

(1) Number of pages 22

(2) Date of repair

3. Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public Works

DEPARTMENT.

G.O. No. 101

Press
Mis.

Dated

12

1877.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
12th January 1877. No. 101.*

Read the following papers:—

No. 190.	From the District Engineer, Ganjam.
No. 191.	From do., Godavery, dated 28th October 1876.
No. 192.	From do., do., „ 30th do. „
No. 193.	From do., Kistna, „ 31st do. „
No. 194.	From do., do., „ 13th do. „
No. 195.	From do., Nellore, „ 7th December „
No. 196.	From do., South Arcot, „ 20th October „
No. 197.	From do., Tinnevely, „ 31st do. „

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12th January 1877. No. 101.*

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.	RS.		
GODAVERY DELTA SYSTEM.							
EASTERN SECTION.							
(1).—HEAD WORKS.							
K. Buildings	Rest-house at Alamur	2,500	1,089	1,240	1,240		
(2).—MAIN CANALS AND BRANCHES.							
Main Canal.							
D. Regulators	Improvements to head sluice	17,800	420	818	9,725	0.55	
L. Earthworks	Improvements	23,060	298	5,029	29,921	1.06	
Cavanada Canal.							
B. Land	Compensation	6,545	200		233		
L. Earthworks	Improvements	38,120	3,000		37,577	0.98	
I. Navigation works.	Lock at Madapad	23,050	1,142	3,135			
	Weir at do.	7,360					
	Lock at Thosapudi	23,820					
	Weir at do.	5,060	530	798			
	Lock at Chintapilly	26,160					
	Weir at do.	3,070					
	Lock at Cavor	26,160					
Coringa Canal.							
B. Land	Compensation	6,545		187	187		
L. Navigation Works.	Lock weir at Alamur	7,966	562	780	8,839	1.11	Alamur lock weir masonry finished, except coping ; girder bridge being fixed.
L. Earthworks	Improvements	41,180	1,309	4,956	28,931	0.70	Almost completed.

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Mandapeta Canal.		Injeram Canal.		Bank Canal.		Sankulakota Canal.		(3).—DISTRIBUTARIES.		Coringa Canal.	
I. Navigation Works.	Look at Thapesweram ...	18,370	...	27	51	21,035	0.42	Thapesweram lock weir finished.			
	Lock weir at do. ...	2,850	...	...	...	12,700	Completed.				
L. Earthworks	Lock weir Panshapudi ...	530	...	...	...	...					
	Improvements ...	12,700	...	...	...	...					
B. Land	Compensation ...	3,273	1,000	...	...	4,736	0.37	Nearly completed.			
L. Earthworks	Improvements ...	12,850	3,000	415	543	...					
H. Escapes	Escape on the south side wall of Burremaveram, aqueduct ...	4,200	...	1	216	3,072	0.73	The work is not now in progress.			
I. Navigation Works.	Lock at Koulaishweram ...	20,100	4,000	...	...	56,328	0.52	Choppella lock weir almost com- pleted. Koulaishweram lock being copied. Koulaishweram lock weir, stone for coping being dressed. Kulla lock rough stone in chunnam for foundation in progress.			
	Do. weir at do. ...	4,400	2,400	...	...	...					
	Do. at Kulla ...	22,930	15,000	3,787	3,154	...					
	Do. weir at do. ...	4,670	3,000	...	...	...					
	Other Works ...	54,900	...	...	...	...					
E. Earthworks	Improvements ...	1,00,000	10,000	1,933	13,203	93,553	0.85	Completed up to 21st mile.			
	Other works ...	6,280	...	...	...	...					
B. Land	Compensation ...	...	1,000	...	24	536					
C. Works	Head sluices and dams ...	15,075	2,500	...	...	...					
L. Earthworks	Minor channels ...	12,130	1,000	244	559	21,013	0.73				
	Amount for which detailed esti- mates are not yet sanctioned...	1,795	...	...	...	...					
C. Works	Head sluices and dams ...	10,586	2,500	1,817	2,527	9,811	0.38	Itapudi and Casalar sluices com- pleted, and head sluice to Yeru- pilly channel excepting revee- ments.			
L. Earthworks	Minor channels ...	3,800	5,000	...	...	...					
	Amount for which detailed esti- mates are not yet sanctioned.	11,614	...	...	...	...					

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

*Proceedings of the Madras Government, Public Works Department,
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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.			
					RS.	RS.		
GODAVERY DELTA SYSTEM—(Continued).								
Mundapetta Canal.								
C. Works ...	Head sluices and dams ...	4,467	1,000	349	476	4,213	0-39	Sholavaram head sluice almost completed. Materials for Nos. 2, 3, and 4 being collected.
L. Earthworks ...	Minor channels ...	7,244	...	...	...	...	...	...
B. Land ...	Compensation ...	3,273	1,000	...	...	...	5	...
Injeram Canal.								
... Head sluices and dams ...	...	2,010	1,500	3,617	4,250	5,24	0-47	Side channels from 22nd mile nearly completed; also the sluice at their heads.
... Minor channels ...	...	4,670	2,500					
Amount for which detailed estimates are not yet sanctioned.								
		4,320	...	...	...	...	...	...
Samukota Canal.								
... Head sluices and dams ...	...	4,600	...	4,728	6,538	9,088	-43	Nos. 2, 3, 4 and 5 sluices almost completed. Nos. 1 and 6 commenced.
... Minor channels ...	...	8,610	3,000					
Amount for which detailed estimates are not yet sanctioned.								
		7,945	...	...	...	...	...	...
(4).—DRAINAGE AND PROTECTIVE WORKS.								
Thootiabaga Drain.								
B. Land ...	Main drain ...	12,866	3,000	...	...	...	...	...
L. Earthworks ...	Improvements ...	1,31,710	5,000	39	274	89,514	0-68	...
C. Works...		6,390	...	...	2	5,645	0-88	...

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Bicacole Drain.									
B. Land ...	...	Compensation ...	...	6 300	2 000	...	...	...	...
L. Earthworks ...	...	Improving main drain ...	...	60,720	5,000	...	...	...	...
Taki Drain.									
B. Land ...	...	Land for drain ...	...	18,000	3,000	...	...	...	...
L. Earthworks ...	...	Improving main drain ...	...	2,62,600	10,000	...	...	...	...
Mandapetta Canal.									
L. Earthwork ...	...	Channel to drain Somasweram lands ...	...	150	...	...	...	...	...
	...	Other works ...	...	1,52,745	...	...	...	...	...
Total Works, Eastern Delta Division ...				12,90,766					
Sanctions in anticipation of savings ...				4,546					
Net amount sanctioned by Government of India ...				12,86,220					
(WESTERN SECTION.)									
(1).—Head Works.									
K. Building ...	...	Rest-house at Bhimavaram ...	...	2,900	900	374	728	2,694	In progress, nearly finished.
	...	Do. at Attili ...	...	2,900	400	102	206	2,593	Nearly finished.
	...	Do. at Akid ...	...	2,900	2,100	153	153	850	About to commence. Materials will be collected.
(2).—MAIN CANALS AND BRANCHES.									
Main Canal.									
D. Regulators ...	...	Improvements to head sluice ...	...	19,500	6,000	300	1,085	8,205	0-42 Masonry work of 5 vents altered to suit new gearing shutters, and gearing for 10 vents made.
L. Earthworks ...	...	Improvements ...	...	49,000	5,000	120	8,037	26,145	53 From 2½ to 8 miles all work finished, from 0 to 2½ mile work about one-fourth done.

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.		
GODAVERY DELTA SYSTEM—(Continued).						
Elore Canal.						
L. Earthworks ... Improvements ...	31,580	10,000	1,908	3,516	19,647	62 From 15th to 20th mile work finished, and from 20 to 32½ and from 38½ to 40 miles nearly so.
Kakarapattu Canal.						
B. Land ... Compensation ...	2,000	500	...	...	...	
L. Earthworks ... Improvements ...	31,000	5,000	8	43	15,980	51 From 1½ miles to end all works finished off.
Narasapur Canal.						
B. Land ... Compensation ...	1,760	...	...	...	...	
L. Navigation Works. Lock at Pakol ...	22,570	10,000	...	...	...	Paravelly lock and weir.
Do. weir at do. ...	4,370	500	...	...	...	Itemupdy do. do., finished.
Do. at Marter ...	21,490	...	1,690	4,953	1,30,499	Mogaltur do. do., finished.
Other works ...	1,12,990	...	...	...	...	Koretum lock., Palcole lock arch turned, copings and parapets to be built. Do. weir finished.
Bank Canal.						
B. Land ... Compensation ...	2,500	2,000	102	102	102	0-04
L. Navigation Works. Lock (double) at Dodipatta	32,370	...	...	...	...	
Do. weir at do	3,500	3,000	1,585	2,399	41,918	0-56 Sidbantam and Codair locks built. Koder lock weir and surplus weir at 2nd mile finished.
Do. at Sidbantam	3,500	300	...	...	...	Sidbantam lock weir nearly so.
Other works ...	33,505	...	403	1,233	24,431	1-03 Finished from head to Dodipatta, a distance of about 22½ miles.
L. Earthworks ... Improvements ...	22,500	1,000	...	...	...	
Land ... Compensation ...	4,990	1,000	...	...	145	

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II. Escapes ...	4,910	1,500	...	9	16,467	0-28 Head lock finished.
Do. at 15½ miles ...	3,550	2,000	...	...	...	...
I. Navigation Works. Lock weir at 11½ miles ...	5,110	3,000	...	...	20,709	0-77 Finished except tail races to weir.
Other works ...	43,590	500	...	...	...	...
L. Earthworks ... Improvements ...	26,600	...	...	...	...	...
<i>Attili Canal.</i>						
B. Land ... Compensation ...	4,500	1,000	...	...	...	...
L. Earthworks ... Improvements ...	23,610	...	442	56	17,504	0-74 Finished.
O. Works ...	42,700	...	...	695	37,674	88 Godicherla and Gummupad locks and weirs, and Munda-paka surplus weir finished.
<i>Gostanadi and Velpur Canal.</i>						
B. Land ... Compensation ...	5,750	2,000	...	...	...	...
L. Navigation Works. Lock at Mamadur ...	15,000	5,000	1,907	2,971	39,595	58 Head lock and weir finished; weir at 14th mile. Varavasam channel head sluice and Mamadur weir built; Mamadur lock three-fourths finished.
Do. weir at do ...	3,700	300	...	...	...	...
Other works ...	49,380	...	...	...	49,850	0-77 From Gostanadi head for 27½ miles, all work finished.
L. Earthworks ... Improvements ...	64,000	5,000	690	4,046	...	...
B. Land ... Compensation ...	100	...	...	23	23	...
<i>(3).—DISTRIBUTARIES.</i>						
<i>Elore Canal.</i>						
B. Land ... Land for mid-level channel ...	8,440	1,000	...	...	953	...
Do. for low do. ...	2,760	500	...	...	...	...
26 Sluices ...	12,500	3,000	1,415	1,954	24,586	1-04 14 Irrigation sluices and 3 escapes finished, and 1 sluice and dam nearly so. Several irrigation channels finished.
Other masonry works and earth-works ...	10,830	...	...	...	...	...
Village sluices, mid-level channel. Drops do. ...	5,040	500	74	203	23,824	93 Head sluice built and removed, 6 bridges, 6 drops, 1 under tunnel 2 regulators, 1 escape, 7 sluices finished, and 2 nearly finished.
Other works ...	4,380	...	...	...	8,948	96 Finished, except 1 village sluice.
Village sluices, low-level channel. Other works ...	21,560	...	...	...	...	...
	2,520	400	23	140	...	...
	6,740	...	...	...	...	...

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

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).						
(2).—MAIN CHANNEL AND BRANCHES.						
Ryres' Canal.						
G. Bridges ...	12,440	...	597	2,577	7,129	Masonry 6
Two accommodation bridges on Ryres' canal ...	5,060	1,762	...	...	1,398	Materials partly collected.
Accommodation bridge across Pulleru near Marivada ...	3,710	405	...	...	2,567	In abeyance.
New head ..	2,74,480	16,575	3,067	3,975	2,36,741	Earthwork 85
Widening existing channel to Pulleru near Marivada ...	58,180	5,060	500	1,687	46,673	Do. 80
Total ...	3,56,870	23,742	4,164	8,239	2,94,508	
Gudicada Channel.						
D. Regulators ...	2,970	...	451	515	515	Masonry... .. 03
• Total ...	2,970	...	451	515	515	
Ryres' Branch Canal.						
G. Bridges ...	3,780	230	...	...	3,551	Masonry... .. 66
Three accommodation bridges ...	50,573	...	...	...	28,587	
Other works ...	54,353	230	...	...	32,138	
Total ...	4,14,193	23,972	4,615	8,754	3,08,161	
Total, Ryres' Canal Project ...	7,15,713	27,360	6,938	13,563	5,92,412	
Total, Eastern Sections ...						

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WESTERN SECTION.						
(2).—MAIN CANALS AND BRANCHES.						
Canimannur Canal Project ...	1,95,770	...	—102	—213	1,73,664	
Total, Western Section ...	1,95,770	...	—102	—213	1,73,664	
Total, Works ...	9,11,483	27,360	6,836	13,350	7,66,076	
Tools and Plant ...	...	7,850	...	...	26,282	
Establishment ...	...	13,691	3,606	6,911	3,16,666	
<i>Add for increase of Suspense Balance.</i>						
Stock purchase and sales ...	...	...	...	...	...	
Stock ...	...	...	...	...	...	
Miscellaneous advances ...	...	...	...	...	...	
London Invoices ...	...	...	...	...	...	
Do. Stores ...	...	...	...	...	...	
Total, Kistna Delta System ...	9,11,483	48,901	10,442	20,261	81,09,024	
PENNAIR ANICUT SYSTEM.						
(2).—MAIN CANALS AND BRANCHES.						
<i>Main Canal.</i>						
L. Earthworks ...	6,536	1,669	...	...	...	
Deepening ...	...	780	...	...	...	
Deepening channel from head to first drop ...	...	...	...	...	...	Deepened from head to Gundlapulem drop.
<i>Survapalli Channel.</i>	...	...	...	...	...	
Compensation ...	15,456	6,201	...	...	...	
Deepening the Survapalli new cut and improving old Ramareddy channel ...	66,590	3,020	...	...	...	

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

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12th January 1877. No. 101.*

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			During the Quarter.	During the Current Year.		
	RS.	RS.	RS.	RS.	RS.	
PENNAIR ANICUT SYSTEM—(Continued).						
N. Tanks and Reservoirs ...	96,574	2,000				
Improving Survapalli tank ...	...	515				
Irrigation sluice to Penubarti tank ...	...	...				
<i>Idagali Channel.</i>						
B. Land ...	2,575	575	5,291	15,295	4,81,463	
Compensation ...	...	...				
(3).—DISTRIBUTARIES. <i>Survapalli Channel.</i>						
C. Works ...	...	540				
L. Earthworks ...	2,600	500				
Fourteen distribution channels ...	...	1,700				
Golaknadi channel ...	...	...				
(4).—DRAINAGE AND PROTECTIVE WORKS.						
Pottampadu drainage channel.	4,500	3,000				
Improving drainage channel near aqueduct at Kanuparthipadu ...	...	500				
Other works ...	2,25,229	...				
Total, Works ...	4,20,060	21,000	5,291	15,295	4,81,463	
Tools and Plant ...	...	250			2,490	
Establishment ...	...	5,766	...	4,462	1,19,909	
Add for increase of Suspense Balance.						
Stock purchases and sales	...	...	...			
Stock	...	...	...	...	...	
			...	...	...	1,779

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	336	311	219	311	336
Miscellaneous Advances...	...	...	...	...	...
London Invoices...	...	...	...	...	...
London Stores ...	...	...	...	...	...
Total, PENNAIR ANICUT SYSTEM.	27,016	19,769	5,666	19,769	6,05,986
STRIVIGUNTUM ANICUT SYSTEM.					
(2).—MAIN CANALS AND BRANCHES.					
* <i>North Canal and Branches.</i>					
Cost of land ...	2,000				
Upur Odai escape weir ...	2,100				
Perunkulam surplus embankment ...	500	21,497	12,313		9,44,811
Pottakulam tank revetment ...	3,920				
Horampallam ...	98,200				
Other works ...	...				
Total, Works ...	36,820	21,497	12,313	21,497	9,44,811
Tools and Plant ...	6,105				1,317
Establishment ...	1,73,982		4,966	7,686	1,90,768
Capitalization of Land Revenue.	18,500				...
<i>Add for increase of Suspense Balances.</i>					
Stock purchases and sales	...				...
Stock ...	...				...
Miscellaneous Advances...	...				...
London Invoices...	...				...
London Stores ...	...				...
Total, STRIVIGUNTUM ANICUT SYSTEM.	11,38,087	29,183	17,279	29,183	11,36,896

*Proceedings of the Madras Government, Public Works Department,
12th January 1877. No. 101.*

CAPITAL EXTRAORDINARY.

*Abstract of the Total Grants and Expenditure for the Works in each District up to 30th
September 1876.*

System of Irrigation.	Amount of Grant for the Year.	Expenditure to 30th September 1876.
	RS.	RS.
Godavery Delta	2,10,900	89,829
Tools and Plant	41,300	...
Establishment	70,953	33,256
Add for increase of Suspense Balance ...	...	13,753
Total, Godavery Delta System ...	3,23,153	1,36,838
Kistna Delta	27,360	13,350
Tools and Plant	7,850	...
Establishment	13,691	6,911
Add for increase of Suspense Balances ...	...	...
Total, Kistna Delta System ...	48,901	20,261
Pennair Anicut	21,000	15,295
Tools and Plant	250	...
Establishment	5,766	4,462
Add for increase of Suspense Balances ...	...	12
Total, Pennair Anicut System...	27,016	19,769
Striviguntum Anicut	36,820	21,497
Tools and Plant	...	...
Establishment	10,110	7,686
Add for increase of Suspense Balance ...	...	...
Total, Striviguntum Anicut System...	46,930	29,183
Grand Total ..	4,46,000	2,06,051

*Proceedings of the Madras Government, Public Works Department,
12th January 1877. No. 101.*

No. 198. ORDER THEREON, 12th January 1877, No. 100.

IRRIGATION, No. 28.

Account.

ORDERED that the foregoing state-
ments be forwarded to the Government
of India.

(True Extract.)

(Signed) G. W. WALKER, Major-General, R.E.,
Secretary to Government.

No. 199.

(DOCKET, No. 101, dated 12th January 1877.)
COPY of the above forwarded to the Government of India.

(True Extract.)

(Signed) G. W. WALKER, Major-General, R.E.,
Secretary to Government.

Exd. E. C. Shunker.
Spare Copies

*Statement showing the Nature and Progress
under prosecution in connection with
carried out from Loan Funds for*

Districts.	Names of Projects or Systems.
Ganjam ...	Vamsadara river or Chicac Project.
Godavery ...	Godavery Delta— Central Delta Project Unnamalunka do. ...
Kistna ...	Kistna Delta System— Surveying and level Eastern Delta Project.
Do. ...	Western Delta Project
Madura ...	Perryaur Project ...

*Preliminary Surveys and Inquiries
Irrigation Projects intended to be
of 30th September 1876.*

Particulars of Progress of Investigation.

... with Chief Engineer for Irrigation.

*... and estimates for irrigation and
... with the Chief Engineer for Irriga-*

*... do. except Commamur canal and
... airu swamp, the preparation of plans
... timates of which are in rapid progress.
... overnment.*

*Sent to ...
5th January 1877*

21-12/76 21/12

*Apel Scott
Major R.E.
Chief Engineer for Irriga.
Chief Engineer for Irriga.*

Handwritten notes at the top of the page, possibly a date or reference number.

Handwritten notes below the top section.

Migration No.
Account.

Handwritten notes below the form.

Order thereon No 100
8/12 Jan 77

Ordered that the fore-
ing statements be for-
arded to the Government
India.

Amul

A.R. No 101 d/12 Jan 77

Copy of the above
forwarded to the
Government of India.

Amul

O.R. Gudmund.
Ch. R. for Mig
R. A. M. A.

Dated 25-1-77

Govt. 1877 Madras.
PUBLIC WORKS.

10. The D. Engineers
Concerned,
Dated
Issued
Recd.
Encl.
G. O. 12th Decr. 1877, No. 101

Nos. 190 & 198.

Progress of Agricultural
Works under execution from
the Extraordinary Grant for
the quarter ending 30 Sept.
Statement showing the
order for funds
to the Govt of India.

Forwarding statement showing
the Progress of Agricultural
Works under execution from
the Extraordinary Grant
quarter ending 30
1876.

P.W.D.
6 JAN 77
No. 90

From
The Chief Eng^r for the Govt.

Dated 5th January 1877.
8-13 1/2

Statement showing
the Progress of Agricultural Works
for quarter ending 30 September.

No 190 & 198.