Archives I—10,000—6-10-76.

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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Rev. DEPARTMENT

G.O. No. / B.P. No.	489	Press. / Mis.
Dated	6.2.1879	197 .

Not to be folded or roughly handled

FIRST CIRCLE.

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879.

Division.	Classification.	Names of Works.	Amount of Estimate.	Proposed Expenditure for January, February, and March 1879.
1	2	3	5	4
		GODAVARI DISTRICT.		
		CAPITAL PRODUCTIVE PUBLIC WORKS.	Rs.	Rs.
		GODAVARI DELTA SYSTEM.		
		EASTERN DELTA.		
		(2) *Main Canals and Branches.*		
Eastern Delta, Godavari.	L. Navigation Works.	Bank Canal— Lock at 30th mile	20,600	2,800
		(3) *Distributaries.*		
	L. Earthworks.	Cocanada Canal— Minor channels	8,000	150
		(4) *Drainage and Protective Works.*		
	L. Earthworks.	Thooliabhaga drain— Improvements	1,31,710	180
	Do. ...	Bicavole drain— Improvements	60,730	180
	Do. ...	Takee drain— Improvements	2,55,600	430
		CENTRAL DELTA.		
		(2) *Main Canals and Branches.*		
Central Delta, Godavari.	D. Regulators.	Main Canal— New head sluice at Bobberlanka.	...	18,760
		WESTERN DELTA.		
		(2) *Main Canals and Branches.*		
Western Delta, Godavari.	F. Other Cross Drainage Works.	Narsapur Canal— Saripalli under tunnel	7,000	120
	I. Navigation Works.	Lock at Marter	19,110	75
	H. Escapes ...	Bank Canal— Mukkamala calingulah, alteration.	600	365
	I. Navigation Works.	Lock (tidal) at Lachimipalem ...	30,700	1,500
	L. Earthworks.	Improvements	25,800	75
	F. River and Hill Torrent Works.	Ellore Canal— Under tunnel at 20th mile ...	10,300	250
	I. Navigation Works.	Gostanadi and Velpur Canal— Lock at Mamudur	15,000	50
		(3) *Distributaries.*		
	C. Works ...	Narsapur Canal— Head sluice and dividing dams.	20,471	150
	Do. ...	Bank Canal— Head sluice and dividing dams.	5,227	50

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879—*continued.*

Division.	Classification.	Names of Works.	Amount of Estimate.	Proposed Expenditure for January, February, and March 1879.
1	2	3	4	5
		WESTERN DELTA—*continued.*		
		(3) *Distributaries*—continued.	Rs.	Rs.
		Venkiah and Weyyeru Canal—		
Western Delta, Godavari—*contd.*	C. Works ...	Head sluice and dividing dams.	10,110	350
		Undi Canal—		
	Do. ...	Head sluice and dividing dams.	8,200	40
		Attili Canal—		
	Do. ...	Head sluice and dividing dams.	10,338	75
		Kaza drain—		
	Do. ...	Outfall sluice	6,325	1,350
		(4) *Drainage and Protective Works.*		
		Mogultur drain—		
	L. Earthworks.	Improvements	21,069	50
		ORDINARY PUBLIC WORKS.		
		GODAVARI DELTA SYSTEM.		
		(1) *Head Works.*		
Eastern Delta, Godavari.	C. Works ...	Improvements to under sluices at Dowlaishvaram.	8,650	1,575
		ORDINARY PRODUCTIVE PUBLIC WORKS.		
		GODAVARI DELTA SYSTEM.		
		Expense of Working and Maintenance.		
Do. ...	Extensions and Improvements.	Eastern Delta		1,350
	Do. ...	Central do.		1,250
Western Delta.	Do. ...	Western do.		180
Eastern do.	Maintenance and Repairs.	Eastern do.		13,000
	Do. ...	Central do.		5,000
Western do.	Do. ...	Western do.		3,245
		AGRICULTURAL AND IRRIGATION WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
Rajahmundry.	Irrigation ...	Improvements to Byana weir ...	16,580	375
Do. ...	Do. ...	Minor new works	...	350
Do. ...	Do. ...	Repairs	...	4,550
Eastern Delta, Godavari.	River Conservancy.	Do.	...	5,745
Western do.	Do. ...	Do.	...	1,500
Rajahmundry.	Do. ...	Do.	...	450
		General tools and plant at 2½ per cent.	...	1,640
		Special Plant.		
Eastern Delta, Godavari.	Revenue ...	Floating plant, new supplies ...	...	2,500
Do. ...	Do. ...	Do. repairs	...	9,500
Western Delta, do.	Do. ...	Carrying steam pumps and engines.	...	375
		Total, Godavari District ...	...	79,585

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879—*continued.*

Division.	Classification.	Names of Works.	Amount of Estimate.	Proposed Expenditure for January, February, and March 1879.
1	2	3	4	5
		KISTNA DISTRICT.		
		CAPITAL PRODUCTIVE PUBLIC WORKS.	Rs.	Rs.
		KISTNA DELTA SYSTEM.		
		EASTERN DELTA.		
		(1) *Head Works.*		
Eastern Delta, Kistna.	C. Works ...	Raising head works	440	65
		(2) *Main Canals and Branches.*		
		Ryves' Canal—		
	L. Earthworks.	New cut	2,76,880	28
	Do. ...	Widening canal	58,180	19
		(3) *Distributaries.*		
		Pulleru Canal—		
	C. Works ...	Kapeleswarapuram channel head sluice.	430	46
	L. Earthworks.	Kapeleswarapuram channel ...	2,860	51
		WESTERN DELTA.		
		(2) *Main Canals and Branches.*		
		Commanur Canal—		
Western Delta.	I. Navigation Works.	Tidal lock	35,370	9,000
	L. Earthworks.	Extending canal	68,178	5,704
	F. River and Hill Torrent Works.	Apperu aqueduct	11,120	131
	Do. ...	Emmeleru do.	20,130	305
	Do. ...	Apperu inlet	380	380
	Do. ...	Do. outlet	880	880
	I. Navigation Works.	Lock at Santaravur	36,550	4,362
		(3) *Distributaries.*		
		Commanur Canal—		
		Moorcondapad tank channel—		
	B. Land ...	Compensation	300	300
	C. Works ...	Head sluice	1,200	499
	L. Earthworks.	Excavating channel	2,010	616
		ORDINARY PUBLIC WORKS.		
		KISTNA DELTA SYSTEM.		
		EASTERN DELTA.		
		(2) *Main Canals and Branches.*		
		Masulipatam Canal—		
Eastern Delta, Kistna.	I. Navigation Works.	Lock sheds	1,510	110
	F. Other Cross Drainage Works.	Under tunnel at Inempady ...	22,100	128

Statement showing the Emount available for Axpenditure on Irrigation Works during January, February, and March 1879—*continued.*

Division.	Classification.	Names of Works.	Amount of Estimate.	Proposed Expenditure for January, February, and March 1879.
1	2	3	4	5
		KISTNA DELTA SYSTEM—*contd.*		
		WESTERN DELTA.	RS.	RS.
Western Delta, Kistna.	F. River and Hill Torrent Works.	Commamur Canal— Firingidibba or Emeleru outlet, 52nd mile.	575	450
		(3) *Distributaries.*		
	C. Works ...	Nizampatam Canal— East side channel— Minor sluices	2,000	288
		ORDINARY PRODUCTIVE PUBLIC WORKS.		
		KISTNA DELTA SYSTEM.		
		Expenses of Working and Maintenance.		
Eastern Delta, Kistna.	Extensions and Improvements	Eastern Delta	...	375
Western do. ...	Do. ...	Western do.	...	720
Eastern do. ...	Maintenance and Repairs.	Eastern do.	...	7,000
Western do. ...	Do. ...	Western do.	...	6,454
		AGRICULTURAL AND IRRIGATION WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
Guntoor ...	Irrigation ...	Minor new works	...	410
Western Delta, Kistna.	River Conservancy.	Do.	...	36
Guntoor ...	Do. ...	Do.	...	88
Eastern Delta.	Do. ...	Do.	...	310
Do. ...	Drainages ...	Do.	...	690
Guntoor ...	Do. ...	Do.	...	302
Eastern Delta.	Irrigation. ...	Repairs	...	1,000
Guntoor ...	Do. ...	Do.	...	1,750
Western Delta.	Do. ...	Do.	...	164
Eastern Delta, Kistna.	River Conservancy.	Do.	...	500
Guntoor ...	Do. ...	Do.	...	500
Eastern Delta.	River Embankments.	Do.	...	175
Guntoor ...	Do. ...	Do.	...	500
Western Delta.	Do. ...	Do.	...	600
Guntoor ...	Drainages ...	Do.	...	150
Do. ...	Miscellaneous.	Do.	...	300
		General Tools and Plant at 2½ per cent.	...	1,120
		Special Plant.		
Eastern Delta, Kistna.	Revenue ...	Floating plant repairs	...	2,000
		Total, Kistna District ...	...	48,324
		Total, First Circle ...	...	1,27,909

SECOND CIRCLE.

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879.

Division.	Classification.	Names of Works.	Amount of Estimate.	Amount available for Expenditure.
		NELLORE DISTRICT.	RS.	RS.
		ORDINARY PRODUCTIVE PUBLIC WORKS.		
		PENNER ANICUT SYSTEM.		
		Expenses for working and maintenance.		
Nellore ...	Revenue ...	Maintenance and repairs	...	3,000
		AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
Do. ...	River embankments.	Right embankment from anicut to the sea.	61,450	5,239
Do. ...	Irrigation ...	Minor new works	...	360
Ongole ...	Do. ...	Do. do.	...	400
Nellore ...	Do. ...	Repairs	...	2,300
Ongole ...	Do. ...	Do.	...	2,500
Nellore ...	River Conservancy.	Do.	...	71
Do. ...	River embankment.	Do.	...	252
		Total ...	...	14,122
		General tools and plant at 2½ per cent.	...	353
		Total, Nellore District ...	...	14,475
		CUDDAPAH DISTRICT.		
		AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
Cuddapah ...	River embankments.	Cheyair river right bank above the railway bridge near Nandalur.	20,480	290
Do. ...	Irrigation ...	Minor new works	...	2,219
Madhanapalle.	Do. ...	Do. do.	...	758
Cuddapah ...	River embankments.	Do. do.	...	173
Do. ...	Irrigation ...	Repairs	...	2,360
Madhanapalle.	Do. ...	Do.	...	954
Cuddapah ...	River Conservancy.	Do.	...	140
		Total ...	...	6,804
		General tools and plant at 2½ per cent.	...	170
		Total, Cuddapah District ...	...	6,974

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879—*contd.*

Division.	Classification.	Names of Works.	Amount of Estimate.	Amount available for Expenditure.
		KURNOOL DISTRICT.	Rs.	Rs.
		AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
Kurnool ...	Irrigation ...	Improving Nandial tank bund ...	24,125	400
Do. ...	Do. ...	Escape weir to Markapur tank ...	3,120	800
Do. ...	Do. ...	Road dam on the Kurnool road across the surplus channel of the Cumbum tank.	3,260	3,260
Do. ...	Do. ...	Minor new works	...	800
Do. ...	Do. ...	Repairs	...	5,000
		Total ...	...	10,260
		General tools and plant at 2½ per cent.	...	257
		Total, Kurnool District ...	...	10,517
		BELLARY DISTRICT.		
		AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
Bellary ...	Irrigation ...	Minor New Works	...	*2,860
Anantapur ...	Do. ...	Do. do.	...	700
Bellary ...	Do. ...	Repairs	...	10,000
Anantapur ...	Do. ...	Do.	...	2,000
		Total ...	...	15,500
		General tools and plant at 2½ per cent.	...	388
		Total, Bellary District ...	...	15,888
		Total, Second Circle ...	...	47,854

* Including Rupees 2,100 for boring operations at the bed of the Chittravatti river.

THIRD CIRCLE.

Statement showing the Amounts available for Expenditure on Irrigation Works during January, February, and March 1879.

Division.	Classification.	Names of Works.	Amount of Estimate.	Amount available for Expenditure.
		PRESIDENCY DISTRICT.	Rs.	Rs.
		AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
Presidency ...	Irrigation ...	Repairs	...	142
Do. ...	...	General tools and plant at 2½ per cent.	...	3
Do. ...	...	Special tools and plant, office furniture for the Office of the Chief Engineer.	...	206
		Total, Presidency District ...	...	345

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879—*continued.*

Division.	Classification.	Names of Works.	Amount of Estimate.	Amount available for Expenditure.
		CHINGLEPUT DISTRICT.	Rs.	Rs.
		AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.		
		CAPITAL.		
		Chembrambakam Tank.		
		(2) A. Reservoirs.		
Chingleput ...	L. Earthwork.	Raising revetment 2 feet	3,620	1,335
	Do. ...	Embanking lower part of Bungaroo channel.	2,650	1,000
		Palar Anicut System.		
	N. Tanks and Reservoirs.	Extending the smaller weir to Parundur large tank.	2,365	569
	Do. ...	Re-modelling the heads of Nos. 3 and 4 irrigation sluices to Parundur large tank.	1,775	70
		REVENUE.		
		Chembrambakam Tank.		
Do. ...	...	Extensions and improvements ...	...	616
Do. ...	...	Maintenance and repairs	...	2,165
		Agricultural Works for which Capital and Revenue Accounts are not kept.		
Do. ...	Irrigation ...	Minor new works	...	2,754
Do. ...	Do. ...	Repairs	...	12,449
			...	20,958
		General tools and plant at 2½ per cent.	...	524
		Total, Chingleput District ...	...	21,482
		NORTH ARCOT DISTRICT.		
		AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.		
		REVENUE.		
		Palar Anicut System.		
		Maintenance and repairs	...	1,680
		Works for which Capital and Revenue Accounts are not kept.		
Chittur ...	Irrigation ...	Gengaaery channel	8,910	293
Vellore ...	Do. ...	Minor new works	...	1,673
Chittur ...	Do. ...	Do.	...	230
Vellore ...	Do. ...	Repairs	...	11,129
Chittur ...	Do. ...	Do.	...	3,180
		Total ...	...	18,185
		General tools and plant at 2½ per cent.	...	455
		Total, North Arcot District ...	...	18,640

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879—*continued.*

Division.	Classification.	Names of Works.	Amount of Estimate.	Amount available for Expenditure.
		AGRICULTURAL—*continued.*	Rs.	Rs.
		AGRICULTURAL AND IRRIGATION WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT—*continued.*		
Coimbatore ...	Irrigation ...	Repairs	...	3,123
Perundurai ...	River Conservancy.	Do.	...	570
Coimbatore ...	River Embankment.	Do.	...	220
		Total ...	...	7,429
		General Tools and Plant at 2½ per cent.	...	185
		Total, Coimbatore District .	...	7,614
		SALEM DISTRICT.		
Salem ...	Irrigation ...	Minor new works	...	8
Do. ...	Do. ...	Repairs	...	3,568
Oossoor ...	Do. ...	Do.	...	950
Salem ...	River Conservancy.	Do.	...	530
		Total ...	...	5,056
		General Tools and Plant at 2½ per cent.	...	127
		Total, Salem District ...	..	5,183
		MALABAR DISTRICT.		
Malabar ...	Irrigation ...	Repairs	...	450
		General Tools and Plant at 2½ per cent.	...	11
		Total, Malabar District ...	...	461
		Total, Fourth Circle ...	...	13,258

FIFTH CIRCLE.

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879.

Division.	Classification.	Names of Works.	Amount of Estimate.	Amount available for Expenditure.
		TANJORE DISTRICT.		
		ORDINARY PUBLIC WORKS.	Rs.	Rs.
		KAVERI DELTA SYSTEM.		
		(2) *Main Canals and Branches.*		
		Coduvoorty and Tirumalrajnar rivers—		
Tanjore ...	D. Regulators.	Constructing regulating works ...	31,330	566

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879—*continued*.

Division.	Classification.	Names of Works.	Amount of Estimate.	Amount available for Expenditure.
		ORDINARY PRODUCTIVE PUBLIC WORKS.	Rs.	Rs.
		Expenses for Working and Maintenance.		
Tanjore ...	Revenue ...	Extensions and improvements	...	783
		Maintenance and repairs	...	10,689
		AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
	Irrigation ...	Minor New Works	...	45
	Do. ...	Repairs	...	773
	River Conservancy.	Do.	...	3,638
	River Embankments.	Do.	...	1,715
	Drainages ...	Do.	...	50
	Miscellaneous.	Do.	...	75
			...	17,734
		General Tools and Plant at 2½ per cent.	...	443
		Total, Tanjore District ...	...	18,177
		TRICHINOPOLY DISTRICT.		
		AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
	Irrigation ...	Minor new works	...	502
	Do. ...	Repairs	...	3,000
	River Conservancy.	Do.	...	3,000
	River Embankments.	Do.	...	498
		Total ...	...	7,000
		General Tools and Plant at 2½ per cent.	...	175
		Total, Trichinopoly District ...	...	7,175
		MADURA DISTRICT.		
		AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
	Irrigation ...	Minor new works	...	531
	Do. ...	Repairs	...	9,439
		Total ...	...	9,970
		General Tools and Plant at 2½ per cent.	...	249
		Total, Madura District ...	...	10,219

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879—*continued*.

Division.	Classification.	Names of Works.	Amount of Estimate.	Amount available for Expenditure.
		TINNEVELLY DISTRICT.	Rs.	Rs.
		ORDINARY PRODUCTIVE PUBLIC WORKS.		
		Sreevaikuntham Anicut System.		
	Revenue ...	Maintenance and repairs	...	3,270
		AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
	Irrigation ...	Minor new works	...	1,602
	Do. ...	Repairs	...	5,653
	River Conservancy.	Do.	...	884
	River Embankment.	Do.	...	4,057
		Total ...	...	15,466
		General Tools and Plant at 2½ per cent.	...	387
		Total, Tinnevelly District ...	...	15,853
		Total, Fifth Circle ...	...	51,424

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879.

———	Amount.	Total.
Abstract.	Rs.	Rs.
First Circle	1,27,909	
Second ,, ...	47,854	
Third ,, ...	59,535	
Fourth ,, ...	13,268	
Fifth ,, ...	51,424	
		3,00,000
Reserve at the disposal of the Chief Engineer for Irrigation—		
1. For enamelled iron gauges ordered from home.	30,000	
2. For steam launches for Godavari and Kistna from Calcutta dockyard, conveyance hire, &c.	5,000	
3. To meet any unforeseen demands ...	15,000	
		50,000
Total ...	...	3,50,000

(Signed) P. MONTGOMERIE, Major, R.E.,
Ag. Under Secretary to Government,
for Ag. Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

23rd January 1879, No. 44 I.

Irrigation Account.

Read the following papers:—

No. 51.	From Dist. Engr., Kistna,	dated	23rd	Dec.	1878,	No.	81	I.
No. 51-A.	From „ Fifth „	„	24th	„	„	„	934.	
No. 51-B.	From Supg. Engr., Second Circle,	„	25th	„	„	„	1,046.	
No. 51-C.	From „ Third „	„	26th	„	„	„	5,033.	
No. 51-D.	From Supg. Engr., First „	„	29th	„	„	„	94 G.F.	
No. 51-E.	From „ „ „	„	30th	„	„	„	5,091.	

No. 51-F. Note by the Acting Chief Engineer for Irrigation, dated 8th January 1879, No. 3 I.

No. 52. ORDER THEREON, 23rd January 1879, No. 44 I.

THE revised budget for expenditure on Irrigation works during the remaining three months of the official year, amounting to Rupees 3,50,000, is sanctioned.

2. The amounts which will be placed at the disposal of the Superintending Engineers are detailed in the appended statement and aggregate Rupees 3,00,000.

3. A sum of Rupees 50,000 will be held in reserve by the Chief Engineer for Irrigation in order to provide for the payments which will shortly be due.

1*st*.—For enamelled iron gauges ordered from home;

2*nd*.—For steam launches for Godavari and Kistna from Calcutta Dockyard, and to meet any unforeseen demands.

(True Extract.)

Lt.-Col., R.E.,
Ag. Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To Superintending Engineers.
To the Chief Engineer for Irrigation.
„ Examiner of Public Works Accounts.
„ Revenue Department.

Rd. E. C. Shunker.
40 Spare Copies

FIRST CIRCLE.

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879.

Division.	Classification.	Names of Works.	Amount of Estimate.	Proposed Expenditure for January, February, and March 1879.
1	2	3	5	4
		GODAVARI DISTRICT. CAPITAL PRODUCTIVE PUBLIC WORKS.	Rs.	Rs.
		GODAVARI DELTA SYSTEM.		
		EASTERN DELTA.		
		(2) *Main Canals and Branches.*		
Eastern Delta, Godavari.	I. Navigation Works.	Bank Canal— Lock at 30th mile	20,600	2,800
		(3) *Distributaries.*		
	L. Earthworks.	Cocanada Canal— Minor channels	8,000	150
		(4) *Drainage and Protective Works.*		
	L. Earthworks.	Thooliabhaga drain— Improvements	1,31,710	180
	Do. ...	Bicavole drain— Improvements	60,730	180
	Do. ...	Takee drain— Improvements	2,55,600	430
		CENTRAL DELTA.		
		(2) *Main Canals and Branches.*		
Central Delta, Godavari.	D. Regulators.	Main Canal— New head sluice at Bobberlanka.	...	18,760
		WESTERN DELTA.		
		(2) *Main Canals and Branches.*		
Western Delta, Godavari.	F. Other Cross Drainage Works.	Narsapur Canal— Saripalli under tunnel	7,000	120
	I. Navigation Works.	Lock at Marter	19,110	75
	H. Escapes ...	Bank Canal— Mukkamala calingulah, alteration.	600	365
	I. Navigation Works.	Lock (tidal) at Lachimipalem ...	30,700	1,500
	L. Earthworks.	Improvements	25,800	75
	F. River and Hill Torrent Works.	Ellore Canal— Under tunnel at 20th mile ...	10,300	250
	I. Navigation Works.	Gostanadi and Velpur Canal— Lock at Mamudur	15,000	50
		(3) *Distributaries.*		
	C. Works ...	Narsapur Canal— Head sluice and dividing dams.	20,471	150
	Do. ...	Bank Canal— Head sluice and dividing dams.	5,227	50

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879—*continued.*

Division.	Classification.	Names of Works.	Amount of Estimate.	Proposed Expenditure for January, February, and March 1879.
1	2	3	4	5
		WESTERN DELTA—*continued.*		
		(3) *Distributaries*—continued.	RS.	RS.
		Venkiah and Weyyeru Canal—		
Western Delta, Godavari—*contd.*	C. Works ...	Head sluice and dividing dams.	10,110	350
		Undi Canal—		
	Do. ...	Head sluice and dividing dams.	8,200	40
		Attili Canal—		
	Do. ...	Head sluice and dividing dams.	10,338	75
		Kaza drain—		
	Do. ...	Outfall sluice	6,325	1,350
		(4) *Drainage and Protective Works.*		
		Mogultur drain—		
	L. Earthworks.	Improvements	21,069	50
		ORDINARY PUBLIC WORKS.		
		GODAVARI DELTA SYSTEM.		
		(1) *Head Works.*		
Eastern Delta, Godavari.	C. Works ...	Improvements to under sluices at Dowlaishvaram.	8,650	1,575
		ORDINARY PRODUCTIVE PUBLIC WORKS.		
		GODAVARI DELTA SYSTEM.		
		Expense of Working and Maintenance.		
Do. ...	Extensions and Improvements.	Eastern Delta		1,350
	Do. ...	Central do.		1,250
Western Delta.	Do. ...	Western do.		180
Eastern do.	Maintenance and Repairs.	Eastern do.		13,000
	Do. ...	Central do.		5,000
Western do.	Do. ...	Western do.		3,245
		AGRICULTURAL AND IRRIGATION WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
Rajahmundry.	Irrigation ...	Improvements to Byana weir ...	16,580	375
Do. ...	Do. ...	Minor new works	...	350
Do. ...	Do. ...	Repairs	...	4,550
Eastern Delta, Godavari.	River Conservancy.	Do.	...	5,745
Western do.	Do. ...	Do.	...	1,500
Rajahmundry.	Do. ...	Do.	...	450
		General tools and plant at 2½ per cent.	...	1,640
		Special Plant.		
Eastern Delta, Godavari.	Revenue ...	Floating plant, new supplies ...	...	2,500
Do. ...	Do. ...	Do. repairs	...	9,500
Western Delta, do.	Do. ...	Carrying steam pumps and engines.	...	375
		Total, Godavari District ...	...	79,585

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879—*continued.*

Division.	Classification.	Names of Works.	Amount of Estimate.	Proposed Expenditure for January, February, and March 1879.
1	2	3	4	5
		KISTNA DISTRICT.		
		CAPITAL PRODUCTIVE PUBLIC WORKS.	RS.	RS.
		KISTNA DELTA SYSTEM.		
		EASTERN DELTA.		
		(1) *Head Works.*		
Eastern Delta, Kistna.	C. Works ...	Raising head works	440	65
		(2) *Main Canals and Branches.*		
		Ryves' Canal—		
	L. Earthworks.	New cut	2,76,880	28
	Do. ...	Widening canal	58,180	19
		(3) *Distributaries.*		
		Pulleru Canal—		
	C. Works ...	Kapeleswarapuram channel head sluice.	430	46
	L. Earthworks.	Kapeleswarapuram channel ...	2,860	51
		WESTERN DELTA.		
		(2) *Main Canals and Branches.*		
		Commamur Canal—		
Western Delta.	I. Navigation Works.	Tidal lock	35,370	9,000
	L. Earthworks.	Extending canal	68,178	5,704
	F. River and Hill Torrent Works.	Apperu aqueduct	11,120	131
	Do. ...	Emmelern do.	20,130	305
	Do. ...	Apperu inlet	380	380
	Do. ...	Do. outlet	880	880
	I. Navigation Works.	Lock at Santaravur	30,550	4,362
		(3) *Distributaries.*		
		Commamur Canal—		
		Mooroondapad tank channel—		
	B. Land ...	Compensation	300	300
	C. Works ...	Head sluice	1,200	499
	L. Earthworks.	Excavating channel	2,010	616
		ORDINARY PUBLIC WORKS.		
		KISTNA DELTA SYSTEM.		
		EASTERN DELTA.		
		(2) *Main Canals and Branches.*		
		Masulipatam Canal—		
Eastern Delta, Kistna.	I. Navigation Works.	Lock sheds	1,510	110
	F. Other Cross Drainage Works.	Under tunnel at Inempady ...	22,100	128

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879—*continued*.

Division.	Classification.	Names of Works.	Amount of Estimate.	Proposed Expenditure for January, February, and March 1879.
1	2	3	4	5
		KISTNA DELTA SYSTEM—*contd.*		
		WESTERN DELTA.	RS.	RS.
Western Delta, Kistna.	F. River and Hill Torrent Works.	Commamur Canal— Eringidibba or Emeleru outlet, 52nd mile.	575	450
		(3) *Distributaries.*		
	C. Works ...	Nizampatam Canal— East side channel— Minor sluices	2,000	288
		ORDINARY PRODUCTIVE PUBLIC WORKS.		
		KISTNA DELTA SYSTEM.		
		Expenses of Working and Maintenance.		
Eastern Delta, Kistna.	Extensions and Improvements.	Eastern Delta	...	375
Western do. ...	Do. ...	Western do.	...	729
Eastern do. ...	Maintenance and Repairs.	Eastern do.	...	7,000
Western do. ...	Do. ...	Western do.	...	6,454
		AGRICULTURAL AND IRRIGATION WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
Guntoor ...	Irrigation ...	Minor new works	...	410
Western Delta, Kistna.	River Conservancy.	Do.	...	36
Guntoor ...	Do. ...	Do.	...	88
Eastern Delta.	Do. ...	Do.	...	310
Do. ...	Drainages ...	Do.	...	690
Guntoor ...	Do. ...	Do.	...	302
Eastern Delta.	Irrigation. ...	Repairs	...	1,000
Guntoor ...	Do. ...	Do.	...	1,750
Western Delta.	Do. ...	Do.	...	164
Eastern Delta, Kistna.	River Conservancy.	Do.	...	500
Guntoor ...	Do. ...	Do.	...	500
Eastern Delta.	River Embankments.	Do.	...	175
Guntoor ...	Do. ...	Do.	...	500
Western Delta.	Do. ...	Do.	...	600
Guntoor ...	Drainages ...	Do.	...	150
Do. ...	Miscellaneous.	Do.	...	100
		General Tools and Plant at 2½ per cent.	...	1,129
		Special Plant.		
Eastern Delta, Kistna.	Revenue ...	Floating plant repairs	...	2,000
		Total, Kistna District ...	...	48,324
		Total, First Circle ...	...	1,27,909

SECOND CIRCLE.

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879.

Division.	Classification.	Names of Works.	Amount of Estimate.	Amount available for Expenditure.
		NELLORE DISTRICT.	RS.	RS.
		ORDINARY PRODUCTIVE PUBLIC WORKS.		
		PENNER ANICUT SYSTEM.		
		Expenses for working and maintenance.		
Nellore ...	Revenue ...	Maintenance and repairs	...	3,000
		AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
Do. ...	River embankments.	Right embankment from anicut to the sea.	61,450	5,239
Do. ...	Irrigation ...	Minor new works	...	360
Ongole ...	Do. ...	Do. do.	...	400
Nellore ...	Do. ...	Repairs	...	2,300
Ongole ...	Do. ...	Do.	...	2,500
Nellore ...	River Conservancy.	Do.	...	71
Do. ...	River embankment.	Do.	...	252
		Total ...	...	14,122
		General tools and plant at 2½ per cent.	...	353
		Total, Nellore District ...	...	14,475
		CUDDAPAH DISTRICT.		
		AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
Cuddapah ...	River embankments.	Cheyair river right bank above the railway bridge near Nandalur.	20,480	200
Do. ...	Irrigation ...	Minor new works	...	2,219
Madhanapalle.	Do. ...	Do. do.	...	758
Cuddapah ...	River embankments.	Do. do.	...	173
Do. ...	Irrigation ...	Repairs	...	2,360
Madhanapalle.	Do. ...	Do.	...	954
Cuddapah ...	River Conservancy.	Do.	...	140
		Total ...	...	6,804
		General tools and plant at 2½ per cent.	...	170
		Total, Cuddapah District ...	...	6,974

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879—*contd.*

Division.	Classification.	Names of Works.	Amount of Estimate.	Amount available for Expenditure.
		KURNOOL DISTRICT.	RS.	RS.
		AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
Kurnool ...	Irrigation ...	Improving Nandial tank bund ...	24,125	400
Do. ...	Do. ...	Escape weir to Markapur tank ...	3,120	800
Do. ...	Do. ...	Road dam on the Kurnool road across the surplus channel of the Cumbum tank.	3,260	3,260
Do. ...	Do. ...	Minor new works	...	800
Do. ...	Do. ...	Repairs	...	5,000
		Total ...	...	10,260
		General tools and plant at 2½ per cent.	...	257
		Total, Kurnool District ...	...	10,517
		BELLARY DISTRICT.		
		AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
Bellary ...	Irrigation ...	Minor New Works	...	*2,800
Anantapur ...	Do. ...	Do. do.	...	700
Bellary ...	Do. ...	Repairs	...	10,000
Anantapur ...	Do. ...	Do.	...	2,000
		Total ...	...	15,500
		General tools and plant at 2½ per cent.	...	388
		Total, Bellary District ...	...	15,888
		Total, Second Circle ...	...	47,854

* Including Rupees 2,100 for boring operations at the bed of the Chittravatti river.

THIRD CIRCLE.

Statement showing the Amounts available for Expenditure on Irrigation Works during January, February, and March 1879.

Division.	Classification.	Names of Works.	Amount of Estimate.	Amount available for Expenditure.
		PRESIDENCY DISTRICT.	RS.	RS.
		AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
Presidency ...	Irrigation ...	Repairs	...	142
Do. ...	...	General tools and plant at 2½ per cent.	....	3
Do. ...	...	Special tools and plant, office furniture for the Office of the Chief Engineer.	...	200
		Total, Presidency District ...	...	345

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879—*continued.*

Division.	Classification.	Names of Works.	Amount of Estimate.	Amount available for Expenditure.
		CHINGLEPUT DISTRICT.	RS.	RS.
		AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.		
		CAPITAL.		
		Chembrámbakam Tank.		
		(2) A. Reservoirs.		
Chingleput ...	L. Earthwork.	Raising revetment 2 feet	3,620	1,335
	Do. ...	Embanking lower part of Bungaroo channel.	2,650	1,000
		Palar Anicut System.		
	N. Tanks and Reservoirs.	Extending the smaller weir to Parundur large tank.	2,365	569
	Do. ...	Re-modelling the heads of Nos. 3 and 4 irrigation sluices to Parundur large tank.	1,775	70
		REVENUE.		
		Chembrámbakam Tank.		
Do. ...	...	Extensions and improvements ...	...	616
Do. ...	...	Maintenance and repairs	...	2,105
		Agricultural Works for which Capital and Revenue Accounts are not kept.		
Do. ...	Irrigation ...	Minor new works	...	2,754
Do. ...	Do. ...	Repairs	...	12,449
			...	20,958
		General tools and plant at 2½ per cent.	...	524
		Total, Chingleput District ...	...	21,482
		NORTH ARCOT DISTRICT.		
		AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.		
		REVENUE.		
		Palar Anicut System.		
		Maintenance and repairs	...	1,680
		Works for which Capital and Revenue Accounts are not kept.		
Chittur ...	Irrigation ...	Gengaiery channel	8,910	293
Vellore ...	Do. ...	Minor new works	...	1,673
Chittur ...	Do. ...	Do.	...	230
Vellore ...	Do. ...	Repairs	...	11,129
Chittur ...	Do. ...	Do.	...	3,180
		Total ...	...	18,185
		General tools and plant at 2½ per cent.	...	455
		Total, North Arcot District ...	...	18,640

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879—*continued*.

Division.	Classification.	Names of Works.	Amount of Estimate.	Amount available for Expenditure.
		SOUTH ARCOT DISTRICT.	Rs.	Rs.
		ORDINARY PUBLIC WORKS.		
		PELANDORAI ANICUT SYSTEM.		
		(1) *Head Works.*		
Cuddalore ...	C. Works ...	Extending the rough-stone apron of the Pelandorai anicut.	2,820	1,000
		ORDINARY PRODUCTIVE PUBLIC WORKS.		
		PELANDORAI ANICUT SYSTEM.		
		Expenses for Working and Maintenance		
Do. ...	Revenue ...	Maintenance and repairs	...	...
		Restoring the breached portion of the Pelandorai anicut.	34,155	6,000
		Agricultural Works for which Capital and Revenue Accounts are not kept.		
Do. ...	Irrigation ...	Minor new works	...	464
Tindivanam ...	Do. ...	Do.	...	864
Cuddalore ...	Do. ...	Repairs	...	4,478
Tindivanam ...	Do. ...	Do.	...	3,758
Cuddalore ...	River Conservancy.	Do.	...	1,208
Do. ...	River Embankment.	Do.	...	850
		Total ..	...	18,622
		General tools and plant at 2½ per cent.	...	466
			...	19,088
		Total, Third Circle ...	...	59,555

FOURTH CIRCLE.

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879.

Division.	Classification.	Names of Works.	Amount of Estimate.	Amount available for Expenditure.
		COIMBATORE DISTRICT.	Rs.	Rs.
		AGRICULTURAL.		
		AGRICULTURAL AND IRRIGATION WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
Coimbatore ...	Irrigation ...	Constructing Chitrachevady, head sluice.	4,750	400
Perundurai ...	Do. ...	Waste weir, Mungamerry jungle stream.	9,683	300
Coimbatore ...	Irrigation ...	Minor new works	...	1,309
Perundurai ...	Do. ...	Do.	...	322
Do. ...	Do. ...	Repairs	...	1,185

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879—*continued*.

Division.	Classification.	Names of Works.	Amount of Estimate.	Amount available for Expenditure.
		AGRICULTURAL—*continued.*	Rs.	Rs.
		AGRICULTURAL AND IRRIGATION WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT—*continued.*		
Coimbatore ...	Irrigation ...	Repairs	...	3,123
Perundurai ...	River Conservancy.	Do.	...	570
Coimbatore ...	River Embankment.	Do.	...	220
		Total ...	...	7,429
		General Tools and Plant at 2½ per cent.	...	185
		Total, Coimbatore District .	...	7,614
		SALEM DISTRICT.		
Salem ...	Irrigation ...	Minor new works	...	8
Do. ...	Do. ...	Repairs	...	3,568
Oossoor ...	Do. ...	Do.	...	950
Salem ...	River Conservancy.	Do.	...	530
		Total ...	...	5,056
		General Tools and Plant at 2½ per cent.	...	127
		Total, Salem District ...	..	5,183
		MALABAR DISTRICT.		
Malabar ...	Irrigation ...	Repairs	...	450
		General Tools and Plant at 2½ per cent.	...	11
		Total, Malabar District ...	...	461
		Total, Fourth Circle ...	...	13,258

FIFTH CIRCLE.

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879.

Division.	Classification.	Names of Works.	Amount of Estimate.	Amount available for Expenditure.
		TANJORE DISTRICT.	Rs.	Rs.
		ORDINARY PUBLIC WORKS.		
		KAVERI DELTA SYSTEM.		
		(2) *Main Canals and Branches.*		
		Coddumoorty and Tirumalrajnar rivers—		
Tanjore ...	D. Regulators.	Constructing regulating works ...	31,980	566

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879—*continued.*

Division.	Classification.	Names of Works.	Amount of Estimate.	Amount available for Expenditure.
		ORDINARY PRODUCTIVE PUBLIC WORKS.	Rs.	Rs.
		Expenses for Working and Maintenance.		
Tanjore ...	Revenue ...	Extensions and improvements ...	...	783
		Maintenance and repairs	...	10,689
		AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
	Irrigation ..	Minor New Works	...	45
	Do. ...	Repairs	...	773
	River Conservancy.	Do.	...	3,038
	River Embankments.	Do.	...	1,715
	Drainages ...	Do.	...	50
	Miscellaneous.	Do.	...	75
			...	17,734
		General Tools and Plant at 2½ per cent.	...	443
		Total, Tanjore District ...	...	18,177
		TRICHINOPOLY DISTRICT.		
		AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
	Irrigation ...	Minor new works	...	502
	Do. ...	Repairs	...	3,000
	River Conservancy.	Do.	...	3,000
	River Embankments.	Do.	...	498
		Total ...	...	7,000
		General Tools and Plant at 2½ per cent.	...	175
		Total, Trichinopoly District ...	...	7,175
		MADURA DISTRICT.		
		AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
	Irrigation ...	Minor new works	...	531
	Do. ...	Repairs	...	9,439
		Total ...	...	9,970
		General Tools and Plant at 2½ per cent.	...	249
		Total, Madura District ...	...	10,219

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879—*continued.*

Division.	Classification.	Names of Works.	Amount of Estimate.	Amount available for Expenditure.
		TINNEVELLY DISTRICT.	Rs.	Rs.
		ORDINARY PRODUCTIVE PUBLIC WORKS.		
		Srivaikuntham Anicut System.		
	Revenue ...	Maintenance and repairs	..	3,270
		AGRICULTURAL WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.		
	Irrigation ...	Minor new works	...	1,602
	Do. ...	Repairs	...	5,653
	River Conservancy.	Do.	...	884
	River Embankment.	Do.	...	4,057
		Total ...	...	15,466
		General Tools and Plant at 2½ per cent.	...	387
		Total, Tinnevelly District ...	...	15,853
		Total, Fifth Circle ...	...	51,424

Statement showing the Amount available for Expenditure on Irrigation Works during January, February, and March 1879.

	Amount.	Total.
Abstract.	Rs.	Rs.
First Circle	1,27,909	
Second ,, ...	47,854	
Third ,, ...	59,555	
Fourth ,, ...	15,258	
Fifth ,, ...	51,424	
		3,00,000
Reserve at the disposal of the Chief Engineer for Irrigation—		
1. For enamelled iron gauges ordered from home.	30,000	
2. For steam launches for Godavari and Kistna from Calcutta dockyard, conveyance hire, &c.	5,000	
3. To meet any unforeseen demands ...	15,000	
		50,000
Total ...	...	3,50,000

(Signed) P. MONTGOMERIE, Major, R.E.,
Ag. Under Secretary to Government,
for Ag. Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

GOVERNMENT MADRAS.

PUBLIC WORKS EPARTMENT

23rd January), No. 44 I.

Irri[illegible] on-
Ac[illegible] &c.

Read the following papers :—

No. 51.	From Dist. Engr., Kistna,	dated 23rd Dec. 1878, No. 81 I.
No. 51-A.	From „ Fifth	„ 24th „ „ „ 934.
No. 51-B.	From Supg. Engr., Second C	„ 25th „ „ „ 1,046.
No. 51-C.	From „ Third	„ 26th „ „ „ 5,033.
No. 51-D.	From Supg. Engr., First	„ 29th „ „ „ 91 G.F.
No. 51-E.	From „ „	„ 30th „ „ „ 5,091.
No. 51-F.	Note by the Acting Chief [illegible]1879	ngineer for Irrigation, dated 8th January . 3 I.

No. 52. ORDER THEREON, 23rd [illegible]nuary 1879, No. 44 I.

THE revised budget for expenditure [illegible]n Irrigation works during the remaining three months of the official year, amount[illegible]g to Rupees 3,50,000, is sanctioned.

2. The amounts which will be [illegible]ed at the disposal of the Superintending Engineers are detailed in the appende[illegible]tement and aggregate Rupees 3,00,000.

3. A sum of Rupees 50,000 wi[illegible] held in reserve by the Chief Engineer for Irrigation in order to provide for the[illegible]cents which will shortly be due.

1*st.*—For enamelled iron gaug[illegible]rdered from home ;

2*nd.*—For steam launches fo[illegible]lavari and Kistna from Calcutta Dockyard, and to meet any unfo[illegible]s demands.

([illegible] Extract.)

[illegible]gned) J. O. HASTED, Lt.-Col., R.E.,
Ag. Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To Superintending Engineers.
To the Chief Engineer for Irrigation.
„ Examiner of Public Works Accts
„ Revenue Department.

Ex. I. C. Shunker.
Spare Copies

Vol 1095

Irrigation
Account

Govt. of [illegible] Madras

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Superintending Engineers

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