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MADRAS RECORD OFFICE

Government of Madras

Public works

DEPARTMENT

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Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
1st September 1873.*

Read the following papers:—

No. 1.	From the	District Engineer, Ganjam, dated	3rd July 1873, No. 2.
No. 2.	From	do. do. Vizagapatam, „	19th April „
No. 3.	From	do. do. Godavery, „	5th May „
No. 4.	From	do. do. Kistna, „	26th „ „ „ 24.
No. 5.	From	do. do. Nellore, „	13th „ „ „ 22.
No. 6.	From	do. do. Bellary, „	28th April „
No. 7.	From	do. do. Cuddapah, „	22nd „ „
No. 8.	From	do. do. Kurnool, „	28th „ „
No. 9.	From	do. do. Presidency, „	26th „ „
No. 10.	From	do. do. Chingleput, „	8th July „ „ 884.
No. 11.	From	do. do. North Arcot, „	29th April „ „ 360.
No. 12.	From	do. do. South Arcot, „	5th May „
No. 13.	From	do. do. Salem, „	30th April „ „ 21.
No. 14.	From	do. do. Tanjore, „	28th „ „
No. 15.	From	do. do. Trichinopoly, „	30th „ „
No. 16.	From	do. do. Coimbatore, „	27th June „
No. 17.	From	do. do. Madura, „	23rd May „
No. 18.	From	do. do. Tinnevely, „	28th April „

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Extension of Irrigation from Western Delta.	13,04,640	1,75,000	57,631	1,19,844	3,45,473	<p><i>Masonry Works.</i></p> <p><i>Escape over Bheemavarum Aqueduct walls.</i>—Completed. — Do.</p> <p><i>Bickavole No. I Drop.</i> — Do.</p> <p><i>Do. " II "</i> — Do.</p> <p>NURSAPUR CANAL.</p> <p><i>Masonry Works.</i></p> <p><i>Lock at Peravally.</i>—Completed and opened for traffic.</p> <p><i>Do. at Kavelom.</i>—Built up 4 feet above floor.</p> <p><i>Moguttur Extension.</i>—Very great trouble was experienced in deepening, etc., from 39½ to 43½ miles. Extensive baling was found necessary which was not provided for in the estimate. The entirely new portion has been about three-fourths done. It runs through pure sand, and the slopes though, trimmed to 3 to 1, were in places finished before October. Much channelled and cut up by the very heavy rains of that month.</p> <p>JUNCTION CANAL.</p> <p><i>Masonry Works.</i></p> <p><i>Double Lock at Maddurpuram.</i>—Finished all but coping and bridge over tail bay.</p> <p><i>Low-level channel head-sluice.</i>—Built.</p> <p><i>Weir at Godicheria.</i> — Do.</p> <p><i>Lock at do.</i> —4½ feet above floor level.</p> <p><i>Earth-works.</i></p> <p><i>Canal earth-works.</i>—Widening and deepening finished from 4½ to 13 miles, except about 10,000 cubic yards, for which land has to be obtained.</p> <p>UNDI CANAL.</p> <p><i>Earth-work.</i></p> <p><i>Canal work.</i>—5 miles finished, thence to 12 miles in progress.</p> <p><i>Masonry Works.</i></p> <p><i>Large Weir at Nundamur.</i>—Delayed for want of stone ; foundations completed.</p> <p><i>Drain west of Nursapur Canal.</i>—Earth-work finished and one bridge built.</p>
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Statement showing the progress of Agricultural Works under execution from the Extraordinary Grant for the Quarter, etc.—(Continued.)

Name of Work.	Amount of Estimate.	Current year's Grant.	EXPENDITURE.		Total Expenditure to date.	Succinct Account showing the state to which the works have been advanced up to date.
			During the Quarter.	During the current year.		
<i>Kistna.</i> Enlargement, extension, and improvement of the channels of the Masulipatam Section of the Kistna Delta.	1,83,100	7,000	1,910	6,862	1,52,344	<i>Masonry Works.</i> —(Concluded.) <i>Drainage diversion.</i> —Earth-work three-fourths finished. <i>Drain from 9½ miles Mid-level Channel.</i> —Earth-work three-fourths done and two drops built. <i>Kaza Drain.</i> —In progress. <i>Buggeswararam Drain.</i> —Has made considerable progress. <i>Bondada Drain.</i> —2,900 yards in length completed. <i>Mid-level Channel.</i> —Bridge and escape at 9½ miles built. The widening of the Main Canal between Bewada and Kankipad Lock is in a fair state of progress; from 1st to 4th mile sloping down the bank on north-side, and 1 mile on south completed to full width and depth, and the 2nd mile partly done. From 7th to 12½ miles inclusive very nearly completed. Pullairu between Weyoor and Kankipad Lock completed to full width and depth, except 70 running yards near Chalevandrapallem. Between Weyoor and Marrivada south-side very nearly completed to full width and depth, north-side 2 yards in depth finished, except 50 yards in length near Marrivada. From Marrivada to Pamarru quite completed, but 1st mile has still to be done, and it is in fair progress. From Pamarru to Cantaram Lock completed, also Weyoor Calingulah and Pamarru Regulating Bridge across Junction Canal at Pamarru. Four iron punts built. Quay-wall to a length of 600 running feet with flooring behind it and nine cut-stone steps to full height completed; 350 running feet of masonry wall to 8½ feet high above bed completed; and 50 feet of wall raised up to foundation level. Road from ancient bridge towards Ellore Bridge finished with four masonry tunnels. 492 running feet of road from Junction of Bunder Road to Ellore Road completed with one tunnel. Earth-work over platform, to a length of 1,200 running, feet and revetment 180 square yards completed, the rest in progress.
Widening the head of Masulipatam Canal for 1000 yards from the anicut to the head of Ellore Branch.	1,13,530	15,000	8,899	14,608	47,222	

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Sloping down the bank of the Main Canal from the southern flank of the anicut and enlarging the head of the Main Canal from Seetanagram to Doogeralala.	2,76,404	7,000	539	4,857	2,24,226	The channel has been widened from 1st to 5th and in 7th miles to an average depth of 4 feet below ordinary water-mark. All masonry works completed.
Enlargement and improvement of Ryves' Channel and its branches, and construction of the masonry works.	4,14,193	54,760	25,049	54,504	2,18,060	The new Head-sluice completed, with the exception of plastering to soffit of arches, and fitting screw gearing already received from Madras. New cut almost completed throughout to 2nd yard depth and to a width of 100 feet, 3rd yard in first 2½ miles completed, from 3rd to 8th miles almost complete, 4th yard in first 1½ mile finished, compensation (Rupees 1,500) was paid for the removal of the Nuzid Zemindar's Bungalow near Head-sluice. Widening 1st and 2nd yards in depth almost completed to a bottom width of 30 yards from Comaigunta Calingulah to Marrivada, 3rd yard depth is in progress nearly all the length. The Accommodation Bridge on Ryves' Canal and two Calingulahs on Gndivada Branch completed. Certain minor sluices are to be commenced shortly. Two iron punts are under construction. The Main Canal completed and several regulating works constructed. Work has been stopped till it is known in what manner the channel should be completed. It is included in the Western Delta Improvement Project, the plans and estimates of which are with the Chief Engineer for Irrigation. The small expenditure on this work has been for apron for the rapid of Duggirala, and for 22 running yards of channel deepened.
<i>Nellore.</i> Improvements to the Survapully Channel.	4,20,060	35,000	648	18,384	3,53,716	Most of the work completed, with the exception of revetment to Survapully new cut and Survapully Reservoir.
<i>South Arcot.</i> Anicut across the Vellaur River at Pelandorai.	1,98,235	59,721	36,245	58,561	1,30,555	ANICUT. <i>Masonry Works.</i> Brick-in-chunam 0.58 Concrete 0.50 Cut-stone 0.28 Head-sluice.—Completed, with the exception of coping and parapet walls.

Statement showing the Progress of Agricultural Works under execution from the Extraordinary Grant for the Quarter, etc.—(Concluded.)

Name of Work.	Amount of Estimate.	Current year's Grant.	EXPENDITURE.		Total Expenditure to date.	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.	
Tanjore. Regulators for the principal branches of the Venna River.	1,97,240	56,000	12,018	44,771	1,74,732	<p><i>Earth-works.</i></p> <p>Main Channel 0-70</p> <p>Branch Channels—Six completed and three in progress. Improvements to the Polimcotta Tank—Completed.</p> <p><i>Masonry.</i></p> <p>Two Culverts each of two arches of 12 feet span on the 9th and 10th miles completed, with the exception of plastering, etc.</p> <p>Ten Minor Distribution Sluices. (Five in Branch Channel G, one in H, and four in L.) completed.</p> <p>Six Minor Distribution Sluices (in Branch Channel F.), three Irrigation sluices at the head of Branch Channels (K. G. and L.), one supply sluice to Nedimjeri Tank, and one division sluice (in the Branch Channel F.) in progress.</p> <p>Materials being prepared for the rest.</p> <p>DAM ACROSS THE VENNA AT THE VETTAUR HEAD.</p> <p><i>Venna Sluices.</i></p> <p>Foundation, floors, apron, and rough apron all completed, and twenty-nine piers built up to an average height of 7½ feet, one arch turned, and centring fixed for four other arches. Wings and abutments completed up to springing of arches, or to a height of 11½ feet. Holding down plates and rods fixed.</p> <p><i>Vettaur Sluices.</i></p> <p>Foundation, floors, apron, and rough apron all completed. Sixteen piers built to an average height of 5 feet. Wings and abutments completed up to springing line, or to a height of 11½ feet. Holding down plates and rods fixed.—Hose and plank-shed completed.</p> <p>DAM ACROSS THE PANANAU AND CORVAUR HEADS.</p> <p><i>Venna.</i></p> <p>North and south abutments raised to 9 feet, and piers to 6 feet.</p>

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Fixing bench-mark stones along both banks of Coleroon, and incidental expenses connected with the Augunda, Cauvery, and Coleroon Survey. <i>Tinnevely.</i> Streevignuntum Anicut ...	1,000	1,000	526	...	526	<p><i>Coryaur and Pananiaur.</i></p> <p>North and south abutments raised to 9 feet. Brick and granite work to 9 feet level throughout. The first courses of the piers were laid. Work in progress.</p> <p><i>Dam across the Pandavaiur Head.</i></p> <p>Eight large arches completed. Wings, head and face walls raised to level 102. Three small arches completed. Fourth arch in progress. Cornice work below east parapet wall in progress.</p> <p><i>Dam across the Vellyaur Head.</i></p> <p>Left abutment raised with cut-stone 5½ feet, next small pier 3 feet long, pier 7½ feet, small pier 2 feet long, pier 6½ feet, small pier 1 foot, abutment 6½ feet.</p> <p>The short expenditure on the work in 1872-73 is due chiefly to the unexpected freshes in February last.</p> <p>The allotment given for the work was not fully utilized owing to a fresh which came down the river.</p>
	8,31,600	1,51,000	35,812	1,50,567	8,08,130	<p>Anicut and head works, Estimate Completed.</p> <p>Rupees 2,00,600. { Masonry 92</p> <p>{ Miscellaneous 84</p>
			Deduct advance.	60		<p>Channels and works south side Completed.</p> <p>of river, Estimate Rs. 2,02,265 { Masonry 90</p> <p>{ Miscellaneous 94</p>
				1,50,507		<p>Channels and works, north side Completed.</p> <p>of river, Estimate Rs. 3,02,337. { Masonry 77</p> <p>{ Miscellaneous 93</p> <p>Small channels, Estimate Rupees {</p> <p>10,000. 61</p> <p>Small sluices, Estimate Rs. 18,600 48</p> <p>General Sundries, estimate Rupees 40,925. 97</p> <p>Compensation, Estimate Rs. 40,000... .. 84</p>

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1st September 1873.*

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 1873.

* District.	Name of Project.	Particulars of Progress of investigation.
Ganjam	Rooshkoolia Project	Papers with Chief Engineer for Irrigation. Revenue details under consideration of Revenue Board.
Do.	Vamsadara River or Chicacole Project.	Papers with Chief Engineer for Irrigation.
Go-lavery	Central Delta Project	Ready, will be soon sent in by District Engineer.
Do.	Unnamalunka do.	Nearly ready.
Kistna	Eastern Delta	Plans and estimates for Irrigation and drainage of the Kykalur section completed. The rest are in rapid progress; the remaining field work of other section in progress, and will be completed shortly.
Do.	Western Delta.	Plans and estimates with Chief Engineer for Irrigation.
Tinnevelly	Numbiar River Irrigation	Surveys and levels completed, but work not yet plotted.
Do.	The improvement and extension of irrigation under the Tambrapoorney and its tributaries.	Levels and sections of the Tambrapoorney Channels, except Nuthooney Channel, completed and plotted.
Madura	Perryaur Project	Has been submitted to Government.

No. 19. ORDER THEREON 1st September 1873, No. 2,174.

IRRIGATION, No. 1.

ORDERED that the above statement, be tabulated and forwarded to the Government of India.

(True Extract.)

(Signed) J. MULLINS, Lieut.-Colonel, R.E.,

Joint-Secretary to Government.

No. 20. (DOCKET No. 2,175, dated 1st September 1873.)

COPY of the above forwarded to the Government of India.

(True Extract.)

Lieut.-Colonel, R.E.,

Joint Secretary to Government.

Ex-l. W. H. French.

25 Spare Copies. will be sent

Read the following papers

*From the District Engineer Ganjam
(Here enter W^o 2 dated 3rd July 1873)*

*From the District Engineer Vizagapatam
(Here enter W^o — dated 19th April 1873)*

*From the District Engineer Godavery.
(Here enter W^o — dated 5th May 1873)*

*From the District Engineer Kistna
(Here enter W^o 24 dated 26th May 1873)*

*From the District Engineer Nellore
(Here enter W^o 22 dated 13th May 1873)*

*From the District Engineer Bellary
(Here enter W^o — dated 28th April 1873)*

*From the District Engineer Cuddapah
(Here enter W^o — dated 22nd April 1873)*

*From the District Engineer Hurnool
(Here enter W^o — dated 28th April 1873)*

*From the District Engineer Presidency
(Here enter W^o — dated 26th April 1873)*

*From the District Engineer Chingleput
(Here enter W^o 884 dated 8th July 1873)*

*From the District Engineer North Arcot
(Here enter W^o 360 dated 29th April 1873)*

From

From the District Engineer South Arcot
(Here enter No. — dated 5th May 1873)

From the District Engineer Salem
(Here enter No. 21 dated 30th April 1873)

From the District Engineer Tanjore
(Here enter No. — dated 28th April 73)

From the District Engineer Trichinopoly
(Here enter No. — dated 30 April 73)

From the District Engineer Coimbatore
(Here enter No. — dated 27th June 73)

From the District Engineer Madura
(Here enter No. — dated 23 May 1873)

From the District Engineer Tinnevely
(Here enter No. — dated 28th April 1873)

No 2174

Ordered that the
above statements be
tabulated and forwarded
to the Government of India.

by 19/5/73

2175

Copy of the above
forwarded to the
Government of India.

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Signed C. J. J. C. J.
dated 8/9/73

+ Sent separately

Govt. of Madras.
PUBLIC WORKS.

To The Secretary to the
Govt. India

Dated

Recd.

Encl.

G. O. 1 Sept 1973, No 214 -

2175

No 1 @ 1970

Sketch

Forwarding copy of
orders passed on
Statements showing the
progress of works under
execution from the Ex-
traordinary grant and
the nature & progress
of surveys under prosecution
in connection with the new
Survey Projects for the
District of 31st March 1970

Agricultural Works

Forwarding copy of
orders in state
showing the progress
of works under execution
from the Extraordinary grant
the nature and progress
of surveys under prosecution
in connection with the new
Survey Projects for the
District of 31st March 1970