

2223/24

*Proceedings of the Madras Government, Public Works Department,
2nd August 1875.*

Read the following papers:—

From the District Engineer, Ganjam, dated 1st April 1875.				
No. 8.				
No. 8A.	Do.	do.,	Godavery, „	31st May do.
No. 8B.	Do.	do.,	do., „	4th do. do.
No. 8C.	Do.	do.,	Kistna, „	6th do. do.
No. 8D.	Do.	do.,	do., „	6th April do.
No. 8E.	Do.	do.,	Nellore, „	19th May do.
No. 8F.	Do.	do.,	South Arcot, „	17th do. do.
No. 8G.	Do.	do.,	Tanjore, „	28th do. do.
No. 8H.	Do.	do.,	Tinnevely, „	6th do. do.
No. 8I.	Do.	do.,	do., „	31st March do.

Statement showing the progress of Agricultural Works under execution from the Extraordinary Grant for the quarter ended 31st March 1875.

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. Extension of irrigation from Eastern Delta.	RS. 14,00,200	RS. 1,49,300	RS. 63,218	RS. 1,44,300	RS. 6,06,589	1. <i>Head Sluice</i> .—Estimate Rupees 17,890. Screw gearing for four vents under construction.
						2. <i>Main Duct</i> .—Estimate Rupees 28,060. No work done since close of last working season.
						3. <i>Cocanada Canal</i> .—Estimate Rupees 1,86,800— Earthwork No work done since close of last working season except collection of gravel for cattle crossings.
						Masonry Improvements to neighbourhood of locks and coping to Madapand lock in progress during the quarter.
						Distribution Minor sluices at 7½ miles and below Chintapully lock in progress.
						4. <i>Mundapetta Canal</i> .—Estimate Rupees 74,100— Earthwork 1-00 Masonry 0-41 Lock completed at Thapeswarum; Distribution 0-32 Chodaverum sluice in progress.
						5. <i>Bank Canal</i> .—Estimate Rupees 2,33,200— Earthwork 0-14 First reach of canal up to Chappellah lock in hand. Earthwork in 10 and 11 miles partially done.

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Masonry	0-31	Lock completed except fixing gates and coping to side walls and rear wings.
Distribution	...	Weir commenced. Floor laid and piers and body walls 3 feet high.
Compensation	...	Postponed.
6. <i>Coringa Canal</i> .—Estimate Rupees 74,300—		
Earthwork	0-24	Earthwork from Alamur lock to head of Injeram canal, completed.
Masonry	0-58	Concrete for Alamur lock weir laid and flooring in progress.
Distribution	0-18	Sluices at Vellah, foundations and flooring laid and superstructure in progress.
7. <i>Injeram Canal</i> .—Estimate Rupees 28,050—		
Earthwork	...	Banking canal from 22nd mile to Terrapothuaverum completed, except levelling earthwork.
Masonry	0-63	Minor distribution arrangements for first 5 miles investigated, and sluices for some sanctioned by the District Engineer.
Distribution	...	
8. <i>Bicacole Drain</i> .—Estimate Rupees 65,000—		
Earthwork	...	Drain completed to its full project width.
Masonry	0-78	Masonry completed.
9. <i>Tooliabaga Drain</i> .—Estimate Rupees 1,38,100—		
Earthwork	...	Drain completed to its full project width, except at Velangy where a new cut is necessary; arrangements for taking up the land have been made.
Masonry	0-88	

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.	Successive Account showing the state to which the works have been advanced up to date.
			During the quarter.	During the current year.		
	RS.	RS.	RS.	RS.	RS.	
						10. <i>Take Main Drain</i> .—Estimate Rupees 2,66,300— Earthwork.—Drain to experimental width has been excavated from Kotipelly road bridge to a distance of 4 miles west and to 6 miles east to end of drain. Clearing cross bunds and embanking in lower reaches in progress. Masonry ... 0-87 Weir piers raised for turning the arches. Distribution Postponed.
						11. <i>Rest-houses</i> .—Estimate Rupees 10,000. 0-90. Kotipelly rest-house, thatching main room completed. Three courses of tiles to verandah, terrace roof laid. Jagendagery rest-house verandah terrace completed; floors of room plastered.
						12. <i>Compensation for lands</i> .—Estimate Rupees 56,800.
						13. <i>Samulcottah Canal</i> .—Estimate Rupees 1,31,200— Earthwork ... 1-16 Masonry 0-85 Distribution Foundation pits of three sluices excavated, and concrete and flooring being laid. 14. <i>Bemateram Escape</i> .—Estimate Rupees 4,200. 0-89. Railings to crest of escape being fixed.
						15. <i>Tools and Plant</i> .—Estimate Rupees 86,200 postponed.
Extension of irrigation from Western Delta.	14,10,000	1,61,000	63,790	1,64,962	6,62,183	1. <i>Head Sluice, Main Canal</i> .—Estimate Rupees 19,500. Not commenced.
						2. <i>Main Canals</i> .—Estimate Rupees 49,000— Earthwork ... 0-20 Between 2½ and 8 miles all work has been trimmed up and finished off.

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3. <i>Kakaraparru Canal</i> .—Estimate Rupees 33,000— Earthwork ... 0-15 From Gostanadi head to head of bank canal (a distance of 7½ miles) excavation of bed has been nearly finished. Masonry Under tunnel in connection with Gostanadi head weir in hand. Arch being turned.						
4. <i>Narsapur Canal</i> .—Estimate Rupees 2,09,600— Earthwork ... 1-00 Mogultoor lock channel excavated. Masonry ... 0-66 Peravelly lock and weir, Itempoody lock and weir, and Kavetem and Mogultoor locks finished, except some coping, weir brought up to level of springing of arch. Distribution ... 0-4 Five irrigation sluices, four irrigation dams, one under tunnel and six irrigation channels finished. Compensation for land. Rupees 1,175 have been spent.						
5. <i>Bank Canal</i> .—Estimate Rupees 1,07,900— Earthwork ... 0-82 New head has been finished and all work from head to Doddeputla (22 miles) nearly completed, tail race to surplus weir at 2nd mile completed. Masonry ... 0-22 Siddhantam lock concrete in foundations has been put, Koder lock rubble in foundation in progress, Koder weir built up to springing of arch. Distribution. Surplus weir at 2nd mile built up to springing of arch. Masonries above drains. 0-44						
6. <i>Venkiah and Weyairu</i> .—Estimate Rupees 11,960— Earthwork ... 0-12 Yellurpad channel finished. Masonry ... 0-27 Alteration of one escape finished, and one irrigation sluice finished.						

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.		
	RS.	RS.	RS.	RS.	RS.	
7. <i>Undi Canal</i> .—Estimate Rupees 1,10,700—						
Earthwork ...	...	0.77				All excavation of bed and banking of canal finished and head lock channel nearly so.
Masonry ...	...	0.25				Head lock channel finished except some coping and part of bridge arch.
Distribution ...	...	0.15				Two minor channels finished.
Compensation for land. Rupees 145 have been spent.						One do. nearly so.
8. <i>Attiti Canal</i> .—Estimate Rupees 86,000—						
Earthwork ...	...	0.66				All excavation of canal finished and all bankings nearly so. Portion of channel below surplus weir done.
Masonry ...	...	0.8				Godecherla lock and weir finished. Gunumpand lock and weir finished except some coping surplus weir 10½ miles built up to floor level.
Distribution ...	...	0.61				Balenghy head-sluice finished. Three under tunnels, nine irrigation sluices, three dams finished; several improvements to channels completed and in hand.
Compensation for land. Rupees 74 have been spent.						
9. <i>Gostanuddy and Velpur</i> .—Estimate Rupees 1,41,060—						
Earthwork ...	...	0.44				Work between 15 and 20½ miles finished off, and from 20½ to 25 miles nearly finished, so also is the

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Masonry ...	...	0.32				excavation of bed for 2 miles from Gostanuddy head. Gostanuddy head lock nearly finished, and weir finished except a little coping.
10. <i>Nakkala Drain</i> .—Estimate Rupees 13,200. Not commenced.						
11. <i>Gostanuddy outfall and sluice</i> .—Estimate Rupees 94,000—						
Earthwork ...	...	0.1				102,979 Cubic yards earthwork done.
Masonry ...	...	...				Not commenced.
12. <i>Yenamaduru Drain</i> .—Estimate Rupees 28,800—						
Earthwork ...	...	0.6				16,278 Cubic yards done, nearly all the work provided for in estimate finished.
Masonry ...	...	...				Not commenced.
13. <i>Other Drains</i> .—Estimate Rupees 28,200—						
A.— <i>Bundada and Rudroyacoli</i> .—						
Earthwork ...	...	0.7				131,218 Cubic yards done in improving Bundada drain, which is seven-eighths finished.
B.— <i>Casa Drain</i> .—						
Earthwork ...	...	0.6				48,476 Cubic yards done.
C.— <i>Buggeceram Drain</i> .—						
Earthwork ...	...	...				Finished.
D.— <i>Minor Drainages</i> .—						
Earthwork ...	...	0.3				23,474 Cubic yards done.
14. <i>Drain west of Nurapur Canal</i> .—Estimate Rupees 18,320—						
Earthwork ...	...	0.83				The whole of excavation according to sections finished, and banks at end have been trimmed and put in order.
Masonry ...	...	...				Finished.
Compensation for land. Rupees 678 have been spent.						

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.		
	RS.	RS.	RS.	RS.	RS.	
15. <i>Ellore Canal</i> .—Estimate Rupees 2,43,700—						
15A. <i>Main Canal</i> .—Estimate Rupees 55,000—						
Earthwork 0.33						From 15th to 20th miles and in 29th and 30th miles finished according to project sections. All works now done.
Masonry and earthwork } 0.76						Twelve irrigation sluices built and one in hand, three escapes finished, 149,703 cubic yards earthwork done.
Compensation for land. Rupees 35 have been spent.						
15B. <i>Mid Level Channel</i> .—Estimate Rupees 64,180—						
Earthwork 0.96						Of 15½ miles nearly 15 miles finished 23,037 cubic yards done on branch channels.
Masonry 0.89						One head-sluice built and pulled down. Six bridges, six drops, one under tunnel, two regulating bridges, one escape, seven village sluices finished.
Compensation for land. Rupees 953 have been spent.						
15C. <i>Low Level Channel</i> .—Estimate Rupees 19,290—						
Earthwork 0.94						Low level channel itself finished, and a distribution channel which is being charged to it nearly finished.
Masonry 0.85						Four drops, one escape, two bridges, four village sluices finished. Head-sluice and bridge, and drop at Mud-dapuram built and pulled down.

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15D.— <i>Pundikodu Drain</i> .—Estimate Rupees 59,530—						
Earthwork 0.89						3,90,451 Cubic yards earthwork done.
Masonry						Finished.
15E.— <i>Drain from 9½ miles</i> .—Estimate Rupees 24,000—						
Earthwork 0.66						165,460 Cubic yards done, work on drain from 9½ miles; mid-level channel finished except a little trimming.
Masonry						Finished.
15F.— <i>Drainage Diversion</i> .—Estimate Rupees 21,700—						
Earthwork 0.78						212,787 Cubic yards done and work finished.
Masonry 0.76						Finished, except China Undracole sluice.
16. <i>Rest-houses</i> .—Estimate Rs. 23,200. Four finished.						
17. <i>Restoring navigation with Weyniru</i> .—Estimate Rupees 72,500—						
Earthwork						Finished.
Masonry 0.9						Double lock finished except about 30 running feet of coping; head-sluice to mid and low level channels finished.
18. <i>Additional Surplus Weir near the head of the Ellore Canal</i> .—Estimate Rupees 14,000.						
Masonry						Completed.
19. <i>Tools and Plant</i> .—Estimate Rupees 1,05,360—						
Widening Pulleru from Panmaru to Coutaram Lock. —Estimate Rs. 17,000						
Earthwork			9,264	1,71,937		1,00
Widening Pulleru from Marrivada to Panmaru. —Estimate Rupees 31,250						
Earthwork						1,00
Sloping the banks of Masulipatam Canal from 1st to 4th mile. —Estimate Rupees 10,100.						
Earthwork						0.75
Enlarging Masulipatam Canal from 4th to 12½ mile. —Estimate Rs. 65,000						
Earthwork						0.94

Kistna.
Improving Masulipatam
Section of the Kistna
Delta.

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.	Success Account showing the state to which the works have been advanced to date.
			During the quarter.	During the current year.		
Widening the head of Malsipatam Canal.	Rs. 1,13,530	Rs. 31,327	Rs. 6,760	Rs. 26,327	Rs. 90,269	Enlarging Pulleru from Kunkipaud Lock to Marriada.—Estimate Rupees 27,900—
						Earthwork 0-99
						Constructing Regulating Sluice across Pulleru at Pamarru.—Estimate Rupees 7,000—
						Masonry 1-00
						Reconstructing a Bridge on Junction Canal near Pamarru.—Estimate Rupees 1,350—
						Masonry 1-00
						Constructing a Cullingah at Weyaru.—Estimate Rupees 5,600—
						Masonry 1-00
						Constructing Iron Punt.—Estimate Rupees 6,100—
						Iron 1-00
Enlarging the South Main Canal from Seetanagram to Dugirala.	Rs. 2,76,404	Rs. 29,254	Rs. 528	Rs. 29,254	Rs. 2,69,436	Minor Branches and Sluices.—Estimate Rupees 5,000—
						Masonry 0-04
						Compensation.—Estimate Rupees 5,000, Rupees 914 have been spent—
						Earthwork 0-98
						Masonry 0-50
						Revetment 0-23
						Roads 0-90
						Earthwork 0-98
						Masonry 1-00
						Head-sluice and Bridge.—Estimate Rupees 19,260—
Enlargement and improvement of Ryves' canal and its branches.	Rs. 4,14,193	Rs. 34,000	Rs. 10,434	Rs. 33,056	Rs. 2,90,998	Masonry 0-99
						Excavating Canal.—Estimate Rupees 2,79,880—
						Earthwork 0-75

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Enlarging and improving Ryves' Channel from the 2nd mile to Pulleru near Marriada.—Estimate Rupees 58,180—						Earthwork 0-76
Enlarging and improving Gudirada Branch of Ryves' Channel.—Estimate Rupees 26,800—						Earthwork 0-09
Constructing three accommodation bridges on Ryves' Branch Channel.—Estimate Rupees 3,780—						Masonry 0-66
Constructing Iron Punt.—Estimate Rupees 6,100—						Iron 0-75
Minor Branches and Sluices.—Estimate Rupees 5,000—						Masonry 0-20
Constructing two accommodation bridges on Ryves' Canal.—Estimate Rupees 5,660.—Materials partially collected.						Constructing an accommodation bridge across Pulleru near Marriada.—Estimate Rupees 3,710.—Materials partially collected.
Constructing two Cullingahs and Bridges on Gudirada Branch of Ryves' Canal.—Estimate Rupees 2,960.—Work stopped.						Compensation for Lands.—Rupees 545 have been spent.
Completed during the year.						
Extending Commamore Channel.	223	1,95,770	...	223	1,76,730	
Deduct value of materials sold to other works.	...	...	...	...	1,060	
Constructing a bridge across Commamore Channel at Kolakalore	...	...	...	...	1,75,670	
Deduct value of materials sold to other works.	...	...	...	...	8,030	
					3	Do. do.
					8,027	

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2nd August 1875.*

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2nd August 1875.*

[illegible]

Statement showing the progress of Agricultural Works under execution from the Extraordinary Grant for the quarter, &c. — (Concluded.)

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2nd August 1875.*

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.
Fixing bench mark stones along both banks of Coleroon, and incidental expenses connected with the Angunda-Curvery and Coleroon Survey.	1,205	472	RS.	RS.	RS.	RS.	Dam across the Pandaryaur and Vellayaur.—Estimate Rupees 57,610.	
							Pandavyaur Dam.	
							Brick in chunam 1-00	
							Cut-stone do. 1-00	
							Shutters do. 1-00	
							Earthwork 1-00	
							Miscellaneous 1-00	
								1-00
								1-00
								1-00
Anicut across the Vellaur river at Pelandurai.	2,00,555	20,000	RS.	RS.	RS.	RS.	Vellayaur Dam.	
							Brick in chunam 1-00	
							Cut-stone do. 1-00	
							Shutters 1-00	
							Earthwork 0-95	
							Miscellaneous 1-00	
								0-97
								Work completed.
South Arcot.	2,00,555	20,000	RS.	RS.	RS.	RS.		
							Expenditure 1,106	

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Three supply sluices on Main Channel at stations 80th, 111th, and 115th; and five at the heads of Branch Channels, A, B, E, G and L	Do.
Three minor distribution sluices on Main Channel at stations 91, 95, and 102, and twenty-one on Branch Channels B, E, G, H and L	Do.
One masonry fall on Main Channel at station 89	Do.
One division sluice on Branch Channel F	Do.
One culvert on Main Channel at station 47	Do.
One masonry fall do. at do. 54	0-30
One supply sluice do. at do. 69	0-88
One culvert do. at do. 29	0-97
One division sluice do. at do. 122	0-47
One calingulah at do. 69	0-72
Three minor distribution sluices on Branch Channel A	Materials collected.
One calingulah on Branch Channel G	Do.
One do. do.	Completed.
One minor distribution on Main Channel at station 61	Not commenced.
One culvert do. do. at do. 59	Do.
<i>Anicut and Head works.—Estimate Rupees 2,07,506.</i>	
Earthwork	8,87,266
Masonry	51,871
Miscellaneous	38,772
	52,093
<i>Channels and Works south side of river.—Estimate Rupees 1,97,679.</i>	
Earthwork	Completed.
Masonry	0-99
Miscellaneous	0-99
<i>Channels and Works north side of river.—Estimate Rupees 3,73,021.</i>	
Earthwork	Completed.
Masonry	0-97
Miscellaneous	0-35
Small Channels.—Estimate Rupees 29,000	0-99
Do. Sluices.—Do. do. 18,600	0-86
General Sundries.—Do. do. 39,777	0-99
Compensation.—Do. do. 40,000	0-91

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2nd August 1875.*

Abstract of the Total Grants and Expenditure for the Works in each District.

Districts.	Amount of grants for the year.	Expenditure to 31st March 1875.
	RS.	RS.
Godavery	3,10,300	3,09,262
Kistna	1,13,872	1,06,472
Nellore	22,774	21,515
Tanjore	7,629	4,954
Do. under Local Funds ...	1,868	5,923
South Arcot	20,000	20,000
Tinnevely	52,093	51,871
Total ...	5,28,536	5,19,997

Statement showing the Nature and Progress of all Preliminary Surveys and Inquiries under prosecution in connection with new Irrigation Projects intended to be carried out from Loan Funds for quarter ended 31st March 1875.

Districts.	Name of Project.	Particulars of Progress of Investigation.
Ganjam	Rooshkoolia Project ...	Papers with Chief Engineer for Irrigation.
	Vamasadara river or Chica-	
	cole project.	
Godavery	Central Delta Project ...	Do. do. do.
	Unnamalunka do. ...	
Kistna	Surveying and levelling operations.	Plans and estimates of irrigation and drainage of Kykalur section with Chief Engineer for Irrigation.
Do.	Eastern Delta Project ...	Plans and estimates of 5th division of Eastern Delta are with the Chief Engineer for Irrigation.
Madura	Perryaur Project...	The out-door work for other division of Eastern Delta Project is nearly done ; plans and estimates, &c., are under preparation.
		With Government;

No. 9.

ORDER THEREON, 2nd August 1875, No. 2,223.

IRRIGATION, No. 1.
Account.

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

(True Extract.)

(Signed) J. O. HASTED, Major, R.E.,
Offg. Joint Secretary to Government.

*Proceedings of the Madras Government, Public Works Department,
2nd August 1875.*

No. 10.

(DOCKET No. 2,224, dated 2nd August 1875.)

COPY of the above forwarded to the Government of India.

(True Extract.)

(Signed) J. O. HASTED, Major, R.E.,
Offg. Joint Secretary to Government.

Ed. L. C. Shunker.
Spare Copies

I Read the following papers

N^o From the District Engineer Bangalore dated 1st April 1875
 • A^o _____ B^o _____ Godavery. - 31st Aug - do -
 • A^o _____ B^o _____ (B^o) - 11 - do - do -
 • A^o _____ B^o _____ Krishna - 6 - do - do -
 • A^o _____ B^o _____ A^o - 6 April - do -
 • A^o _____ B^o _____ Nellore - 17 May - do -
 • A^o _____ B^o _____ South Arcot - 17 - do - do -
 • A^o _____ B^o _____ Tanjore - 28 - do - do -
 • A^o _____ B^o _____ Tirunelveli - 6 - do - do -
 • A^o _____ B^o _____ A^o - 31st March - do -

P. W. 1895 at
No: 5056A.

The Chief Engr.
for design.

Dated
Recd. L. Aug. 1895.

No: -

Statement showing the
progress of Agricultural
works under execution
from the Extraordinary
Grant for the yr. ended
31 March 1895.

No. 2223. 2-4-75.

No 8-210

Prad
No 2223
P.W. of the Madras Port
Under date the 2 Aug 75.

Irrigation No. 11
Account.

Th. Ganjam ✓ 6 sc
Godavari ✓ - 8
Kistna ✓ - 9
Tollat ✓ - 5
S. arach ✓ - 5
Tanjore ✓ - 6
Tumavally ✓ - 4
Chieft. of 4 crs. ✓

SC drop
19-8-75

Packet No 2224 of 2 Aug 75.

Copy of the above
forwarded to the Govt
of India

10 SC drop
19-8-75

Plot. of 1875 Madras.
PUBLIC WORKS.

To.

The St. Mgrs.

Concerned.

Dated

Issued

Recd.

Govt. of India.

Encl.

G. O., 21st Aug 1875, No. 2123

22/8/75

Nos. 8 - 9.

10

Forwarding statement
showing the progress of
agricultural works under execution
from the grant for the
quarters ended 31 March
1875.

Statement showing the
progress of Agricultural
works under execution from
the Extraordinary grant for
the quarters ended 31 March
1875. - Ordered that the
— be forwarded to the
Govt of India.