 10,000 Rupees had the single banked arrangement been left unaltered. This consideration would reduce the extra cost to the Company from 88,475 to 78,475 Rupees.

5. It must be remembered, however, that this sum by no means represents the difference of cost of the two systems of banking, but only that of making a double bank on the same line on which the single bank has been already nearly finished, of course the regular Canal, if adopted in the first instance, would have been carried in a different and more favorable line.

6. If the Government desire it I will obtain from the Chief Engineer, Estimates of the cost of completing the old single bank at Ullur, including the revetment that would have been requisite, and of the cost of such a revetment as would have been needed at Teroogopully.

No. 398. ORDER THEREON, 19th August 1864, No. 2,382.

Adverting to the Proceedings of Government marginally* cited, the Governor in Council sanctions the five Estimates aggregating Rupees 1,49,065, referred to in the first of the foregoing letters, for works rendered necessary by the modification in the arrangements of the Main Canal, consequent on the Ullur and Teroogopully tanks having been dispensed with.

(True Extract.)

(Signed) J. H. M. SHAW STEWART, Major, R. E.,
Deputy Secretary to Government.

To the Consulting Engineer, Irrigation and Canal Company.
do. Agent for do.

Exd. S. T. Augustin.

N^o 2573

Madras Irrigation & Canal Company
Madras 12th April 1864.

From The Interim Acting Manager
To The Consulting Engineer
Madras Irr. & C. Co.
Irr. and Canal Co.

Sir I have the honor to forward copy of a letter from the Chief Engineer N^o 1519 of the 31st March 1864 together with the supplementary Estimate therein referred to.

I have the honor to
Signed R. L. Brunton
Interim Mgr.

Madras Irr. & Canal Co.
Chief Eng^r Office
Kurnool 31st March 1864

N^o 1519

To

R. L. Brunton Esq^r
Interim Agt Agent
Madras

Dear Sir
In the Estimate for the Aqueduct across the Teroogopully Valley referred to in the 5th Para of my letter dated 10th February 1864, I find that no cut stone work has been entered, and I beg to forward therefore a Supplemental Estimate in Triplicate, allowing

N^o 2385

allowing for cut stone cutwaters & coping
amounting to Rupees 666 to be added to
the original estimate of Rupees 36,244
making a total of Rupees 36,910 requiring
sanction—

I am &c

Signed / R. C. Carson

Chief Engineer

(True Copy)

Signed / R. L. Branson

Interim Manger

(True Copies)

Wm. L. Carson Captain R. C.

Consulting Engineer for R. C.

29/6/2022

No. 60 Supplemental Estimate of the probable expense of making cutwaters with rubble stone in channel & raising cut stone on the top of the parapet instead of rubble stone of the aqueduct for the Sengapatilly Valley

Measurements				Pices		
No	Length	Breadth	Depth	C. ft.	Rupces	Annas
1	8-1-13-3			424	Pice	Per
2	16-1-13-3			424	Rupces	Annas
	250-6-61			1625	Pice	Pice
	250-1-1			250	Pice	Pice
	250-5-1			1250	Pice	Pice
Total				3973 or 1473 3/4	78	1103 9 9

Reduct
 47 3/4 Cubic yards of Rubble stone in channel 2 8 0 267 13 11
 5223 3/4 Raising with 2 cords channel 2 8 0 150 9 2
 14987 1

Cuttings were at about 10 per cent 605 2 8
 60 13 11

Net amount requiring sanction 666 -

Original Estimate Rupces 36244
 Supplemental do 666
 Total Rupces 36910

Estimated
 31 March 1884

(Signed) W. L. Cotton.
 Chief Engineer
 (Signed) W. S. Mendenhall
 Assistant Chief Engineer

Three copies
 Wm. L. Cotton
 Consulting Engineer for S. & C. Co.

Comd'g Engr. 1882
 233 Albany 1884 - 1885

not used in 1882
 1883 & 1884

Consulting Engineer's Office,
Irrigation & Canal Company,
Kellora, 23rd July 1864.

N^o 43.

To,
Captain, J. Mulline, R.E.
Cons. Engineer I.C.C. Company.

The Secretary to Government, R.E. Works.

Rev^d Sup^r: N^o 898-
36th March
P.W.D. N^o 1629-5 June

In their order as per margin the Government sanctioned the modifications in the arrangements of the Main Canal in the 55th and 63rd miles proposed by the Chief Engineer of the Irrigation and Canal Company, but no formal sanction was given to the amounts of the supplemental estimates submitted by the late Consulting Engineer:-

2. These estimates were:-

1. For a line of canal round the Ullur Tank, Rupees - 58,580-00
2. For constructing an aqueduct and embankment for the Ullur valley - 22,010-00
3. For raising the banks of canal 2 ft from 52nd to 63rd mile inclusive for the Srirangapally valley - 51,665-00
4. For constructing aqueduct and embankment for the Srirangapally valley - 36,246-00
5. Supplemental estimate for do - 66-00

Total 1,49,065-00

3. In the case of the Srirangapally valley the estimates amounting to Rupees 88,475 represent the extra cost of the alterations, there being no deductions to be made, but in the Ullur Valley from the total Rupees 60,590 of the two estimates the sum Rupees 37,500 which would be the cost of completing the original arrangement has to be deducted, leaving Rupees 23,090

Chief Engineer's letter
N^o 1585 dated 10th Feb^y
1864 para. 6.

Copy was sent to the
150: N^o 1629-5 June 1864.

24/6/64

to be sanctioned, so that altogether the supplemental sanction required is for Rupees 111565.-

Shave the honor to be,
 Sir,
 Your most obedient servant,
 Charles Mullins Captain,
 Consulting Engineer & C. Co.

Examined & approved
 W. D. D. D. D.

By J. C. A. C. S. S. S.
 J. C. A. C. S. S. S.

The undersigned has the honor to request that the Consulting Engineer's sanction and sanction be given to the work which was sanctioned to him with Rs. 1029. No. 43 dated 23rd Nov 1864.

It is to be observed that the main canal in the 33rd mile is to be completed by the 33rd mile and the 33rd mile is to be completed by the 33rd mile.

19th August 1864

24th July 1864

26th July 1864

27th July 1864

Consulting Engineer's Office
 Irrigation & Canal Company
 Madras, 8 August 1864.

No. 64.
 From, Captain, J. Mullins & C. Co.
 Consulting Engineer & C. Co.
 To, The Secretary to Government
 Department of Pub. Works.

1. With reference to your Memorandum No. 87 of the 5th instant I have the honor to inform you that there is no information in this office beyond that shown in para. 3 of my letter No. 43 of the 23rd ult. as to the probable additional cost to the Irrigation and Canal Company of the alterations in the line of the Main Canal which was sanctioned in Proceedings of the Madras Government Revenue Department, 25th May 1864.
2. Had the original estimates been sufficient to complete properly the original arrangements and were the present estimates still to prove ample or complete, the amount Rupees 111565 now requiring sanction would represent the additional cost to the Company.
3. The original estimate provided nothing for reworking the bank in the Allur valley, 35 miles. The late Consulting Engineer considers that the cost of completing the old bank would very nearly have amounted to as much as the Supplemental Estimates for the diverted line. I have no means of forming an opinion except as regards reworking, which would probably have amounted to 8000 thousand Rupees, and this therefore might be deducted from the Supplemental amount Rupees 23099, but on the other hand I believe the Allur Agreement will cost about 6000 Rupees more than its estimate, and therefore this would have to be added.
4. The original estimate for the canal in the 68 mile at the Longpila valley provided for pitching the single bank the rate allowed

Letter No. 1174 of 18th July 1864
 para. 16.

1574
allowed being 2 annas per square yard and from data derived from an estimate recently received from the Chief Engineer for the neighbouring section of the canal, I should say that this item would have fallen short by about 10,000 Rupees had the single banked arrangement been left unaltered. This consideration would reduce the extra cost to the Company from 88,475 to 78,475 Rupees. -

5. It must be remembered however that this sum by no means represents the difference of cost of the 2 systems of banking, but only that of making a double bank on the same line on which the single bank has been already nearly finished - of course the regular canal, if adopted in the first instance, would have been carried in a different and more favorable line. -

6. If the Government desire it I will obtain from the Chief Engineer estimates of the cost of completing the old single bank at Kllur, including the revetment that would have been requisite, and of the cost of such a revetment as would have been needed at Periyapala. -

I have the honor to be,

Sir,

Your most obedient servant,

Wm. Mullins Captain,
Cane Engineer to the Company.

Ed. D. Brock

Proceedings of the Madras Government
Under date 19th August 1864
Read the following

From the Consulting Eng^r for S. & C. Co.

Observes that the modifications in the arrangements of the main canal in the 35th & the 63rd mile proposed by the Chief Eng^r S. & C. Co. was sanctioned by Gov^t but no formal sanction was given to the supplemental Estimates submitted by the late Consulting Engineer.

It seems that there is no information in this office beyond that shown in para 3 of his letter No 43 of 23rd March.

Rev: Secy^r No 893 d/ 26th May/64
Mr Secy^r - " 1629 d/ 5th June -

N. E. 23rd July 1864 No 43

N. E. 8th August 1864 No 61

Adverting to the P^{ro}ss of Gov^t marginally cited, the Gov^t in Council sanctions the five estimates aggregating Rs. 1,49,065 referred to in the foregoing letters, for works rendered necessary by the modifications

Collyer in a letter to the Secy^r of 30th September 1864.

23rd July 1864
P. No. of Gov^t No 43 of 23rd March
to the Consulting Eng^r
to the Secy^r of Gov^t No 43 of 23rd March

23rd July 1864
No 293 Aug 1864

23rd July

Supplies that there was information in this office beyond that shown in para 3 of his letter No 43 of 23rd March.

No 2382-19th Aug 1864

in the arrangements
of the main canal,
consequent on the
allowance & design:
fully tanks
having been dis-
pensed with.

W

18-
C

To The Com. Supr. S.H.C.S
1. August - a - ✓

Recd. 20th August -

Office of the Secretary of the
of the State of New York

P. M. 1867. Departe
Pro. of the State of New York
No. 2382

Pro. of the State of New York
Office of the Secretary of the

Dated 19th August 1864.

Frederick C. 4807
of 1864.

Pro. of the State of New York
No. 2382

Office of the Secretary of the
of the State of New York

Estimate submitted by
the Chief Engineer of the
amounting to \$2,149,000 for
works rendered necessary by the
modification of the arrangements.
of the main Canal and
equipment on the Hill and
every other way, having
been disposed with.

No. 396 @ 398

No. 396 @ 398