

Public Works (1896) Department.

G.O., No. 4979

DATED 12-6-96

[Despatch Abstract.]

Mumayern Ancient Apur: Estimate
of Rs 5,100 for repairs and improve-
ments to the —, Mumayern project,
sanctioned with remark.

Estimate of Rs. 5,100 for repairs and improvements to the —, Munnyeru project, sanctioned with remark.

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following paper:—

From Major W. L. C. BADDELEY, R.E., Superintending Engineer, II Circle, to the Chief Engineer for Irrigation, dated 6th May 1896, No. 294 K.N.

I have the honour to forward herewith, for your approval and sanction of Government, estimate amounting to Rs. 5,100 for repairs and improvements to the Munnyeru anicut apron, Munnyeru project.

2. The amount of the estimate (Rs. 5,100) can be met by Rs. 2,460 from the balance available from the lump sum provision of Rs. 7,000 (item 49) allowed for unforeseen works, and Rs. 2,640 from the provision of Rs. 4,535 allowed for tools and plant of the Munnyeru project, sanctioned in G.O. No. 1089 I., dated 12th December 1893.

3. The estimate has been prepared on the lines proposed by Captain Ellis and approved by you in memo. No. II/170 K.S., dated 23rd October 1895, with slight deviations.

4. The report which accompanies the estimate explains the necessity for the work.

5. I propose that the sum of Rs. 2,640 be transferred from tools and plant to works.

ENCLOSURE.

REPORT to accompany the estimate for Repairs and Improvements to the Munnyeru Anicut Apron.

Amount of estimate Rs.
5,100

The estimate provides for the repairs and alterations to the anicut as laid down in the Executive Engineer's note forwarded with No. 391 S.E., of 16th October 1895, with slight variations.

Filling in of scours.—In addition to the rough stone filling, a certain proportion of small stone (shingle) has also been provided, as the rough stone available is rather large in size and consequently gives large interstices. The small stone is to be thrown in along with the rough stone so as to mix with them and fill in the interstices up to the point where the concrete grouting commences. Instead of this, sand might be used or suitable proportions of both small stone and sand.

Surki to be used.—Surki mortar is provided for the retaining walls, the cross walls, and apron surfacing, the experience of Kistna anicut during last season having conclusively proved the great superiority of surki mortar for this class of work.

Recovery of stone from scours.—Practically, the whole of the stone thrown into the scours will be recovered, and the burnt stone from the packing in the first apron should be very nearly sufficient for the new surfacing of the apron, and for the top courses of the cross walls.

New dry packing required.—The quantity of dry packing requisite for the extension of the apron to meet the river bed turns out to be rather greater than was anticipated in the Executive Engineer's note, as the river bed has been considerably scoured.

Scour on west side below anicut.—A fairly large scour has also taken place along the outside of the west side retaining wall 10 feet wide on an average and from 2 to 6½ feet deep. This wall too has no concrete under it. Provision has been made for filling this scour in with earth and covering with 2 feet of dry packing to a suitable width. An extra quantity of heavy packing stone over and above that to be taken out of the scoured apron is required to bring the rocky portion, which was left unpitched, up to the new section.

Foundations of end wall.—The end wall of the new apron is founded on the stratum of fissured rock where the former aprons ended.

Temporary repairs.—Provision has been made in a lump sum for the temporary repairs already executed.

Rates.—The rates are based on those agreed upon before for the head works and main channel.

Work on the retaining walls has been commenced in anticipation of sanction.

26th February 1896.

(Signed) W. M. ELLIS, Captain, R.E.,
Executive Engineer, Kistna Northern Divn.

ORDER—No. 497 I., dated 12th June 1896.

The following estimate is sanctioned, Rs. 2,460 of the proposed outlay being met from the amount available for unforeseen works of the Munnyeru project, and the balance Rs. 2,640 or Rs. 3,247 including the percentage for establishment, from the sum of Rs. 4,535 provided for tools and plant in the sanctioned estimate for the project:—

Irrigation.									
43. Minor Works and Navigation.									
Minor Works for which Capital and Revenue accounts are kept.									
Munnyeru Project.									
Capital Account.									
I. Works.									
1. Head Works.									
6. Maintenance.									
Repairs and improvements to the ancient apron.									
Estimate	...	...	...	...	...	...	...	...	RS.
									5,100

This sanction is registered as No. 55 I. of 1896-97.

(True Extract.)

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

To the Chief Engineer for Irrigation.

- „ Superintending Engineer, II Circle, with three enclosures.
- „ Examiner, Public Works Accounts.
- „ Revenue Department.

Exd. T. K. Narayana Aiyangar.
Spare copies

No. 497 I. d. 12-June 1896.

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

Read the following

*From Supp. to Ench. No. 294 KN 9
6 May 1896.*

The following estimate is sanctioned, Rs. 2,460 of the proposed outlay being met from the amount available for unforeseen works of the Munnyeru Project, & the balance, Rs. 2,640 or Rs. 3,247 including the percentage for establishment, from the sum of Rs. 4,535 provided for tools & plant in the sanctioned estimate for the project:—

Irrigation.
43. Minor Works. Major
Minor works for which
Capital & Res. Accts
are kept.

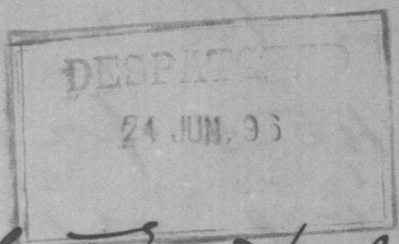
Munigern Project
Capital Account
I Works.

1. Road Works.
6. Maintained

Repairs & improvements
to the ancient apron -
Estimate Rs 5100

2. This sanction
is registered as No.
55 of 1896-97.

[Signature]
30/5/96
Ruedt
1/6
96



To the Chief Eng. & Supt.
Supt. Eng. to with 3 enclos.
20.5.96
Form No 1-100-27-11-96.

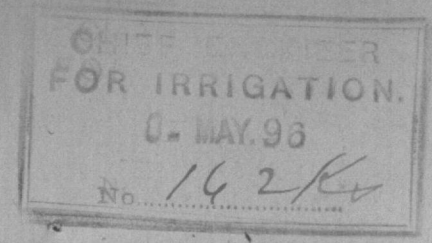
10/5
27/5 BR

~~10/5~~
Estimate for repairs
improvements to
the ancient apron,
Munigern Project

Done
Ruedt
9/6
7.5.96
11/6
12/6
Regd
12/6

Stamped
Di
9/6/96

of BR



From
The Supt Engineer
Second Circle

To
The Chief Engineer
For Irrigation

Dated 6 May 1896

Encls 3

No. 294 Net

Repairs and Improvements
to the Munigern Ancient
Apron -

Forwards for approval &
sanction an Estimate of
Rs. 5100 for -

21-12-95 No. 1111 D

P. W. CURRY 5286

Encls 4 (14/10/96)
Recd: 11.6.96

Report to accompany the Estimate for
Repairs and Improvements to the
Mungere Ancient Apron.

Amount of Estimate Rs. 5,100.

The Estimate provides for the repairs
and alterations to the Ancient as laid down
in the Executive Engineer's Note forwarded
with N^o. 391 S.E. of 16th October 1895, with
slight variations.

In addition to the rough stone filling,
a certain proportion of small stone -
(shingle) has also been provided, as
the rough stone available is rather
large in size and consequently gives
large interstices. The small stone is
to be thrown in along with the rough
stone so as to mix with them and fill in
the interstices up to the point, where the
concrete grouting commences. Instead
of this, sand might be used or
suitable proportions of both small stone
and sand.

Surki mortar is provided for the
retaining walls, the cross walls and apron
surfacing. The experience of Kishna Ancient
during last season having conclusively
proved

Filling in
of Scours.

Surki to be
used

proved, the great superiority of
Eurki mortar, for this class of work.

Practically, the whole of the stone
thrown into the scours, will be re-
covered and the burnt stone
from the packing in the 1st apron,
should be very nearly sufficient,
for the new surfacing of the apron,
and for the top courses of the cross
walls -

Recovery of
stone from
scours

The quantity of dry packing re-
quisite, for the extension of the apron
to meet the river bed, turns out to be
rather greater than was anticipated
in the Executive Engineer's note, as the
river bed has been considerably
scoured.

New dry
packing
required

A fairly large scour has also
taken place along the outside of
the West side Retaining wall - 10 feet
wide on an average, and from
2 to 6 1/2 ft deep. This wall too has
no concrete under it. Provision
has been made for filling this scour
in with earth, and covering with 2 ft
of dry packing to a suitable width -

Scour on west
side below
ancient

An extra quantity of heavy packing
stone over and above that taken
out of the scour & apron is required
to bring the rocky portion, which was
left unpitched, up to the new section.

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Foundations of
End wall

The end wall of the new apron is
founded on the stratum of fissured
rock, where the former aprons ended.

Temporary
Repairs

Provision has been made in
a lump sum, for the temporary repairs
already executed.

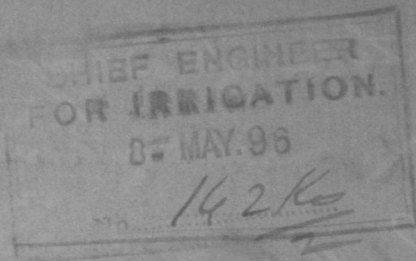
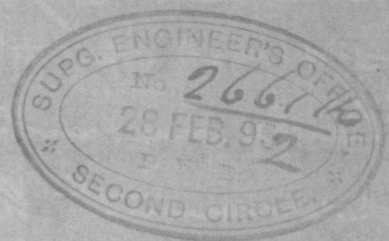
Rates:

The rates are based on those
agreed upon before, for the Head works,
and Main Channel.

Work on the Retaining walls, has
been commenced in anticipation of
Sanction.

J. H. M.
Captain R.E.
Executive Engineer,
Kistna Northern Division

26/2/86



Q. 52.3
5286/96

Enclos 3
1 Tracing
1 Det. Est.
1 Report
3

Superintending Engineer's Office

2nd Circle.

No. 294 Kt dated 6 May 1896

From.

Major W. L. B. Baddley R.E.

Superintending Engineer
2nd Circle

To

The Chief Engineer.

For Irrigation.
Madras

Sir,

I have the honor to forward herewith for your approval and sanction of Government estimate, amounting to Rs 5000 for repairs and improvements to the Mungern Ancient Canal, Mungern Project.

2. The amount of the estimate Rs 5000 can be met by Rs 2460 from the balance available from the lump sum provision of Rs 7000 (Ann 49) allowed for unforeseen works and Rs 2640 from the provision of Rs 4535 allowed for Tools and Plant of the Mungern Project, sanctioned in Govt. No. 10895/12-12-95.

3. The estimate has been prepared on the lines proposed by Capt. Ellis and approved by you in Memo. No. 11/170 Kt. dated 23rd October, 1895, with slight deviations.

4. The report which accompanies the

the estimate explains the necessity for
the work.

5. I propose that the sum of Rs 2640/-
be transferred from Tools and Plant to
works.

I have the honor to be

Your most ^{Sir} obedient servant

W. B. Baddley

Superintending Engr.

2nd Circle.

9M.