

- (1) Number of pages 42
(2) Date of repair _____
(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works

DEPARTMENT.

G.O. No.	803 (2)	Press Mis
Dated	8 - 3.	1877.

Not to be folded or roughly handled

Read the following papers :—

No. 200. From Captain R. R. E. BROCKMAN, R.E., District Engineer, Tanjore, to the Chief Engineer for Irrigation, Public Works Department, dated Camp, Perauruni, 21st October 1876, No. 2,008.

In reference to G.O., No. 50, dated 10th January 1876, relative to the construction of regulating head works to the Codamoorty and Trimulrajen rivers, I have the honor to forward herewith a survey, plans, and estimates for these works for approval and sanction. A sum of Rupees 16,000 has already been entered in the Irrigation Budget of this district for the year 1877-78, but I trust funds in part may be forthcoming to admit of these works being put in hand after the close of the north-east monsoon, as intimated in paragraph 3 of the Government Order under reference.

One Plan of Trimulrajen regulator.
" " of Codamoorty.
" Survey Plan.
" Detail Plan of capstan-headed screwnut and hexagonal concrete block apron.
" Abstract Estimate of Rupees 31,380.

The number of vents adopted for the regulators has been that proposed by Lieutenant-Colonel Oakes in paragraph 12 of his letter embodied in the Government Order, viz., sixteen vents of 10 feet for the Codamoorty and ten vents of 10 feet with $4\frac{1}{2}$ shutters for the Trimulrajenaur.

From the statement A which accompanied Lieutenant-Colonel Oakes' letter, it will be seen that with a depth of $4\frac{1}{2}$, corresponding to 45.905 on the Codamoorty bridge gauge, that river was receiving its full supply; when the depth of water in the river falls below this, regulation becomes necessary to prevent the Trimulrajenaur carrying off an undue supply. I have therefore allowed a lift of only $4\frac{1}{2}$ in the shutters of the regulator at the head of the latter river, and allow the current to lift the shutters on its surface as its level increases. The shutters are prevented from being carried away by the second cross beams shown in the elevation and section. When the water level falls to $4\frac{1}{2}$ the shutters hang vertically over their grooves, and are lowered into them without difficulty. By this arrangement the unsightly appearance of a screw standing 8 feet or 9 feet above the level of the roadway of the work is avoided, whilst the cost is much reduced. For raising the screw I have provided a capstan-headed nut, into which levers are inserted and turned by two men pushing against them, instead of the ordinary nut and spanner, which necessitates that the former be raised to a sufficient height above the platform to enable it to be worked. The capstan-nut maybe cast with a pipe 5 feet long attached, into which the screw when raised rises, so as to prevent its being exposed to the action of the weather or dust and grit blown on to it from the river bed, an arrangement that has been adopted in my design for the Dowlaishweram head sluice gearing.

The survey plan shows the improvements that require to be carried out to the Padugay at the heads of the rivers, so as to fall in with the alignment of the works.

The original levels of Lieutenant-Colonel Oakes' statement are retained, as no M.S.L. bench-marks have been laid down in the delta for reference.

Proceedings of the Madras Government, Public Works Department,
8th March 1877. No. 803.

CAUVERY DELTA—CAUVERY SECTION.

IRRIGATION.

Fund.—Capital Extraordinary.

Class.—Work.

Main head.—Main canal and branches, Codamoorty river.

Sub-head.—Regulators.

Name of Work.—Constructing regulating works for the Codamoorty and Trimulrajenaour

Estimate No.—T. J. of 1877-78.

Rupees 31,380.

	Description of Work.	Rate.	Per	Amount.	Total.
	<i>Codamoorty Regulator.</i>	RS. A. P.		RS. A. P.	RS. A. P.
40,290	Cubic feet of brick in soorkey mortar at foundation at	0 2 6	C. feet.	6,295 5 0	
8,301 7/8	Do. brick in chunam above at	0 2 3	do.	1,167 5 3	
2,050	Do. archwork at	0 2 6	do.	3,29 5 0	
2,736 1/2	Do. stonework at	1 3 6	do.	3,335 9 0	
6,165 1/2	Do. hexagon apron concrete at	0 2 3	do.	867 1 3	
94	Squares of pointing at	1 4 0	Square.	117 5 0	
3,650	Cubic yards of excavating foundation and filling in	0 2 0	C. yard.	456 4 0	
10,608 1/2	Do. of earthwork at	0 1 0	do.	656 12 6	
123	Piles at 2 feet apart at	1 8 0	each.	199 8 0	
4	Centrings at	50 0 0	do.	200 0 0	
12	Removing and rebuilding the same	20 0 0	do.	240 0 0	
	Baling			1,000 0 0	
	Scaffolding			100 0 0	
	Sundries, &c., 5 per cent.				14,955 10 0
	Total Estimate				894 6 0
					15,850 0 0
	<i>Trimulrajen Regulator</i>				
28,502 1/2	Cubic feet of brick in soorkey mortar at foundation at	0 2 6	C. feet.	4,453 8 3	
5,426 1/2	Do. brick in chunam above at	0 2 3	do.	763 1 8	
1,332 1/2	Do. archwork at	0 2 6	do.	208 3 3	
3,217 1/2	Do. stonework at	1 3 6	do.	3,921 10 2	
10,101	Do. hexagon apron concrete at	0 2 3	do.	1,420 7 3	
45 1/2	Squares of pointing at	1 4 0	Square.	56 9 0	
249 1/2	Cubic feet of teak wood work at	3 8 0	C. feet.	872 13 0	
147 5/10	Lbs. of wrought iron (screw) at	0 5 0	lb.	460 15 6	
218 5/25	Do. do. iron at	0 2 0	do.	273 2 6	
1,224	Do. cast iron at	200 0 0	Ton.	109 4 7	
	Add for carriage 20 per cent.			168 8 0	
1,553 1/2	Cubic yards of excavating foundation and filling	0 2 0	C. yard.	194 2 8	
8,524 1/2	Do. earthwork at	0 1 0	do.	520 4 8	
94	Piles at 2 feet apart at	1 8 0	each.	141 0 0	
4	Centrings at	50 0 0	do.	200 0 0	
6	Removing and rebuilding the same	20 0 0	do.	120 0 0	
	Baling			700 0 0	
	Scaffolding			70 0 0	
	Sundries at 5 per cent.				14,653 10 4
	Total Estimate				876 5 8
					16,530 0 0
	Grand Total of Codamoorty and Trimulrajen Regulators				31,380 0 0

CAMP, PERAURUNI,
21st October 1876.

(Signed) R. R. E. BROCKMAN, Captain, R.E.,
District Engineer, Tanjore.

No. 83 W.

No. 200-A.

Note by the Chief Engineer for Irrigation.

In G.O., No. 50, of the 10th January 1876, the necessity for regulating the water-supply of the Codamoorty and Trimulrajenaour rivers in Tanjore was considered to

Proceedings of the Madras Government, Public Works Department,
8th March 1877. No. 803.

have been clearly demonstrated, and instructions as to the course to be followed were given.

2. No provision was made for these regulators in the rough estimate of funds required for 1877-78, and consequently no funds for them were made available by the Government of India in the grant under Extraordinary. At the time* at which the

* End of October.

designs and estimates for these works were received from the District Engineer the undersigned was fully engaged in reviewing the completion estimates for the Kistna Delta, and it is only now that he has been able to take up the papers connected with these regulators. The need of introducing regulation however for the distribution of water to the Codamoorty and Trimulrajenaour in due proportion to the acreage

is so pressing, seeing that at present the Codamoorty. 46,320
Trimulrajenaour 14,662

Codamoorty is altogether inadequately supplied while water much in excess of the requirements of irrigation is running down the Trimulrajenaour, that it seems to be desirable that the Government of India should be asked to sanction the estimates and to provide a small grant, say, 10,000 Rupees, for immediate expenditure, and a sum of Rupees 15,000 for the completion of the Trimulrajen regulator and partial

completion of the Codamoorty regulator in 1877-78. Funds might be appropriated in the current year from the amount surrendered† a short time since from the

Godavery and the Kistna Delta systems Capital Extraordinary.

3. The work of more pressing importance is the Trimulrajenaour which has to be regulated so as to throw more water in low freshes into the Codamoorty, while in connection therewith it will be requisite to maintain the bed of the Codamoorty at a proper level and consequently a regulating work across this river is likewise required. In the design for the latter work no shutters have been provided; but shutter grooves in the abutments should be formed in the first instance, and until it is found, as is probable, that regulation here also will be needed the piers and arches need not be built above sill level.

4. These works are in the Cauvery section of the Delta, and regulators have already been built across the Cauvery and Codamoorty at the head of the latter, across

the Cauvery and Arasalaour, and Cauvery and Veerasholen, at a cost of Rupees 1,05,630,* on estimates sanctioned† by the Government of India. The effect of

these works has been highly beneficial, and they have certainly proved remunerative, as must all works of this class, for rectifying and regulating the main distribution

of the water-supply of the delta. In the Proceedings, Madras Government, as per margin, will be found the latest information available on the subject.

5. The estimates as submitted by the District Engineer amount to Rupees 31,380, and probably Rupees 25,000 will suffice to do all that is immediately necessary.

* Including the cost of extending the aprons of the Codamoorty regulators, sanctioned in G.O., No. 795, of 13th March 1873.

† No. 132 A.I., dated 1st September 1868.

No. 705 of 12th March 1875.
See also Proceedings, Madras Government No. 417, 20th February 1874.

*Proceedings of the Madras Government, Public Works Department,
8th March 1877. No. 803.*

6. With regard to the details of the works it is not desirable to sink the upper part of the aprons in rear of the sills below the level of the crest of the retaining walls. There is, however, generally some lowering of the river-bed below regulating works, and it has been found advisable to place the first apron 1 foot and the second 18 inches or 2 feet below the sill level, or below the normal bed level where the sill is a raised one.

7. If Captain Brockman's design for a shutter to swing after clearing the grooves has not been tried, its efficiency and the proper arrangement of details should be determined before the system is introduced on a large scale. The hexagonal block aprons are novel, and may be found a convenient and useful form of concrete blocks as a substitute for rough stone where this, as in the Tanjore Delta, is not procurable.

(Signed) JOHN MULLINS, Lieut.-Col. R.E.,
Chief Engineer for Irrigation.
FORT ST. GEORGE,
27th January 1877.

To the Secretary to Government, Public Works Department.

No. 201. ORDER THEREON, 8th March 1877, No. 803.

IRRIGATION, No. 22.

Account.

HIS GRACE the Governor in Council is of opinion that the need of more effective regulation of the water-supply of the Codamoorthy and Trimulrajenaar rivers in

the Cauvery section of the Cauvery Delta has been demonstrated in the foregoing papers, and that as, owing to the circumstances noticed by the Chief Engineer, the estimate amounting to Rupees 31,380 for these works was not submitted to the Government for sanction in time to admit of provision being made for them in the budget of 1877-78, it is desirable that arrangement should be made for carrying them out by transfer from other allotments; also that it would be well to prepare materials, &c., during the current year if possible.

2. The papers will be forwarded for the consideration of the Government of India, with a request that the estimate may like those for the other regulators of this delta be sanctioned for execution from the Extraordinary Grant, the evidence being presumably strong that the outlay will be remunerative; the outlay on other regulators of

Proceedings, Madras Government, No. 705, of the 12th March 1875.

1870-71 to 1872-73 having been Rupees 62,591 on that of the period 1865-66 to 1869-70; and the general effect of out-

*
Vide para. 5 of Irrigation Memorandum, dated 14th December 1876, transmitted to the Government of India with letter No. 591, dated 22nd February 1877.

lay in the Cauvery Delta and on the Lower Coleroon Anicut having been far more successful than perhaps any similar expenditure elsewhere.

3. On the sanction of the estimate by the Government of India, the particulars of transfer of allotment for 1877-78 will be determined and reported for the approval of that Government. It is probable that the non-closure of canals in the Godavery

*Proceedings of the Madras Government, Public Works Department,
8th March 1877. No. 803.*

Delta to facilitate transport during the present exceptional season will make feasible a transfer of funds from the provision for works there. Funds for the present year, should early sanction be accorded, can be made available from the surrenders recorded in G.O., No. 406, dated 5th February 1877. Only a small sum can in any case be utilized before the 31st March next.

(Here enter No. 804, dated 8th March 1877.)

(True Extract.)

Lieut.-Col., R.E.,
Secretary to Government, P.W.D.

To the District Engineer, Tanjore.

- „ Collector of Tanjore.
- „ Chief Engineer for Irrigation.
- „ Examiner of Public Works Accounts.
- „ Revenue Department.

Exd. S. T. Austin.

Spare Copies

2

PUBLIC WORKS DEPARTMENT,
FORT ST. GEORGE, 8th March 1877

No. 202.

No. 804.

FROM

THE SECRETARY TO THE GOVERNMENT OF MADRAS,

Public Works Department,

TO

THE SECRETARY TO THE GOVERNMENT OF INDIA,

Public Works Department.

IRRIGATION, No. 23.

Account.

No. 50, dated 10th January 1876.
,, 803, ,, 8th March 1877.

SIR,—I am directed to transmit for the consideration of the Government of India an estimate, amounting to Rupees 31,380, for constructing regulating works on the Codamoorthy and Trimulrajenaaur at the head of the latter river, together with copies of the Proceedings as per margin.

2. It will be seen that at present the Trimulrajenaaur obtains very much more than the proper share of water due to its acreage, and that altogether the area of irrigation interested is under the—

	ACRES.
Codamoorthy...	46,320
Moodicondanaaur	36,477
Trimulrajenaaur	14,662
Total	97,459

Statement A.
Proceedings, dated 10th January 1876, No. 50.

When the Codamoorthy above the head of the Trimulrajenaaur is carrying seventenths of a full supply the

Trimulrajenaaur takes 2.42 times its share.

Moodicondanaaur gets 0.29 of do.

Codamoorthy do. 0.48 of do.

Similarly, when the total supply is 1.23 times that required, the

Trimulrajenaaur takes 4.06 times its requirements.

Moodicondanaaur gets 0.50 of its full supply.

Codamoorthy do. 0.92 do.

Under such circumstances it appears certain that much benefit to the revenue will result from a more equitable distribution of water, and I am to point out that similar expectations have been realized in the case of the regulation of the main branches of the Cauvery, of which the Codamoorthy is one.

Memorandum 3

There is no direct information available of the kind referred to in the marginal remarks made by His Grace the Governor on this draft order, and it is believed that the difficulties in the way of obtaining direct information on the effect of the regulating order as regards revenue would be very great owing to the system of distribution in Tanjore - The circumstances however are clearly shown in Parg. No 50 - 10 parts 1876 and the

leading features, however
referred to in the draft !!
letter to the Government of
India. herewith submitted

44.5/3

1892-93
 Irrigation
 Fund Capital Extraordinary
 Class. Work
 Survey Delta
 Canals Section
 13

Main head. Moani canal
 Sub head. Regulator
 me of work. Constructing Regulating works
 for the Godamooty and Chimalatapur
 Estimate No. 1894-98
 Rs. 31,380

Description of work	Rate	On	Amount	Total
Godamooty Regulator				
Cft. of Brick in mortar at foundation	26	645	16770	
Brick in chunam above	20	116	2320	
Arch work	26	80	2080	
Stone work	1	335	335	
Hexagon apron concrete	20	86	1720	
Spies of Pointing	7	17	119	
Cyds of Excavating foundation and filling in	2	456	912	
of Earthwork	1	656	656	
Piles at 2 feet apart	1	199	199	
Centrings	50	200	10000	
Remounting and rebuilding the same	20	240	4800	
Baling			1000	
Carries over			11855	10

Wells Murray Captain R. E.
District Engineer Tucson

District Engineer's Office
Camp Perdurium
21st October 1876
W.M.

2008
2008
2008

W.D.
71/1877
2115

2008
2008
2008

Estimate for
Constructing Regulating
works for the Godamoorthy
and Trinulraju rivers
Estimate Rs 31,380

Enclosed is a letter from
the District Engineer
Juzo to the Chief
Engineer for Irrigation
No 2008 dated 21/10/76

G. A. 8th March/77 J. B. 20

No. 2008
District Engineer's Office
Camp - Perambur
21st October 1876

From
Captain R. P. E. Brockman R.E.
District Engineer, Tanjore

2
Lieut Col John Mullins R.E.
Chief Engineer for Irrigation
Sir,

In reference to G.O. No. 50
dated 10 January 1876, relative to the
construction of Regulating Head works
to the Godamoorthy and Trinulraju
rivers, I have the honor to forward
herewith a survey, plans, and estimate
for these works for approval and
sanction. A sum of Rupees 16,000
has already been entered in the
Irrigation Budget of this District
for the year 1877-78, but I trust
funds in part may be forthcoming
to admit of these works being put
in hand after the close of the

N. E. Monsoon as intimated in para 3 of the G.O. under reference.

The number of vents adopted for the regulators has been that proposed by Lieut Col Oakes in para 12 of his letter embodied in the G.O. viz. 16 vents of 10' for the Codamooty and 10 vents of 10' with $4\frac{1}{2}$ shutters for the Trimalajenaur.

From the statement A which accompanied Lieut Col Oakes letter it will be seen that with a depth of $4\frac{1}{2}$ corresponding to 45 goss on the Codamooty Bridge since the river was receiving its full supply when the depth of water in the river falls below this, regulation becomes necessary to prevent the Trimalajenaur carrying off an undue supply. I have therefore allowed a lift of only $4\frac{1}{2}$ in the shutters of the regulator at the head of the later river, and

allow

19 2
allow the current to lift the shutters on its surface as its level increases. The shutters are prevented from being carried away by the second cross beams shown in the elevation and section. When the water level falls to $4\frac{1}{2}$ the shutters hang vertically over their grooves and are lowered into them without difficulty. By this arrangement the unsightly appearance of a screw standing 8' or 9' above the level of the road way of the work is avoided whilst the cost is much reduced. For raising the screw I have provided a cast iron headed nut into which levers are inserted and turned by two men pushing against them instead of the ordinary nut & shaver which necessitates that the former be raised to a sufficient height above the platform

Printed by the Government
No 83 W.

Note by the Chief Engineer for Irrigation

Enclosures 6

In G.O. No 50 of the 10th January 1896 the necessity for regulating the water supply of the Kodamoorty and Trimbajenaur rivers in Tanjore was considered to have been clearly demonstrated and instructions as to the course to be followed were given.

No provision was made for these regulators in the Rough estimate of funds required for 1877-78, and consequently no funds for them were made available by the Government of India in the Grant under Extraordinary. At the time at which the designs and estimates for these works were received from the District Engineer the undersigned was fully engaged in reviewing the Completion estimate for

* end of October.

From
The District Engineer
Tanjore

To
The Chief Engineer
Irrigation

No 2008

Dated 21st October 1896
No.

Enc. 5

No 200

For wants for sanction
Plans and estimate
for the construction
of regulating head
works to the Kodamoorty
& Trimbajenaur Rivers.

G.O. 8th March 1897

200

Irrigation Department - 1896.

12.3.75 Rs. 705.
20.2.76 - 617.
15.3.73 - 795.

P.W.D.

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for the Kistna Delta and it is only now that he has been able to take up the papers connected with these regulators. The need of introducing regulation however for the distribution of water to the Godamooty and

Trimulrajapur in due proportion to the acreage is so pressing, seeing that at present the Godamooty is altogether inadequately supplied while water much in excess of the requirements of irrigation is running down the Trimulrajapur that it seems to be desirable that the Government of India should be asked to sanction the estimates and to provide a small grant say 10,000 Rupees for immediate expenditure and a sum of Rupees 15,000 for the completion of the Trimulrajapur regulator and partial completion of the Godamooty regulator in 1877-78. Funds might be appropriated in the current year from the

acres.
Godamooty - 46,320
Trimulrajapur 14,662

R. 70911-

G. O. W. 40675

February 17/77

Letter to Govt. of

India No. 407

5th February 1877

the amount surrendered and short time since from the Godavery and the Kistna (Delta Systems Capital Extra-ordinary)

3. The work of more pressing importance is the Trimulrajapur which has to be regulated so as to throw more water in low freshes into the Godamooty while in connection therewith it will be requisite to maintain the bed of the Godamooty at a proper level and consequently a regulating work across this river is likewise required. In the design for the latter work no shutters have been provided, but shutter grooves in the abutments should be formed in the first instance, and until it is found, it is probable, that regulation here, also will be needed the piers and arches need not be built above sill level.

4. These works are in the Cauvery section of the Delta and regulators have

have already been built across the
 Cauvery and Kodamoorthy at the
 head of the latter across the Cauvery
 and Arasalur, and Cauvery and
 Veerasholen, at a cost of Rupees 105,639
 on estimates sanctioned by the Govern-
 ment of India. The effect of these
 works has been highly beneficial
 and they have certainly proved re-
 munerative, as must all works of
 this class for rectifying and regula-
 ting the main distribution of the
 water supply of the Delta. In the
 Proceedings Madras Govt. as per margin
 will be found the latest information
 available on the subject.

5. The estimates as submitted by
 the District Engineer amount to Ru-
 pees 3,380 and probably Rupees 2,500
 will suffice to do all that is imme-
 diately necessary.

6. With regard to the details of
 the works it is not desirable to sink
 the

*including the cost of
 extending the aprons
 of the Kodamoorthy regulating
 work sanctioned in 1879
 13 Mar 1901
 * N. 132 A I
 Dated 1 Sept.
 1868.

No. 405 of
 12 March
 1875.
 Supd. Phil. M.
 417-20 Feb. 1874

the upper part of the apron in rear
 of the sills below the level of the crest
 of the retaining walls. There is how-
 ever generally some lowering of the
 river bed below regulating works
 and it has been found advisable
 to place the first apron 1 foot and
 the second 18 inches or two feet below
 the sill level, or below the normal
 bed level where the sill is a raised
 one.

7. If Captain Brockmans design
 for a shutter to swing after clearing
 the grooves has not been tried, its
 efficiency and the proper arrange-
 ment of details should be deter-
 mined before the system is intro-
 duced on a large scale. The hexago-
 nal block aprons are novel and
 may be found a convenient and
 useful form of concrete blocks as a
 substitute for rough stone where this

The Secretary to Government
P. W. D.

Handwritten signature: *Handwritten signature*

1944

12

4014

1. The first of these is the fact that the
 2. second of these is the fact that the
 3. third of these is the fact that the
 4. fourth of these is the fact that the
 5. fifth of these is the fact that the
 6. sixth of these is the fact that the
 7. seventh of these is the fact that the
 8. eighth of these is the fact that the
 9. ninth of these is the fact that the
 10. tenth of these is the fact that the

10. 1. 1900

From 10
Public Works Department
31

No 803

PROCEEDINGS of the MADRAS GOVERNMENT.

Under date the 8 March 77
Read the following:—

From the Chief Engineer for
Irrigation (H.E. No 803 W 27 Jan 77)

I agree but I should
have with it. Statement seems
the acreage was sufficiently irrigated
by these channels respectively and
the acreage was insufficiently
but which would be sufficiently irrigated
by the proposed work - and the increased
upstream a value -
1/3 3/3

His Grace the Governor
in Council is of opinion that
the need of more effective
regulation of the waters
supply of the Kodamurti
and Trimulrajendur
rivers in the Cauvery
section of the Cauvery Delta
has been demonstrated in
the foregoing papers, and
that as, owing to the cir-
cumstances noticed by
the Chief Engineer, the
estimate

10.1.76. No. 50
Irrigation Memo 14.12.76
12. March 75. No 705.
2 Feb 74 " 617.
13 March 73 " 795.

1977.

From
The Chief Engineer for Irrigation

P.W.D.
27 FEB 77
No. 2115

Dated 27 Jan. 1977
Despt. 26 Feb 1977

No. 803. W

Kodamurti & Trimulrajendur
Rivers - Tanjore District. - Note
regarding the necessity for carrying out
the construction of the regulating
works to the —

N: 2000A

From 7.3.77 (2.7.3.77)
to 27.2.77 & 7.3.77

estimate amounting to Rupees 31,380 for these works was not submitted to Government for sanction in time to admit of provision being made for them in the Budget of 1877-78, it is desirable that arrangements should be made for carrying them out by transfer from other allotments, also that it would be well to prepare materials during the current year if possible.

2. The papers will be forwarded for the consideration of the Government of India with a request that the estimate may like those for the other regulators of this Delta be sanctioned for execution

Pros. Madras Govt. No. 705
of the 12th March
1875.

Vide para: 5 of Irrigation
Memorandum dated 14th
December 1876 transmit-
ted to the Govt of India
with letter No. 591 dated
22nd February 1877.

33
execution from the Extra-ordinary grant, the evidence being presumably strong that the outlay will be remunerative, the outlay on other regulators of the Cauvery Section having already proved to have been highly beneficial, the average increase of revenue for the 3 years 1870-71 to 1872-73 having been Rupees 62,591 on that of the period 1865-66 to 1869-70, and the general effect of outlay in the Cauvery Delta and on the Lower Coleroon Ancient having been far more successful than perhaps any similar

2 similar expenditures
elsewhere.

3. On the sanction
of the estimates by the
Government of India,
the particulars of trans-

fer of allotment for 1877-78

will be determined and

reported for the approval

of that Government. It

is probable that the

non-closure of canals in

the Godavary Delta to

facilitate transport dur-

ing the present excep-

tional season will

make feasible a trans-

fer of funds from the

provision for works

there. Funds for the

present year, should

early sanction be ac-

corded

35-12 14
accorded, can be made
available from the
surrenders recorded in
G. O. No. 406 dated 5th
February 1877. Only a small
sum can in any case
be utilized before the
31st March next.

W. 26/2

Collectr } Panyam.
L. P. W. A.
C. P. I
Rev. Dept.

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No. 804

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37

GOVERNMENT OF MADRAS,
PUBLIC WORKS DEPARTMENT.

To The Secretary to the
Govt of India. P.W.D.

Fort St. George, 1 March 1877.

SIR,

1/3
H
M

I am directed to
transmit for the con-
sideration of the Govt. of
India and estimate amount-
ing to Rs 3,300 for construct-
ing regulating works on
the Kodamirky and
Trinutrapur at the
head of the latter river,
together with copies of the
Proceedings as per margin.

No 50 dated 10 Jan 1876
- 803 . 8 March 1877

2. It will be seen that
at present the Trinutrapur
obtains very much more

Handwritten signature

Recd 7.3.77
Ltr 27.2.77

than the proper share of water due to its acreage; and that altogether the area of irrigation interested is under the

Kodamurthy	Acres 46,320
Moodicondamanur	36,477
Trinulrajanur	14,662
Total Acres	97,459

When the Kodamurthy above the head of the Trinulrajanur is carrying down water of a full supply the

Statement A.
No. 8 to Jan/76. No 50.

Trinulrajanur takes 2.42 times its share
Moodicondamanur gets 0.29 of do.
Kodamurthy do 0.40 of do.

Similarly when the total supply is 1.23 times that required the

Trinulrajanur takes 5.06 times its requirements.
Moodicondamanur gets 0.50 of its full supply
Kodamurthy do 0.92 do.

Under such circumstances it appears certain that

much benefit to the Revenue will result from a more equitable distribution of water, and I am to point out that similar expectations have been realized in the case of the regulation of the main branches of the cannerly of which the Kodamurthy is one.

3. The amount of the estimate as given above is for works, adding for other direct charges the total will be

	Rs.
Works	31,380
Rehabilitation 25 percent.	7,845
Tools and Plant. say 8 percent.	2,570
Total direct charges	41,795

or about 0.43 Rupee an acre

4. It is intended to regulate the distribution of water between the Kodamurthy and the Moodicondamanur after the

proper distribution at
the head of the Trinoban
terians has been secured

Vol. 6/3

Dispd - 31- 3. 77.

with four Plans &

255 copies No 20

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No 804 - with 450

No. 50 of 1870

PUBLIC WORKS.

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The D. G. Langford

Dated

Issued

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Eni.

G. O. 8th March 1877, No. 803187.

Hos. 200-201-202

Kodamurthy & Trinulra.
Various Rivers in the Cauvery
Section of the Cauvery Delta.
Tanjore Dt. - Passing orders
papers urging the necessity
for more effective regulation
of the water supply of
the _____

But in Ref.