

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public works.

DEPARTMENT

G.O. No.	1427	Press
B.P. No.		Mis.
365-366.		
Dated	26. 5.	1873.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
26th May 1873.*

No. 365. Read the following Endorsement of the Chief Engineer for Irrigation, dated Fort St. George, 25th April 1873, No. 9:—

From C. A. BADHAM, Esq., Acting Manager of the Madras Irrigation and Canal Company, to Lieutenant-Colonel J. MULLINS, R. E., Chief Engineer for Irrigation, dated Madras, 28th March 1873, No. 68.

I HAVE the honour to hand you a memorandum of repairs required to the telegraph which I have received from the Chief Engineer, together with a copy of that officer's covering letter.

From J. H. LATHAM, Esq., Chief Engineer of the Madras Irrigation and Canal Company, to C. A. BADHAM, Esq., Acting Manager of the Madras Irrigation and Canal Company, dated Kurnool, 24th March 1873, No. 146.

Telegraph Repairs.

Yours No. 105 of 20th ultimo, and No. 149 of 20th instant. I have the honour to ask you to submit for sanction the accompanying memorandum of estimated telegraph repairs of 1873-74. I presume that formal application to Government is unnecessary if the Chief Engineer for Irrigation assents to the cost of these repairs being included in the expenditure already sanctioned.

From C. A. BADHAM, Esq., Acting Manager of the Madras Irrigation and Canal Company, to Lieutenant-Colonel J. MULLINS, R. E., Chief Engineer for Irrigation, dated Madras, 17th April 1873, No. 83.

I HAVE the honour to hand you copy of a letter which the Chief Engineer has addressed to me in explanation of the points raised in your letter No. 142 of 24th ultimo, with reference to the estimate of repairs in the Upper Section for the season 1873-74.

2. The Chief Engineer admits that "in all the cases cited," with one exception, the charges "are such as some Companies in England would charge to Capital," but he does not say why he includes such items in an estimate of repairs debitable to Revenue.

Extract from the Chief Engineer's letter No. 173, dated Kurnool, 11th April 1873, to the Acting Manager.

Yours No. 169 of 27th ultimo and Consulting Engineer's No. 142 of 24th ultimo. In all the cases cited, except the "toe-wall to outer slope of lower side of canal, Teragopila aqueduct," which I have no doubt is a charge on Revenue, it seems to me that the charges are such as some Companies in England would charge to Capital. I will take the cases in order.

2. *The new face-wall.*—When I left in 1872 I had not even formed a desire to replace these puddle core-walls by face-walls; I considered them expensive and troublesome walls which must be made the best of. It seems that last year the Government very prudently, I think, assented to Mr. Browning fencing a portion of puddle core-wall on Revenue Account; and I understood that it was approved that the process was to be carried on gradually where the puddle core-walls begin to leak badly, instead of strictly restoring the old walls. The toe-wall outside Teragopila bank is so called because it is measured up as a wall. It is simply a pile of coarse stone, half sunk in the ground, placed to act as a drain along the toe of any bank on soft soil which begins to slip. It is strictly repair; for when a bank slips it is merely a matter of science, and not of account, whether the material brought to restore and maintain the bank be kunkur, gravel, or earth, and whether it be thrown at the top or bottom of the bank. So it seems to me the toe-wall is not skilled work.

3. *New Sluices.*—These I have only approved for submission for sanction on Revenue Account, where the Engineer has assured me that their cost would be repaid (so far as he is allowed to ascertain it under the existing rules), by the additional revenue derived from them in one or two years, as the case might be. Thus at Velapanoor 87 miles 14 chains and in the 20th mile at Kurnool. At Velapanoor the villagers asked for channels and a sluice, upon which Mr. Wilks had the bank

*Proceedings of the Madras Government, Public Works Department,
26th May 1873.*

cut by the bankers, and irrigated 39 acres 94 cents of land not included in the sanctioned scheme of irrigation. Instead of closing the bank, he built in it a sluice for Rupees 152-6-4, foreseeing that the year's cultivation under it will more than cover the cost. This was just being completed as I came to India. This, I understood, was in accordance with the views of Government, as a Revenue charge, but it is quite optional with Government to decline to allow such charges in future. If new sluices and channels are to be made at all, it must be from the Revenue they bring that they must be paid for, there being no other fund.

4. As to the Yelagode sluices, there is little doubt but that revenue is attainable on that side of the Cauvee; but Mr. Crawford left no facts, and I have ample occupation in endeavouring to develop irrigation of the area already commenced by sanctioned channels. I therefore postpone them till Mr. Crawford's return.

5. In conclusion on this subject, I have the honour to say that the face-wall 29th mile (not 26th) Rupees 13,900, which should be Rupees 4,900, the square yards section of masonry and filling having been multiplied by the length in feet and taken as cubic yards, has been let and commenced, and I therefore cannot stop it without great loss. I will therefore let it go on until I hear again. I will make no more sluices until authorized afresh.

(Signed) J. H. LATHAM,
Chief Engineer.

SUBMITTED for the consideration of Government.

2. The examination of the estimate for the maintenance of the Lower Sections of the Company's Canal having shown that many items appertaining to Capital had been included therein, the estimate for the Upper Sections was re-examined, and it was found that not very far short of one-half of the amount was for works properly forming a Capital charge. The

* Sanctioned in G. O. No. 586, dated 21st February 1873.

Acting Manager was therefore addressed, and his reply and that of the Chief Engineer are now submitted.

3. It will be seen that the Chief Engineer has shown that the toe-wall of the Teragopila embankment in the 5th Section may be treated as a Revenue charge, but all the rest of the items, which were considered to be debitable to Capital, appear clearly to belong to that account. The face-wall in the 29th mile is a work precisely similar in its character and intention to the series of works constructed for stopping leakage; and though in one instance the Chief Engineer points out that work of this kind was passed as a Revenue charge, this was probably an oversight, as it was presented apparently in a bill of cost for work actually done. A large amount has been debited to Capital for similar work in the 2nd Section, and there is nothing in the present case to make any different treatment necessary. It will be noticed that the revised estimate for this work reduces its amount from Rupees 13,900 to Rupees 4,900.

4. With the Acting Manager's letter No. 68, an estimate of Rupees 650 for the repair of the Telegraph line was submitted, and it was proposed to meet this expenditure out of the sum allowed for contingencies in the estimate for the Upper Section; but as that sum under Revenue will be comparatively small if the charges be distributed between Capital and Revenue, it will be better to provide for the telegraph specially.

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26th May 1873.*

5. Under the circumstances above explained, it is recommended that the sanction given in the Order of the 21st February last, No. 586, be modified as follows:—

	rs.
Capital, main supply, new face-wall, 29th mile, in front of core puddle-wall	4,900
Contingencies 5 per cent...	245
Total main supply...	5,145
Distribution as given in this Office letter No. 142, dated 24th March 1873...	955
Total distribution...	955
Total Capital...	6,100
Revenue charges as shown in letter No. 142	17,625
Toe-wall, Teragopila embankment	788 8 0
Telegraph line	650 0 0
Contingencies	71 8 0
	1,510
Total Revenue...	19,135

(Signed) J. MULLINS, Lieut.-Colonel, R.E.,
Chief Engineer for Irrigation.

No. 366. ORDER THEREON, 26th May 1873, No. 1,427.

IRRIGATION, No. 22.

His Excellency the Governor in Council considers that it is necessary to maintain the distinction between charges debitable to Capital and Revenue respectively, and as it has been shown that, in the repair estimate sanctioned in G. O. of the 21st February last, No. 586, certain items belonging to Capital under main supply and distribution were included, it is requisite to modify that sanction which will, with the addition made for the repair of the telegraph line, stand as follows:—

	rs.
Capital, main supply, 2nd Section ..	5,145
Capital, distribution, Upper Sections	955
Total Capital...	6,100
Revenue, repairs of Upper Sections	19,135

2. The Chief Engineer for Irrigation will take care that for the future estimates are more fully examined with reference to the proper incidence of the charges before they are submitted for sanction.

(True Extract.)

Colonel, R.E.,

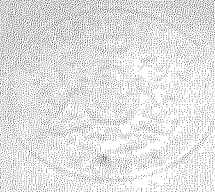
Secretary to Government.

To the Chief Engineer for Irrigation.

„ Acting Manager of the Madras Irrigation and Canal Company.

„ Examiner of the Madras Irrigation and Canal Company's Accounts.

Exd. E. C. Shunker.



No. 9.

Letter No. 142 to Acting Manager Madras
Irrigation & Canal Company
— " — 83 from — do. — do. —
— " — 68 from — do. — do. —

Enclosures 6

Submitted for the con-
sideration of Government.

2. The examination of the esti-
mate for the maintenance of the
Lower Sections of the Company's canal
having shown that many items
appertaining to Capital had been

* sanctioned
in G.O. No. 586
dated 21 Feb'y
1873.

included therein, the estimate for
the Upper Sections was re-examined,
and it was found that not very far
short of one half of the amount was
for works properly forming a capital
charge. The Acting Manager was
therefore addressed, and his reply
and that of the Chief Engineer are
now submitted.

3 It will be seen that the
Chief Engineer has shown that the
for

for wall of the Teragopila embank-
 ment in the 5th Section may be
 treated as a Revenue charge, but
 all the rest of the items, which
 were considered to be debitable to
 Capital, appear clearly to belong to
 that account. The face wall in the
 29th Mile is a work precisely similar
 in its character and intention to the
 series of works constructed for stop-
 ping leakage, and though in one
 instance the Chief Engineer points
 out that work of this kind was
 passed as a Revenue charge, this
 was probably an oversight as it
 was presented apparently in a
 bill of cost for work actually
 done. A large amount has been
 debited to Capital for similar work
 in the 2^d Section, and there is nothing
 in the present case to make any
 different treatment necessary. It will
 be

G. O. 8th Jan
 1873
 Para 2 of Chief
 Engineer's report

he noticed that the revised estimate
 for this work reduces its amount
 from Rupees 13,900 to Rupees 4,900.

4 With the Acting Manager's
 letter No 68 an estimate of Rupees
 650 for the repair of the Telegraph
 line was submitted, and it was
 proposed to meet this expenditure
 out of the sum allowed for con-
 tingencies in the estimate for the
 upper sections; but, as that sum
 under Revenue will be comparatively
 small, if the charges be distributed
 between Capital and Revenue, it will
 be better to provide for the Telegraph
 specially.

5 Under the circumstances above
 explained it is recommended that
 the sanction given in the order of
 the 21st February last No. 586 be
 modified as follows.

Capital, main supply, new face	Rupees
wall 29 th Mile, in front of	
core puddle wall	4900.
Contingencies 5 percent	245
Total main supply	5145

Brought over — 5145.

Distribution as given in this
Office letter No. 142 dated
24th March 1873. —————

955
Total Distribution — 955

Total Capital Repairs — 6100

Revenue charges as shown in
letter No. 142 ————— Rupees — 1762.5

Tax wall Teragopila
embankment } 788-8-0

Telegraph line — 650-0-0

Contingencies — 71-8-0 1510

Total Revenue Rs. 19135

Post Saint George

25th April 1873 } Voluntary Lieut. Col. R. S.

Chief Engineer for Irrigation

To The Secretary to Government

Public Works Department.

Brought over — 5145.

P.C. & Lamy / 73-113-114
" 21 Feb'y — 51402
578 }

P.W. 1873, P. 9th
From / P. 2 of 42
The Chief Engineer for
Navigation
To the Secretary of Govt.
P. D. D.

Dated 25th April
Received 3rd May 1873.

Enclosed 6.

No. 9.

Recommends that the
Sanction given in the
Order of the 21st Febru-
ary last No 581 for the
estimate of the main-
tenance of the Upper
section of the M. S. & C.
Company's Canal be made
good as shown within.

At 1127-26 May 73.

No 265

Refer to Order 3 May 73

No 1127 P. D.

Pro: of the Madras Prob.

Read the following:-

From the Engineer for Govt. (H.E. No 9 of 25th April 73)

His Excellency
the Governor in Council
considers that it is neces-
sary to maintain the
distinction between charges
debttable to Capital and
Revenue respectively, and
as it has been shown
that, in the repair esti-
mate sanctioned in G.O.
of the 21st February last
No

No 586, contains items belong
to Capital under main
Supply and Distribution, ^{were included,}
it is requisite to modify
that sanction which will,
with the addition made
for the repair of the Tele-
graph line, stand as follows.

Capital, main Supply	}	Rupees 5145
2 ^d Section		
do - Distribution	}	" - 955
Upper Section		
<u>Total Capital - 6100</u>		

Revenue. Repairs of
Upper Section - " 19135

2 The Chief En-
gineer for Irrigation will
take care that, for the future,
estimates are more fully
examined with reference
to the proper incidence of
the

The Charges, before they
are submitted for sanc-
tion.

Wm 30/4/73
G.M.M.

To the Chief Eng^r for Irrigation
at Fort & Bangalore In. L & B Company
Examiners of L & B Company's Accounts

Recd. 30-4-73-

17-365-66

Mr. P. G. Bly 8 May 1973

C 2742

GOVT. OF INDIA

PUBLIC WORKS

The Chief Engr for
Bengal

26th May 1873

2651 866

Madras I R. for Tanab.

Passing orders ^{endorsement} on ~~the~~
The Chief Engr for Bengal
on letters from the Agent
of the M. S. & C. Co. relating
to the modification of
the estimate sanctioned
in L. & S. 586 of 1873 for
the maintenance of the
Canal during 1873.