Archives I—10,006—16-8-77.

(1) Number of pages 4

(2) Date of repair 26-2-96

(3) Initials of the Referencer

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Dept. Rec. Rm

DEPARTMENT

G.O. No. / B.P. No.	1363	Press. / Mis.
Dated 3.6.1878		197 .

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

9th May 1878, No. 383 I.

Irrigation.
Account.

Read the following papers :—

No. 29. From Colonel A. S. MOBERLY, R.E., District Engineer, Cuddapah, to the Chief Engineer for Irrigation, dated Royachoty, 5th February 1878, No. 2,880.

I HAVE the honor to forward herewith for your approval and early sanction a plan, sections, specification report, ayacut statement, and abstract estimate, amounting to Rupees 2,450, for repairing the bund and revetment and constructing an escape for Kullutla Nulla Chervoo in Jammalamadugu Taluq. The repair of breach has been commenced on emergency.

No. 117 I.

No. 29-A. *Note by the Chief Engineer for Irrigation.*

THE District Engineer, Cuddapah, forwards with his letter marginally noted an estimate in connection with the Kullutla Nulla Chervoo. This is an isolated tank situated in the Jammalamadugu Taluq, Cuddapah Range, north latitude 14° 59′ 40″, east longitude 78° 22′ 0″.

No. 2,880, dated 5th February 1878.

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

ORDINARY AGRICULTURAL.

IRRIGATION.

Original Works.

	Rs.
Constructing a masonry flush escape with dry stone pavement on its western side	92
Raising revetment of the bund with new stone and gravel backing ...	1,150
Repairs.	
Raising and repairing bund, closing breaches, repacking revetment with gravel backing, also gravelling three inches thick over the top and slopes of the bund	1,208
Total ...	2,450

3. The following particulars of this tank are recorded :—

Ayacut area ... ... Acres	116	{Circar 80 / Inam 36}	Acres.
Assessment ... ... Rupees	856	{Circar 572 / Inam 284}	Rupees.
Average Revenue ... ... ,,	890	{Circar 654 / Inam 236}	,,
Highest do. ... ... ,,	1,001	{Circar 670 / Inam 331}	,,
Expenditure during the previous four years			None.
Average cultivation per square mile of catchment basin ... Acres			80·4

This tank is supplied by the drainage of the adjoining hills north of it, and the surplus joins a vunkah which falls into the Kondair river.

The area of the catchment basin is 1·5 square miles, the maximum flood-supply is calculated at 476 cubic feet per second, for discharging which, as surplus, there is a masonry flush escape 55 feet in length at the eastern side, which being insufficient to discharge the surplus it is proposed to construct another outlet of the same kind 41 feet in length at the west end of the bund (where there is low ground) so as to make an aggregate length of 96 feet available for the discharge of the surplus. The proposed flush escape will have only one wing wall on the bund side, and the ground on the other side of the escape will be paved with dry stone to a length of 159 feet or until it reaches the M.W.L. so as to prevent the ground composed of black cotton soil being cut up.

The bund of this tank is low throughout and is entirely composed of black cotton soil. During the rain of the 8th June 1877 it was breached in several places, owing to leaks through numerous cracks in the bund. These breaches are stated to have been closed on emergency and the cost included in the estimate now submitted for sanction. The revetment also requires to be repacked and raised to 7·5 feet above M.W.L.

The estimate provides for—

(1.) Constructing a masonry flush escape and providing dry stone pavement over the ground on its western side.

(2.) Raising the revetment of the bund with new stone and gravel backing.

(3.) Raising and repairing the bund, closing the breaches, repacking the revetment with gravel backing, also gravelling three inches thick over the top, rear, and the unrevetted parts of the front slope, to prevent the bund composed of black cotton soil being gullied in future.

The proposed outlay is heavy, but if the work be carefully done and care taken afterwards of the tank by the villagers, there should be no need of further expenditure for many years.* No section of the revetment as required by the rules has been furnished. The District Engineer should approve a design before this work is commenced.

Circular No. 55, 1st June.

The pavement in continuation of the new escape will increase the capacity of discharge materially. A little gravel* had better be laid under the 10 or 12 feet of this pavement next the weir wall for a width of 4 feet, so that water may not wash away any soil near the masonry.

* Well tamped.

The following statement shows the proposed distribution of the outlay recommended for sanction to the debit of the several heads of account involved :—

Head of Service.—IRRIGATION.

Fund.—ORDINARY AGRICULTURAL.

Name of System or Group.	Distinguishing Number or Letter of Group.	Name of Tank or Channel.	Description of Work.	Main Head.	Class.	Amount of each Item.	Amount to be separately accounted for.
						Rs.	Rs.
Bounded Tank.	..	Kulbitta Nulla Cherroo.	Masonry flush escape, &c. ..	Irrigation.	Original Works.	92	1,242
			New revetment and backing ..		Do. ..	1,150	
			Repairing bund revetment, also gravelling top and slopes of the same		Repairs ..	1,208	1,208

OOTACAMUND,
4th May 1878.

(Signed) JOHN MULLINS, Lt.-Col., R.E.,
Chief Engineer for Irrigation.

To the Joint Secretary to Government, Public Works Department, Irrigation Branch.

No. 30. ORDER THEREON, 9th May 1878, No. 383 I.

THE following estimates from the Cuddapah Range forwarded by the District Engineer, Cuddapah, are sanctioned :—

HEAD OF SERVICE—IRRIGATION.

Kulbitta Nulla Cherroo.	Rs.
Masonry flush escape, &c.—Original Works	92
New revetment do.	1,150
Repairing bund and revetment and gravelling top and slopes—Repairs.	1,208

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

2. These sanctions have been registered as No. 46 I of 1878-79.

(True Extract.)

(Signd) JOHN MULLINS, Lt.-Col., R.E.,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

(True Copy.)

Major, R.E.,
Under Secy. to Govt., P.W.D.,
Irrigation Branch.

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

Exd. T. D. Ryan.

Spare Copies

Received 15th Aug 1878
42344.

IRRIGATION
ACCOUNTS

Govt. of India.

PUBLIC WORKS.

THE DISTRICT ENGINEER,
CUDDAPAH.

Dear Sir,

Your Memo No.

dated 30th May 1878, No. 383 T.

MAY.

Nos. 29-30.

No 1056

Communicated to the
Board of Revenue

3rd June 1878

Kallahs Kulls Cheyeo Tank, Cuddapah
District.—Estimates for certain repairs to,
&c. &c., sanctioned.

Memo.