

(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.

B.P. No.

1465 (2)

Press

Mis.

Dated

13-6-

1876

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
13th June 1876.*

Read the following papers:—				
No. 209.	From Suptg. Engr., Coimbatore, No. 122,		29th February 1876.	
No. 209-A.	To do. do. " 3 C.-I.,	27th March	"	
No. 209-B.	From do. do. " 1	1st April	"	
No. 209-C.	To do. do. " 8 C.-I.,	28th "	"	
No. 209-D.	To Chief Engr., P.W.D., Mysore, " 33 M.,	28th "	"	
No. 209-E.	From do. " 945,	10th May	"	
No. 209-F.	From Suptg. Engr., Coimbatore, " 21,	15th "	"	

No. 68 W.

No. 209-G. *Note by the Chief Engineer for Irrigation.*

In G.O. of the 26th May 1875, No. 1,471, an estimate of Rupees 2,500 was sanctioned to protect valuable lands on the right bank of the Cauvery near Humpapooram from further erosion, and in the note on this estimate it was remarked that in some respects the information afforded by the Superintending Engineer, Coimbatore, was insufficient.

2. In G.O., No. 318, of the 5th February, the report of the Superintending Engineer on the results of the work done in 1875 was reviewed, and it was noticed that the sketch submitted was too rough to allow of a correct idea of the circumstances being formed. It was also remarked that with out more complete surveys and a clearer demonstration of what is intended to be done on the right bank, there will be considerable risk of any prejudicial changes on the left* bank being attributed to the operations carried on under the orders of the Superintending Engineer.

3. With his letter of the 29th February last, the Superintending Engineer forwarded an estimate of Rupees 1,250 for improving the groynes put up the year before, and for nanal planting, &c., and he was informed that before any further expenditure could be sanctioned a proper survey would be required and instructions in connection therewith were given.

4. In his reply to this communication, the Superintending Engineer stated that the work to be done was emergent, the river admitting of nanal planting only in February and March, and that something under 850 Rupees had probably been expended up to the end of March. He also intimated that the right bank a little way above the Honully river and the left bank entirely were in Mysore territory, and he could not, therefore, submit the information based upon a survey and levels which had been called for, and he added that could this information be given it would be of no use, as defences could be put up only to prevent further erosion near Humpapooram, and that a proper alignment could not be laid down, only one side of the river being under the Madras Government. The Superintending Engineer did not apparently understand his instructions, for, of course, the proper alignment of the river and the best alignment of the particular part of the right bank which was under treatment were determinable from the circumstances of the river independently of any work which might be required and might or might not be undertaken in Mysore territory. The character and results of the defensive works near Humpapooram were capable of being

*Proceedings of the Madras Government, Public Works Department,
13th June 1876.*

affected by what might be done or left undone in Mysore territory, but supposing that nothing were done there, it would still be proper to ascertain the circumstances of the river and to arrange for the Humpapooram defensive works being properly laid out, and for a definite scheme of work being decided upon.

5. To enable the surveys and levels to be completed as far as might be necessary, the Chief Engineer in Mysore was addressed and the requisite permission obtained,* and it will be seen that the remark at the

* No. 33 M, 28th April.
„ 945, 10th May 1876.

end of G.O., No. 318, of the 5th February 1876, was not made too soon, and that the Humpapooram defensive works are already considered to be injurious to the Mysore bank of the river, though, as far as the undersigned is able to judge, the idea that they have so acted prejudicially is probably based on a misconception, which will be removed on furnishing the Executive Engineer with a copy of the survey when completed, which should be done.

6. The survey and sections submitted by Colonel Wilkieson give much better information as to the circumstances than the previous survey and sketch afforded, and show how very rough and incorrect these were. The survey, however, must be extended both up and down the river for at least a mile, and possibly more, to enable reliable conclusions to be arrived at as to what should be done further in the way of defensive works and reclamation, though an alignment, which probably will not be far wrong, may be laid down on the survey as it is, and this has been done by a blue interrupted line, and by pencil lines has been roughly indicated the way in which the nanal planting will probably be most effectively carried out, and the correct alignment worked out to in three or four seasons. The survey as submitted indicates no plan of operations. Nanal planting should not, it is thought, be deferred until February, but should follow the falling water after the November freshes, as then it may be expected that it will become thoroughly rooted while there is sufficient moisture, without artificial watering, a very expensive arrangement, added to which watering is no effective substitute for an abundance of moisture in the soil.

7. On the survey near the lower end a fifth groyne is marked as proposed, but there appears to be no item in the estimate for it, and its intended length and direction have not been indicated. It would seem, moreover, that a groyne in that position would be useless, and that thereabouts the existing line of bank, if on the proper alignment, need be protected only by a narrow strip of wild cane and nanal. If another groyne be necessary, it should be placed some 120 yards higher up, towards No. 4 groyne.

In the estimate there is provision for constructing a groyne at the head of durbah embankment, but this work is not indicated on the survey, and it is not understood what purpose it is to serve. If it is to divert the Honully stream from the point where a small stream is shown as crossing the line of the embankment, unless it be made very oblique it may do more harm than good, and a modussil facing would seem to be more appropriate than a groyne to afford protection while a growth of wild cane and nanal is established.

8. There is a want of correspondence between the survey and cross sections in some places, e.g., there is a distance of 400 feet on the cross section, and of about

*Proceedings of the Madras Government, Public Works Department,
13th June 1876.*

700 feet on the survey between the edge of the channel of the river coloured blue and the bench mark on the left bank, and there are somewhat similar variations elsewhere.

9. The estimate has not been corrected or made clearer with reference to paragraph 4 of this office No. 3 C.-I.

10. In order to the adjustment of expenditure, it appears necessary that the estimate, dated 12th February 1876, should be sanctioned, and the Superintending

Rupees 1,250.

Engineer should take care that his report on the work of the current year and his proposals for next year are fully and clearly made out. The waterspread in floods should be shown on the survey on the right bank, and if the highest fresh tops the river bank on both sides, which does not seem to be probable, seeing that this would indicate a depth of water of over 20 feet, the water level should nevertheless be marked.

11. The reclamation up to the blue line will be about 52 acres.

OOTACAMUND, (Signed) JOHN MULLINS, Lt.-Col., R.E,
29th May 1876. Chief Engineer for Irrigation.

P.S.—An additional letter, No. 25 C.-I., from the Superintending Engineer, written after the letter from the Chief Engineer in Mysore had been communicated to him, is also submitted.

(Signed) JOHN MULLINS.

6th June 1876.

No. 210. ORDER THEREON, 13th June 1876, No. 1,465.

IRRIGATION, No. 16.
Account.

* Called Miscellaneous in Budget Preliminary Issue.

THE estimate of Rupees 1,250, for defensive works on the right bank of the Cauvery near Humpapooram, is sanctioned under Ordinary Agricultural Works for which no Capital or Revenue Accounts are kept, River Conservancy, and the work

will be chargeable to the district repair grant under that head.*

(a) Head of Service.—Irrigation.
Fund.—Ordinary Agricultural.
Class.—Repairs.
No. 47-I. of 1876-77.—Defensive works on the right bank of the Cauvery near Humpapooram.
Estimate No. 14 of 1876-77.—Rupees 1,250.
To be carried out by the Public Works Department.

2. This sanction has been registered as shown in the margin.

(True Extract.)

Colonel,

Offg. Under Secy. to Govt., P.W.D.

To the Superintending Engineer, Coimbatore.
„ Collector of Coimbatore.
„ Chief Engineer for Irrigation.
„ Examiner of Public Works Accounts.
„ Revenue Department.

Exd. W. J. Lewis.
Spare Copies

57 10 1
From P.E. Coimbatore No 122- 29 Febr/76
To do " 3C.I. 27 March
From do " 1- 1st April
To do " 8C.I. 28 do
To Chief Eng. P.W.D. Mysore. 33 M. do -
From do " 945 - 10 May/76
" R. Coimbatore " 21 - 15 May/76

No 68 W

Note by the Chief Engineer for Irrigation.

Encls 10.

In G.O. of the 26th May
1875, No 1471, an estimate of
Rupees 2500 was sanctioned
to protect valuable lands
on the right bank of the
Canary near Nimpapooram
from further erosion, and in
the note on this estimate it
was remarked that in some
respects the information af-
forded by the Superintending
Engineer, Coimbatore was

insufficient.

2. In G.O. No 318 of the 5th February the report of the Superintending Engineer on the results of the work done in 1875 was reviewed, and it was noticed that the sketch submitted was too rough to allow of a correct idea of the circumstances being formed. It was also remarked that without more complete surveys and a clearer demonstration of what is intended to be done on the right bank there will be considerable risk of any prejudicial changes on the left bank being attributed to the operations carried on under the orders of the Superintending Engineer.

3. With his letter of the

29th February last, the Superintending Engineer forwarded an estimate of Rupees 1250 for improving the groynes put up the year before, and for manel planting &c, and No 3 C.I. 27 March he was informed that before any further expenditure could be sanctioned a proper survey would be required and instructions in connection therewith were given.

No 1-1st April &c. In his reply to this communication, the Superintending Engineer stated that the work to be done was emergent, the river admitting of manel planting only in February and March, and that something under 850 Rupees had probably been expended up to the end of March. He also intimated that the right

bank a little way above the Hornully river and the left bank entirely were in Mysore territory and he could not, therefore, submit the information based upon a survey and levels which had been called for, and he added that could this information be given it would be of no use as defences could be put up only to prevent further erosion near Humpapooram, and that a proper alignment could not be laid down, only one side of the river being under the Madras Government. The Superintending Engineer did not apparently understand his instructions, for, of course, the proper alignment of the river and the best alignment of the particular

part of the right bank which was under treatment were determinable from the circumstances of the river independently of any work which might be required and might or might not be undertaken in Mysore territory. The character and results of the defensive works near Humpapooram were capable of being affected by what might be done or left undone in Mysore territory, but supposing that nothing were done there, it would still be proper to ascertain the circumstances of the river and to arrange for the Humpapooram defensive works being properly laid out and for a definite scheme of work being decided upon.

5. To enable the surveys

and levels to be completed
as far as might be necessary,
the Chief Engineer in Mysore
was addressed, and the
requisite permission obtained, No 338 M. 28 April
and it will be seen that the
remark at the end of G.O.
No 318 of the 5th February 1876
was not made too soon, and
that the Numpapooram de-
fensive works are already
considered to be injurious
to the Mysore bank of the
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undersigned is able to judge
the idea that they have so
acted prejudicially is probably
based on a misconception,
which will be removed on
furnishing the Executive
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should be done.

15th May. 6. The survey and sections
submitted by Colonel Wilkie-
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and possibly more, to enable
reliable conclusions to be
arrived at as to what should
be done further in the way of
defensive works and reclama-
tion, though an alignment,
which probably will not be
far wrong, may be laid down
on the survey as it is, and
this has been done by a blue
interrupted line, and by pencil
lines has been roughly indicated

the way in which the canal
planting will probably be
most effectively carried
out, and the correct align-
ment marked out to in
3 or 4 seasons. The survey
as submitted indicates no
plan of operations. Canal
planting should not it is
thought be deferred until
February, but should follow
the falling water after the
November freshes, as then it
may be expected that it will
become thoroughly rooted
while there is sufficient mois-
ture, without artificial water-
ing, a very expensive arrange-
ment, added to which watering
is no effective substitute for
an abundance of moisture
in the soil.

7 On the survey near the

lower end a 5th groyne is marked
as proposed, but there
appears to be no item in the
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not been indicated. It would
seem, moreover, that a groyne
in that position would be use-
less and that thereabouts the
existing line of bank if on
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protected only by a narrow
strip of wild cane and navel.
If another groyne be necessary,
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120 yards higher up, towards
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on the left bank and there are somewhat similar variations elsewhere.

9. The estimate has not been corrected or made clearer with reference to para 4 of this office No 3 C. I.

10. In order to the adjustment of expenditure it appears necessary that the estimate dated 12th February 1876 should be sanctioned, and the Superintending Engineer should take care that his report on the work of the current year and his proposals for next year are fully and clearly made out. The water spread in floods should be shown on the survey on the right bank, and if the highest fresh tops the river bank on both sides, which

Rupus 1250

P. 4. 1876 Dept.
- 11288

does not seem to be probable,
seeing that this would in-
dicate a depth of water
of over 20 feet. The water level
should nevertheless be marked.
11 The reclamation up to
the blue line will be about
52 acres.

Voluntarily
S. Colwell,
Chief Engineer for
Ostacumind }
29th May 1876 } Irrigation

P.S. An additional letter no 25 C.I. from 23 May 1876
the Superintending Engineer written after
the letter from the Chief Engineer in Mysore
has been communicated to him &
also submitted.

W. 6/6
To
The Secretary to Govt. P.W.D.

re chargeable to the

Issue Case.

FORMER CASES.

I. E. Form No. 81.

R No. 21C of 1876
 " 9C of 76
 R 34C of 76
 " 8C of 76
 R 10C of 76
 " 3C of 76
 R 3C of 76
 140 M 1471 75
 31895-2-76

Issue No. 68 W.

Dated 29 May 1876.

LATER CASES.

R No. 24C of 1876
 " "

Sent to Government with No.

18

W. of

Printed with G. O. No.

dated

REMINDERS ISSUED.

No. 1, dated	187
" 2, "	"
" 3, "	"
" 4, "	"
" 5, "	"

KEEP-WITHS.

P. H. 1876. Department
 The Chief Engineer for Irrigation.

RECEIPT No. 21C

Dated 17th May 1876.Received 18th June 1876.

-S. B. W.

Subject:—

Survey of the
Canary River banks
at Hampapooram.
 Note submitting corres-
 pondence relative to the

ENCLOSURES.

//

PROCEEDINGS of the MADRAS GOVERNMENT.

UNDER date the 13 June 76.

READ the following:—

From the Chief Engineer for
 Irrigation { H. E. Niswonger 29 May 76 }

The estimate of
 Rupees 1,250 for de-
 fensive works on
 the right bank of
 the Canary near
 Hampapooram is
 sanctioned under
 Ordinary Agricultural
 Works for which no
 Capital or Revenue
 Accounts are kept,
 River Conservancy,
 and the work will
 be chargeable to the

District repair
grant under that
head.

by 30/5

* called miscellaneous
in Budget Preliminary
Scene.

This sanction has been
registered as shown in the
Mangri -

Hand Service - Irrigation
Fund - Ordinary Agriculture
Class - Repairs -

No 47 I of 1876-77 - Defensive works on the right
bank of the Lannay near
Munpapuram -

Estimate No. 14 of 1876-77 -
Rupees 1250 -

To be carried out by the Public
works Department.

S. E. Corbinet
Collection - do -
C. E. for J. with 11 Encl.
En. P. L. A.
Re: Sept.

No 209-260

Set off 29/6/76

4288✓

Gobt. of 1876 Madras.

PUBLIC WORKS.

4288 ✓
The Sup^r Eng^r Combrator

Index

Issued

Recd

Recd

G. O. 13th June 1876, No. 1145

No. 2098 210

Defensive works on the
right bank of the Cauvery
near Hampur and
Coimbatore R. Estimate
of Rs 1250 for —

sanctioned
Supt^r Engr^r
30-1-76