

(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.	77/8	Press
		Mis.
Dated	20	18/11.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
20th March 1872.*

No. 486. Read the following letter from the Superintending Engineer, 4th Division, to the Secretary to Government, Public Works Department, dated Madras, 18th March 1872, No. 5,048:—

With reference to G. O. of the 12th February 1872, No. 414, I have the honour to forward, for disposal of Government, a Note by me on the Chembrumbaukum Tank Project. I have been induced to write this as the Collector of the district is away on Jummalibundy, and I am about to go to England on leave—the two Members of the Committee appointed by Government—so that if not sent up at once the report would be delayed for some time, and I know that His Excellency Lord Napier was very anxious it should be sent up at once to Calcutta whilst he was there.

2. It will be seen that Mr. Banbury's report contain all that is required, but that I propose to alter the amount of the estimate to be debited to Loan Funds by a certain amount that should never have been entered on it, and I consider the amount of water has been under-estimated, so it may go up now under much more favourable terms.

3. With regard to my proposed alteration in design of the head sluice, I have not taken that into consideration with expenditure at all, so that it need not cause delay. I would most strongly urge on Government the submission of this project to the Government of India without a day's delay.

Note by Colonel C. V. WILKIESON, R. E., Superintending Engineer, 4th Division, on the Chembrumbaukum Tank Project.

In Government Order of 12th February 1872, No. 414, in paragraph 4, a Committee was ordered with the object of placing before the Government of India a complete and trustworthy statement by which it may be judged to what extent the Chembrumbaukum Project can be executed from Loan Funds.

2. As His Excellency Lord Napier was very anxious that this statement should be sent up to the Government of India as soon as possible, and as there seems not much chance, in the absence of the Collector, that the Committee can consult together, I have thought it best to record the following short remarks in hope that it may be sent up to Government at once.

3. I have received Mr. Banbury's report to the Board, and I am quite ready to accept the statement made out on the data that the estimated cost is Rupees 4,14,000, and amount of available water for cultivation is 88,500,000 cubic yards. The return would then be Rupees 17,442, or 4.21 per cent on the outlay.

*Proceedings of the Madras Government, Public Works Department,
20th March 1872.*

4. In the first place I consider that Major Mullins has very much under-estimated the amount of water the tank is capable of holding, namely, 102 millions cubic yards, and this year there was actually at one time stored in it 82 millions cubic yards, with the calingulabs only raised 3 feet instead of the ultimate height of 6 feet.

5. Then as continual extra supplies are coming to supplement the full capacity when certain quantities are taken off for cultivation from the first uncertain supply in July in the south-west monsoon to the more certain supply in September, October, and November, that we may take very safely 100 millions cubic yards as the usual quantity available; this will be 12 millions cubic yards over Mr. Banbury's estimate, or sufficient for 1,800 acres of new cultivation, which, at Rupees 5 an acre, would add Rupees 9,100 to the anticipated return, making it Rupees 26,540 or 6.5 per cent. This we may safely take as Mr. Banbury informs that there is plenty of spare land to bring under cultivation.

6. Now with regard to the estimate itself. I do not consider it is fair in taking the lesser project to saddle it with the extra cost of work which has been expended in anticipation of the large or 15 feet project; this amount in all to the large sum of Rupees 1,11,141 as shown in Major Mullins' exhaustive report, (paragraph 9) of the 30th November 1870, No. 246, and in Mr. Lowry's letter, which were amongst the papers attached to G. O., 9th March 1871, No. 705. There is no doubt that this amount is already expended, but it ought to go to profit and loss out of general revenue, and not be added to the amount of estimate. Major Mullins did deduct the amount in one Memorandum, but not in one of later date. I therefore hold that amount to be obtained from Loan Funds should only be Rupees 4,14,000 — 1,11,141 = Rupees 3,02,859, and it is on this sum that percentage of profits should be calculated; in which case we should have profits Rupees 26,540 on an expenditure of Rupees 3,02,859, or 8.75 per cent. of profits.

7. With reference to paragraph 6 of the Government Order under notice calling on the Superintending Engineer to submit to Government any suggestions he may have to make on the modification of the plans, I would only recommend that the head sluice be reduced from 21 openings of 7' x 5' to 12 openings of same dimensions, as I consider this quite sufficient. Major Mullins has calculated on the ground that the river comes down in heavy flood for a few hours yearly, so his object was to have a big sluice to catch all the water, whilst from actual observation I find that the floods are never heavy but much lighter than expected, and at the same time of much longer duration, so a narrow sluice may well answer all the purpose required. This will reduce the cost by at least 10,000 Rupees. I have not entered this in the calculation. There is another object in not making so large a sluice, for it would almost destroy the village of Koratoor, and the large tope outside of the river will have to be destroyed, whereas the same object could be gained by bunding each side of the river Cooum to prevent the water extending.

*Proceedings of the Madras Government, Public Works Department,
20th March 1872.*

Statement showing the expenditure on Chembumbaukum Tank Project from the commencement of the work up to 31st January 1872 from Local Funds as well as from Extraordinary Grants:—

Year.	Ordinary.	Extraordinary.	Total expenditure up to 31st January 1872.
	RS. A. P.	RS. A. P.	RS. A. P.
1868-69		1,04,743 2 0	1,04,743 2 0
1869-70		90,221 4 1	90,221 4 1
1870-71	39,585 4 10		39,585 4 10
1871-72 up to 31st Jan. 1872 ...	24,215 3 10		24,215 3 10
Total ...	63,820 8 8	1,94,964 6 1	
Add for February and March as probable outlay ...	11,606 12 2		
	75,427 4 10	1,94,964 6 1	2,70,391 10 11
Amount of estimate for the 6 feet project...		4,14,000 0 0	
Deduct expenditure up to date from Loan and Ordinary Funds.		2,70,392 0 0	
		1,43,608 0 0	Balance required to complete the project.

MADRAS,
18th March 1872.

(Signed) C. V. WILKIESON, Colonel, R.E.,
Superintending Engineer, 4th Division.

No. 487. ORDER THEREON, 20th March 1872, No. 798.

IRRIGATION, No. 22.

COMMUNICATED to the Board of Revenue with a request that they will consider Colonel Wilkieson's report in connection with that submitted by Mr. Banbury and submit their views on the whole question with all practicable expedition to enable the Government to address the Government of India on the subject. The Board will not await the report of the Committee appointed in G. O., 12th February 1872, No. 414, as circumstances prevent the Committee meeting.

(True Extract.)

(Signed) J. CARPENDALE, Colonel, R.E.,
Secretary to Government.

To the Board of Revenue.
,, Superintending Engineer, 4th Division.

Ed. T. O'Connor.

P. W. Finckh
L. H. H.

the first point for consideration
where we are to set down the
cost of the work at R. 302,859.
which is what the scheme will
only cost - or at R. 414,500. which
is its real cost + R. 111,641. Spent on
the large original scheme - but quite
unconnected with it and useless to
the scheme. I incline to the
decision of the latter sum - it
must, I think, be set down as
one of our "failures". The scheme
as now planned, does not benefit
it in the least - so far as it is concerned.

concerned, the money might as well
have been thrown in to the main sink
- for instead of spending it as he
did, Mr. Fraser had better with
it, it would hardly be fair to debt
the new scheme with it. I would
have far prefer to include the same in the
calculating the interest.

2. I would accept the 14th calc.
calculation of net assets - in all some
one particular, the fair by calculation
of remissions - Mr. Hamberg shows
that there have averaged 15.388 Rs
annually during the last 15 yrs.

He proposes however to take only
12785 on their account as in
tion of the year the remissions
have been unusually large. I do
not admit this argument
off these years have been bad.
Several other years were remarkably
good - they have been very very
life by taking the last 15 years
average - in stead of only
10000 Rs. as proposed by the
Mr. Hamberg.

3. He proposes to take credit
for at least 1000 Rs. or as

- Comd of the great calamity of
the famine. This is safe enough con-
sidering that he may get 822 lb.
The opposite of these figures will
be a little more than 7 lb per cent
on the 312,859 lb.

I do not think it could be
safe to reduce the rate of 1 lb per cent

W.H.

J.D.P.

Note

I will not delay the letter to the Govt of India by
differing from Mr. Sim. but I confess that I
am not convinced that we ought to exclude
the cost of the works work ~~part~~ of the original
scheme.

H.H. The Govt. wishes the letter to the Govt of India to
be sent without waiting for his return. W.H.

As 5048 Surg. Eng. Office 4th L.
Mars 18th March 1872.

From
Colonel C. J. Wilson R.E.
Surg. Eng. to Division
Lt.
Colonel Campbell R.E.
Secretary to Government
P. H. Depart.

Enclosures 2

A note &

with Mr
Bourne's
report.

Sir. With reference to G.O. of the
12th February 1872. H. 414 I have
the honor to forward for disposal
of Government a note by me on
the Chamberlain's Indian Project.
I have been induced to write this as
the Collector of the District is away
on furlough and I am about to go
to England on leave, the two members
of the Committee appointed by Government
so that if not sent up at once the
report would be delayed for
some time and I know that Mr. Evelyn
Lord Ripon was very anxious
it should be sent up at once to
Calcutta whilst he was there.

2 It will be seen that
Mr. Bourne's report contains

all

all that is required, but that I
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estimate to be debited to Loan
Funds by a certain amount that
should never be entered on it
and I consider the amount of water
has been under estimated so it may
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favorable terms.

With regard to my proposed
alteration in design of the Head Race
I have not taken that into
consideration with expenditure at
all so that it need not cause
delay. I would most strongly
urge on Government the submission
of this project to the Government
of India without a days delay.

I have the honor to be
Sir
Your most obedt servant

Wm. L. Colman Esq.
Supt Engineer to Govt

Note by Colonel R. J. Nicholson M.B. Esq.
Engineer to Division on the Chembumbachun
Tank Project.

An Government Order of 12
February 1872 No. 414 in Para 4 a
Committee was ordered with the object
of placing before the Government of
India a complete and trustworthy statement
by which it may be judged to what
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As His Excellency Lord
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statement should be sent up to the
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possible and as there seems not much
chance in the absence of the Collector
that the Committee can consult together
I have thought it best to record the
following short remarks in hopes that
it may be sent up to Government at
once.

I have received Mr. Penbury's
report to the Board and I am quite
ready to accept the statement made
out on the data that the estimated
cost is Rs 4,40,000 and amount

of

of available water for cultivation is 88,500,000 cubic yards. The return would then be Rs 17,442 or 4.21 per cent on the outlay.

In the first place I consider that Major Mullins has very much under estimated the amount of water the Tank is capable of holding viz 102 Millions Cubic yards, and this year there was actually at one time stored in it 82 Millions Cubic yards with the Cabajulahs only raised 3 feet instead of the ultimate height of 6 feet.

Then as continual extra supplies are coming to supplement the full capacity when certain quantities are taken off for cultivation from the ~~first~~ uncertain supply in July with the South West Monsoon to the more certain supply in September October and November that we may take very safely 100 Millions Cubic yards as the usual quantity available this will be 12 Millions Cubic yards over Mr. Ranbury's estimate or sufficient for 1800 acres of New Cultivation. which at Rs 5 an acre would add Rs 9000 to the anticipated return, making it Rs 26,540 or 6.5 per cent. This we may safely take

take as Mr. Ranbury informs that there is plenty of spare land to bring under cultivation.

Now with regard to the estimate itself I do not consider it is fair in taking the lesser project to saddle it with the extra cost of work which has been expended in anticipation of the large or 15 feet project, this amount in all to the large sum of Rs 1,11,141 as shown in Major Mullins's exhaustive report (Para 9) of the 30th November 1870 No. 246 and in Mr. Lowry's letter which were amongst the papers attached to S.O. 9 March 1871 No. 705. There is no doubt that this amount is already expended but it ought to go to profit and loss out of General Revenue and not be added to the amount of estimate. Major Mullins did deduct the amount in one Memorandum but not in one of later date. I therefore hold that amount to be obtained from loan funds should only be Rs 4,14,000 - 1,11,141 = Rs 3,02,859 and it is on this sum that per centage of profits should be calculated. In which case we should have

Profits

profits $\$26,540$ on an expenditure
of $\$302,859$ or 8.75% per cent of
profits.

With reference to the
Government Order and
notice calling on the Engineer
to submit to Government
any suggestions he may have to
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that the Head Sluice be reduced
from 21 openings of $7' \times 5'$ to 12

openings of same dimensions
as I consider this quite sufficient.
Major Mullins has calculated
on the ground that the river comes
down in heavy flood for a few
hours yearly so his object was
to have a big sluice to catch all
the water whilst from actual
observation I find that the floods
are never heavy but much lighter
than expected and at the same time
of much longer duration so a
narrow sluice way will answer
all

all the purpose required. This will
reduce the cost by at least $10,000\%$.
I have not entered this in the
calculation. There is another object
in not making so large a sluice
for it would almost destroy the
village of Koratoo and the large
tote outside of the river will have
to be destroyed whereas the same
object could be gained by building
each side of the River Coorm to prevent
the water extending -

Supy Engr & Officer
to the
Major
18th March 1892

W. W. W. Coll 98.
Supy Engineer & Division

Statement showing the expenditure on Chamberlain's
 Irrigation Bank Project from the Commencement
 of the work up to 31 January 1872 from Local
 Funds as well as from Extraordinary Grants.

Year	Ordinary	Extraordinary	Total expenditure up to 31 January 1872.
------	----------	---------------	--

1868/69	"	104,743-2-	104,743-2-
1869/70	"	90,221-4-1	90,221-4-1
1870/71	39,585-4-10	"	39,585-4-10
1871/72 up to 31 Jan'y 1872	24,235-3-10	"	24,235-3-10

Total of £ 63,820-8-8 194,964-6-1

Added for Salary
 and March
 as probable
 outlay

75,427-4-10 194,964-6-1 270,391-10-10

Amount estimated for the object of the Project 414,000-
 Balance expended up to date from Local
 and Ordinary funds 270,392-
 143,608- to complete the Project

Sup. Engr. Office
 18 March 72
 Wm. Vignar Col. 976
 Sup. Engineer & Co.

1018
No 1373
From Board of Govt. of Madras
The Superintending
Engineer 4th Div.

To the Secretary
to Government P.W.D.

dated 18th March 1872
No. 19
No. 5048.

Forwarded for dis-
posal a Note by
Colonel Wilkison
on the Chembaram
Run Tank Project.

No 798. 20th Feb 72

No 486.

Read the following
The Superintending
4th Division

Communicated
to the Board of Rev.
with a request that
they will consider
Col. Wilkison's report
in connection with
that submitted by
Mr. Bannister and
submit their views
on the whole question
with all practicable
expedition to enable
the Govt. to address
the Govt of India
on the subject -

The Board will
not defer submitting
their reply ~~relative~~
await the report of the Com-
mittee appointed
in P. O. 12th Febry
1872. In 4th & 14th ~~the~~
circumstances prevent
the former meeting

14 April 70

B. of Rev
S. Edwards Esq

M. Schipke to the 14th 20.5.72
" " 4th Dec 22.5.72
P. C. deep 9/11/72 to the

8/2/1373

Roll of 1872-73
PUBLIC WORKS.

The Board of Revenue

20

20

20

20

20th Decr 798

486 & 487

Chemburhaham Tank

Project. Letter from the
High Secy to the Govt, sub-
mitting, with remarks,

note on the Chemburhaham
Tank Project,

sent to the Board of

Rev. with instructions