

Public Works (1898) Department.

URGENT

✓

G.O., No. 676 J

DATED 6th September 98

W. H. P.

W. H. P.

7/9/98

Surplus Weir

[Despatch Abstract.]

Estimate of Rs 10200 for Constructing
a — at 2 m 76 ft of the Moostha Channel
taking off from the 4th Aqueduct on the Deegabhadra
river in the Bellary Dist., Saundhar

110/6

J.E.I.

Registered
6-9-98

2
6-9-98

Indexed.

W. H. P.

GOVERNMENT {1898} OF MADRAS.
PUBLIC WORKS.

Spare copies

G.O., No. 675 I., 6th September 1898.

SEPTEMBER.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following papers:—

From Lieut.-Colonel W. L. C. BADDELEY, R.E., Superintending Engineer, III Circle, to the Chief Engineer for Irrigation, dated Bellary, 21st July 1898, No. 1443 I.

I have the honour to submit herewith, for sanction of Government, plans and estimate, amounting to Rs. 9,800, for constructing a weir and surplus sluices at 2/7 mile of the Thoortha channel taking off at the 4th anicut on the Tungabhadra river in Hospet taluk, Bellary district.

2. The work has been put in hand in anticipation of sanction to the estimate under the authority given by the Superintending Engineer in this office endorsement, No. 414, dated 3rd May 1898, on the Executive Engineer's letter, No. 3301, dated 25th April 1898, copy enclosed.

3. Full explanation for the rates has been given in the report.

ENCLOSURE.

REPORT to accompany estimate amounting to Rs. 10,200 for constructing weir and surplus sluice in the Thoortha channel.

This channel receives at 2 miles 5 furlongs the surplus of Kamalapur tank, amounting to about 46 square miles, and has only a 2-vent surplus escape and a weir 50 feet long (since washed away) which are quite inadequate to discharge the flood water. In consequence of this the channel breached in several places in September last.

2. The Superintending Engineer, Mr. W. B. deWinton, in his remarks on the inspection notes of the Executive Engineer for August, gave instructions what was to be done. He directed the addition of two more vents to the existing escape at 2/6 and the construction of a weir 100 feet long in continuation of it. He also ordered the construction of a new weir with a surplus vent at 3 miles, 0 furlong, the site of a surplus escape which was washed away in September. Mr. Larminie, when Superintending Engineer, for the reasons given in his inspection notes, dated 9th and 15th February 1898, directed that the lower of these two weirs should be given up and that "the whole of the new surplus should be provided in continuation of the surplus vents higher up between which and the corner of the channel at 2/7 there is room for 200 feet of escape in addition to the two additional surplus vents."

The present estimate has been prepared in accordance with these instructions.

The drainage entering the channel here is the run-off from about 36 square miles and the maximum flood discharge with a co-efficient of 300 would be 3,240 cusecs. Assuming a maximum flood level of 2 feet above F.S.L., the discharge through the 4 vents, each 5' x 6' with 4'5" head, will be 1,273 cusecs, and the discharge over the 205 feet of weir will be 1,832 cusecs, making in all 3,105 cusecs, which is very nearly the required discharge. It is not practicable to provide any further escape and, considering the fact that it will as a rule be possible to keep Kamalapur tank somewhat below F.T.L. during the rainy season, it is considered that the surplusing power now given to the channel at this point is sufficient.

Rates.—The rates provided in the estimate are those which were sanctioned eventually for the large repair estimates for the channel after much correspondence and consideration, it being found impossible to get work done for a lower rate. The difficulties of executing work on these channels are very great. In the first place there are no roads and for a great portion of the way no cart-tracks; *secondly*, skilled labour has all to be imported from a great distance; and *thirdly*, the

coolies who come to work cannot be got to work more than 5 hours a day. The work has been put in hand in anticipation of sanction, and although I have not yet accepted the piece-work agreement submitted by the Sub-Divisional officer, the piece-worker will naturally expect to get the rates which have hitherto been paid for similar work on the channels. Under these circumstances I strongly recommend that the rates entered should be passed. I have drawn up data in support of them, but in these peculiar circumstances I do not think data are of much value. Work will, however, be done as cheaply as possible. As regards earthwork, the earth has to be carried along the bank for an average distance of 300 feet and deposited there and sectioned. The rate is not a high one.

As the work is in progress very early sanction to the estimate is requested.

(Signed) H. C. CLERK,
Executive Engineer, Bellary Division.

19th July 1898.

No. 227 I.

Note by the Acting Chief Engineer for Irrigation.

The accompanying estimate, submitted by the Superintending Engineer, III Circle, provides for constructing a surplus weir 2 miles and 7 furlongs of the Thoortha channel taking off from the 4th anicut on the Tungabhadra river in the Bellary division. As Superintending Engineer, III Circle, the undersigned had the design prepared and gave instructions to put the work in hand, with Mr. Hughes' approval, in anticipation of sanction by Government, the work being urgently required after the destruction of the old escape during the floods of last year.

2. The design has been slightly altered in this office by increasing the thickness at base of the body wall from 3 to 4½ feet, and the depth of the last retaining wall from 4 to 5 feet. This alteration has increased the amount of the estimate from Rs. 9,800 to Rs. 10,200.

3. The estimate may be sanctioned.

(Signed) J. C. LARMINIE,
Ag. Chief Engineer for Irrigation.

9th August 1898.

ORDER—No. 675 I., dated 6th September 1898.

The following estimate is sanctioned:—

Irrigation.
43. Minor Works and Navigation.
Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.
Original Works.
Bellary Division.
Constructing surplus weir at 2 miles and 7 furlongs of the Thoortha channel.
RS.
10,200

2. This sanction is registered as No. 68 I. of 1898-99.

(True Extract.)

Under Secretary to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
Superintending Engineer, III Circle, with seven enclosures.
" Examiner, Public Works Accounts.

Erd. W. D'Moss.

Estimate for constructing a surplus
Weir to Shorten the Channel, valley down

READ the following

No. 1443. I. dated 21.st July 1898.

Print & Issue emergently

Re 20/8/28

Recd from L
on 22.8.98

59

The accompanying estimate
submitted by the Superintendent.
- ing Engineer, 3rd circle, with his
~~to H. B. D. dated 21st July 1898~~
provides for constructing a
surplus ^{wair} escape at ^{2 miles & 7 furlongs} $2\frac{7}{8}$ mile
of ^{the} Hoortha channel taking
off from the 4th ancient on the
Tungabhadra river at ^{the} Bellary
Division. As Superintending
Engineer, 3rd circle, the under-
signed had the design -
prepared, and gave instructions
to

to put the work in hand,
with Mr. Hughes' approval,
in anticipation of sanction
by Government, the work
being urgently required
after the destruction of the
old escape during the floods
of last year.

2. The design submitted
has been slightly altered
in this office by increasing
the thickness at base of the
body wall from 3 to $4\frac{1}{2}$ feet,
and the depth of ^{the} last retain-
ing wall from 4 to 5 feet.
This alteration has increased
the amount of the estimate
from Rs 9,000 to Rs 10,200.

3. The estimate may be
sanctioned.

Order No. 675 D. 7. 9. 98.

The following estimate
is

is sanctioned:—

Irrigation

43 Minor works & Navigation.
Minor works for which neither
Capital nor Revenue Accounts
are kept, P. D. D.

Original Works.

Ballary Division.

Constructing surplus escape
at $\frac{2}{7}$ miles of the Thoortha channel.
Estimate Rs 10,200.

2. This sanction is registered
as No. 68. I of 1898-99.

8/8/98

9/8/98

Received from 1898 on 17.8.98.

7.8.9. 5.9.98.

To,
The Chief Engineer for Irrigation,
" Supg. Engineer III circle
with 7 enclosures.
Examiner P. W. Accounts.

19/9/98

8.8.98.

Public Works (1898) Department.

CURRENT No. 7408

From
The Chief Engineer
for Irrigation

Order

No. 227.

Dated 9. 8. 98

Received 5. 9. 98

Registered

Enclosures 2 plans attached
plans not recd.

Spare copies 5. 9. 98

SUBJECT.

Constructing a surplus
weir to throat the channel
Bellarly Du. Estimate of
Rs 10200 for - note accom.
- including for construction there

1012
25/7/80

Ph 2577156.

298

2. The Superintending Engineer Mr. W. B. deWinton in his remarks on the inspection notes of the Executive Engineer for August gave instructions what was to be done. He directed the addition of two more Vents to the existing escape at $\frac{2}{6}$ and the Construction of a weir 100 ft long in Continuation of it. He also ordered the Construction of ~~an~~ new weir with a Surplus Vent at 3 m. of ~~the~~ site of a surplus escape which was washed away in September. Mr. Lammie when Superintending Engineer for the reasons given in his inspection notes. dated 9th and 15th February 90 directed that the lower of these two ~~weirs~~ should be given up and that "the whole of ^{the} Surplus should be provided in Continuation of the Surplus Vents ^{higher up} between which and the Corner of the Channel at $\frac{2}{7}$ there is room for 200 ft of Escape in addition to the two additional Surplus Vents.

The present Estimate has been prepared in
concordance with these instructions.

under 27 11/190
flogged M.

settled ⁱⁿ
concentration
with Wm. Hughes
J. L.
27/7/1888

The drainage entering the Channel here is the run-off from about 36 sq. miles and the maximum flood discharge with a coefficient of 300 would be 3240 ^{cusecs.} ~~cusecs.~~ ^{assuming} a maximum flood level of 2' above F.S.L. the discharge through the 4 Vents each 5' x 6' with 4.5' head will be 1273 cusecs and the discharge over the 205 feet of weir will be 1032 cusecs making in all 3105 cusecs which is very nearly the required discharge. It is not practicable to provide any further escape, and considering the fact that it will as a rule be possible to keep Kamalapur Tank some what below F.T.L. during the rainy season it is considered that the surplus power now given to the Channel at this point is sufficient.

Rates. The rates provided in the Estimate are those which were sanctioned eventually for the large repair Estimates for the Channel after much correspondence and consideration, it being found impossible to get work done for a lower rate.

The difficulties of executing work on these channels are very great. In the first place there are no roads and for a great portion of the way no cart tracks. Secondly, Skilled labour has all to be imported from a great distance and thirdly the Coolies who come to work cannot be got to work more than 5 hours a day. The work has been put in hand in anticipation of ^{Sanction} ~~sanction~~ and although I have not yet accepted the piecework agreement submitted by the ^{Sub Officer} ~~Sub Officer~~ the piece worker will naturally expect to get the rates.

which have hitherto been paid for similar work on the Channels. Under these circumstances I strongly recommend that the rates entered should be passed.

I have drawn up data in support of them but in these peculiar circumstances I do not think data are of much value. Work will however be done as cheaply as possible. As regards Earthwork the Earth has to be carried along the bank for an average distance of 500 feet and deposited there and sectioned. The rate is not a high one.

As the work is in progress very early sanction to the Estimate is requested.

H. M. S.

Executive Engineer.

Bellary

19-7-98

No. 1423

Superintending Engineer's Office,

3RD CIRCLE.

Bellary 21st July 1898.

FROM

Lt. Col. W. L. C. Baddley R.E.
ESQ.,

SUPERINTENDING ENGINEER,

IIIRD CIRCLE,

BELLARY.

To

THE

Chief Engineer
for Irrigation
Madras

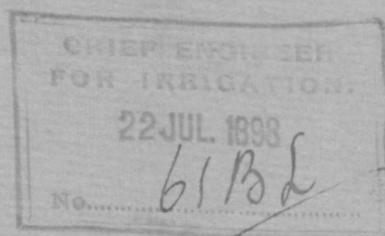
Sir,

8 Enclosures.

Plan of weir
sheet of section
Detailed estimate
abstract of
calculations
sheets
Report
Copy of letter

+ 1/2 book work

Plans retained.



Recd. 2/7/98

I have the honour to
submit herewith for Sanction of
Government plans and Estimate
amounting to Rs. 9800/- for
constructing a weir and surplus
sluices at 2 1/2 mile of the Thoortha
Channel taking off at the
4th Anicut on the Tungabhadra
River in Hospet Taluk, Bellary
District.

2. The work has been put
in hand in anticipation of
Sanction to the Estimate under

the authority given by the Super-
-intending Engineer in this Office
Endorsement No. 414 dated 3rd
May 1898 on the Executive
Engineer's letter No. 3301 dated
25th April 1898. Copy enclosed.

3. Full explanation for the
rates has been given in the report.

I have the honour to be,
Sir,

Your most obed^t Serv^t

Wm Bonning

Sup^r of Engineers S. L. Col. R.R.
III Linn Co.


20-7-98

From
The Superintending Engineer
IIIrd Circle,
Bellary

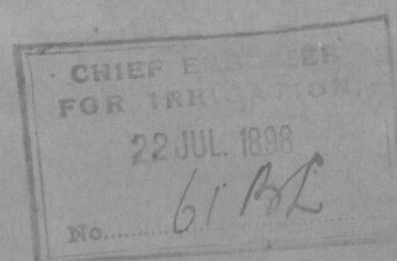
To
The _____

Dated } _____
Received } _____ 189 .

Enclosures.

No.

Subject.



61 BZ
22/7/98