

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works **DEPARTMENT.**

G.O. No. ¹²⁹⁵ 1296 (2)	Press Mis.
Dated 10-4-	1877.

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*Proceedings of the Madras Government, Public Works Department,
16th April 1877. No. 1,296.*

Read the following papers:—

No. 369.	From the District Engineer, Godavery,	dated 6th February 1877.
No. 369-A.	From " " Kistna,	„ 23rd January „
No. 369-B.	From " " Nellore,	„ 21st " "
No. 369-C.	From " " South Arcot,	„ 19th " "
No. 369-D.	From " " Tinnevely,	„ 25th " "

Statement showing the Progress of Agricultural Works under execution from the Extraordinary Grant for the Quarter ending 31st December 1870.

Proceedings of the Madras Government, Public Works Department,
16th April 1877. No. 1,296.

Name of Work.	Amount of Estimate.	Current Year's Grant.	EXPENDITURE.		Total Expenditure.	Success Account showing the state to which the works have been advanced up to date.
			During the Quarter.	During the Current Year.		
GODAVERY DELTA SYSTEM.						
EASTERN SECTION.						
(1.)—HEAD WORKS.						
K. Buildings	2,500	2,002	687	1,928	12,777	
Do. at Alamur	2,500	46				
Do. at Chintapully	2,500	105				
Do. at Jagannadagerry.	2,500	243				
Do. at Kottipilly						
(2.)—MAIN CANALS AND BRANCHES.						
Main Canal.						
D. Regulators	17,890	8,983	161	979	9,885	0.55
L. Earthworks	28,060	3,168	—4,607	422	25,314	.90
Cocanada Canal.						
B. Land	6,545	...	...	...	233	0.08
L. Earthworks	38,120	3,200	...	3,135	37,577	
I. Navigation Works.	28,050	...	—36	762	1,20,194	1.0
Lock at Madapad	7,360	...				
Weir at do.	23,820	...				
Lock at Thosepudi	5,060	...				
Weir at do.	26,160	500				
Lock at Chintapilly	3,070	...				
Weir at do.	26,160	811				
Lock at Covoor						
Coringa Canal.						
B. Land	6,543	1,000	...	187	187	1.0
Compensation			...			

Proceedings of the Madras Government, Public Works Department,
16th April 1877. No. 1,296.

Add for increase of Suspense Balances.	...	...	...	...	...	...
Stock purchases and sales	...	...	...	...	...	...
Stock	...	...	...	...	...	...
Miscellaneous Advances...	...	...	...	...	...	...
London Invoices...	...	...	...	...	...	...
London Stores ...	...	...	...	...	...	...
Total, Striviguntum Anicut System...	11,38,087	41,930	9,795	38,978	11,46,691	

CAPITAL EXTRAORDINARY.

Abstract of the Total Grants and Expenditure for the Works in each District up to 31st December 1876.

System of Irrigation.	Amount of Grant for the Year.	Expenditure to 31st December 1876.
	RS.	RS.
Godavery Delta	2,01,469	1,11,799
Tools and Plant	30,300	8,410
Establishment	70,953	56,840
Add for increase of Suspense Balance ...	...	26,013
Total, Godavery Delta System ...	3,02,722	2,03,062
Kistna Delta	27,360	15,842
Tools and Plant	7,850	116
Establishment	13,691	6,933
Add for increase of Suspense Balances ...	...	271
Total, Kistna Delta System ...	48,901	23,162
Pennair Anicut	12,791	16,535
Tools and Plant	250	...
Establishment	5,766	-2
Add for increase of Suspense Balances ...	...	3,164
Total, Pennair Anicut System ...	18,807	19,697
Striviguntum Anicut	31,820	26,091
Tools and Plant	...	...
Establishment	10,110	12,887
Add for increase of Suspense Balance ...	...	...
Total, Striviguntum Anicut System ...	41,930	38,978
Grand Total ...	4,12,360	2,84,899

Kistnapatam Channel.									
L. Earthworks	...	...	...	...	...	...	...	...	...
Survapalli Channel.									
B. Land	...	15,456	...	6,201	...	...	...	...	...
L. Earthworks	...	...	...	...	...	...	...	...	...
N. Tanks and Reservoirs.									
Deepening the Survapalli new cut and improving old Ramareddy channel	...	66,590	...	...	...	...	...	...	...
Improving Survapalli tank	...	96,574	...	2,000	...	...	...	...	...
Irrigation sluice to Penubarti tank									
B. Land	...	2,575	...	46	...	1,240	...	16,535	4,82,703
(3).—DISTRIBUTARIES.									
Survapalli Channel.									
C. Works	...	...	...	...	...	...	...	...	...
L. Earthworks	...	2,600	...	1,544	...	...	...	...	...
(4).—DRAINAGE AND PROTECTIVE WORKS.									
L. Earthworks	...	4,500	...	3,000	...	...	...	...	...
Pottampadu drainage channel...									
Improving drainage channel near aqueduct at Kanuparthipadu									
Other works	...	2,23,229	...	...	...	...	...	...	...
Total, Works									
Tools and Plant Establishment	...	...	...	250	...	...	...	...	2,499
Add for increase of Suspense Balance.	...	...	...	5,766	...	...	...	...	1,15,445
Stock purchases and sales	...	...	...	...	...	...	...	...	...
Stock	...	...	...	...	...	...	...	...	...

Name of Work.	Amount of Estimate.	Current Year's Grant.	EXPENDITURE.		Total Expenditure.	Succinct Account showing the state to which the works have been advanced up to date.
			During the Quarter.	During the Current Year.		
PENNAIR ANICUT SYSTEM—(Continued).						
Miscellaneous Advances...	...	...	3,152	3,463	3,488	
London Invoices...	...	...	...	...	...	
London Stores ...	...	...	...	...	...	
Total, Pennair Anicut System.	4,20,060	18,807	—72	19,697	6,05,914	
STRIVIGUNTUM ANICUT SYSTEM.						
(2).—MAIN CANALS AND BRANCHES.						
<i>North Canal and Branches.</i>						
B. Land ...	37,000	2,000				93
Il. Escapes ...	39,310	2,100				
F. (1).—Cross Drainage Works.	3,500	500				
N. Tanks and Reservoirs.	11,920	3,920	4,594	26,091	9,49,405	10 Earthwork. 99 Masonry. 99 Miscellaneous.
	70,880	28,300				
	7,76,890	...				
	...	5,000				
Deduct Rupees ...	9,39,500	31,820	4,594	26,091	9,49,405	
Total, Works ...						
Tools and Plant...	6,105	...	...	...	1,317	
Establishment ...	1,73,982	10,110	5,201	12,887	1,95,969	
Capitalization of Land Revenue.	18,500	...	...	...	...	

Statement showing the Progress of Agricultural Works under execution from the Extraordinary Grant for the Quarter, &c.—(Continued).

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16th April 1877. No. 1,296.

Name of Work.	Amount of Estimate.	Current Year's Grant.	EXPENDITURE.		Total Expenditure.	Succinct Account showing the state to which the works have been advanced up to date.
			During the Quarter.	During the Current Year.		
KISTNA DELTA SYSTEM.—(Continued).						
WESTERN SECTION.						
(2).—MAIN CANALS AND BRANCHES.						
Cannamur Canal Project ...	1,95,770	...	—12	—225	1,73,652	
Total, Western Section... ..	1,95,770	...	—12	—225	1,73,652	
Total, Works ...	9,11,483	27,360	2,493	15,842	7,68,569	
Tools and Plant ...	...	7,850	116	116	26,398	
Establishment ...	...	13,691	22	6,933	3,16,688	
Add for increase of Suspense Balance.	...	...	...	...	...	
Stock purchase and sales ...	...	...	...	...	...	
Stock ...	...	...	...	...	...	
Miscellaneous advances ...	...	...	...	...	...	
London Invoices ...	...	...	...	...	...	
Do. Stores ...	...	...	...	...	...	
Total, Kistna Delta System ...	9,11,483	48,901	2,902	23,162	11,11,926	
PENNAIR ANICUT SYSTEM.						
(2).—MAIN CANALS AND BRANCHES.						
Main Canal.						
L. Earthworks ... Deepening	6,536	...	...	...	...	

Proceedings of the Madras Government, Public Works Department,
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C. Works ...	2,045	1,000	155	920	4,079	5	1	Irrigation sluice, 1 dam built, 1 culvert and 2 under tunnels, irrigation channel finished.
L. Earthworks ...	4,980	500	...	...	...	...	...	...
Other works ...	1,000	...	...	...	...	...	...	...
C. Works ...	6,110	1,000	100	400	3,044	...	...	...
L. Earthworks ...	1,500	...	...	...	...	...	...	...
Other works ...	4,350	1,000	...	...	539	0-12	1	Irrigation channel finished.
C. Works ...	8,200	...	...	638	4,061	0-2	4	Irrigation channels finished.
L. Earthworks ...	12,150	600	...	...	...	...	...	...
C. Works ...	3,520	4,250	1,011	3,511	17,623	1-16	11	Irrigation sluices, 5 dividing dams, 2 under tunnels built. Improvements to several channels have been done. Ralinghy channel improvements and Moyeri channel in hand.
L. Earthworks ...	1,500	...	...	...	...	...	...	...
Other works ...	2,400	...	...	...	...	...	...	...
C. Works ...	1,500	...	...	...	...	...	...	...
L. Earthworks ...	6,270	...	...	...	...	...	...	...
C. Works ...	3,230	1,000	295	776	1,151	...	...	...
L. Earthworks ...	920	300	...	...	...	...	...	...
C. Works ...	2,500	500	...	...	...	...	...	...
L. Earthworks ...	78,500	1,500	1,465	2,029	17,181	...	...	...
Other works ...	2,100	...	...	...	...	...	...	...
C. Works ...	10,900	...	...	...	...	...	...	...
L. Earthworks ...	13,200	...	...	...	...	...	...	...

Not commenced.

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16th April 1877. No. 1,296.*

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			During the Quarter.	During the Current Year.		
	RS.	RS.	RS.	RS.	RS.	
GODAVERY DELTA SYSTEM—(Continued).						
<i>Yenamaduru Drain.</i>						
L. Earthworks ...	20,130	100	...	...	13,619	0-67 Finished.
C. Works ...	8,670	...	...	...	...	Not commenced.
<i>Undi Canal.</i>						
L. Earthworks ...	1,600	...	...	...	...	
<i>Bondada and Rudroyakodu Drain.</i>						
L. Earthworks ...	11,550	...	...	...	9,899	85 Bondada drain finished.
<i>Buggeswaram, Rajukodu, and Yerlakodu Drains.</i>						
L. Earthworks ...	4,840	220	...	393	2,318	48 Improvements to Royalam and Rajukodu drains finished.
Minor drains ...	6,050	...	...	...	6,050	Finished.
Earthwork ...	15,950	5,000	...	...	15,894	Excavation and 2 miles of bank ing finished.
L. Earthworks ...	2,370	...	...	...	2,370	Finished.
C. Works ...	...	...	74	74	753	
B. Land ...	5,385	500	...	...	...	
<i>Parimella and Pandikodu Drains.</i>						
L. Earthworks ...	34,600	...	...	...	34,703	1-0 Finished.
C. Works ...	19,545	...	...	...	19,072	Do.
<i>Cara Drain.</i>						
L. Earthwork ...	5,760	...	...	...	3,563	0-6

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Drain from 9½ Miles, Mid-land Channel.									
B. Land	...	Compensation	...	2,100	...	...	...	...	...
L. Earthworks	...		...	18,530	...	...	...	...	...
C. Works	...		...	3,370	...	...	...	...	...
Drainage Diversion from Dudam-pudi under tunnel.									
B. Land	...	Compensation	...	2,175	...	...	...	...	...
	...	Chinnanidrakollu channel sluice.	...	1,220	...	...	...	...	...
	...	Other works	...	1,930	...	...	...	...	...
L. Earthworks	...	Improvements	...	16,375	...	...	...	...	...
O. Miscellaneous	...	Materials at site	...	...	...	...	...	...	...
				...	91,360	...	...	...	...
				...	13,000	...	...	...	...
Deduct as per G.O., No. 240, dated 25th Jan. 1877.									
Total works, Western Delta Division									
				13,04,640	78,560	12,305	40,496	8,75,870	...
				25,90,860	2,01,469	21,969	1,11,799	17,19,150	...
Tools and Plant Establishment									
				1,91,560	30,300	8,410	8,410	83,983	...
				...	70,953	23,581	56,810	5,24,388	...
Add for increase of Surplus Balance.									
				...	...	...	...	...	...
				...	...	60	942	879	...
				...	...	12,520	20,504	33,875	...
				...	...	320	6,151	7,018	...
				...	...	...	...	...	...
				...	...	...	...	...	...
				...	...	...	...	...	...
				27,82,420	3,02,722	66,223	2,03,002	23,67,533	...
Total, Godavery Delta System									

Statement showing the Progress of Agricultural Works under execution from the Extraordinary Grant for the Quarter &c.—(Continued).

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Name of Work.	Amount of Estimate.	Current Year's Grant.	EXPENDITURE.		Total Expenditure.	Succinct Account showing the state to which the works have been advanced up to date.
			During the Quarter.	During the Current Year.		
KISTNA DELTA SYSTEM.						
EASTERN SECTION.						
(2).—MAIN CANALS AND BRANCHES.						
Main Canal.						
B. Land ...	4,500	...	1,516	4,812	1,07,735	Road
L. Earthworks ...	78,204	3,914				Earthwork
I. Navigation ...	30,826	786				Masonry
						Revetment
Total ...	1,13,530	4,700	1,516	4,812	1,07,735	
Masulipatam Canal.						
L. Earthworks ...	10,100	650	20	611	8,610	Earthwork
Enlarging Masulipatam canal, 4 to 12½ miles ...	65,000	210	25	174	64,959	Do.
Total ...	75,100	860	45	815	73,599	
(3).—DISTRIBUTARIES.						
Pulleru Canal.						
C. Works ...	330	140	...	138	384	
Head sluice at the head of Kapeleshwaram channel ...						
Do. do. at the head of Palacodu ...	600	500	...	—42	101	
Kapeleshwaram tail escape ...	300	300	...	...	...	
Other small sluices ...	550	500	...	...	55	
Kapeleshwaram channel ...	2,860	2,860	8	654	654	In progress.
Other works ...	369	...	...	...	...	

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16th April 1877. No. 1,296.

B. Land ...	2,500	2,000	353	455	455	...
I. Navigation Works.	32,370	...	...	...	...	...
Lock (double) at Dodipatla ...	3,500	600	...	...	...	...
Do. weir at Silbantam ...	3,500	1,000	475	2,874	42,394	0.57 Silbantam and Koder locks built. Koder lock weir and surplus weir at 2nd mile and Silbantam lock weir finished.
Do. at Koder ...	17,300	800	...	...	...	...
Other works ...	18,205	...	...	...	24,473	1.03 Finished from head to Dodipatla, a distance of about 22½ miles.
L. Earthworks ...	22,500	1,000	41	1,274	...	...
Improvements ...	...	...	...	...	...	...
Tutti Canal.						
B. Land ...	4,990	1,000	...	...	145	...
II. Escapes ...	4,910	...	...	...	...	...
Escape at 7½ mile ...	3,550	...	...	...	...	...
Do. at 1½ " ...	5,110	300	72	81	16,639	0.29 Head lock finished.
Lock weir at 11½ mile ...	15,700	...	...	...	...	...
Head lock ...	27,890	...	...	...	20,709	0.77 Finished except tail races to weir.
Other works ...	26,600	...	...	...	...	...
Improvements ...	...	...	...	...	...	...
Attili Canal.						
B. Land ...	4,500	1,000	106	106	181	...
I. Earthworks ...	23,610	60	...	56	17,504	0.74 Finished.
C. Works ...	42,700	800	18	713	37,693	.88 Godeheria and Gummampad locks and weirs, and Mundapaka surplus weir finished.
Improvements ...	...	...	...	...	...	...
Gostanadi and Velpur Canal.						
B. Land ...	5,750	2,000	137	137	137	...
I. Navigation Works.	15,000	5,000	...	...	...	...
Lock at Mamadur ...	3,700	100	...	...	...	...
Do. weir at do. ...	15,350	100	1,149	4,120	40,744	.60 Head lock and weir, Mamadur lock, finished; weir at 14th mile. Varasanam channel head sluice and Mamadur weir built.
Head Lock ...	7,710	200	...	...	...	...
Weir at 14th mile ...	25,400	...	...	...	...	...
Other works ...	...	...	...	...	...	...
Improvements ...	64,000	5,000	384	4,430	50,234	0.79 From Gostanadi head for 27½ miles all work finished.
L. Earthworks ...	...	...	...	...	...	...
Improvements ...	...	...	...	...	...	...
Venkia and Weyeru.						
B. Land ...	100	30	...	23	23	Finished.
L. Earthwork ...	25,370	...	...	...	21,820	Do.
C. Works ...	47,030	...	—3	...	42,442	...

Statement showing the Progress of Agricultural Works under execution from the Extraordinary Grant for the Quarter, &c.—(Continued).

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			During the Quarter.	During the Current year.		
	RS.	RS.	RS.	RS.	RS.	
GODAVERY DELTA SYSTEM—(Continued).						
(3.)—DISTRIBUTARIES.						
<i>Ellore Canal.</i>						
B. Land ...	8,440	1,000	...	...	953	
Land for mid-level channel ...	2,760	500	...	...	...	
Do. for low do. ...	12,590	1,000	...	...	...	
C. Works ...	10,830	2,000	447	2,401	25,033	1-04 5 Irrigation sluices and 3 escapes finished, and 1 sluice and dam nearly so. Several irrigation channels finished.
Other masonry works and earth-works ...	...	...	...	...	...	...
Village sluices, mid-level channel	5,040	500	92	295	28,916	93 Head sluice built and removed, 6 bridges, 6 drops, 1 under tunnel, 2 regulators, 1 escape, 9 sluices finished, and 1 sluice in hand.
Drops do. ...	4,380	...	...	...	...	...
Other works ...	21,560	...	...	...	...	...
Village sluices, low-level channel	2,520	400	117	257	9,064	97
Other works ...	6,740	...	...	...	...	...
Metalled crossings, mid-level channel ...	960	...	...	...	...	...
Other works ...	23,800	...	...	...	24,901	10 All earth work of main channel finished; of branch channels, Rupees 3,070 out of 3,520 provided are spent.
Do., low-level channel	1,120	...	...	...	6,174	85 Finished.
Other works ...	6,150	...	...	...	...	...
<i>Narsapur Canal.</i>						
Land taken up for canal	2,060	500	246	246	1,520	...
Minor masonry works ...	12,235	1,500	44	341	13,589	53 5 Irrigation sluices, 8 dams and 3 under tunnels built; improvements to 8 channels finished.
L. Earthworks ...	13,715	100	...	...	...	...

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16th April 1877. No. 1,296.

L. Earthworks ...	1,31,710	2,047	62	336	80,577	0-68
C. Works ...	6,390	...	...	2	5,645	0-88
<i>Buccanole Canal.</i>						
Compensation ...	6,300	1,000	...	...	...	...
Improving main drain ...	60,730	2,000	50	80	41,082	0-69
Do. small do. ...	4,270	...	...	...	3,305	77
Surplus weir at the head of drain.	...	...	...	...	...	...
<i>Tali Drain.</i>						
Land for drain ...	18,000	1,500	...	...	...	...
Improving main drain ...	2,55,600	4,219	293	3,995	88,311	0-35
Do. small do. ...	7,000	629	153	203	964	0-09
Surplus weir at the head of drain.	7,400	112	179	186	7,473	98
<i>Mandapetta Canal.</i>						
Channel to drain Somaswaram lands ...	139	195	...	...	...	...
Total Works, Eastern Delta Division ...	12,99,766	...	...	...	...	...
Sanctions in anticipation of savings ...	4,546	1,22,009	9,064	62,303	8,43,280	...
Net amount sanctioned by Government of India ...	12,86,220	...	...	...	...	...
(WESTERN SECTION.)						
(1)—Head Works.						
Rest-house at Bhimavaram ...	2,900	900	201	929	2,895	Finished.
Do. at Attli ...	2,900	400	362	568	2,955	Foundations in.
Do. at Akid ...	2,900	2,100	461	614	1,310	...
Do. at Chettipett ...	2,900	...	...	...	2,899	...
Do. at Peravelli ...	2,900	...	...	...	3,055	...
Do. at Koder ...	2,900	...	...	...	2,981	...
Do. at Nursapur ...	2,900	...	...	...	700	Finished.
Do. at Thadepally gudem	2,900	...	...	...	3,027	...
Bungalow at Pratinand	...	...	...	...	96	...
Inspection house at do.	...	...	...	...	800	...
Compensation ...	...	...	...	...	...	...

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			During the Quarter.	During the Current Year.		
GODAVERY DELTA SYSTEM—(Continued).						
(2)—MAIN CANALS AND BRANCHES.						
Main Canal.						
D. Regulators ...	Improvements to head sluice ...	...	...	...	...	...
L. Earthworks ...	Improvements ...	...	...	...	...	...
Ellore Canal.						
L. Earthworks ...	Improvements ...	...	...	...	...	...
B. Land ...	Compensation ...	...	...	...	...	...
H. Escape ...	Additional surplus weir ...	...	...	...	...	...
Kakarapattu Canal.						
B. Land ...	Compensation ...	...	...	...	...	...
L. Earthworks ...	Improvements ...	...	...	...	...	...
Nursapur Canal.						
L. Earthworks ...	Improvements ...	...	...	...	...	...
B. Land ...	Compensation ...	...	...	...	...	...
I. Navigation Works.	Lock at Palkole...	...	...	...	...	...
	Do. weir at do. ...	...	...	...	...	...
	Do. at Marter ...	...	...	...	...	...
	Other works ...	...	...	...	...	...
		1,12,990				

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16th April 1877. No. 1,296.

I. Navigation Works.	Lock weir at Alampur ...	...	...	...	...	...
L. Earthworks ...	Improvements' ...	...	...	...	...	...
Mandapetta Canal.						
I. Navigation Works.	Lock at Thapeweram ...	...	...	...	...	...
	Lock weir at do. ...	...	...	...	...	...
	Lock weir, Pasalapudi ...	...	...	...	...	...
L. Earthworks ...	Improvements ...	...	...	...	...	...
Injeram Canal.						
B. Land ...	Compensation ...	...	...	...	...	...
L. Earthworks ...	Improvements ...	...	...	...	...	...
I. Navigation Works.	Tidal weir ...	...	...	...	...	...
C. Works ...	Raising crest of escape near Ventur ...	...	...	...	...	...
Bank Canal.						
I. Navigation Works.	Lock at Koulaisheram	...	...	...	...	...
	Do. weir at do. ...	...	...	...	...	...
	Do. at Kulla ...	...	...	...	...	...
	Do. weir at do. ...	...	...	...	...	...
	Do. at Choppella	...	...	...	...	...
	Do. weir at do. ...	...	...	...	...	...
	Other works ...	...	...	...	...	...
	Compensation ...	...	...	...	...	...
B. Land ...	Improvements ...	...	...	...	...	...
L. Earthworks ...	Other works ...	...	...	...	...	...
Sannikola Canal.						
I. Earthworks ...	Improvements ...	...	...	...	...	...
B. Land ...	Compensation ...	...	...	...	...	...
C. Works ...	...	...	...	...	...	...
E. Falls and Weirs...	Bhennavaram escape ...	...	...	...	...	...
(3.)—DISTRIBUTARIES.						
Cocanada Canal.						
C. Works ...	Head sluices and dams...	...	...	...	...	...
L. Earthworks ...	Minor channels...	...	...	...	...	...
	Amount for which detailed estimates are not yet sanctioned.	...	...	...	...	...

Proceedings of the Madras Government, Public Works Department,
16th April 1877. No. 1,296.

Name of Work.	Amount of Estimate.	Current Year's Grant.	EXPENDITURE.		Total Expenditure.	Succinct Account showing the state to which the works have been advanced up to date.
			During the Quarter.	During the Current Year.		
GODAVERY DELTA SYSTEM—(Continued).						
<i>Coringa Canal.</i>						
C. Works ... Head sluices and dams...	10,586	3,443	630	3,157	10,440	39
L. Earthworks ... Minor channels ...	3,800	3,688	...	...	...	...
Amount for which detailed estimates are not yet sanctioned.	11,614	...	...	...	...	...
<i>Mundapetta Canal.</i>						
C. Works ... Head sluices and dams...	4,467	920	187	663	4,430	0.38
L. Earthworks ... Minor channels ...	7,244	97	...	...	5	...
R. Land ... Compensation ...	3,273	1,000	...	...	...	...
<i>Irueram Canal.</i>						
C. Works ... Head sluices and dams...	2,010	1,020	340	4,590	5,581	0.51
L. Earthworks ... Minor channels ...	4,670	4,670	...	...	...	...
Amount for which detailed estimates are not yet sanctioned.	4,320	...	...	...	...	...
<i>Bank Canal.</i>						
L. Earthworks ... Minor channels ...	13,100	...	...	...	...	...
<i>Sunulhota Canal.</i>						
C. Works ... Head sluices and dams...	4,600	4,856	...	...	...	...
L. Earthworks ... Minor channels ...	8,610	8,603	772	7,310	9,861	57
Amount for which detailed estimates are not yet sanctioned.	7,945	...	...	...	...	...
(4.)—DRAINAGE AND PROTECTIVE WORKS.						
<i>Thalabagi Drain.</i>						
R. Land ... Main drain ...	12,565	1,599	...	...	...	...

Proceedings of the Madras Government, Public Works Department,
16th April 1877. No. 1,296.

Statement showing the Nature and Progress of all Preliminary Surveys and Inquiries under prosecution in connection with the new Irrigation Projects intended to be carried out from Loan Funds for quarter ending 31st December 1876.

Districts	Names of Projects or Systems.	Particulars of Progress of Investigation.
Ganjam ...	Vamsadara river or Chicacole Project.	Papers with Chief Engineer for Irrigation.
Godavery ...	Godavery Delta—Central Delta Project ...	
Unnamalunka do. ...	Unnamalunka do. ...	
Kistna ...	Kistna Delta System—Surveying and levelling Eastern Delta Project.	All plans and estimates for irrigation and drainage with the Chief Engineer for Irrigation.
Do. ...	Western Delta Project ...	Ditto Ditto except Commamur Canal and Rampairu swamp, the preparation of plans and estimates of which are in rapid progress.
Madura ...	Perryaur Project ...	With Government.

FOET ST. GEORGE,
28th March 1877.

(Signed) G. T. WALCH,
Acting Deputy Chief Engineer for Irrigation,
for Chief Engineer for Irrigation.

No. 370.

ORDER THEREON, 16th April 1877, No. 1,295.

IRRIGATION, No. 31.

Accounts.

ORDERED that the foregoing statements be forwarded to the Government of India.

(True Extract.)

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

No. 371.

DOCKET No. 1,296, dated 16th April 1877.

Copy of the above forwarded to the Government of India.

(True Extract.)

(Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

Exd. S. T. Austin.
Spare Copies

Irregular Accounts

No 1295

Public Works Department.

PROCEEDINGS of the MADRAS GOVERNMENT.

UNDER date the

16 April 77

Read the following:—

Ordered that the
foregoing statements be
forwarded to the Government
of India.

Enc No 1296 of 16 April 77
Copy of the above
forwarded to the
Govt. of India

by 29/3

5th

Mr D. H. Canine. ✓
Ch. Secy. S. S.
L. P. W. A. ✓

Recd 3-5-77

14/5/77

103329

Gobt. of 1877 Madras
PUBLIC WORKS.

To District Engineer General

Dated

Issued

Recd.

Encl.

G. O. 15th April 1877, No 12, 9597290

Nos. 369-370-371

Statement showing the
Progress of Agricultural
works under Section from
the Extraordinary Grant
for quarter ending 31st Decr
1876, forwarded to the Govt
of India.

Forwarding statement
showing the progress of Agri-
cultural works under Section
from the Extraordinary Grant
for quarter ending 31st Decr
1876.

W. P. in Regt