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(2) Date of repair 14-2-44

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.**Government of Madras.***Public Works* **DEPARTMENT.**

G.O. No. 434	Press ~~Mrs.~~
282-83	
Dated 11-2-	18 7/.

Not to be folded or roughly handled*Gl*

*Proceedings of the Madras Government, Public Works Department,
11th February 1871.*

No. 282. Read the following letter from the Superintending Engineer, 3rd Division, to the Secretary to Government, Public Works Department, dated Bellary, 28th December 1870, No. 1,997.—

With reference to G. O., No. 2,921, of 6th September 1869, and paragraph 7 of the Collector's letter, I have the honour to submit extract of a letter from the Executive Engineer, Kurnool Range, regarding the Dhone project, and another close by it, and, in order to investigate the former, request sanction for the under-mentioned establishment —

	RS.
1 Surveyor, at Rupees 150 per mensem .	900
1 Head Lascar, at Rupees 7 „ .	42
2 Lascars, at Rupees 6 „ .	72
3 Coolies at Rupees 6 for, say, 4 months . .	72
Contingencies, such as bamboos, stones for bench-marks, etc., etc.	54
	1,140

2. Of this amount about Rupees 340 would be required in the current year, and might be met from "Agricultural Minor New Works."

Extract from a letter from the Executive Engineer, Kurnool Range, to the Superintending Engineer, 3rd Division, dated 21st October 1870, No 24.

I HAVE the honour to reply to your dockets, Nos 1,806 and 2, '60, dated 10th September and 18th October 1869, respecting the Dhone and other Irrigation projects

2 I have examined the Dhone project, and I think that a good tank can be constructed in that valley I am not certain that the site selected for the bund is the best one. As a site for a bund it is very favourable, but the valley above it rises so rapidly that to store any considerable quantity of water a very high bund should be constructed. Nothing definite, however, can be known about it until a survey is made.

3 Before applying for a Surveyor you wish to get some information about the probable cost and revenue. In the Proceedings of the Madras Government, No 2,921, dated 6th September 1869, the Collector states (paragraph 7) that the cost would be 15,000 Rupees, that 500 acres could be irrigated; and that the return would be 14 per cent.

This would be a return of 2,100 Rupees, or about 4 Rupees an acre of water rate on 500 acres

I would consider this a very small result for the Dhone project. If anything is done there, the principle, I think, should be to make the most of the water available. The catchment basin is about 84 square miles, or 260 millions of square yards, and is hilly throughout. The rain-fall, so far as I can make it out, is about 30 inches per year. There are only two small tanks within the basin, and they could interfere but slightly with the supply of water to the Dhone site

If we suppose that 9 inches in depth over the catchment basin could be conserved during the year, the quantity would be over 65 millions of cubic yards, which, at 10,000 cubic yards per acre for one crop, would represent the irrigation of 6,504 acres, or two crops of 3,252 acres.

4 The next question is, is there land enough available for irrigation below the site of the tank. The Tahsildar informed me that there are over 2,000 acres of good land available, and this seems to be a small quantity, considering that the stream below the site runs about 20 miles before it reaches the Hindry river, an average of only 400 yards in width would give nearly 3,000 acres

5. I consider that a revenue of at least 10,000 Rupees should be obtained from any tank made at Dhone, and, taking the Collector's estimate of 14 per cent, the probable cost which might be incurred would be 71,428 Rupees.

*Proceedings of the Madras Government, Public Works Department,
11th February 1871.*

This is all very crude, but it will probably be sufficient to show that the site is worth surveying

6 I have examined another site near Dhone, where a good tank could be made. It is on the stream which joins the Dhone river about 2½ miles north of the latter village. About 1½ miles above the junction of the streams there is a favourable site for a low short bund

This site, too, should be surveyed; the catchment basin is 6,775 square miles, or 209,862,400 square yards.

There is only one tank (Vapadina) within its limits.

7. When I was at Jelladurgam I looked for a site for a large tank, but saw no favourable place in so much of the valley as I examined. Any where in that valley a tank could be constructed, but so far as I saw, the bund would be costly in proportion to the quantity of water stored. I shall examine the place carefully when I return there.

8 Besides these there are several other places where I have no doubt new tanks could be constructed advantageously, and also many existing tanks which can be enlarged. Indeed, the opinion I have formed from what I have seen already of this range, is that with a very moderate expenditure skilfully applied the area of irrigated land could be doubled.

(True Extract)

BELLARY,
28th December 1870.

(Signed) A. S. MOBERLY, Lieut.-Col., R.E.,
Supg. Engineer, 3rd Division.

No. 283. ORDER THEREON, 11th February 1871, No. 434.

IRRIGATION, No. 9.

THE Government sanction the entertainment of a temporary establishment of the strength mentioned in this letter

from the Superintending Engineer of the 3rd Division, for the investigation of Irrigation projects in the Kurnool Range of the Kurnool District. The investigations will include the restoration of existing works to the most efficient condition of which they are capable, and the examination of favourable sites for new works.

2. The Government do not consider, with reference to the salaries paid to Surveyors in adjacent districts, that Rupees 150 a month are necessary to secure the services of a competent Surveyor in Kurnool. Rupees 100 therefore should be taken as the maximum salary admissible, and the sanction for six months will then amount to Rupees 840.

3. An application for the retention of this establishment for a further period should, if necessary, be made through the Chief Engineer for Irrigation, to whom reports of the progress made, and of the results arrived at, should be submitted.

4. The cost of the establishment will be met from the provision for Temporary Establishments.

(True Extract)

Colonel, R.E.,

Secretary to Government.

To the Superintending Engineer, 3rd Division.

„ Controller of Public Works Accounts

„ Chief Engineer for Irrigation.

Exd S. T. Augustin.

Extract from a Letter from the Executive Engineer, Kurnool Range, to the Superintending Engineer 3rd Division dated 21st October 1870 No. 264.

I have the honor to reply to your Dockets Nos 1806 and 2160 dated 10th September and 18th October 1867, respecting the Dhone and other Irrigation projects.

2 I have examined the Dhone project, and I think that a good tank can be constructed in that valley. I am not certain that the site selected for the bund is the best one. As a site for a bund it is very favorable, but the valley above it rises so rapidly that to store any considerable quantity of water, a very high bund should be constructed - Nothing definite, however can be known about it until a survey is made

3. Before applying for a Surveyor, you wish to get some information about the probable cost and revenue.

In

In the proceedings of the Madras Government, No. 2921 dated 6 September 1869, the Collector states (para. 7) that the cost would be 15,000 Rupees; that 500 acres could be irrigated, and that the return would be 14 per cent.

This would be a return of 2100 Rupees, or about 4 Rupees an acre of water rate on 500 acres:—

I would consider this a very small result for the Dhone project. If anything is done there, the principle I think should be to make the most of the water available. The Catchment basin is about $8\frac{1}{4}$ square miles, or 260 millions of square yards, and is hilly throughout. The rain fall so far as I can make it out is about 30 inches per year. There are only two small tanks within the basin and they could interfere but slightly with the supply of water to the Dhone site.

If we suppose that 9 inches

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per depth over the Catchment basin could be conserved during the year the quantity would be over 65 millions of cubic yards, which at 10 thousand cubic yards per acre for one crop, would represent the irrigation of $65\frac{1}{4}$ acres, or two crops of 3252 acres.

4 The next question is, is there land enough available for irrigation below the site of the Tank. The Sahibdar informed me that there are over 2000 acres of good land available, and this seems to be a small quantity, considering that the stream below the site runs about 20 miles before it reaches the Hendri River. an average of only 400 yards in width would give nearly 3000 acres.

5 I consider that a revenue of at least 10000 Rupees should be obtained from any tank made at Dhone; and taking the Collector's estimate of 14 per cent, the probable cost which might be incurred would

would be 71428 Rupees:-

This is all very crude, but it will probably be sufficient to show that the site is worth surveying.

6. I have examined another site near Dhone, where a good tank could be made. It is on the stream which joins the Dhona river about $2\frac{1}{2}$ miles north of the latter village - about $1\frac{1}{2}$ miles above the junction of the streams, there is a favorable site for a low short bund.

This site too, should be surveyed; the Catchment basin is $6\frac{1}{2} \times 7\frac{1}{2}$ square miles or 209862400 square yards:-

There is only one Tank (Kupactinna) within its limits.

7. When I was at Jellaturgum, I looked for a site for a large Tank, but saw no favorable place in so much of the valley as I ex-

- amined

- amined. Any where in that valley a Tank could be constructed; but so far as I saw, the limit would be costly in proportion to the quantity of water stored. I shall examine the place carefully when I return there.

Besides these there are several other places where I have no doubt new tanks could be constructed advantageously; and also many existing tanks which can be enlarged. Indeed the opinion I have formed from what I have seen already of this Range, is that with a very moderate expenditure skilfully applied, the area of irrigated land could be doubled

Bellary
Dec^r
1870

"True Extract."
A. H. B. & J. B. B.
Supy. Engineer 3^d Div.

No. 1997

Superintending Engineer's Office.

3rd Division.

Camp Pellang, Talook
 District.

The 28th December 1870.

From,

The Superintending Engineer

3rd Division.

To,

The Secretary to Government

Public Works Department

Fort Saint George.

Sir,

With reference to G. O. No. 2921
of 6th September 1869 and para 7 of the
Collector's Letter, I have the honor
to submit Extract of a letter from
the Executive Engineer, Rurnool Range
regarding the Phoné project and
another close by it and in order to
investigate the former request sanction
for the undermentioned Establishment.

Enclosures.

3rd Division

Enclosure to Chief
Engineer's Letter No 1997
of 28th December 1870

1870/3

One Surveyor @ Rs 150 per m. Rs. 900
 One Head Lascar @ Rs. 7-4 42
 Two Lascars @ 6-4 72
 Three Cooks @ 6-4 72
 for 4 months } 72

Contingencies, such as Bannians
 Stones for Bench marks &c } 54

Total Rs. 1140.

2. Of this amount about Rs 340
 would be required in the Current Year
 and might be met from "Agricultural
 Minor New Works"

I have the honor, Sir,

Sir,

Your most Obedient Servant.

W. Webb Esq. Lieut Col R.E.

Superintending Engineer 3rd Div.

No. 434 P. H. D. 6
 Proceedings of the Madras Experiment
 Read the following
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 From
 The Chief Engineer
 S. D. } (H. E. No. 1997 / 28 Dec 1907)

The Government
 sanction the entertain-
 ment of a temporary
 establishment of the
 strength mentioned in
 this letter from the
 Superintending Engineer
 of the S. D. S., for the
 investigation of irrigation
 projects in the Tummal
 Range of the Tummal
 District. The investigation
 will include the restoration
 of existing works to the
 most

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To,
 The Secretary to Government,
 Public Works Department,
 Fort Saint George.
 From,
 The Superintending Engineer,
 3rd Division.

Dated 28 December 1897.
 Received 1 January 1898.

Encl. 1/1

Requesting the Secretary
 of the Public Works Department
 to sanction the establishment of the
 investigation of the
 Tummal projects, Tummal
 District.

No 282

23/1/1898

most efficient condition of which they are capable and the examination of favorable sites for new works.

The Govt. do not consider with reference to the salaries paid to Surveyors in adjacent districts that Rs. 150 a month are necessary to secure the services of a competent Surveyor in Kurnool. Rs. 100 therefore should be taken as the

maximum salary admissible, and the sanction for six months will then amount to Rs. 840.

An application for the retention of this establishment for a further period should, if necessary, be made through the Chief Eng^r for Irrigation, to whom reports of the progress made, and of the results arrived at, should be submitted.

The

The cost of the
establishment will
be met ~~as proposed~~ from the provision
for Temporary Establishments -
~~by the budget~~

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5- Cooks
3 Chief Eng for Dr
Desp: 17/2/71

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Govt of 1871 Madras.

PUBLIC WORKS/8-

To *The Superintending Engr*
3rd Division

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Date

Re L.

Re L.

G. O. *11 Feb 1871*, No. *434*

Nos. *282 & 283*

Irrigation Projects in The Kurnool

Range. The establishment
of a temporary establishment
for the investigation of Irriga-
tion Projects in The Kurnool
Range, sanctioned with re-
marks.