

Handwritten notes in the top right corner:
Handwritten: 15
Handwritten: 7
Handwritten: ~~Handwritten signature~~

Handwritten: No. 23799/Handwritten/Handwritten 17.11.1913

Handwritten signature with a diagonal line through it.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ—the following papers:—

From G. E. MANSON, Esq., Executive Engineer, Salem Division, to the Superintending Engineer, IV Circle, dated Salem, 3rd October 1893, No. 428 S.E.

[Reference.—Your No. 435 S.L., dated 29th October 1892, No. 109 S.L., dated 23rd April 1893 and reminder, dated 14th August 1893].

In reply to your No. 435 S.L., dated 29th October 1892, I have the honour to report that no observations of water-supply of Swathanadi for the proposed Gudumalai reservoir appear to have been taken, and no papers bearing on the project nor water registers have been found among the thirty-four boxes of old records recently examined.

2. There is, however, no doubt that the water-supply is good. The inhabitants state that the rainfall and the river supply in this Swathanadi valley are better than in the valley of the Varistamadi at Atur. I send herewith map of Atur taluk on which I have shown the site of the proposed reservoir and have entered the average yearly rainfall at Atur, taken from observations maintained since 1878-79 for the last fourteen years, and average monthly rainfall for the same period, *viz.*, up to the end of 1892-93.

3. These figures are, as stated above, rather below than above the mark for Gudumalai. The monthly distribution of rainfall at Gudumalai will correspond pretty exactly with that at Atur. The catchment area has been carefully measured and is 142 square miles.

4. I presume the reservoir to be intended to supply both direct irrigation and tanks. From what I saw of the country there are 10,000 acres which can be supplied direct in addition to the lands already irrigated by the Imperial tanks Nos. 102, 103 and 104 (marked by me on the map), which tanks are already supplied by the Swathanadi.

5. These tanks should not be abandoned as they can hold 3 to 4 months' supply. They have some catchment area of their own and can be filled by the surplus from the proposed reservoir in flood seasons. Every means of storage in this district is particularly precious owing to the capricious nature of the monthly rainfall albeit the yearly averages are fairly equal. Their combined ayacut amounts to 1,401 acres yielding revenue Rs. 11,039.

6. The position of the site for the proposed reservoir has been apparently misunderstood, as tanks 93 to 99 are rain-fed tanks lying far away north beyond the scope of this project and are not connected with it.

7. In the proposition statement I allow for liberal lengths of cross sections of the valley to determine the extent of lands that will be commanded.

8. I have allowed no specific lines of levels for determining what extent of road deviation is to be provided for, as, from the levels that are allowed for, this can easily be ascertained. If any further levels should be needed with reference to the road, these can be taken by the taluk overseer, Atur.

ENCLOSURE.

STATEMENT of proposal for revision of establishment to accompany letter No. 428 S.E., dated 3rd October 1893.

Order sanctioning present establishment.		Office to which the proposal relates.	Nature of change.										Proposed.										Remarks.
			Present scale.					Proposed scale.					Permanent.					Temporary.					
			Designation.		Mini. ment.	Incre. ment.	Maxi. ment.	Aver. age or fixed.	No.	Designation.		Mini. ment.	Incre. ment.	Maxi. ment.	Aver. age or fixed.	No.	Amount.		Increase per month.	Decrease per month.	Amount.	Period.	
No.	Date.	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		
									1	Surveyor	..	..	..	..	..	..	..	..	..	..	..	Surveyor will be engaged in survey for three months and two months in plotting (Gudumalai reservoir in Salem district).	
									6	Lascars	..	..	..	..	..	..	..	..	..	..	..		
									..	One surveyor for five months.	..	..	..	..	..	..	..	..	..	..	..		
									..	Six lascars for three months.	..	..	..	..	..	..	..	..	..	..	..		
									..	Total	..	..	..	..	..	..	..	..	..	..	..		

No. 266 E.I.

Copy forwarded to the Chief Engineer for Irrigation with a request that sanction may be accorded to the enclosed proposition statement for surveyor. The Executive Engineer has been directed to put up a gauge at or near site of proposed dam and to have a continuous record of readings kept for the future. The area now irrigated by tanks and directly from river below Gudumalai is 1,901 acres. The project is one well worth complete investigation.

(Signed)

A. W. SMART, Lieut.-Col., R.E.,
Superintending Engineer, IV Circle.

5th October 1893.

No. 53 E.W.

With the above endorsement the Superintending Engineer, IV Circle, forwards a proposition statement for the entertainment of a surveyor for 5 months for the investigation of the Gudumalai reservoir project in the Salem district. This project has been contemplated for many years past, and a reference to an anicut at the site of the proposed reservoir is to be found in Proceedings of the Madras Government, dated 11th August 1869, No. 2642. Although fears might have been entertained by the Gangavelly ryots that the construction of an anicut for the supply of Kistnapuram lands would prejudice the supply to their village lands, no such objection can be raised to the construction of a reservoir to pound up the surplus waters of the Swathanadi. The results would be, so far from prejudicial to the Gangavelly ryots, distinctly in their favour, to say nothing of the additional advantages derivable from the construction of the reservoir as a perennial means of supply and as a flood moderator to some extent on the floods in the Vellaur, of which the Swathanadi is an affluent. The project is a promising one and I would therefore recommend the sanction of the establishment for its investigation.

MADRAS, (Signed) R. R. E. DRAKE-BROCKMAN, Lt.-Col., R.E.,
16th Oct. 1893. Chief Engineer for Irrigation.

To the Chief Engineer, Public Works Department.

No. 3515 C.

MEMORANDUM.

With reference to his endorsement No. 266 I., dated 5th October 1893, addressed to the Chief Engineer for Irrigation, the Superintending Engineer, IV Circle, is requested to be so good as to state whether the survey lascars required in connection with the investigation of the Gudumalai reservoir project in the Salem district are to be paid by the day as coolies or by the month.

(Signed) J. HANNAN,
Ag. Chief Engineer, P.W.D.

31st October 1893.

To the Superintending Engineer, IV Circle.

From Lieut.-Colonel A.W. SMART, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated 1st November 1893, No. 433 W.

Adverting to your memo. No. 3515 C., dated 31st October 1893, I have the honour to inform you that the survey lascars required in connection with the investigation of the Gudumalai reservoir project will be paid by the month. I request you will be good enough to expunge the item from the proposition statement submitted with this office No. 266 E.I., dated 15th ultimo, as the same will be sanctioned by me and charged to "Works."

ORDER—dated 17th November 1893, No. 2979 W., Public Works.

With the first of the papers recorded above, the Superintending Engineer, IV Circle, submits a proposition statement for the survey establishment required for the investigation of the Gudumalai reservoir project in the Salem district. The lascars applied for by the Executive Engineer but struck out of the statement are restored, as the Superintending Engineer reports that they are to be paid by the month and as they are therefore chargeable to "Establishment." The statement, as thus amended, is sanctioned.

2. This sanction has been registered as Provincial No. 53 W. of 1893-94 and classified as Establishment, Temporary.

(True Extract.)

(Signed) J. PENNYCUICK, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, IV Circle, with four enclosures.
" Examiner, Public Works Accounts.
" Chief Engineer for Irrigation.
" Revenue Department.

2979
28

GENERAL.
ESTABLISHMENT.

Govt. of {1893} Madras.
PUBLIC WORKS.

Dated November, 17th.

Recd.

Encl.

G.O., 17th Nov. 1893, No. 2979 W.

NOVEMBER.

Gudumalai Reservoir Project

Certain survey establishment required in connection with the — in Salem district, sanctioned.

No 4285.L.
From

Executive Eng^r of the
Salem 3 October 1893.
G. E. Marrison Esq.
Executive Engineer
Salem D^y

To P-1

The Super^r Engineer
4 Circle, Coimbatore.

Encls: 5

Ref. your Nos $\frac{4358.L}{29-10-92}$ $\frac{1098.L}{23-4-93}$ and

Reminder dated 14-8-93.

Sir,

In reply to your No $\frac{4358.L}{29-10-92}$

I have the honor to report that no observations of water supply of Suvathanadi for the proposed Gudumalai Reservoir appear to have been taken and no papers bearing on the Project nor water registers have been found among the 34 boxes of old records recently examined.

2. There is however no doubt that the water supply is good.
The

- 1 Map of the lake
- 1 tracing sketch of portion of Suvathanadi Valley in showing the proposed Gudumalai Reservoir site.
- 1 Statement of miles to be travelled
- 1 Propositions for the required survey establishment.
- 1 Report

The inhabitants state that the rainfall and the river supply in this Sura thanadi valley are better than in the valley of the Vasishtanadi at Atur. I send herewith map of Atur Taluk on which I have shown the site of the proposed reservoir and have entered the average yearly rainfall at Atur, taken from observations maintained since 1878-1879 for the last fourteen years and average monthly rainfall for the same period i.e. up to the end of 1872-73.

3. These figures are as stated above rather below than above the mark for Gudumalai. The monthly distribution of rainfall at Gudumalai will correspond pretty exactly with that

that at Atur. The catchment area has been carefully measured and is 142 sq. miles.

BRN ✓ 4. I presume the reservoir to be intended to supply both direct irrigation and tanks. From what I saw of the country there are 10,000 acres which can be supplied direct in addition to the lands already irrigated by the Imperial tanks Nos 102, 103 & 104 (marked by me on the map) which tanks are already supplied by the Sura thanadi.

5. These tanks should not be abandoned as they can hold 3 to 4 months supply. They have some catchment area of their own, and can be filled by the surplus from the proposed reservoir in flood seasons.

Every

Every means of storage in this District is particularly precious owing to the capricious nature of the monthly rain fall altho the yearly averages are fairly equal. Their combined present amount is to 1401 acres yielding revenue \$11039.

6. The position of the site for the proposed reservoir has been apparently misunderstood as tanks 93 to 99 are rain-fed tanks lying far away north beyond the scope of this project are not connected with it.

7. In the proposition statement I allow for liberal lengths of cross sections of the valley to determine the extent of lands that will be commanded.

8. I have allowed no specific lines of levels for determining

mining what extent of ^{road} denudation is to be provided for, as from the levels that are allowed for, this can easily be ascertained. If any further levels should be needed with reference to the road, these can be taken by the Lake Overseer after.

I have H. H.

Sig. E. L. Manson
Executive Engineer

No 266 of 5th October 1893
E. L.

Copy forwarded to the Chief Engineer for Irrigation with a request that sanction may be accorded to the ^{enclosed} Proposition & statement for Surveyor. The Executive Engineer has been directed to put up a gauge at

Enclos: 5
1 Map of the lake
1 Tracing
1 Statement of miles to be levelled
1 Proposition
1 Statement
1 Report
5

* Sent Per Packet Paks

near site of proposed dam
and to have a continuous re-
cord of readings kept for the
future. The area now irrigated
by tanks and directly from river
below Gudumalai is 1901 acres.
The project is one well worth the
complete investigation.

Carlman

Lt. Col. R.E.

Superintending Engineer 47

M.

2872
A

Forward Plans ^{of} ~~of~~
Showing the — & Requests
Sanction for a Surveyor for
5 months as the project is
well worth complete investigation.

dated

931

NOTES.

REFERENCE TO MADRAS P. W. D. CODE,
EDITION OF 1886.

PARAS. 25 & 26.

1. The column headed "present scale" should invariably show the sanctioned scale for the time being and not the strength of the actual (whether above or below sanctioned) establishment as it happens to stand at the time. The "present scale" should be verified by the examiner before the proposal is submitted to government for sanction (paras. 25 and 26).

2. In the column "average or fixed pay," financial value, not mean value, should be given.

3. The financial value should in the case of progressive appointments be calculated as follows:

(1) If the period of rise from minimum to maximum is 5 years, the average will be the minimum plus two-thirds, or if the appointment is a ministerial one, plus three-fourths, of the difference between the minimum and maximum (C. S. R., Art. 164).

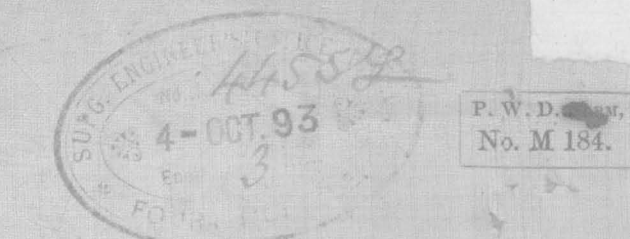
(2) If the period of growth exceeds five years (as in the case of accountants) the $\frac{1}{10}$ th fraction should be decreased by $\frac{1}{10}$ th of the difference for every year by which the period exceeds five; the fraction for periods in excess of five years will therefore be as follows:—

$$6 \text{ years} = \frac{2}{3} - \frac{1}{10} = \frac{19}{15}$$

$$7 \text{ years} = \frac{2}{3} - \frac{2}{10} = \frac{14}{15}$$

$$8 \text{ years} = \frac{2}{3} - \frac{3}{10} = \frac{11}{15}$$

and so on; so that when the period of growth is 20 years the financial value will be the exact mean.



PUBLIC WORKS DEPARTMENT, MADRAS.

Tabular Statement showing the proposed Changes in the Establishment of the P. W. Department, Madras Presidency.

The entries within under the head, "Present scale" have been checked and found correct [subject to exceptions noted below *].

Examiner of P. W. Accounts, Madras

* The words in brackets should be scored out when there are no exceptions to be noted.

Endorsement from the Supy. Engineer,
Fourth Circle, No 266 E. I. dated 5th
October 1893.

No 53 E.I.

With the above endorsement the
Superintending Engineer, Fourth Circle,
forwards a proposition statement
for the entertainment of a surveyor
for 5 months for the investigation
of the Gudumalai Reservoir Project
in the Salem District. This project
has been contemplated for many
years past, and a reference to an
avisat at the site of the proposed
reservoir is to be found in P.W.D.
dated "August 1869 No 2642. Although
fears might have been entertained
by the Gargansly ryots that the
construction of an avisat for
the supply of Kistva param lands
would prejudice the supply to
their

2873
10

their village lands, no such objection
can be raised to the construction
of a reservoir to pond up the
surplus waters of the Swathanadi.
The results would be so far from pre-
judicial to the Gangavelly ryots,
distinctly in their favor, to say
nothing of the additional advantages
derivable from the construction of
the reservoir as a perennial means
of supply, and as a flood moderator
to some extent on the floods in the
Tellam, of which the Swathanadi is
an affluent. The project is a promising
one and I would therefore recommend
the sanction of the establishment
for its investigation.

Ruedrak. Buchanan Esq. R.E.

Chief Engineer for Irrigation

Madras
16th October 1893

To, The Chief Engineer P.W.D.

20/10/93

P. W. CURRENT No. 8978
1893.

From

Alfred MacBrockman
 LIEUT. COL. R. E.,
 CHIEF ENGINEER FOR IRRIGATION,

To

THE Chief Engineer
 P. W. D.

No. 5384.

Dated 16-10-93

Despatched

Received 24-10-93

ENCLOSURES.

6 (2 Plans)

Subject.

Gudumalai Reservoir
 Project - Proposed state
 - ment for the entertainment
 of a Surveyor for the in-
 - vestigation of the - hole
 recommending with view
 for sanction the -

Public Works Department.

No. 3515 Cd/31-October 1893
 Memorandum

With reference to his
 endorsement No. 2663 dated 5th
 October 1893, addressed to the
 Chief Engineer for Irrigation, the
 Superintending Engineer II
 Circle is requested to be so good
 as to state whether the Survey
 hasars required in connection
 with the investigation of the
 Gudumalai Reservoir Project in
 the Salem District are to be paid
 by the day as coolies, or by the month.

DESPATCHED
 31 OCT 93

To

The Supy Engr. II Circle.

Ca
 Maj

N^o 433
W.

Supdg. Eng^r Office 4th fl.
1st November 1893.

From

Lt Col: A. W. Smart. R.E.
Superintending Engineer
4th Circle.

B-9 To

The Chief Engineer
P. W. Department.

Sir,

Adverting to your
memo N^o 3515 C dated 31st Oc-
tober 1893, I have the honor to
inform you that the Survey
bars required in connection
with the investigation of the
Gudumalai Reservoir pro-
-ject will be paid by the
month. I request you will be
good enough to expunge the
item from the proposition state-
-ment submitted with this office

The S.E. has mis-
understood the
case - only if
the men are
paid in the
day can they
be charged
to works.

By

N^o

No 3515 C d 31st October
1893

72 266 E. J. dated 15th ultimo, 3575 C.F. 31/12/83
as the same will be same-
tioned by me and charged
to "Work".

I have the honor to be

Sir,

Your Most Obedt. Servt

A. L. M. L. Col. R. E.

Superintendent Engineer
4th Circle

2878
125

From,

The Supg. Engineer
4 Tirulo

No. 3515 of 31-10-93.

" 2642 " 8-69

Dated 1st
Oct 3rd } October 1893.

No 433
W.

Enc. 0

Survey Lascars, Guduma
lai Project - Informs that
the — will be paid by the
month and requests to
expunge the item from the
proposition statement
Already Submitted -

No 2979 Wd 17 Nov 1893

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

From the S.E. IV Circle no: 26623 of 5th October 1893
Endorsed thereon by the Chief Engr. for Engr. no: 532 Wd 16th do -
From the S.E. IV Circle no: 433 Wd 1st November 1893

With the first of the
papers recorded above,
the Suptg. Engineer IV
Circle submits a proposi-
tion statement for the
survey establishment
required for the inves-
tigation of the Gudumalai
reservoir projects in the
Salun District. The
Lascars applied for by
the Executive Engineer
but struck out of the
statement are restored
as the Suptg. Engineer
reports that they are
to be paid by the month
and

2978
189

and as they are therefore
Chargeable to Establish-
ment. The Statement,
as thus amended, is
Sanctioned.

His Excellency the Governor
General in Council
proposed, See Genl.

2. This Sanction has been
registered as Provincial
No 534 of 1893-94 and
classified as Establish-
ment, Temporary.

No 2979. Wd/17 Nov 1893

5043
11-11-93
S 11-11

DESPATCHED
4 DEC 93

So

The S.E.W. Circle
with 4 Anglo.
.. Exer. P.W. Dept.
.. Chief Engr for Drugs
.. Rev. Dept.

26.18.91
Cm
Wd 24.2.13/PR 14/11

