Public Works (189) Department.

G.O., No. 773 I

DATED 6th October '98

[Despatch Abstract.]

~~A~~ Spring Channel from the Penner River:

~~The~~ Estimate of Rs 9000 for ~~the~~ excavating ~~of~~ a ——— for the Irrigation of Hussainipuram lands in the Bellary Division, and the appropriation of funds from the Provl: Reserve under 43, Minor Works & Navigation, sanctioned, with remarks.

11/6

Registered
6-11-98

F. E. I

6/10/98

P. W. 26.
2000—12 2-98.

Indexed.

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Estimate for digging a Spring Channel from the Penner river to irrigate Hoossainipuram lands in Bellary Dt.

Under date the

Read the following

Print into report — Letter from the Supg. Engineer 3d Circle - - - - - - - - (H. E. No 1943. dated 27th Augt 98)

6 [illegible] Read — Memo to the Supg. Engr 3d Circle - - - - - - - - (H. E. No $\frac{III}{7.AN}$ dated 12th Septr/98)

Print — Endorsement of the Supg. Engineer - 3d Circle (H. E. No 2316. I. dated 21st Septr/98)

Print — Note by the Ag. Chief Engineer for Irrigation - - - - (H. E. No 250 I dated 29th Septr/98)

Flag G

Issue 8P

JCl
1/10/98

Flag H.

In G.O. No 859. I. dated 22d September 1897 an approximate estimate of Rs 6,520 for digging a channel from the Penner to feed Hussainipuram lands in the Bellary Division, was sanctioned, but the work was not started as the necessity for it for famine relief purposes ceased. The Supg. Engineer, 3d Circle, now submits a fresh estimate amounting to Rs 9,000 for sanction as an ordinary work in view to give employment to the labouring classes. The estimate may be sanctioned, but the Superintending Engineer anticipates

drainage on the map, crosses both lines.

anticipates that it will be largely exceeded if the labourers are unskilled as the rates provided are the ordinary P.W.D. rates.

2. The amount required for expenditure on the work viz Rs 11,205 inclusive of the percentage charges for Establishment and Tools & Plant, may be appropriated from the reserve at the disposal of Government under "Provincial" - "43 Minor works and Navigation".

3. It was pointed out to the Supg. Engineer in this office Memo No III/7. A.W dated 12 Septr 1898 that the provision made in the estimate for excavating 3600 feet of the channel in the river bed (commonly called a spring channel) was unusual, such work generally being carried out by the ryots interested. However as the Board of Revenue was anxious that the estimate should provide for this portion of the work also, it has been included. There can be no doubt that it will constantly shoal up, however the ryots have entered into an agreement to maintain it and the rest of the channel in order.

J.C.L.
Ag E.I

Flag N

Flag J

No. 773 I d/ 6.10.98

Irrigation Acct

R.H. 31.9.98

Order thereon

The following estimate is sanctioned:—

Irrigation

43 - Minor works & Navigation

Minor works for which neither Capital nor Rev. Accounts are kept. P.W.D.

Original works

Excavating a spring channel from the Penner river to irrigate the lands of Hassainpuram village.
Estimate - - - Rs 9,000.

2. This sanction is registered as No 77. I of 1898-99.

3. The appropriation of funds proposed by the Ag. Chief Engineer for Irrigation in para 2 of the foregoing note, is sanctioned.

4. The sanction accorded in G.O. No 859. I. dated 22d Septr 1897 is cancelled.

J.C.L.
Ag. S
29/9/98

F.E.I. 5.10.98

Flag G.

To The Chief Engr for Irrign
The Supg. Engineer - 3d Circle with encls.
" Exr of P.W Accts

(H)

E. I. Form No. 1—500—14-5-95

Public Works (1898) Department.

CURRENT No. 8290.

7731

Order

From
The Chief Engineer
for Irrigation

No. 250 I

Dated 29-9-98
Received
Registered } 5-10-98
Enclosures ~~16~~ 20 (10 plans)
Spare copies + 4 plans ~~and~~

Connected with Pattar
Cuddapah Tank
removed &
taken
MA
17/10/98

SUBJECT.

Excavating a spring channel from the Penner River to irrigate the lands of Hussainpuram village — Estimate of Rs 9,000 for — Note recommending with remarks for sanction the —

drainage on the map,

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

Public Works (1898) Department.

CURRENT No. 8 A.N.

Urgent

From
The Supdg Engineer
III Circle
Bellary

No. 2316 I.

Dated 21-9-98.
Received } 23 Sept 98
Registered
Enclosures 16. ✓
Spare copies

Order E.I. for orders.
23/9

See remarks on para 3 of letter,
which may be embodied in E.I.'s note
with reference to para 3 of this
office 7 AN of 12/9
estimate for sanction
JCL
26/9

SUBJECT.

Hussenapuram Channel —

Returning with certain remarks plans & Estimates for the —

To D.E.I. with papers

23/9/98.

23/9/98

drainage on the map,

BACK PAPERS.		FURTHER PAPERS.	
No.	Date.	No.	Date.
		I 250 I	d/29-9-98
27 A.N.	12-9-98		
R69BL	12-9-98		
R6AN	27-8-98		

7

CHIEF ENGINEER
FOR IRRIGATION.
23 SEP 1898
No. 8 A.N.

Letter from H. E. Clerk Esqr., Executive Engineer, Bellary Division, No. 7010 dated 17 September 1898 to the Supdg. Engineer, III Circle, Bellary

With reference to your endorsement No. 2259 dated 16th September 1898, on Memo No. $\frac{III}{7AN}$ dated 12th Idem from Chief Engineer for Irrigation, I have the honour to return the estimate for the Hussainpuram channel with the following remarks.–

2. The line for the channel adopted passes over flat or nearly flat ground and any cross drainage reaching it will be diverted by the spoil banks. If it were taken further east it would pass through rapidly sloping side long ground and would unless a superpassage were constructed silt up. This portion of the work has been started and a great deal is done. It is therefore impossible to alter it.

3. The question of the channel in the bed of the river has been carefully considered by me. The Collector of Anantapur stated that the ryots could not be expected to excavate this portion of the channel. My own opinion is that they should do so, but as the Board of Revenue are apparently most anxious for this channel to be constructed I included the leading channel in the estimate. It has not yet been

This is in accordance with this view the est can be sent for sanction
JEL
29/9

drainage on the map

been commenced and if the Chief Engineer for Irrigation wishes he can strike it out. I think it doubtful in this case if the work will ever be done.

4. The spring level of course varies at different times of the year. The trial pits were dug in February. Water level is lowest in June or July. I consider the level selected the most suitable one.

Accepted

No. 2376 I. D/ 21-9-98.

Forewarded to the Chief Engineer for Irrigation for favour of orders, in reference to his No. $\frac{III}{7AN}$ of 12th September 1898.

2. In the opinion of the undersigned the plans and estimates should be sanctioned as originally sent in.

3. If the work of excavating the channel in the river bed be left to the ryots, it will not be done at all, and the whole of the money spent on the work will be wasted.

4. The ryots have given an agreement in writing to maintain the leading channel, as well as the rest of the channel, and this should be considered sufficient.

W. Baildon Lieut. Col. R.E.
Supdg: Engineer, III Circle.

20.9.98.

Enclosures -
4. Levels (Drawings)
2. plans of masonry work
1. Report
1. Data Sheet.
5 Sheets of Calculations
1 Detailed Estimate.
1. Abstract do.
1. Copy of Collector's letter No. 15 D/12-8-98
16.

+ (Sent by book post.)

drainage on the map

[illegible] end of the [illegible]

[illegible] should be [illegible] the [illegible]

be [illegible]

The spring level of [illegible] varies at different times of the year. The [illegible] [illegible] in February. [illegible] [illegible] [illegible] consider the level [illegible] the most suitable one.

Forwarded to the Chief Engineer Irrigation for orders as referred to [illegible] of 12 September 1898.

In the opinion of the undersigned the [illegible] should be [illegible] as [illegible]

If the [illegible] the [illegible] be left to the [illegible] it would not be [illegible] the [illegible] of the [illegible] would be [illegible].

The [illegible] [illegible] the leading channel [illegible] [illegible] of the channel [illegible] should be [illegible]

Ows'/8290/58

Public Works (1898) Department.

IRRIGATION BRANCH.

III

ISSUE No. 7. A.d

To

The Supg Engineer, 3rd Circle

(Reply to letter No. , dated)

Dated 12-9-98

Despatched 12-9-98

Enclosures * 21

* Particulars of Enclosures.

2 Sheets of Village Survey maps showing proposed chl
4. Tracings of levels of chl
2 Sheets of plans of masonry works
1 Report
1 Data book
5 Cal. sheets
4 sheets of Estd
1 Gl abstract
1 Copy of Collector's letter

SUBJECT.

Excavating a Spring Channel from the Penner River to irrigate the lands of Hussampuram village.

Returned for reconsideration of the S.E. the estd for — with reference to certain remarks

Indexed

in fact

the map

BACK PAPERS.

No.	Date.
6 A.N.	27-8-98

FURTHER PAPERS.

No.	Date.
69 B.E.	10-9-98
8 A.N.	21-9-98

Sent to Government with No. I., dated 189 .

Printed with G.O., No. I., dated 189 .

REMINDERS ISSUED.

No. 1, dated 189 .
„ 2 „
„ 3 „
„ 4 „
„ 5 „

KEEP-WITHS.

---

1. [illegible] fair copy for D.E.'s signature
NCB 12/9/98

Es U.

III

Memo No 7 A.N. d/ 12-9-98

The undersigned has the honour to return herewith for the reconsideration of the Superintending Eng., III Circle, the Estimate forwarded with his letter, No. 1943, d/ 27 Augt /98, with reference to the following remarks:—

(2) The reasons given in the report for not adopting the alternative line appear by no means sound.

It is only a little East of the line Estimated for & there cannot be much more cross drainage in one case than the other, in fact the only cross drainage on the map, crosses both lines.

The first 3600 (3) feet of channel are in the bed of the river & work of this kind is never done by the Dept & should not be included in the estimate.

Further from the (4) report it would appear that the channel has been placed 2.64 (say 2 feet) lower than is really necessary as water flowed profusely at level 89.64.

12/9/98

To The Supdg Engr
III Circle

CES 12/9/98

Ow E. 15
8290/98

C.E.S.
30-8-98

Public Works (1898) Department.

CURRENT No. 6 AR

Urgent

From The Suptg: Engineer
III Circle
Bellary

No. 1943.

Dated 27-8-98

Received

Registered 29 — Do

Enclosures 2 (8 plans)

Spare copies

Order

CEs to check

30/8/98

The estimates have been checked

1/IX/98

1-9-98

Recd
2-9-98

SUBJECT.

Spring channel from the Pennar River —

Submitting for sanction of Govt: plans & estimates for making a

D.E.S.

CES
27/8/98

2916

29-8-98

BACK PAPERS.

No.	Date.
I 1 AN	26-1-98
I 5 AN	5-3-97
R 5 AN	14-7-98
I 6 AN	5-7-98

FURTHER PAPERS.

No.	Date.
R 69 BL	10-9-98
R 8 AN	11-9-98

CHIEF ENGINEER
FOR IRRIGATION.
23 SEP 1898
No. $\frac{15}{8\ A.N}$

Report to Accompany estimate for Excavating a Channel from the Pennair river to irrigate the lands of Hussainpuram village in Tadpatri Taluq - Anantapur District.—

Amount of Estimate Rs 9000-

Origin of the Project.—

The Project Originated during the late famine, from a petition presented by the villagers of Hussainpuram to the Collector of Anantapur, praying for the excavation of a Channel from the Pennair river by famine labour to irrigate a certain extent of their lands.

This petition was forwarded for investigation & Report by the Chief Engineer for Irrigation through the Superintending Engineer (vide Superintending Engineer's endorsement No $\frac{4468}{12.3.97}$ on Chief Engineer for Irrigation No $\frac{60\ Am}{5.3.97}$.)

I 5 AN/97
flagged L

Accordingly, a rough estimate for Rs 6200- was Submitted to the Superintending Engineer with this Office No $\frac{3541}{7.6.97}$ for Sanction as a relief work. The Superintending Engineer in his No $\frac{1600}{12.6.97}$ Ordered that the work may be put in hand as a relief work if the Collector Approves and

Subsequently

Subsequently the estimate was sanctioned by Government as a famine relief work in their Ro. $\frac{589 I}{22.9.97}$, with certain remarks as to finding a better position for the off-take. The work however was not started as a relief work, as the necessity for it having ceased.

Alignment of the Channel.

This estimate has been prepared on fresh levels taken subsequently. The present alignment of the channel which is shewn by pencil hatched line on Survey, is the best that can be adopted. The line is taken in heavy cutting between 8100 and 13800 (See L.S.) An alternative line was run between these two points on lower ground; although this results in a saving of about Rs. 1100 in Earthwork yet owing to the numerous drainages that cross this line, the cost of masonry works for passing the drainage across the channel would render it the more expensive of the two.

this does not seem to be the case judging by the Survey; the alternative line is only a little to the east of the other. 8/8/28

Head and Off-take —

The head of channel now selected is the best that can be adopted under existing circumstances.

Although

Although the leading channel is taken in heavy excavation, yet to start it from a lower level, would mean extra length of channel, besides being subjected to silting up for the least fresh in the river, and interfering with the existing channels, and the ryots who have given a written agree:ment to maintain the leading channel as well as the rest of the channel are in favor of the site. When a trial pit was sunk at the head, water began to flow profusely at a level of + 89.64 the bed of channel at the head has however been kept + 87.00 or 2.64 ft. lower.

the first 3600 feet of the Chl being in the river and will shoal up the first fresh.

why? no apparent reason

Length of Channel and Extent of Irrigation

The total length of the channel is 3 miles 3 furlongs and 33 yards of which 3600 ft is in the river bed. It is designed to irrigate 200 acres, (all below the L. F. road) the figure given by the Tahsildar. To irrigate this area allowing 35 acres per cusec a discharge of 5½ cusecs will be required. The channel as proposed viz 3 ft. bottom width, depth of flow 1½ ft side slope 1½ to 1 and bed fall 1 in 3000 will discharge 6.25 cusecs.

$\frac{200}{35} = 5\frac{5}{7}$ cfs. required

Levels

Branch Channel

Levels were taken for a branch channel from 16375 on L. S. parallel to the L. Ft. road. with the object of irrigating the lands to the North east of the road, but it was subsequently found that the soil is very poor and what little good land there is will have to be lowered to the level of channel, Hence no provision has been made in the Estimate.

Masonry works

Four masonry works are required for the proposed channel. The first is a culvert at 3600 ft to convey the channel under a field drainage that crosses the line (vide Plan in Sheet No 1) the second a syphon at 7800' to convey the channel under a stream draining about half a sq: mile of country (vide plan in Sheet No 1) and two road culverts one at 13500' for conveying a cart track and the other at 16375 ft for conveying the L. Ft. road over the channel.

Financial prospects

The Amount of the present Estimate is Rs 9000. to which if the cost of supervision and tools and plant at 25 % are

are

are added, it will raise the Estimate to Rs 11,250, and the expected revenue is Rs 1000 at 5 Rs an Acre, or a return of 8.8 per cent on the Outlay.

The villagers are ~~urging~~ very anxious ~~much~~ for the channel, and as there is a practical certainty of the channel bearing interest on the money which would be spent on it, the work is strongly recommended.

Executive Engineer
Bellary Division

CHIEF ENGINEER
FOR IRRIGATION.
29 AUG. 1898
6ar

12

O.5.3 / 8290 (88)

No. 1943

Superintending Engineer's Office,
3RD CIRCLE,
Bellary 27th August 1898.

FROM
Lt. Col. W. L. C. Baddeley R.E. Esq.,
SUPERINTENDING ENGINEER,
IIIRD CIRCLE,
BELLARY.

To
THE Chief Engineer
for Irrigation
Madras

Enclosures.

2. Sheets village Survey maps showing proposed channel.
4. Tracings of Levels of channel. + Flagged
2. Sheets of Plans of masonry works. R.
1. Report.
1. Data list.
5. Calculation sheets
4. Sheets of Detail Estimate
1. General Abstract
1. Copy of Collector's letter,

21

All the enclosures except the Cartons sent by book post.

Sir,

With reference to your Memorandum No. $\frac{\overset{X}{III}}{I.A.N}$ dated 26th January 1898, I have the honour to submit herewith plans and Estimate amounting to Rs. 9000, for making a Spring channel, from the Penner River, to cultivate the lands of Hussainapuram, and request that you will be good enough to obtain very early Sanction of Government, and an allotment for the same.

2. The Collector of Anantapur in his letter Ref: on F. C. No. 158 dated 12th August 1898 to the address of the Executive Engineer, Bellary Division (Copy enclosed) requested that the work should be started at once to give employment to the labouring classes; and accordingly I directed the Executive Engineer to commence work (Departmentally) in anticipation of Sanction to the Estimate.

3. I have since been informed by the Assistant Engineer, Anantapur that large numbers of labourers are coming to the work, about four hundred.

4. I may mention that it

will

will be impossible to pay these persons individually or daily, as there is no Establishment to do so.

5. The rates also are the ordinary P. W. D. rates; and if the labourers are unskilled, the Estimate will be largely exceeded.

they should be put on piece work

I have the honour to be,

Sir,

Your most obedt. Servt.

Wm Baddeley

Lt: Col. R.E.

Supg Engineer

III Circle.

B.S. 26/8

From

The Superintending Engineer,
IIIrd Circle,
Bellary.

To

The

Dated
Received } 189

Enclosures.

No.

Subject.

ENGINEER
ATION.
29 AUG 1898
6 an

025.20 / 8238(28)