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MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

Revenue DEPARTMENT

G.O. No.	2074	Press
B.P. No.		Mis.
Dated	6-10-1875	196 .

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
20th September 1875.*

No. 468.

Read the following:—

No. 1,047.

Note by the Chief Engineer for Irrigation.

No. 929, 6th August.

The following estimates have been submitted by the Superintending Engineer, Bellary:—

	Rs.
Repairing the Panady Channel from the Pennoir	950
Constructing a head-sluice to do.	1,260

Considerable care is evidenced in the preparation of these estimates, which are intended, first to prevent the entrance of floods into the channel from the river, and secondly to provide for the outlet of excessive land drainage from the channel. The report on the so-called repair estimate shows that the work therein included, with the exception of Rupees 45 for earth-works, is of the nature of improvements, the items called aprons being really small outlet weirs, and this being the case both estimates appear to be chargeable to Capital.

2. The head-sluice design is good, but it is more expensive than appears to be necessary—

First.—The foundations are 8 feet in depth, the soil being sandy, but were the upper retaining wall and foundations of front wings made 6 feet deep, the rear retaining wall and returns as shown 8 feet, and were the rest of the work founded on a bed of concrete 18 inches deep extending across from 1 foot beyond the outside faces of the abutments, this with the 2 feet flooring superimposed would make an equally stable work at a considerable saving of cost.

Secondly.—The beam stones are expensive, the rate being Rupees 1½ a cubic foot, and archwork may, with advantage, be substituted for them.

Thirdly.—The needle shutters require 11½ cubic feet of teakwood, while a gate shutter and lifting spear would take about half this quantity, and if the shutter slide on angle iron it could be easily worked. If needle shutters be preferred they should be supported by a 3-inch round bar instead of a beam stone.

Fourthly.—The height of the vent need not exceed the full depth of water to be admitted to the channel, viz., 3½ feet. Altogether it is thought that Rupees 1,000 at most will suffice for this sluice if the above alterations be made.

It is noted on the section that extreme flood level is only 1½ feet above ordinary flood level. The difference appears to be small, and it is probable that there is no mistake on this important point.

2. With regard to the channel, as the form of outlet proposed appears to be appropriate, but nothing has been said as to the area of country drained, the water from which is to be disposed of at the outlet escapes; at the ends of all these outlets there must be wing revetments affording a margin above M. W. L., so that breaches may not continue to occur. It is not clear whether the effect of the head-sluice in diminishing the quantity of water to be carried by or discharged from the channel has been taken into account.

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4. The revenue particulars of the channel are—

Ayacut area	{ Government	...	...	...	...	Acres	100
	{ Inam	...	...	...	...	"	73
Do. assessment	{ Government	...	...	...	...	Rupees	681
	{ Inam	...	...	...	...	"	460
Average revenue	...	...	...	...	...	"	784
Highest do.	...	...	...	...	...	"	1,058

Rupees 400 were expended in 1871-72 on repairs.

Ootacamund, (Signed) JOHN MULLINS, Lieut. Colonel, R.E.,
11th September 1875. Chief Engineer for Irrigation.

No. 469. ORDER THEREON, 20th September 1875, No. 2,717.

IRRIGATION, No. 43.C.

Account.

The following estimates are sanctioned —

Bellary District.

Capital. Revenue.

Panady Channel

Rs. Rs.
2,165 45

And the Capital expenditure will be met from the Minor New Works grant at the disposal of Government.

2. Care should be taken with reference to the remarks in the foregoing note that the design of the head-stice is modified, as far as may be practicable, with a view to economy, especially in the matter of foundations; also that the level of maximum floods is correctly ascertained and a sufficient margin there above allowed.

(True Extract.)

(Signed) G. W. WALKER, Major-General, R.E.,

Secretary to Government.

[True Copy]

To the District Engineer, Bellary.

1. Controller of Public Works Accounts.

2. Chief Engineer for Irrigation.

3. Revenue Department.

4. Collector of Bellary.

[Handwritten signatures]

Rev. F. C. Kitchener.

3. Separate Copies.

*Nov. 1875: Dept
No. 3845*

Govt. of Madras.

PUBLIC WORKS.

THE DISTRICT ENGINEER,

PELIARY.

to, to, to

Under Secretary,

Travels

Recd. *Genl. 4th* End.

By Order of the Government, No. 2717.

EXTRACT.

No. 405-400

1875 Nov. 1875: Dept

By Order of the District Engineer, Travels, No. 2,200, for
the purpose of constructing a Road from the
to the with remains.

*1875 Nov. 1875: Dept
Canary? to the
Board of Revenue
6005/75*