

ORDINARY, MS.

Uarim DEPARTMENT.
G.O., DATED *8-6-95*
No. *164*

When given for copying. 10/6

[Despatch Abstract.]

Comm. & the 1. 10.
No. 1, P. W. D. 16-5-95
No. 420 I ~~the estimate of Rs 28,000~~ approving,
~~the estimate of Rs 28,000~~
for constructing a Regulator
across the Vettar and
directing the transmission
of copy of the Proceedings
together with the Estimate
for the work.

BACK PAPER, No.

OF 189 .

FURTHER PAPER, No.

547

OF 189 5.

Dec. 212 7/16-7-95

READ AGAIN ORDER OF GOVERNMENT, DATED
189 , No. , MISCELLANEOUS.

ENCLOSURES.

CURRENT No.

STATEMENT WITH DITTO.

ORDER OF GOVERNMENT

LETTER OF GOVERNMENT.

STATEMENT WITH DITTO.

PAPERS NOT FILED UP, BEING MEANT FOR DESPATCH
IN ORIGINAL (not paged).

N.B.-

A - Copy in full.
B - Not to be copied.
P - Copy abstract only.
Q - Copy heading only.

IRRIGATION.
ACCOUNT.

Govt. of {1895} Madras.
PUBLIC WORKS.

Dated May, 16th.

Recd. 29 } May 29
May 30 }

Encl.

G.O., 16th May 1895, No. 420 I.

MAY.

CHIEF SECRETARY
29. MAY. 1895
GOVERNMENT OF MADRAS

Regulator across the Vettar

Estimate of Rs. 28,000 for constructing
a — just below the offtake of the Odam-
boghlar, Cauvery delta system, approved,
and copy of these Proceedings, together
with the estimate for the work, ordered to
be forwarded for the sanction of the Gov-
ernment of India.

N
this

Order of 8th June 1895 No. 164

Comm^d to the P. P. Officer
with refer to S.O. 415-11-94,
No. 447.

For
for C.S.
8/6/95

To the P.P.O. dated 13/6/95
for C.S. 10/6
X 10/6

From Lieutenant-Colonel C. C. RAWSON, R.E., Superintending Engineer, V Circle, to the Chief Engineer for Irrigation, dated Red Hills, 21st April 1895, No. 120 E.I.

With reference to your memorandum No. V/26 T.J. of 13th April 1895, I have the honour to state that as the work proposed is intended to improve the supply in the Odemboghriar, as also for the improvement of the Negapatam Harbour, it is not directly remunerative. Its cost should, it is thought, be rightly charged to "Capital outlay on Productive Irrigation works," as it will secure the better regulation and distribution of water to lands both under the Vettar and Odemboghriar distributaries of the Cauvery delta system.

2. The work can be completed in two working seasons from date of grant of allotment or, say, 31st March 1898.

No. 84 I.

Submitted to Government with a recommendation that the estimate as raised in this office from Rs. 22,000 to Rs. 22,700 be submitted for the sanction of the Government of India with reference to paragraph 35 V (a), chapter V, volume II, Public Works Department Code. The increase of Rs. 700 is due to provision having been made for an adjustable rough stone or concrete block apron 10' broad held in position by a row of piles along toe.

2. When carrying out the work the Superintending Engineer, V Circle, should adopt the same arrangement of lifting shutters with screw shaft, &c., as is described in paragraphs 13, 14 and 19 of the "report" printed in Proceedings of the Madras Government No. 181 I., dated 25th February 1895.

(Signed) R. R. E. DRAKE-BROCKMAN, Colonel, R.E.,
27th April 1895. Chief Engineer for Irrigation

ORDER—dated 16th May 1895, No. 420 I., Public Works.

Works	Rs. 22,700	The estimate, amounting to Rs. 28,000, as shown in the margin, for constructing a regulator of nine vents across the Vettar just below the offtake of the Odemboghriar, is approved.
Establishment	5,221	
Tools and plant	79	
Total	28,000	2. The attention of the Superintending Engineer, V Circle, is drawn to paragraph 2 of the foregoing endorsement of the Chief Engineer for Irrigation.

3. Ordered that a copy of these Proceedings, together with the estimate for the work, be forwarded to the Government of India with a request that sanction may be accorded to the construction of the proposed regulator under "49. Capital Expenditure not charged to Revenue," Cauvery Delta System, Open Capital Account.

[Here enter No. 421 I., dated 16th May 1895.]

(True Extract.)

F. H. ...
Under Secy. to Govt., P.W.D.,
Irrigation Branch.

To the Chief Engineer for Irrigation.

- " Superintending Engineer, V Circle, with plans and estimate (6).
- " Examiner, Public Works Accounts.
- " Revenue Department.
- " Marine "

Exd. C. A. Munisawmy.
Spare Copies

16TH MAY 1895, No. 420 I., PUBLIC WORKS.

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.Irrigation.
Account.

READ—the following papers :—

From J. C. LARMINIE, Esq., Superintending Engineer, V Circle, to the Chief Engineer for Irrigation, dated Chepâk, 11th March 1895, No. 78 E.I.

With reference to your memorandum No. V/99 T.J., dated 17th December 1894, I have the honour to submit for sanction plans and estimate, amounting to Rs. 22,000, for constructing a regulator of nine vents across the Vettar just below the offtake of the Odamboghîar.

A report explaining the details accompanies the estimate.

ENCLOSURE.

REPORT to accompany the estimate for the construction of a regulator across the Vettar just below the offtake of the Odamboghîar.

In connection with an unanswered reference from the Chief Engineer for Irrigation regarding the construction of a regulator or head sluice at the head of the Odamboghîar, it was first brought to notice by the undersigned in his inspection notes of 18th June 1893 that what was really required was the converse, *i.e.*, a regulator across the Vettar, to enable more water to be forced down the Odamboghîar in the interest of the Negapatam Harbour so as to cause greater scour on the bar.

2. In the interests of irrigation also the work is required—

	ACRES.
The area under Vettar being	12,191
Odamboghîar	51,161

and the Vettar at this point being wider and a foot lower in bed level draws off far more than its share of the water.

3. In connection with Negapatam Harbour the estimate has now been called for—see paragraph 3 of Chief Engineer's note printed with G.O., No. 447, Marine, of 15th November 1894, bearing Irrigation Chief Engineer's endorsement No. 943 I. of 1st December 1894, also the Irrigation Chief Engineer's No. V/99 T.J. of 17th December 1894 calling for the estimate.

4. Considered as a flood affluent it will not do to contract the Vettar in any way at this point. Some cross sections of the river accompany, but what may be taken as a better guide are the existing road bridges on roads Nos. 17 and 16 which cross the Vettar some four and two miles above and below respectively. The former has five arches of 42 feet span, the latter five arches of 35 feet span as shown on the accompanying sketch. From these and the cross sections it is proposed to allow 180 feet of vent way divided into nine vents of 20 feet each, closed by single shutters, supported on rail frames as sanctioned for the Coleroon anicuts and Khan Sahib's canal regulator.

5. There will never be any occasion to work these shutters under any great head, as with a fresh in the river they should be raised clear. They have accordingly been calculated for a head water 6" over their upper edges when a thickness of 3½ inches affords an ample margin.

6. The supports being 4 feet from ends of the shutter, the points of inflexion are 2 feet inside the supports thus reducing the middle bay of the shutter to an equivalent of 8 feet so far as strains go.

7. The foundations have been designed from information noted on the plan sent in for the regulator proposed at head of the Odamboghîar showing sand to a depth of 6 feet with a sub-soil of clay; before the work is started this information should be verified by some fresh borings.

8. As there will be no acceleration of the velocity through the regulator, the extent of flooring provided for in rear is considered sufficient.