New No. Sectt. I (i)-1—Old No. M.R.O. 1—10,006—10-6-68.

(1) Number of pages 6

(2) Date of repair 1.12.1969

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

Revenue DEPARTMENT

G.O. No. 1350 ~~Press~~
~~B.P. No.~~ ~~Mis.~~

Dated 12.6.1876 196 .

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Read the following paper :—

No. 62 W.

No. 391. *Note by Chief Engineer for Irrigation.*

Eastern Delta, Godavery, Mundapett Canal.

In a letter No. 1,607, of the 16th August 1875, the District Engineer, Godavery, transmitted estimates for certain distributaries for the irrigation of lands under the Mundapett canal, and to place the heads of the channels in the Cocanada canal and charge the cost to the latter. Objection was taken to this arrangement as being

No. 1,057 of the 16th September 1875.

incorrect in principle, as it would involve the transfer of the connected irrigation from the Mundapett to the Cocanada canal and thus complicate the accounts, and as it would interfere with the water distribution as arranged for in the general project for the delta. The District Engineer was therefore requested to reconsider his proposals, and accordingly he submitted* an estimate of Rupees 2,600 for a channel on the left bank of the Mundapett canal which was approved,† and the proposals for the right bank channel were postponed pending further investigation of the circumstances.

* No. 3,062, 17th January 1876.

† No. 125, 31st January 1876.

2. In a letter No. 3,383, of the 18th February 1876, the District Engineer reported a saving of Rupees 4,000 on the Thapeswaram new lock on this canal, and asked permission to transfer this amount to distribution, and he was, in reply, informed that before any such proposal could be submitted for the consideration of Government it would be necessary to prepare a revised abstract estimate for the canal, and it was noticed that the advanced state of the works provided for in the sanctioned estimate would readily enable this to be done. With regard to distributaries, he was asked to show what works were contemplated to be carried out from the lump sum provision of Rupees 11,000 on this account, and the acreage connected with them; secondly, what works had been carried out or were in course of execution with particulars of their estimated cost and of the acreage which they will supply; thirdly, the works still considered necessary with their probable cost and the acreage to be irrigated.

No. 3 G.D., of 8th March 1876.

3. The District Engineer has now furnished the information required. He shows that the total cost of distribution under the canal will be Rupees 11,870, or Rupees 870 in excess of the amount provided in the canal estimate; secondly, that the works originally contemplated were 10 miles of channels and fifteen head sluices and dividing dams, but he has erroneously entered the whole irrigation of the canal, 32,155 acres, as the acreage connected with the lump sum grant of Rupees 11,000, instead of the extension of area, 7,071 acres, shown in the statement of water distribution, Eastern Delta, dated 14th May 1870, which was an accompaniment of the completion estimates. The average

No. 210, dated 21st April 1876, and list, dated 1st „ „

Proceedings of Madras Government, dated 28th September 1870, No. 2,335, Note paragraph 9.

First reach	Acres	6,389
Second reach	„	682
		7,071

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cost of minor distribution was, therefore, expected to be 1·55 Rupees an acre; thirdly, that the works completed or under execution will cost Rupees 8,690, and are connected with acres 14,431; fourthly, that other works estimated to cost Rupees 3,180 and connected with 2,395 additional acres are needed. Altogether, then, the acreage to be benefited by the improved distribution arrangements will be acres 16,826, and the average cost of the works will be per acre Rupees 0·706. It has not been explained how so much larger an acreage tha[illegible]e additional area to be irrigated under the canal has had to be dealt with, but [illegible]g that the original arrangements were never definitely worked out, and that in p[illegible]ng for the irrigation of new lands interspersed among old, it is impracticable to av[illegible]lifying the old works in addition to providing new ones, the absence of such [illegible]ration appears to be immaterial. It has not been, moreover, shown what the ad[illegible] acreage is now expected to be, and information on this point would have b[illegible]ceptable. There is, however, no necessity apparently to take any exception to [illegible]evised estimate of cost of distribution works, which will exceed by only Rupees 87[illegible]e amount originally provided.

4. The revised abstract estimat[illegible] the canal has been furnished in the form of a comparative statement, and striking out the last item, which has been included under instructions* issued from this office by mistake, the reconstruction of the surplus weir being chargeable to Revenue, the only excess is on distribution works Rupees 870,† while the savings amount to Rupees 28,650 as shown, and the net savings to Rupees 27,780.

* No. 3 G.D., 8th March 1876, paragraph 3.

Destruction of old weir recorded in Proceedings of Madras Government, 24th February 1875, No. 521.

		Rs.
† More properly Distributaries ...	...	711
Drainage and Public Works ...	...	159
		870

5. It is recommended that the revised estimate be sanctioned, and that further the estimate of Rupees 1,670, under distribution for a channel on right bank at $8\frac{3}{4}$ miles, be approved for execution.

6. The District Engineer should have prepared the comparative statement in accordance with the classification laid down in Proceedings of the Madras Government of the 10th July 1875, No. 1,968. This has now been done, and the item for land compensation, Rupees 3,273, which had been omitted, has been brought forward, and has been shown under Distributaries, as it is believed no new land was required for the canal. The small drainage work has also been placed under the proper main head.

Vide paragraph 3 of Note in Proceedings of Madras Government, 28th September 1870, No. 2,335.

OOTACAMUND,
18*th May* 1876.

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

To the Secretary to Government, Public Works Department.

Proceedings of the Madras Government, Public Works Department
22*nd May* 1876.

EASTERN DELTA—GODAVERY—MUNDAPETT CANAL—CLASS I. WORKS.
Comparative Statement showing the Original and Revised Estimates.

Main-head.	Sub-head.	Items.	Original Estimate. Amount.	Original Estimate. Total.	Revised Estimate. Amount.	Revised Estimate. Total.	Remarks.
			Rs.	Rs.	Rs.	Rs.	
(3) Main Canals and branches.	I.—Navigation Works.	Lock.—Thapeswaram ...	22,870	...	18,370	...	Reduced cost due to alteration of size of lock to the dimensions fixed for 2nd-class locks generally.
		Do. weir.— Do. ...	3,670	...	2,850	...	
		Do.—Paralapoody ...	21,960	...	...	...	Old lock retained, *vide* Chief Engineer's for Irrigation memorandum, paragraph 23, in P.M-G. No. 1,077, 16th April 1871.
		Do. weir. —Do. ...	3,000	50,400	580	21,750	Old weir retained and improved at cost shown.
		Earthworks ...	12,700	12,700	12,700	12,700	
		Total, M. C. and B ...		63,100		34,450	N.B.—The provision for land was probably for distribution works, as has been entered under that
	I.—Earthwork ...	Compensation ...	3,273	3,273	...	...	
		15 Head sluices and dividing dams.	9,000	9,000	460	...	
		10 Miles of Channels ...	2,000	2,000	87	...	
					580	...	
					600	...	
					690	...	
					910	...	
					660	...	
					1,166	...	
					2,600	...	
					1,670	...	
					1,331	...	
					157	...	
		Total Distributaries ...	...	14,273	...	7,244	
		...	...	...	...	14,934	
		Grand Total ...	...	77,373	...	49,393	
(4) Drainage and Protective Works.	Do.	...	...	...	...	159	Channel to drain Somaswaram lands ...
						...	

OOTACAMUND,
18*th May* 1876.

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

1356/2

No. 392. ORDER THEREON, 22nd May 1876, No. 1,281.

IRRIGATION, No. 39.

Account.

Delta, Godavery, which were reviewed in G.O., No. 2,335, of the 28th September 1870,

* Rs. 10,8

Deduct—Samulcottah Canal ... „ 1

I—Works ... { Works 74,100
Land 3,273

Total ... 77,373

CAPITAL—EXTRAORDINARY.
1—Works.
(2.)—Main Canal and Branches.
I.—Navigation Works.
Mundapett Canal.

	No.		Rs.
Lock Thapeswaram	3/4 I of 1876-77	...	18,370
„ Weir „	3/4 I of	„	2,860
„ „ Pasalapoody	3/4 I of	„	53
E.—Earthworks.			
Earthwork, Mundapett Canal ...	3/4 I of	„	12,709
(3.)—Distributaries.			
B Land.			
Compensation	3/4 I of	„	3,273
C.—Works.			
Tunnel under Nadoorubada Channel	3/4 I of	„	300
Regulating dam, Mundapett Channel	3/4 I of	„	300
Head sluice, Chodaram Channel, moiety of cost of	3/4 I of	„	450
Do. Macharam Channel ...	3/4 I of	„	67
Do. to Channel left bank canal at 6¼ miles	3/4 I of	„	580
Do. to Channel right bank, canal at 8½ miles	3/4 I of	„	600
Do. to left bank 11 miles ...	3/4 I of	„	620
Do. to Ramachendrapoor Channel, left bank 18 miles	3/4 I of	„	910
Do. to Chelloor and Moochumilly Channel, right bank ...	3/4 I of	„	600
L.—Earthwork.			
Side Channel, left bank canal ...	3/4 I of	„	1,465
Channel left bank 6¼ miles ...	3/4 I of	„	2,600
Do. right bank 8½	3/4 I of	„	1,670
Do. Macharam	3/4 I of	„	1,351
Do. Chodaram	3/4 I of	„	157
(4.)—Drainage and Protective Works.			
L.—Earthworks.			
Channel to Drain Somaswaram lands.	3/4 I of	„	159
	Total ...		49,593

Irrigation Register No. 35 I of 1876-77.

FROM the foregoing papers it appears that the sanctioned estimate for the Mundapett Canal, included in the completion estimates for the Eastern were sanctioned by the Government of India in letter No. 181 I., dated 20th May 1871, was for—

and owing to its having been decided to retain the old Pasalapoody lock and lock weir instead of constructing new works a large saving has resulted, while on the other hand, under Distributaries and Drainage, a small excess has been rendered necessary, the net result being a reduction in the estimate to the extent of Rupees 27,780.

2. The revised estimate, of which the particulars have been given in the revised and classified comparative statement prepared by the Chief Engineer for Irrigation, amounts to Rupees 49,593, and is approved. A copy of these Proceedings will be forwarded for the information of the Government of India.

3. This estimate has been registered as shown in the margin.

(True Extract.)

Colonel,
Offg. Under Secy. to Govt., P.W.D.

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

Exd. S. T. Austin.
Spare Copies

New No. Scott. I (i)-1—Old No. M.R.O. 1—10,006—10-6-69.

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

DEPARTMENT

G.O. No.	Press
B.P. No.	Mis.
Dated	196

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c/ 2327
Revenue 1876 Dept K

Govt. of {1876} Madras.

PUBLIC WORKS.

To

THE DISTRICT ENGINEER,
GODAVERY.
&c., &c., &c.

Dated May 22nd.

Recd. 10 June/76 Encl.

MAY.
Nos. 391-392.

Dr Lyon

Mundapeth Canal, Godavery District.—Revised Estimate for excavating an irrigation channel on the south side of the —, sanctioned.

No 1360
Communicated to Chief Engr
12 June 1876

6-6-76

1 Sch. Plan

DEPARTMENT