

(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.	2807	(2)	Press
B.P. No.	2807		Mis.
Dated	29. 9.		1875

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
29th September 1875.*

No. 647. Read the following endorsement of the Chief Engineer for Irrigation,
dated Ootacamund, 23rd September 1875, No. 1,097.

From Lieutenant D. McNEIL CAMPBELL, R.E., Executive Engineer in charge
Kistna District, to Major J. O. HASTED, R.E., Officiating Chief Engineer
for Irrigation, dated Masulipatam, 14th June 1875, No. 27.

I HAVE the honor to annex a list of Irrigation works in Kistna Delta damaged
by Kistna floods of September 1874, the cost of repairs to be done this year amounting
to Rupees 51,594. This amount will, therefore, absorb nearly two-fifths of the budget
grant (1,30,000 Rupees), and the balance will undoubtedly be found inadequate for the
execution of ordinary repairs of the delta,

for which sums marginally noted were
spent during the last two years, and similar
expenditure is anticipated this year also
for the upkeep of Agricultural works for the protection of revenue. I therefore request
you will be so good as to arrange for an additional allotment (say, 40,000 Rupees at
least) being granted to this district.

	Alloiment. RS.	Expenditure. RS.
1873-74 ...	1,53,000	1,53,054
1874-75 ...	1,59,600	1,57,089

List of Irrigation Works suffered from Kistna Flood of September 1874.

Range.	Name of Work.	Amount of Estimate.	Balance to be worked out this year, 1875-76.	Remarks.
1st Range ...	Closing breaches of river embankment between Vallabhapuram and Seemangam.	2,345	834	The banks were considerably weakened by floods. The salt was deposited when breaches occurred.
	Closing breaches of western bank channel from Vallabhapuram to Kolloor.	13,450	5,253	
	Closing breaches of western bank channel from Kolloor to Terminus.	5,890	2,079	
	Closing breaches of Thollavaga channel.	2,000	1,405	
	Do. of Ekampally do.	3,180	277	
	Do. of Ekampally do.	5,265	5,265	
	Strengthening banks of western bank channel from Kolloor.	18,630	13,650	
	Clearing and closing breaches of Nizampatam canal.		13,650	
			28,392	
2nd Range ...	Filling breaches of Cumnamote channel.	1,565	1,043	
7th Range ...	Closing breaches of Kistna river embankment at Moyoor and Vullorpollem.	825	451	
	Closing breaches near Kottapoliem.	303	59	
	Do. Islands of Divi.	517	100	
	Do. of west side channel caused by heavy floods.	2,690	2,674	
	Repairing banks of Rander canal destroyed by heavy freshes from Kankepad lock to Tidal Lock.	9,199	3,473	
	Closing breaches and repairing east river bank between Devampully and Kankepad.	15,940	7,192	
	Repairing existing river embankment in Divi Islands.	8,370	7,791	
			21,034	
Grand Total ...			51,594	

(Signed) D. McNEIL CAMPBELL, Lieutenant, R.E.,
Executive Engineer in charge Kistna District.

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29th September 1875.*

From Lieutenant D. McNEIL CAMPBELL, R.E., Executive Engineer in charge
Kistna District, to Lieutenant-Colonel J. MULLINS, R.E., Chief Engineer
for Irrigation, dated Masulipatam, 16th September 1875, No. 70.

I HAVE the honor to forward the following report on the damages done to Irriga-
tion works in this district by the freshes in the end of July and beginning of August
last.

2. The river began to rise on the 21st July, and by the 27th it had reached the
height of 36 feet or 16 feet on the anicut, and caused a considerable amount of damage
to the river bank. It then began to subside, and it was thought all danger was over;
but on the 31st it rose again, and on the 1st August stood at 36 feet 9 inches, which is,
I believe, within 4 inches of the highest fresh known subsequent to 1853, except that
of last year, and the duration of the fresh exceeded that of any yet registered for nine
days, there was over 15 feet on the anicut.

3. The damage done in the Eastern Delta is trifling, and consists of three large
breaches in the river bank and numerous small ones in Divi, all of which can be
repaired for the sum of Rupees 3,000. In the Western Delta the floods were much
more severely felt; the water burst through the bank channel, and spreading across
country breached the Nizampatam canal and many minor channels; the large breach
which occurred last year at Munangy, and which had been closed at considerable expense,
was in great danger of going, and was only saved by the activity of Mr. D. Carlier, the
Sub-Engineer in charge of the 1st Range, and Delta Superintendent K. Ramdoss Naidu.
Had the bank gone at this place, the consequences would have been most disastrous; the
whole delta would have been inundated, and many villages swept away. The following
shows the damage done and the sums required for repairs:—

	Number of Breaches.	Sums required for Repairs. RS.
Nizampatam canal	10	2,275
East side channel	2	165
Western bank channel	29	3,355
Iskapilly channel	4	995
Yamavaram channel	6	195
Vallatur channel	14	300
River bank	9	800
Pudevada tank	2	245
	76	8,420
For Eastern Delta		3,000
Total		11,420

In no case in either delta did the water overtop the river bank; all the breaches
were caused by rat-holes and cracks; the result by the long continuance of hot and dry
weather, and the fresh coming before the banks had got puddled by the rain. In
Divi, as in last year, nearly all the damage occurred round the ends of the shift sluices.
All the breaches in Irrigation channels were closed immediately where this could be
done easily, and in other places they were ring-banded, so that water might be let into
the channels at once; the breaches in the river banks are being closed. The damage
done to crops is very slight; some seed beds have been destroyed in the Repally taluk
and Divi, and that is all. The money already applied for for Agricultural repairs in

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excess of the year's allotment to restore the works damaged in last year is Rs. 40,000
out of balance of estimate Rupees 51,594;
Vide my letter, No. 27, of 14th June 1875. but up to date only Rupees 10,000 were
granted, and the balance still due is Rupees 30,000, and I now request that, if possible,
you will grant a further sum of Rupees 10,000 to repair the damage done this year.

SUBMITTED for the information of Government.

The river embankment in the Eastern Delta protects principally Zemindari lands.

2. The whole of the damage sustained in the Western Delta was due, it will be
seen, to the failure of the flood bank which is in connection with the bank canal. The
completion estimate for this canal which has already been approved* by Government,
but the sanction of which has, together
with other estimates for this delta, been
deferred† by the Government of India,
provides for raising and strengthening this
embankment throughout; and until this be done, the delta will continue to be liable to
inundation, though probably a good deal may be done to reduce the risk of breaches by
a careful inspection of the bank in June every year before the time of the freshes, and
by filling up cracks, digging out and making good rat-holes, &c. The Superintending
Engineer should arrange for this being done in future, for, though it may not be
practicable to ensure the remedy of every defect, doubtless many breaches may be
prevented, while on the recurrence of considerable freshes rising above ground level,
the conservancy establishment and gangs of coolies should be told off to watch every
part of the banks, and to make good such defects as may then become apparent.

* G. O., No. 3,572, dated 19th December 1874.

† Procs., Madras Government, No. 1,338, dated
10th May 1875.

3. With reference to the intimation that additional funds will be necessary for
the repair of damage, it has to be noticed that in a Memorandum, dated 10th June last,
No. 626, it was pointed out that it is necessary to determine the proper expenditure on
Agricultural repairs in this delta, so that normal may be distinguished from abnormal
outlay and duly recorded, and in granting an allotment of funds on the 26th July last
to the extent of Rupees 10,000 more than
the Budget grant of Rupees 1,30,000,
No. 871.

attention was called again to this subject, but as yet no information has been furnished.
The repair of the damage sustained should, in the Western Delta, be carried out on
emergency, while in the Eastern Delta outlay should be confined to such work as may
be necessary for the protection of Government interests, unless the Zemindars are
prepared to find funds for the protection of their own estates, it being apparently toler-
ably certain that they will do nothing in this direction if the work be carried out in
the first instance at the public expense.

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

No. 648. ORDER THEREON, 29th September 1875, No. 2,809.

IRRIGATION, No. 58.

RECORDED with the remark that the
precautionary measures referred to in the
2nd paragraph of the foregoing endorse-
ment should be carefully attended to for the future. The Superintending Engineer.

Proceedings of the Madras Government, Public Works Department,
29th September 1875.

should inform the Collector what part of the repairs of the flood bank of the Eastern Delta should be provided for by the Zemindars interested, and he will confine outlay to such work as is needed for the protection of Government interests, unless he be placed in funds by the Zemindars, through the Collector, for the remainder of the repairs.

2. The favorable report given by Lieutenant Campbell of the exertions of Mr. Sub-Engineer Carlier, and Delta Superintendent K. Ramdoss Naidu, in preventing damage to the Nizampatam canal, is noticed with satisfaction.

(True Extract.)

Major-General, R.E.,
Secretary to Government.

No. 1097

Submitted for the information of Government.

Que. 2.

The river embankment in the Eastern Delta protects principally Zemindary lands.

2. The whole of the damage sustained in the Western Delta was due, it will be seen, to the failure of the flood bank which is in connection with the Bank Canal. The completion estimate for this Canal which has already been

* L.C. No. 3572
dated 19 Dec/74.

P.D.L.
No. 1338 dated
10 May/75.

approved by Government but the sum of - tion of which has together with other estimates for this Delta been deferred by the Govt of India; provides for raising and strengthening this embankment throughout and until this be done the Delta will continue to be liable to inundation though probably a good deal may be done to reduce the risk of breaches by a careful inspection of the bank in June every year before the time

P. W. 1875-Dep't
No: 6287

James

The Chief Engr.
for Irrigation.

Dated 25 Sept. 3 1895.
Recd. 1 Oct 3 1895.

C. 2 No: 1097

Submitting letter of
the Supr Engr. Thistna,
reporting on the damage
done to the Irrigation
works by the Thistna
floods of July & August
1895.

N.B. 2809, 29-9-95.

No 647

Recd. 1-10-95

No 2809
Pres. of the Irrigation Board
Under date the 29 Sept 95
Read the following:-

From,
The C. E. Engr. for (H. E. Sec 1097 of 23 Sept 95)

Recorded, with the
remark that the pre-
cautionary measures
referred to in the 2nd para
of the foregoing endorse-
ment should be carefully
attended to for the future.
The Supr Engineer should
inform the Collector
what part of the repairs
of the flood bank of the
Eastern Delta should
be provided for by the
Government interested,
and he will confine
outlay to such work

11/10/95

as is needed for the pro-
tection of Government
interests, unless he be
placed in funds by the
Zemindars, through the
Collector, for the remainder
of the repairs.

2. The favorable report
given by Lieut. Campbell
of the exertions of Mr. Sub
Engineer Cashier, and Delta
Superintendent H. Rams
doss Naidu, in preventing
damage to the Vizampatam
Canal is noticed with
satisfaction.

by 23/9

mm

SC Dispa - 15-10-75

* attn 2
orig. up to

B. Krishna
Chrg for Inspn
Rev. Dept

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Office 17

647/8
102-10-25

1887

Vol. of 1875: 34ndras
PUBLIC WORKS.

The Inspector.
Kishnu.

Date:

Issued:

Recd:

Recd:

29 Sept. No. 287

Vol. 147 - 606

Damages done to Emigrants
boats by the Kishnu freeder
of July & August 1875 - total
by the Chief for Emigrants and
Smithing letter from the Chief
Kishnu reporting on the
recorded with remarks.

1887
1887-1888

Office