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GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

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Not to be folded or roughly handled.

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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

28th Januar 78, 78 I.

No.

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A

Read the following paper :—

No. 87. From Major J. O. HASTE E., Superintending Engineer, Kistna, to the Chief Engineer for Irrigatio d. Masulipatam, 4th August 1877, No. 81.

With reference to G.O., No. 99 I, dat ud June 1877, I have the honor to bring to your notice that, in accordance w ., No. 935, dated 10th April 1876, ferry boats as per enclosed List No. 1 were c cted last year after communicating with the Collector, being understood that th t Rupees 8,806 would be met from the balance of the Canal and Ferry Funds.

2. In this year it was proposed to onstruct additional ferry boats as per enclosed List No. 2 to the value of Rupees 2,104 ; as G.O. No. 99 I rules that these boats are now to be charged to Irrigation I have the honor to request you will be good enough to inform me if funds can be ade available for their construction this year.

No. I.

Statement showing the Expenditure on Ferry B oats constructed in 1876-77 and required for crossing the Artificial Canals and Channels in Kistna District.

Name of Canal, &c.	Village.	Distance. Miles.	Distance. Furlongs.	Boats. First Class, 393.	Boats. Second Class, 263.	Amount of Estimate.	Expenditure in 1876-77.	Remarks.
						Rs.	Rs.	
	Western Delta.							
Main Canal.	Vaddeshwerem	3	6	...	1	263	263	
	Renendrapad	7		...	1	263	263	
	Tenaly	18		1	...	393	393	
Nizampatam Canal.	Pedaravoor	19		...	1	263	263	
	Sandole	33		...	1	263	263	
				1	4	1,445	1,445	
				...	1	263	263	
				1	...	393	393	
BankCanal.	Pedapolem	2	5	...	1	263	263	
	Hanumallupolem ...	14		...	1	263	263	
	Chilumur	17		1	...	263	263	
	Kalluru	22	2	...	1	263	263	
	Voleru	30						
				1	4	1,445	1,445	
				...	1	263	263	
Iskapally Channel.	Uppudy		5	...	1	263	263	
				2	9	3,153	3,153	
	Total, Repally Division.	...	...					

STATEMENT showing the Expenditure on Ferry Boats constructed in 1876-77, &c.—(*Continued*)

Name of Canal, &c.	Village.	Distance. Miles.	Furlongs.	Boats. First Class, 393.	Second Class, 263.	Amount of Estimate.	Expenditure in 1876-77.	Remarks.
	Western Delta—(Contd.)					RS.	RS.	
Commamore Canal.	Sakurpolem	... ...		...	1	263	263	
	Garikapad	... ...		...	1	263	263	
	Ratu Appapuram	...		...	1	263	263	
	Cherukar	... ...		...	1	263	263	
	Kunkalamarru	... ...		...	1	263	263	
	Total, Bapatla Division.		...	...	5	1,315	1,315	
	Total, Western Delta...		...	2	14	4,468	4,468	
	Eastern Delta.							
Ellore Canal.	Naccalam	... ...	10					
	Kasarapally	... ...	12	...	...	1	263	263
	Ampapuram	... ...	20	...	1	...	393	393
	Veerunally	... ...	22	2	...	1	263	263
				6	...	1	263	263
					1	3	1,182	1,182
Ryves' Canal.	Gunadala	... ...	3					
	Yenikepad	... ...	8	4	...	1	263	263
	Kadanakollu	... ...	18	...	...	1	263	263
				4	...	1	263	263
					...	3	789	789
Gudivada Branch Channel.	Batavolu	... ...	13					
	Kodoor	... ...	19	...	...	1	263	263
					...	1	263	263
					...	2	526	526
	Total, Bezoarah Division.		...	...	1	8	2,497	2,497
Masulipatam Canal.	Gudur	... ...			...	1	263	263
					...	1	263	263
Pulleru Channel.	Bodlapad	... ...						
	Vogirula	... ...		4	...	1	263	263
	Murrivadu	... ...			...	1	263	263
	Yellamarru	... ...	1	6	...	1	263	263
	Kondiparru	... ...	1	4	...	1	263	263
					...	1	263	263
Lower Pulleru and Tadicherlacadu.	Kottacheruvu	... ...	1		...	5	1,315	1,315
					...	1	263	263
	Total, Masulipatam Divn.	...			...	1	263	263
	Total, Eastern Delta...	...			...	7	1,841	1,841
	Grand Total...	...		1	15	4,338	4,338	
				3	29	8,806	8,806	

No. II.

STATEMENT showing the Ferry Boats req[illegible] proposed Expenditure.

Name of Canal, &c.	Village.	Distance. Miles.	Furlongs.	Boats. [illegible]	Second Class, 263.	Amount of Estimate.	Proposed Expenditure in 1877-78.	Remarks.
	Western Delta.					RS.	RS.	
Main Canal.	Tadepally	... ...	1		1	263	263	
	Millempudy	... ...	5		1	263	263	
				... ...	2	526	526	
Bank Canal.	Konduru	... ...	5	...	1	263	263	
				...	1	263	263	
	Total, Repally Division.		... ...	...	3	789	789	
Commamore Canal.	Pandrapad	... ...	17	7	1	263	263	
					1	263	263	
	Total, Bapatla Division.		... ..	...	1	263	263	
	Total, Western Delta...		... ..	...	4	1,052	1,052	
	Eastern Delta.							
Ryves' Canal.	Kunderu	... ...	16	...	1	263	263	
	Marrwada	... ...	21	...	1	263	263	
				...	2	526	526	
	Total, Bezoarah Division.		... ..	...	2	526	526	
Pulleru Canal.	Vacanoor	... ...	8	...	1	263	263	
				...	1	263	263	
Pulleru Canal.	Kurada	... ...	22	...	1	263	263	
				...	1	263	263	
	Total, Masulipatam Divn.		... ..	...	2	526	526	
	Total, Eastern Delta ..		... ..	...	4	1,052	1,052	
	Grand Total ...		... ..	...	8	2,104	2,104	

4th August 1877.

(Signed) J. O. HASTED, Major, R.E.,
Superintending Engineer.

Revised Statement of Ferry Boats, &c., for the Kistna District.

Name of Canal.	Proposed in 1875. Mileage. Miles.	Furlongs.	Village or road, &c.	Class of boats required.	Existing. Boats.	Bridges.	Sungadis.	Remarks.	Constructed in 1876-77. Bridges.	Ferry boats. 1st-class.	2nd-class.	3rd-class.	Sungadis.	Proposed for Construction, 1877-78. Bridges.	Ferry boats. 1st-class.	2nd-class.	3rd-class.	Sungadis.	Remarks.
1	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Western Delta Canals and Distributaries.	..	..	Setanagaram ..	..	..	1	..	Bridge at lock	..	..	..	..	..	..	..	[illegible]	[illegible]	[illegible]	
Main Canal ..	1	1	Tadapilly ..	2nd	..	..	..	This ferry will be very useful in passing produce from east to west of the canal to Guntur.	..	[illegible]	..	..	..	..	[illegible]	[illegible]	[illegible]	[illegible]	
	3	6	Va[illegible]	[illegible]	[illegible]	[illegible]	1	Do. do. ..	..	[illegible]	1	..	..	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	5	4	M[illegible]	[illegible]	[illegible]	[illegible]	1	Do. [illegible]sengers only do.	..	..	..	..	..	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	7	5	Ravendrapad ..	2nd	..	..	1	One of the village roads leading to Manglagherry and Guntur.	..	..	1	..	..	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
Nizampatam Canal.	9	1	Tummapoodi ..	2nd	..	..	1	Do. do.	..	..	..	..	..	..	[illegible]	[illegible]	[illegible]	[illegible]	
	10	6	Marumpoodi ..	2nd	..	..	1	Do. do.	..	..	..	..	..	..	[illegible]	[illegible]	[illegible]	[illegible]	
	11	6	Parmudipolem ..	..	..	..	1	This crossing is used for Duggerala also.	..	..	..	..	..	..	..	..	..	..	
	13	..	Duggerala ..	..	..	1	..	Bridge at lock ..	..	..	..	..	..	..	..	..	..	..	
	14	7	Nundevelagu ..	..	..	1	..	Bridge across Nizampatam Canal and side channels on Guntur and Iyaloor road.	..	..	..	..	..	..	..	..	..	..	
	16	1	Kattavaram ..	2nd	..	..	1	Village road to Jaggaralamoody and Guntur.	..	..	..	..	..	..	..	..	..	..	
	18	..	Tenally ..	1st	1	2	2	Bridge over side channels. Much required as being main road from east of canal to Guntur. From Collector's No. 1,447, of 29th August 1874, it appears that a small punt has been made for Tenally crossing, but it has not been sent for by the villagers. If this were sent to any other place requiring a 2nd-class boat a 1st-class one might be allowed for Tenally crossing.	..	1	..	..	..	..	..	..	..	..	
	19	7	Pedaravoor ..	..	..	..	2	......	..	..	..	..	..	..	..	..	..	..	
	22	..	Keoshipudy ..	..	..	1	..	Bridge at lock and side channel	..	..	*1	..	..	..	..	..	..	..	* Not included in statement of 21st Dec. 1875.
	26	7	Toorimella ..	..	..	..	1	......	..	..	..	..	..	..	..	..	..	..	
	28	7	Yellavarru ..	..	..	..	1	......	..	..	..	..	..	..	..	..	..	..	
	31	3	Intur ..	..	..	1	1	Bridge at lock and side channels	..	..	..	..	..	..	..	..	..	..	
	33	7	Sandolo ..	1st	1	..	1	Coast road crosses here; same remark applies here as for Tenally crossing.	..	..	†1	..	..	..	..	..	..	..	†1st-class boat was proposed in statement of 21st Dec. 1875.

Name of Canal.	Miles.	Furlongs.	Village or road, &c.	Class of boats required.	Boats.	Bridges.	Sungadis.	Remarks.	Bridges.	1st-class.	2nd-class.	3rd-class.	Sungadis.	Bridges.	1st-class.	2nd-class.	3rd-class.	Sungadis.	Remarks.
	36	3	Pittalavaripolem	2nd	..	..	1	......	..	..	..	..	..	..	..	..	..	..	
	39	5	Ulloor ..	..	..	..	1	......	..	..	..	..	..	..	..	..	..	..	
	41	..	Tidal lock ..	2nd	..	..	1	If tail bay of this lock was bridged no ferry would be necessary.	..	..	..	..	..	..	..	..	..	..	
Bank Canal ..	2	..	Pedapollem ..	2nd					..	..	1	..	..	..	..	..	..	..	
	5	..	Kandur ..	3rd	..	..	..	......	..	..	..	..	..	..	..	..	..	..	
	7	..	Vallabhapuram.	2nd	..	..	1	Traffic north to south crosses here on the way to Tenally.	..	..	..	..	..	..	..	1	..	..	
	10	3	Pedapurtipolem.	3rd	..	..	..		..	..	..	..	..	..	..	..	..	..	
	12	5	Kollipora ..	3rd	..	..	..	......	..	..	..	..	..	..	..	..	..	..	
	14	5	Hannamallapolem.	1st	..	..	1	Guntur and Iayaloor road crosses here.	..	1	..	..	..	..	..	..	..	..	
	17	..	Chelmoor ..	2nd	..	..	..	A branch road to Tenally crosses here ..	..	..	1	..	..	..	..	..	..	..	
	18	..	Epoor ..	..	..	..	1		..	..	..	..	..	..	..	..	..	..	
	19	4	Kollur ..	..	..	1	..	Bridge across canal	..	..	..	..	..	..	..	..	..	..	
	22	1	Do. ..	2nd	..	..	1	From river lunkas much produce crosses here on its way to Tenally and Repally.	..	..	1	..	..	..	..	..	..	..	
	25	..	Donepudy ..	..	..	..	1	......	..	..	..	..	..	..	..	..	..	..	
	26	4	Vellatur ..	..	..	1	..	Bridge across canal	..	..	..	..	..	..	..	..	..	..	
	28	5	Pallivaru ..	..	..	..	1	......	..	..	..	..	..	..	..	..	..	..	
	30	[illegible]	Voleru ..	..	..	..	1	Voleru and Nizampatam road crosses here; one large punt ordered but not sent for up to date.	..	..	..	..	..	..	..	..	..	..	‡Not included in the statement of 21st Dec. 1875.
	32	4	Anantavaram ..	3rd	..	..	3		..	..	..	..	..	..	..	..	..	..	
	33	7	Penoomoodi ..	..	..	1	..	Bridg[illegible]	..	..	..	..	..	..	..	..	..	..	
[illegible]al	38	4	Karinchoda ..	3rd	..	..	..	[illegible]	..	..	..	..	..	..	..	..	..	..	
	26	[illegible]	Ratu Ap[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]nnu[illegible]nal	4	6	Tadeparru[illegible]	[illegible]	..	..	..	......	..	..	..	..	..	..	..	..	..	..	[illegible] included in statement of 21st Dec. 1875.
Retara [illegible] channel								......											
Bapatla [illegible] bed.	2	..	Jammulapollem	3rd	..	..	..	......	..	..	..	..	..	..	..	..	..	..	
Rivers a[nd dr]ainages.																			
Toongabudra Main Drain.	..	..	Jagerlamudy ..	..	..	1	..	Bridge over escape at head ..	..	..	..	..	..	..	..	..	..	..	
	5	2½	Volevarru ..	3rd	..	..	..	......	..	..	..	..	..	..	..	..	..	..	
	9	6	Chundur ..	3rd	..	..	..	......	..	..	..	..	..	..	..	..	..	..	
	12	3	Armanda ..	..	..	1	..	Bridge over Toombudra ..	..	..	..	..	..	..	..	..	..	..	
	14	2	Alloor ..	3rd	..	..	..	......	..	..	..	..	..	..	..	..	..	..	
	16	4	Ponnuru ..	..	..	1	..	Wooden bridge over Toombudra	..	..	..	..	..	..	..	..	..	..	
	18	6	Kasulvarru Commamur.	3rd	..	..	..	......	..	..	..	..	..	..	..	..	..	..	
	22	2½	Nandurnaud Chintlapady.	3rd	..	..	..	......	..	..	..	..	..	..	..	..	..	..	
	24	3	Mulkuduru ..	..	..	1	..	Bridge over Toombudra ..	..	..	..	..	..	..	..	..	..	..	
	30	4	Kollapolem ..	..	..	..	..	Do. do.	..	..	..	..	..	..	..	..	..	..	
	36	4	Ganapavaram ..	..	1	..	..	Ferry boat maintained by Government but out of order.	..	..	..	..	..	..	..	..	..	..	
	34	5	Rudravaram ..	3rd	..	..	..	......	..	..	..	..	..	..	..	..	..	..	
	36	5	Minarevarepollem.	3rd	..	..	..	......	..	..	..	..	..	..	..	..	..	..	
	38	7	Kamarazugaddu.	3rd	..	..	..	......	..	..	..	..	..	..	..	..	..	..	
	41	6	Chodoypolem ..	2nd	..	..	..	Branch road to Masulipatam	..	..	..	..	..	..	..	..	..	..	

Revised Statement of Ferry Boats, &c., for the Kistna District—(Continued).

No.	Name of Canal.	Miles.	Furlongs.	Villages or Road, &c.	Class of boats required.	Folding			Remarks.	No.
						Boats.	Bridges.	Bungalis.		
1		2		3	4	5	6	7	8	
	Rivers and Drainage—(Contd.)									
44	Vellaturu Channel.	0	5	Ganapidem	3rd	...	...	...	.....	
45		1	...	Vellaturu		...	1	...	Bridge over channel at head	
46		2	...	Pandrapad		...	...	...	Bridge over channel	
47		10	...	Ayyur		...	1	...	.....	
48	Gudi Cheruvu.	...	...	...		...	...	...	Bridge over channel	
49	Do.	...	...	...		...	...	...	Do.	
50	Kommur Canal	2	...	Kommur	2nd	...	1	...	Bridge over channel	
51		7	...	Kalidindi	3rd	...	...	...	.....	
52		8	...	Kolakaluru	2nd	...	...	...	.....	
53		13	...	Sakur &c.	3rd	...	...	...	.....	
54		17	...	Pantalampadu	2nd	...	...	...	.....	
55		21	...	Vellamudy	3rd	...	...	...	.....	
56		27	...	Chebrole	2nd	...	...	...	.....	
57		32	...	Sundrapad	3rd	...	...	...	.....	
58		35	...	Gurikapad	2nd	...	...	...	.....	
59		37	...	Cherukur	2nd	...	...	...	.....	
60		39	...	Pithapuram	3rd	...	...	...	.....	
61		43	...	Kurakalmaru	2nd	...	...	...	.....	
62		46	...	Kariapalem	3rd	...	...	...	.....	
63	Bapatla Tank Surplus Channel.	4	...	Yatapalem and Sankaravar.	3rd	...	...	...	.....	
64	Rompeda Drainage.	3	...	Chirala, &c.	3rd	...	...	...	.....	
65		12	...	Ejurpalem	3rd	...	...	...	.....	
66	Rollimeru Drainage channel.	1	1	Mannavu, &c.	3rd	...	...	...	.....	
67		4	6	Do. East.	3rd	...	...	...	.....	
	Eastern Delta Canals and Distributaries.									
68	Main Canal Muskapatam Canal.	...	...	Peravada	...	...	1	...	Bridge at lock	
69		3	2	Mogalrazapuram and Yenamaladeevi.	...	...	...	...	.....	

No.	Name of Canal.	Miles.	Furlongs.	Villages or Road, &c.	Class of boats required.	Folding			Remarks.	No.
						Boats.	Bridges.	Bungalis.		
1		2		3	4	5	6	7	8	
70		...	...	Peravada	...	...	1	...	.....	
71		...	...	Gosla	...	...	1	...	.....	
72		...	...	Kakipadu	...	...	1	...	Bridge at lock	
73		...	...	Vallurupalem	...	...	1	...	Road to Vallur	
74		...	...	Veeraraky	...	...	1	...	Bridge at lock	
75		...	...	Ramapuram	3rd	...	1	...	.....	
76		...	...	Vandram and Pandrapad	3rd	...	1	...	Pont lately supplied by Collector	
77	Machilipatam Canal.	25	...	Jaganaram, Nimmakur	3rd	...	...	...	.....	
78		27	...	Nedumolu	3rd	...	1	...	Bridge at lock	
79		31	...	Tsankelur	3rd	...	...	...	.....	
80		33	...	Gudur	2nd	...	1	...	Road on Sandridge	
81		40	...	Arakamara Chintagunta-palem	...	...	1	...	Bridge at lock	
82		...	...	Gudal Lock	...	...	1	...	Bridge over canal	
83	Pulicat Canal	4	...	Redlapad	2nd	...	...	...	.....	
84		6	...	Peda and Chinna Vagorala	2nd	...	...	...	.....	
85		8	...	Vakalur	2nd	...	1	...	Bridge over canal. Hyderabad road	
86		9	...	Wayyur		...	...	...	crosses here.	
87		12	...	Mattaiv and Muriwada.	2nd	...	1	...	Road proposed	
88		15	...	Yelamaru, &c.	2nd	...	...	...	.....	
89		20	...	Gollapalli and Gudalur.	2nd	...	...	...	.....	
90	Buckingham Canal.	22	...	Cavelamma	...	...	...	...	Road to Machilipatam	
91		24	...	Koorada	3rd	...	1	...	Bridge at lock	
92		27	...	Duggirnalli	3rd	...	...	...	.....	
93		29	...	Chinnur and Vuruvy	3rd	...	...	...	.....	
94		...	...	Sakkur	3rd	...	1	...	.....	
95	Lower Pulicat Canal and Tedi Chenla Kalva.	1	4	Kotta Cheruvu, &c.	2nd	...	...	...	.....	
96		4	2	Todicherla	3rd	...	...	...	.....	
97		10	...	Edapaky, &c.	3rd	...	...	...	.....	
98		13	...	Koduru, &c.	3rd	...	...	...	.....	
99		15	...	Kopukolu, &c.	3rd	...	...	...	.....	
100		18	...	Kalidindy, &c.	3rd	...	...	...	.....	
101		23	...	Kondangy, &c.	3rd	...	...	...	.....	
102	New Pulicat Canal.	...	...	Kottanam	...	...	...	...	.....	
103		5	...	Mohiddy Codu. &c.	3rd	...	...	...	.....	
104		8	...	Gurraz Payam, &c.	2nd	...	...	...	Salt-road	
105		10	2	Kandukur &c.	3rd	...	...	...	.....	

Revised Statement of Ferry Boats, &c., for the Kistna District—(Continued).

Name of Canal.	Mileage.		Village or Road, &c.	Class of a boats required.	Existing.			Remarks.	Constructed in 1876-77.					Proposed for Construction, 1877-78.					Remarks.
	Miles.	Furlongs.			Boats.	Bridges.	Sungadis.		Bridges.	Ferry boats.			Sungadis.	Bridges.	Ferry boats.			Sungadis.	
										1st-class.	2nd-class.	3rd-class.			1st-class.	2nd-class.	3rd-class.		
1	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Eastern Delta Canals and Distributaries—(Continued).																			
Pola Kodu from Pulleru.	12	6	Perutoor																
	15	7	Ivaravilli																
	2	6	Agraharam																
	5	4	Kajarampad and Kolakalur.	3rd															
	4		Affapatia and Kaikalur.	3rd															
			Angalor		1			Bridge over channel											
	6		Velpur			1													
	8		Motror	3rd				Do. do.											
Gundikodu from Pullaru.			Murivada		1														
	3	5	Yellamarru	3rd				Foot bridge over channel at head											
Gundikodu from Pullera.	6		Seepady	3rd															
	8		Pattavole			1		Bridge over channel											
Dakeru from new Polu Canal.	10	6	Argole Road, &c.	3rd		1		Do. do.											
	1		Chennur and Gurraja.	3rd															
	5	4	Pedda and Chinnakonamanipady.	3rd															
	7	4	Chegurukota	3rd		1		Bridge at head											
Eliore Canal			Bezwada		1														
	2	4	Mulakarapad			1													
	5	3	Mogalrajapuram and Gunnavalu.				1												
	6	5	Ramavarrapad		1														
	7	2	Yenekayad		1														
	10		Nekkalam		1														

Name of Canal.	Mileage.		Village or Road, &c.	Class of a boats required.	Existing.			Remarks.	Constructed in 1876-77.					Proposed for Construction, 1877-78.					Remarks.
	Miles.	Furlongs.			Boats.	Bridges.	Sungadis.		Bridges.	Ferry boats.			Sungadis.	Bridges.	Ferry boats.			Sungadis.	
										1st-class.	2nd-class.	3rd-class.			1st-class.	2nd-class.	3rd-class.		
1	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
			Eesaraplly	1st	1			Road from Eliore to Kuttapad											
	4		Baddaverum		1														
	4		Avalapolly		1														
	4		Autukur		1														
	2		Pathipadu	1st															
	6		Ampapuram	2nd															
			Vemavally					Branch road to Puttagoonta, &c.											
			Perkeed		1														
			Kolaparu		1			Bridge over canal											
			Eliore		1			Do. do.											
			Eliore Lock		1			Do. do.											
			Moparru		1			Bridge at head											
								Bridge over head of channel											
Moparru Channel from Boodemair.			Argole			1		Bridge over channel, Argole road											
	4		Nandevada	3rd															
	6		Arreperla, &c.	3rd															
Bhoomikodu from Boodemair.	6		Purtakmadu	3rd															
			Polakodu	3rd				Bridge at head											
Eyres' Canal	8		Bezwada			1		Channel incomplete up to 7th mile											
	2		Kidamatoor		1														
			Velpur and Wuppulur.	3rd															
	4		Comatigoonta					Bridge over canal											
	4		Kundalroo	2nd		1													
	5		Mariwada	2nd			1												
	6		Gumadala	2nd			1	Proposed road											
	4		Yenekapad																
Gudivada Channel			Comatigoonta																
			Gudivada																
			Kooda, &c.	2nd		1		Bridge over channel											
			Goodavilla																
	4		Velpur Tummair, &c.	3rd		1		Bridge over Boodemair, Eliore road											
	3		Veeapadu																
	6		Lankapilli	3rd															
	4		Moparru	2nd															
			Pudugoonta	2nd		1		Bridge over Boodemair, Eliore road											
			Arepirala																
			Ramaparam	2nd															
			Kodaravilli	2nd															
	4		Yelapuru	2nd															

* 1st-class boat was included in statement of 31st December 1876.

(Signed) R. MONTGOMERIE, Major, R.E.,
Ag. Dy. Chief Engineer for Irrigation,
for Chief Engineer for Irrigation.

14th December 1877.

No. 281 I.

No. 87-A. *Note by the Chief Engineer for Irrigation.*

IN January 1876 the undersigne[d] ...tted to Government correspondence and a statement showing the existing cross[ings] ...er canals, &c., in the Kistna Delta, and the ferry boats considered necessary t[o] ...tate communication, and an abstract of the statement was given in the note su[b]...ng the papers.

2. For canal crossings it was sho[wn] ...at—

(1) in the Western Delta thirty-[one] ...n ferry boats estimated to cost Rs. 6,670 were required;

(2) in the Eastern Delta th[e] ...mber needed was 51, the estimated cost being Rupees 7,380.

3. There are no artificial drain[s] ...es at present in the Kistna of a description needing ferry boats, and with ferries o[n] ...er rivers this department is not concerned, so the eleven boats then stated to be nec[es]...sary for rivers and drainages in the Western Delta and the eight boats similarly re[q]...ired in the Eastern Delta need not be further noticed.

4. In G.O., No. 99 I, of the 22[nd] June 1877, it was laid down that ferry boats required for crossings on canals and ...fficial drains are to be charged to the works which have rendered such facilities necessary, and the Superintending Engineer accordingly asks for sanction for the boats named in Statement II transmitted with his letter No. 81, of the 4th August last, viz.:—

	Rs.
Western Delta four boats	1,052
Eastern „ four „	1,052

for use at the places specified in the statement. This estimate is recommended for sanction, and the classification, &c., are shown below:—

Section of Delta.	Main-head.	Sub-head.	Name of Canal.	Position.	Description.	Amount of Estimate.
				Ms. Chs.		Rs.
Western ...	2. Main Canals and Branches.	O, Miscellaneous.	Main ...	1 10	Ferry boat, 2nd-class.	263
	Do. ...	Do. ...	Do. ...	5 40	Do. ...	263
	Do. ...	Do. ...	Bank ...	5 0	Do. ...	263
	Do. ...	Do. ...	Commamur ...	17 70	Do. ...	263
					Total, Western Section ...	1,052
Eastern ...	2. Main Canals and Branches.	O, Miscellaneous.	Ryves ...	16 4	Ferry boat, 2nd-class.	263
	Do. ...	Do. ...	Do. ...	21 50	Do. ...	263
	Do. ...	Do. ...	Pulleru ...	8 0	Do. ...	263
	Do. ...	Do. ...	Do. ...	22 20	Do. ...	263
					Total, Eastern Section ...	1,052

The expenditure should it is consider[ed] ... be charged to Capital, Ordinary.

5. The Superintending Engin[eer] ... has also transmitted another statement marked I, showing the ferry boats that were ... ructed in 1876-77, and as it may be convenient for further reference to be able ... what the crossings provided are, the general statement of 1875 has been re[vised] ... to show—

(1)—What was then proposed[?]

(2)—What was done in 1876[-77?]

(3)—What is proposed for the ...ear.

6. The Superintending Enginee[r] ...tted, he states,* through the Examiner Public Works Accounts, an application a re-appropriation to meet the cost ... ill be disposed of in the ordinary manner.

* No. 130, 2nd November 1877.

CAMP, KISTNA, (Sig[ned]) MULLINS, Colonel, R.E.,
Eastern Delta, JOH[N] Chief Engineer for Irrigation.
14th December 1877.

To the Joint Secretary to Government, Public ...ment, Irrigation Branch.

No. 88. ORDER THEREON, 28th ...ry 1878, No. 78 I.

HIS GRACE the Governor in Council s...ns the estimates amounting altogether to Rupees 2,104 for providing ferry boats ... canals in the Kistna Delta specified in the foregoing note. This sanction has be[en] ...istered as No. 338 I of 1877-78.

2. The provision of funds will b[e] ...ely dealt with.

(T[rue] ...)

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

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

Exd. C. Howarth.
Spare Copies

enne Myn
No 603

IRRIGATION.
ACCOUNT.

bt. of (1878) Madras.

PUBLIC WORKS.

The DISTRICT ENGINEERS,
KISTNA.
&c., &c., &c.

dated January 28th.

Issued

Rect. 11 Febry. Instt.

G.O., 28th January 1878, No. 78 L.J.

JANUARY.
Nos. 87-88.

No 374
Communicated to the Board of Revenue.
12 Feb 78.

With Order