

- (1) பக்கங்களின் எண்ணிக்கை 32
 (2) புதுக்கித் திருப்பிய நாள் 10/10/1992
 (3) ஆதாரக் குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

புதுச்சேரி

அரசாணை எண்.	2711/ய.	அச்சகம்
மு.கோப்புத் தாள் எண்.		பலவகை
நாள்:	24.10.1993.	199 ..

மடிக்கவோ கண்டபடி கையாள்வோ கூடாது.

24TH OCTOBER 1893, No. 2711 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ—the following papers:—

From Major A. W. SMART, R.E., Superintending Engineer, IV Circle, to the Chief Engineer for Irrigation, dated Coimbatore, 18th August 1893, No. 210 E.I.

With reference to your No. IV/22 C.I., dated 10th July 1893, and my No. 167 E.I., dated 27th June 1893, submitting a proposition statement for a surveyor to be employed on the Bhavani project, I have the honour to state that, after inspection of the ground, I find that it will be quite impossible for one surveyor to complete the work to be done in four months. Cross sections in the first twenty miles on account of the ground I have ordered to be taken at half mile intervals; after that at one mile intervals. It is proposed to level only down to the Korangapallam river instead of to the Noyel, as the area commanded down to the former is very considerably in excess of the 50,000 acres which are ever likely to be irrigated from the reservoir. The number of miles of cross sections to be done is with check lines about 730 including 112 miles on the north of the Bhavani. This alone will take 292 days at $2\frac{1}{2}$ miles a day, or including Sundays 332 days. After these levels have been completed, it will be necessary to level along the line that may be chosen for the channel, say another 80 miles. I am of opinion therefore that the levelling with one surveyor will take one year at least.

2. After the levels have been taken, I consider that a special officer should be put on the preparation of the plans and estimates. There are several very important points to be settled and which cannot be settled without a very close and careful examination of the ground. Among these may be enumerated—

(1) *Site of dam.*—I am not at all sure that it will not be found that the lower site is not after all better than the higher. The 6 miles of extra main channel from the higher site will pass through difficult ground, will be expensive and much of the land commanded is stoney and even rocky. The channel from the lower site will command better land, labour will be easier to procure and rates will be lower than at the higher site, which is besides said to be feverish.

(2) There is ample land commanded from the lower site and all the way down of a better quality than the high lands commanded from the upper site.

(3) A continuous trench, or at all events very frequent trial pits, must be cut along whichever site may be chosen for the dam.

(4) Location of quarries, &c., require careful examination of the ground.

(5) The alignment of main channel will require the utmost care as the ground is difficult and often rocky.

3. On these grounds and others of a minor kind, I consider that a special officer of considerable experience in irrigation should be employed on the work.

From the same officer, dated Coimbatore, 2nd September 1893, No. 226 E.I.

Adverting to your memorandum No. IV/27 C.I., dated 30th ultimo, I have the honour to forward, herewith, a proposition statement of survey establishment required for the investigation of Bhavani reservoir project, and to request you will be good enough to obtain the sanction of Government to the same in supersession of the one sanctioned in G.O., No. 1897 W., dated 21st July 1893.

No. 48 E.W.

Forwarded to the Chief Engineer, General, Buildings and Roads Branch, with a recommendation that the survey establishment asked for be sanctioned and that a special officer be deputed at an early date to thoroughly investigate the project.

2. Superintending Engineer's letter No. 210 E.I., dated 18th August 1893, is forwarded for perusal and favour of return.

MADRAS,
9th September 1893.

(Signed) F. W. ASHPITEL,
for Chief Engineer for Irrigation.

ORDER—dated 24th October 1893, No. 2711 W., Public Works.

The entertainment for twelve months of a surveyor on Rs. 115 * per mensem for investigations connected with the Bhavani reservoir project in the Coimbatore division is sanctioned.

* Includes Rs. 15, horse allowance.

2. This sanction has been registered as Provincial No. 47 W. of 1893-94 and classified as Establishment, Temporary. It supersedes the sanction given in G.O., No. 1897 W., dated 21st July 1893.

(True Extract.)

Major, R.E.,
Under Secy. to Govt., P.W.D.

To the Superintending Engineer, IV Circle.
" Examiner, Public Works Accounts.
" Chief Engineer for Irrigation.

Carl Conrad
Asst. Executive Engineer,
H² - Crisco Division

221

N^o 210
E.C.
From.

Super Engineer Office 47
Coimbatore 18th August 1893.

Major A.H. Stuart R.E.
Superintending Engineer
4th Circle.

To

The Chief Engineer,
for Irrigation.

Sir,

With reference to your
N^o 221 dated 10th July/93 and my N^o
167 dated 27th June 1893 submitting
a proposition statement for
a Surveyor to be employed
on the Bhavani project I
have the honor to state that
after inspection of the ground
I find that it will be quite
impossible for one Surveyor
to complete the work to be done
in four months. Cross sections
in the first 20 miles on account
of the ground I have ordered

* note original of
L.O. No 159714 of
24/7/93

to

to be taken at $\frac{1}{2}$ mile intervals,
after that at 1 mile intervals.
It is proposed to level only down
to the Korangapallam River instead
of to the Noyel as the area com-
manded down to the former is -
very considerably in excess of
the 50000 acres which are ever
likely to be irrigated from the
reservoir. The $\frac{1}{2}$ of miles of cross
sections to be done is ^{with} ~~in~~ to check
lines about 730, including 112
miles on the north of the Bhavanis.
This alone will take 292 days at
 $2\frac{1}{2}$ miles a day or including Sun-
days 332 days. After these levels
have been completed it will be
necessary to level along the
line that may be chosen for the
Channel - say another 80 miles.
I am of opinion therefore that
the levelling with one Surveyor
will take 1 year at least.

2. After the levels have
been

5/27
been taken I consider that a
special officer should be put
on the preparation of the plans
and estimates. There are several
very important points to be
settled and which cannot be
settled without a very close
and careful examination of
the ground. Among these may
be enumerated.

1. Site of dam. I am not at
all sure that it will not be
found that the lower site is
not after all better than the
higher. The six miles of extra main
Channel from the higher site
will pass through difficult
ground, will be expensive and
much of the land commanded
is stony and even rocky. The
Channel from the lower site will
command better land, labour
will be easier to procure and
rates will be lower than at
the

the higher side, which is besides
said to be feverish.

2. There is ample land commanded
ed from the lower site and all the
way down of a better quality
than the high lands commanded
from the upper site. French

3. A continuous ~~trench~~, or at
all events very frequent ^{trial} pits
must be cut along which-
ever site may be chosen for
the dam.

4. Location of quarries &c re-
quire careful examination
of the ground.

5. The alignment of main
channel will require the utmost
care as the ground is difficult
and often rocky.

3. On these grounds need
there of a mind. Kindly consider
that a special officer of con-
siderable experience in ir-
rigation should be employed
on

on the work.

6.
27

30

I have the honor to be
Sir,

Your most Obedt Servt

Am. L. M. (Major R. E.)
Superintending Engineer
4th Circle

CHIEF ENGINEER
FOR IRRIGATION
21 AUG. 93
No. 1366

From

The Supr. Engineer
IV Circle

27/11

Dated 18th
Decr 19th } August 1893.
Recd

No 210
S.L.

Bharani Reservoir Project.

Suggesting that a special
Officer should be employed
on the work of — for reasons
stated within.

In the circumstances brought
before by the S.E. a proposition
statement for the necessary San-
ctioning Est. in accordance of the
already sanctioned in G.O. No 1897 W
of 21.7.93 should be forwarded.
The appt. of a special
Officer will be considered.

done to work out the details
after the preliminary field
work has been done. The dam at
the upper site will serve its pur-
pose sufficiently well as a flood
moderator for the Tanjore Dis-
trict in any case. and as already reported
by the undersigned, this is the
only inevitable work production
certain good results that will
be found eventually desirable
feasible — Rued 27/11

No 126
B.J.

From

8/11

Supr. Eng^r Office 47
Chimbatore 2nd September 1893

Major A.W. Smart R.E.
Superintending Engineer
4th Circle

The Chief Engineer
for Irrigation.

Sir,

Encls: 1
Proposition
Statement.

Adverting to your
Memo No 14/24.C.S. dated 30th ultimo,
I have the honor to forward
herewith a proposition state-
ment of Survey Establishment
required for the investigation
of Bharani reservoir Project
and to request you will be good
enough to obtain the sanction
of Government to the same in re-
-fession of the one sanctioned
in G.O. No 1897 W dated 21st July

1893.

1893. July 1st

I have the honor to be

Sir,

Your most obedient

and loyal

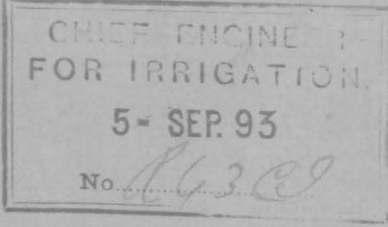
Major R. L.

Superintendent Engineer &c

R. L.

From

The Supg. Engineer,
IV Circle.



Dated 2nd }
Despatch 4th } September 1893
Recd }

No. 226
E.I.

Encls: 1.

Survey Establishment
for investigating Bhavani
Reservoir Project.

Forwards a proposition
Statement for sanction of
Government for —

Madras
7 Sep. 1893
He

Wickpahl
for Chief Eng. IV Circle

No. 4850
Forwarded to the Chief Eng.
General, Building, and Road
Branch, with a recommenda-
tion that the survey establish-
ment asked for be sanction-
ed and that a special officer
be deputed at an early date
to thoroughly investigate the
project.

2. Super Engineer's letter No.
20.9. dated 18 August 1893 is
forwarded for perusal and
favor of return.

P. W. DEPARTMENT

7831

1893.

From

Lt. Col. R. R. E. Drake, ^{Lieut. Col. R. E.}
 CHIEF ENGINEER FOR IRRIGATION,

To

THE Chief Engineer
 P. W. D.

No. 48. E. W.

Dated 9th September 1893.

Despatched

Received 13.9.93

ENCLOSURE 1

Subject.

Pharwan Reservoir Project
 Survey establishment for the
 investigation of. Forwards letter
 from the Superintending Engineer
 Fourth Circle with a recommenda-
 tion that the be sanctioned
 and that a special officer
 be deputed at an early date
 to thoroughly investigate the

No. 338 Ld/21-4-83

221 Ld/8-3-93

933 Ld/15-10-84

1547 Ld/20-6-92

337 Ld/5-5-86

123/10

off 306

no 1897 W 921-7-90

10
27/11

P. W. DEPARTMENT.

Read the following:-

Letter from the Sd/- IV Circle no. 226 Ld/2nd Sept. 93
 Endd. thereon by the Chief Eng. for Sd/- no. 48 E.W. dated
 9th September 1893.

FOR ORDERS.

The papers show
 that the Pharwan Project
 has been sufficiently in-
 vestigated to enable
 Govt. to decide whether
 it should be proceeded
 with or not.

I consider it waste
 of money taking any more
 Surveys or levels.

If Govt. approves of
 the scheme what should
 be done before another
 rupee is spent on Surveys
 is to ascertain thoroughly
 the nature of the soil
 at the site proposed
 and to do this a trench
 will

light across the valley
everything depends
on the suitability of the
B. The cost of such a
trench would be from
Rs 40,000 to Rs 50,000.

I consider the Chief
Engineer for Irrigation
should now submit
a report to the Local
Committee of the above
preliminary expenditure
as he incurred it.

W
18/9/93

What time will be taken in
reply to the above?

Yes
29/9/93

No 959 D of 3rd October 1893

To I for remarks

W

2.10.93

28306
W 28/9

1231

Bharani Reservoir

Project

The cost of investigation
is very trivial as com-
pared with the extent
of the project or even the
sum estimated for excavating the
trench, by W. Such cost however,
I would put down at 10,000
rupees. The conditions are
not by any means similar
to those obtaining at the Per-
gah. The difficulties are much
and there have apparently been
violated W. to make earth m.
more especially as he will
shortly have the cost of all
the arrangements as S.E.
of the IV Circle. I would
strongly deprecate the cessation
of the Survey work, now well
in hand, and the lines of work
have been well laid down
by the present S.E. and
which Mr. Hannan can
without difficulty take up.

W

12/10

93

17/11
I is reply is not. The
point. I also maintain
that there is now sufficient
information ^{available} about this
project which has been
made available off + on
during the last 10 years to
enable Govt. to decide whether
it is advisable to incur
the ^{preliminary} ~~initial~~ expenditure
of Rs 10,000 (it is a
disposable sum to the Local
Committee. I is figure)
to ascertain if the cost
at the proposed site
is suitable for founding
a dam. In Govt
221 I of 8th March 93
under the Irrigation
branch. The S.E. IV is
called upon for detailed
estimate for all the
proposals. I submit
upon the order as to the
a shelving of the whole
thing - balance estimate
for a project to cost
30 to 40 Lacs

Can it be put up in
3 years ^{or 4 years} then we
will not be a bit
than we are at
present. as to whether
the project is really
feasible or not. - It
is a matter of time.

W
Submitted
Per
17/10

13
13
2791

Read the following:-

From the Insps Engineer to Civil is 226 28 of 2-9-93.
Sent by the Chief Engineer for Bangalore is 48 200
Office note to the Chief Insp for Insp is 959 2 of 3-10-93
Office note from - A - do. dated 12th Oct 93.

FOR ORDERS.

Is reply is not the
point. I still maintain
that there is now
sufficient information
available about this
project which has been
under investigation off
and on during the
last 10 years to enable
Government to decide
whether it is
advisable to incur
the necessary preliminary

(it is a difficult thing
to estimate but I take
his figures), to ascertain
if the soil at the proposed
site is suitable for
founding a dam. In
L.O. 221 of 8 March
1893 issued in the
Information Branch, the
Supr Engineer is
called upon for detailed
Estimates for alternative
proposals. I look upon
the order as simply a
shelving of the whole
thing. Detailed Estimates
for a project to cost 30
to 40 lakhs cannot be
got up under 3 years or
4 years, and then we
will not be a bit wiser

than

14
27/11

than we are at present
as to whether the
project is really feasible
or not.

28/17-10

W.

I think the report asked for may be
given

Wco
19 Oct

oss infio
Hm 17-1021

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following

[Faint handwritten notes in left margin:]
Went to ...

From the Supg:	Engineer IV Circle,	No 210 E Day 18. S. 93
<i>"</i>	<i>- D -</i>	- D - 226 E Day 2. 9. 93
<i>Sndt. by the Chief Engineer for Engine No 4 S End at 9. 9. 93</i>		

✱ Include Rs 15/- house
allowance.

The entertainment
for twelve months of a
surveyor at Rs 115⁰ per
month for investigations
connected with the
Bhavani Reservoir Project
in the Coimbatore Division
is sanctioned.

This sanction has been
registered as Provincial
No 476 of 1893-94, and
classified as Estab. Temp.
It supersedes the sanction
given on G.O. 1897 dated
21st July 1893.

The S. E. Title
- Ex: P. W. Accts.
- Chas. H. H. for Insure

40-800-23-3-92

2410 005
21.10.93

C No 7031

Government of Madras.

Public Works Department

(Railway Branch).

G.O. d/24 October/93

No 2711.W.

J.C.
25/10

CASE.

Bhavani Reservoir

Project

The entertainment for
twelve months of a
surveyor on Rs 115 per
month for investigations
connected with the
in the Coimbatore Dn.
sanctioned, with remarks.

SD/
X

J. 25/10.