

(1) Number of pages 6
(2) Date of repair
(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.	<u>774</u> (2)	Press
		Mrs.
Dated	<u>7-1-1877</u>	

Not to be folded or roughly handled

Read the following:—

No. 10 W.

No. 139. *Note by the Chief Engineer for Irrigation.*

The District Engineer, Cuddapah, forwards, with his letter marginally noted, an estimate in connection with the Nagara-zapalli Dongulchervoo Tank and supply channel situated in the Cuddapah Taluq, Cuddapah Range.

2. The nature of the work proposed for execution and the heads of account to which it is chargeable are as follow:—

ORDINARY AGRICULTURAL.

Original Works.

Constructing head sluice to the supply channel ...	Rs. 770
New stone revetment and gravelling to tank bund ...	3,670

Repairs.

Raising and repairing the bund ...	1,100
Total Rs.	5,600

3. The following particulars of this tank are recorded—

Ayacut area ...	Acres 258	{ Circar 203 Inam 55 }	Acres.
Assessment ...	Rupees 1,698	{ Circar 1,320 Inam 378 }	Rupees.
Average revenue ...	1,413		
Highest ...	1,671		
Expenditure during the previous four years,	Rupees 886.		

The area of the catchment basin is 4 square miles; the maximum flood supply is calculated at 849 cubic feet per second, for discharging which as surplus there are two weirs, one at the west end 20 feet in length with four vents with shutters each 3 feet x 2 feet, and the other at the east end 150 feet in length.

This tank is an important one, and is situated above the town of Cuddapah. In addition to the supply it receives from the catchment basin it receives the waters of the Bugga river, which has a masonry anicut constructed across it.

The head of the supply channel is about $4\frac{1}{2}$ miles from the tank, and as this channel crosses the line of railway it is proposed to construct a head sluice near the Koocalagundum anicut to keep the supply under control.

It is also proposed to raise the bund of the tank where the water is deepest.

The revetment is low and rests on bad soil, in many places it is almost upright, it will therefore be rebuilt at a uniform slope of 1 to 1 with gravel backing.

The estimate provides for constructing a head sluice in the supply channel, raising and sectioning the bund, and for dismantling and rebuilding the revetment with gravel backing.

The flood discharge from 4 square miles would approximate by Ryves' formula to 1,417 cubic feet per second, and the depth of water on the weir crest to discharge this to $22\frac{1}{2}$ inches in depth instead of 1 foot 6 inches as provided. The difference is immaterial as the bund is sufficiently high to allow of the necessary head, and besides the formula in question gives somewhat large discharges for small areas.

supply channel
inlet

Proceedings of the Madras Government, Public Works Department,
9th January 1877. No. 74.

The head sluice provided for in the estimate is supposed to be adapted to certain existing circumstances, that is to say, to a channel of a given width and depth and to a river with banks of a certain height above, or it may be a certain depth below, maximum flood level. No sections of the channel and none of the river banks are given, and the suitability of the work can hardly under such circumstances be judged of.

The existing slopes should be shown on the sections of the sluice, as also the level of the river bank.

Rupees 886 were expended on this tank in 1875, and it should have been stated in the report what was the nature of the work executed.

The estimate for the tank is recommended for sanction, but it is considered that that for the sluice should be returned for the addition to the plan of the necessary information.

(Signed) A. DEC. SCOTT, Major, R.E.,
Dy. Chief Engr. for Irrigation,
for Chief Engr. for Irrigation.

5th January 1877.

To the Secretary to Government, Public Works Department.

No. 140. ORDER THEREON, 9th January 1877, No. 74.

IRRIGATION, No. 19.
Account.

THE following estimate from the Cuddapah Range, forwarded by the District Engineer, Cuddapah, is sanctioned:—

NAGARAZAPALLI DONGULCHERVOO TANK AND SUPPLY CHANNEL.
Irrigation.

Group or Project.	Fund.	Class.	Name of Tank, Canal, or Channel.	Particulars of Work.	Amount.
..	Ordinary Agri-cultural.	Original Works.	Nagarazapalli Dongulcherwoo Tank and Supply Channel.	New stone revetment ..	Rs. 3,670
		Repairs		Repairing the bund ..	1,160

To be carried out by the Public Works Department Officer in charge, Cuddapah Range.

2. This sanction has been registered as No. 256—I. of 1876-77.

3. The District Engineer, Cuddapah, will furnish the additional information required in connection with the sluice to the Nagarazapalli Dongulcherwoo Tank and supply channel.

(True Extract.)

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

To the District Engineer, Cuddapah.
" Collector of do.
" Chief Engineer for Irrigation.
" Examiner of Public Works Accounts,
" Revenue Department.

Exd. S. T. Austin.
Spare Copies

E. I. Form No. 4.

Aug 4 P.D.
Proceedings of the Madras Govt
Under date the 9th Jan 77
Read the following
From the Chief Engr for Irrig (H.E. No 150 of 5 Jan 77)

THE following Estimate from
the Cuddapah Range
forwarded by the District Engineer,
Cuddapah is sanctioned:—

Nagarazapalli Dongulcherwoo Tank
and supply channel

Irrigation.

Group or Project.	Fund.	Class.	Name of Tank, Canal, or Channel.	Particulars of Work.	Amount. Rs.
..	Ordinary Agricultural	Original Works	Nagarazapalli Dongulcherwoo Tank and Supply Channel	New Stone revetment	3670
		Repairs		Repairing the bund	1160

To be carried out by the P. W. Department Officer in charge

H. Cuddapah
Collector of do.
Ch. Engr. for Irrig
R. H. A.
Recd Dist.

2. This sanction has been registered as No. 256 I. of 1876-77.
3. The District Engineer Cuddapah will furnish the additional information required in connection with the sluice to the Nagarazapalli Dongulcherwoo Tank supply channel
M. S. Austin
Spare Copies

97
G.Ot. of 1877 Madras.

PUBLIC WORKS.

To *The N. E. Cuddapah*

Dated

Issued

Recd.

Encl.

G. *W. J. J. J.* 1877, No. *74*

Nos.

Nagarazapalli Dongulcheruvu
Tank Supply Channel,
Cuddapah Dtr. — The
estimate of Rs. 4830 for
certain repairs to the
— sanctioned.

But no reply