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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No. / B.P. No:	2849	Press. / Mis.
Dated	19.5.1877	197 .

Not to be folded or roughly handled

Archives I—10,006—19-4-79.

Proceedings of the Madras Government, Public Works Department,
27th April 1877. *No.* 1,449.

Read the following :—

No. 658. From the Offg. Supg. Engr., Godavery, dated 24th March 1877, No. 3,743 and enclosures.

GODAVERY DELTA SYSTEM—WESTERN DELTA SECTION, KAZA DRAIN.

CLASS I.—WORKS.

Comparative Statement showing the Original and Revised Estimates.

ORIGINAL ESTIMATE.					REVISED ESTIMATE.		
Main Head.	Sub Heads.	Items.	Amount.	Total.	Item.	Amount.	Total.
			Rs.	Rs.		Rs.	Rs.
(1)—Drainage and Protective Works.	B.—Land ..	....	..	..	Compensation for land.	200	200
	C.—Works.	....	..	..	Outfall sluice	6,325	
							6,325
	L.—Earth-works.	Improvements to drain.	5,760		Improvements to drain.	*3,563	
					Channel below outfall sluice	500	
				5,760			4,063
	B.—Land ..	....	..	..	Compensation for land.	..	200
		Grand Total ..	..	5,760		..	10,588

* Actual cost.

(Signed) A. R. F. DORWARD, Lieut., R.E.,
Asst. Engr., Godavery District.

4th March 1877.

(Signed) J. BEATTY, Major, R.E.,
Offg. Supg. Eng., Godavery.

No. 189—W.

No. 658-A. *Note by the Chief Engineer for Irrigation.*

IN paragraph 56 of his Notes of Inspection printed in Proceedings, Madras Government, 15th July 1874, No. 1,906, the Chief Engineer for Irrigation drew attention to the necessity for an out-fall sluice at the end of the Kaza Drain in the Western Delta of the Godavery District. The Superintending Engineer now forwards plans and estimate for that sluice.

2. For the improvement of this drain a lump sum of Rupees 5,760 for earth-work was included in the original estimates for the "improvement and completion of the system of irrigation in the Western Delta, Godavery District," and it forms part of Item No. 14, Rupees 28,200, of the sanction accorded by the Government of India in their letter, No. 367-I, of 2nd August 1871, printed with G.O., No. 2,925, of 18th November 1871. Of the Rupees 5,760 there have been spent to date Rupees 3,563, and if the out-fall sluice now proposed be built only Rupees 500 more will be required for earth-work, and the saving under that head will be Rupees 1,697. There will, however, be an expenditure, not foreseen when the original estimate was prepared, of Rupees 200 for "compensation for land," leaving a saving of Rupees 1,497.

3. The estimate for the sluice is Rupees 6,325, from which, deducting the saving above noted, there will remain a total estimated excess of Rupees 4,828, or 17·12 per cent. on Item 14 of the Government of India sanction.

4. The excesses and savings already recorded are as follow :—

No. of Item.	Name of Work.	Original Estimate.	Revised Arrangements.	Excess.	Saving.	G.O. sanctioning.
		Rs.	Rs.	Rs.	Rs.	
10	Gostanadi and Velpur Canal (Part only.)	98,960	Part of 81,680	..	9,280	No. 1,388, 15th May 1875.
		Part of 1,41,060				
1	Head sluice, Main Canal	18,600	53,650	..	14,850	
2	Main Canal	49,000				
6	Venkiah and Veyeru	11,900	15,904	4,004	..	
7	Restoring Navigation with Veyeru (Junctional Canal)	*69,610	*78,218	..	5,392	No 2,529, 2nd Nov. 1871.
13	Additional Surplus weir near head of Ellore Canal, Nundamur	14,900				
18	Rest-houses	23,200	22,997	..	203	
5	Bank Canal	1,07,900	1,14,340	6,440	..	Proposed
16	Ellore Canal	†2,49,590	†2,76,604	30,014	..	Do. G.O. not yet out.
		6,32,720	6,43,453	40,458	29,725	
		..	6,32,720	29,725	..	
	Total Excesses ..	..	10,733	10,733	..	

* Exclusive of Rupees 2,890 for Mid and Low Level Channel head sluices originally included in Junction Canal Estimate, now transferred to Ellore Canal.
† Inclusive of Rupees 2,890 as above.

5. The total recorded excess to date is thus Rupees 10,733 on an original estimated amount of Rupees 6,32,720. Adding the excess‡ on the revised estimate now under notice the total excess will be Rupees 15,561 on an originally estimated amount of Rupees 6,60,920,§ or little over $2\frac{1}{3}$rd per cent.

‡ Rupees 4,828.

	Rs.	
§	6,32,720	See table above.
	28,200	Original sanction, Item 14.
Total ...	6,60,920	

6. Had the whole of the estimates of the Western Delta been revised with a like result, this estimate would have been within the competence of Government to sanction, but possibly as the case stands the sanction of the Government of India may be necessary.

7. With regard to details of design it is considered that retaining the springing at the proposed level the rise of the arches may with advantage be reduced to 2 feet, and there will then be no space above the sliding-shutters to admit flood water from the river. It may also be desirable to raise the gear beams $1\frac{1}{2}$ feet, and in that case a different description of gear will be better.

8. The sluice will discharge from one-fourth to one-third of the maximum drainage‖ from the area of 24 square miles to be drained, when the state of the river may admit of a free outflow. This proportion will probably suffice : the problem is not capable of accurate determination.

‖ $3,744 = 450 \sqrt[3]{(24)^2}$.

(Signed) G. T. WALCH,
Ag. Dy. Chief Engr. for Irrigation,
for Chief Engr. for Irrigation.

Fort St. George,
[illegible] *April* 1877.

To the Secretary to Government, Public Works Department.

Proceedings of the Madras Government, Public Works Department,
27th April 1877. *No.* 1,449.

No. 659. Order thereon, 27th April 1877, No. 1,449.

IRRIGATION, No. 66-A.

Account.

The revised estimate, amounting to Rupees 10,588, for the Kaza Drain, Godavery Western Delta, is approved, and will be forwarded for the sanction of the Government of India with a copy of these Proceedings.

(Here enter No. 1,450, dated 27th April 1877.)

(True Extract.)

Lieut.-Col., R.E.,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

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

Exd. T. D. Ryan.

Spare Copies

Revenue Default
No 2560

Govt. of {1877} Madras.

PUBLIC WORKS.

To

THE SUPERINTENDING ENGINEER,
GODAVERY,
&c., &c., &c.

Dated April 27th.

Issued

Recd. 17th May 1877 Encl.

G. O., 27th April 1877, No. 1,449.

APRIL.

Nos. 658-659.

No 2829.
Comm.r of Lotts
Board of Revenue
19th May 77.

Kasa Drain, Godavery Western Delta.—The revised estimate, amounting to Rupees 10,583, for the —, approved and forwarded for the sanction of the Government of India.