

- (1) Number of pages 8
(2) Date of repair 2. 3. 1970
(3) Initials of the Referencer _____

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No.	2393	Press
B.P. No.		Mis. ✓
Dated	16. 10.	1976

Not to be folded or roughly handled

Read the following papers:—

No. 320. From Captain R. R. E. B
to Major-General G. W. WA
Department, dated Camp at C

IN reference to your memorandum the honor to state that there is no Government bearing No. 181 and date appear to belong to your endorsement Department Colonel Roberts' letter, No. that this letter is that meant in your herewith a copy of the same.

2. Mr. Leggatt's letter, No. 682, address, was forwarded, in original, with C dated 30th May 1876, and I observe the 3rd July 1876, in which, however, the a Oakes instead of Colonel Roberts. A Government Order is also enclosed.

From Lieutenant-Colonel R. A. ROBERTS,
Major-General G. W. WALKER,
Department, dated Tanjore, 21st Ap

ADVERTING to G.O., 19th May 1874, N
Department of a temporary establishment for co
a cost of Rupees 160 per mensem for three and
honor to inform you that the survey and sectio
the benchmarks have been fixed and accurately

2. The length of the canal surveyed, incl. it has been found quite impossible for one Sur frequent cross sections found necessary, and note

3. The survey has been exceptionally well that an additional month's pay ^{has} passed to the work, viz., one Surveyor at Rupees 70 and one I should mention that this extra sum for which fact, is far below the extra time which the Survey work in excess of the period for which the estab-

4. The survey is not forwarded now for the estimate for the improvement of the canal.

No. 320-A. From Captain R. R. E. BROO
to Major-General G. W. WAI
Public Works Department, dated

WITH reference to G.O., No. 1,670, dated 1907, and the reports and documents of the Vedarniem Salt Canal, I have called for therein in paragraphs 1 and 4 re-

T. R.E., District Engineer, Tanjore,
E., Chief Engineer, Public Works
11th August 1876, No. 1,485.

dated 2nd August 1876, I have the Superintending Engineer to April 1875. This number and date bring for orders in the Revenue 121st April 1875; and, presuming in under reply, I beg to forward

In March 1875, to Colonel Roberts' takes' letter to Government, No. 964, printed with G.O., No. 1,670, dated is erroneously shown to be Colonel that letter taken from the above

superintending Engineer, Tanjore, to
 Secretary to Government, Public Works
 No. 366.

communicating sanction in the Revenue
g the survey of the Vedarniem canal, at
months, or Rupees 560 in all, I have the
been very carefully completed, and that
the survey.

8 miles of the Adappar, is 32 miles; and survey this length of canal, take the landmarks within the period sanctioned.

and I would strongly urge, therefore, for and Draughtsman engaged on the man at Rupees 40, or Rupees 110 in all. is solicited, by no means represents in Draughtsman have actually given to the was sanctioned.

as it will be submitted hereafter with

N, R.E., District Engineer, Tanjore,
R.E., Secretary to Government,
re, 16th August 1876, No. 1,533.

July 1876, relative to the improve-
ment to furnish the information
by.

2. Mr. Phillips was employed on the months of April and May satisfaction to Lieutenant Romilly reported by that officer in his letter of August 1874, which gave an account of this report came in, however, the already appointed Mr. Phillips on No. 482, dated 20th July 1874. period of 7½ months, when the letter quoted in the Government Lieutenant Romilly's report, in guilty of scamping his work, no inducement to Mr. Leggatt from this office in induce him to exercise a careful supervision of Mr. Phillips' work.

3. I may mention that Mr. Phillips had not previously been dismissed from the Coleroon survey. He had merely resigned his resignation to Lieutenant Romilly, which that officer accepted on the 6th September.

4. With reference to paragraph 1 of the Government Order, I have the honor to forward herewith original tracings, in English, relative to the steam and hand dredges referred to by Colonel Oakes, and which will afford all the information required.

5. There is no reason whatever why spoon dredging should not succeed in the Vedarniem canal, as the spoil to be removed is moreover of so light a quality. It has never, however, been attempted by coolies working under water with a hook and hoe, and the spoil carried by others in attendance and deposited outside the canal banks. In order to carry out more effectually the clearance of the canal, such poor means at disposal, its yearly closure was necessary, a point alluded to in paragraph 11 of Colonel Oakes' letter, No. 964, dated 30th May 1876.

6. Whilst on the subject of small dredges, I would respectfully draw your attention to the description of the dredges detailed in the Roorkee Professional Papers for July 1876, and patented by J. W. Barns, Esq., M.I.C.E., and Superintendent of Canal Irrigation, Bahawalpur State, and which appear to me to be ingeniously and carefully designed.

From Messrs. HUNTER and ENGLISH,
R. A. ROBERTS, R.E., Superintending Engineer,
8th January 1875.

We now have the pleasure to enclose herewith the tracings submitted by you to Colonel Seratchley, R.E., of the shape of the banks and the proposed to be constructed with an open end of the vessel. The advantage of this method is, that when the dredger is once placed in water where she can float she can float through a shoal or a bank and make a new channel across country.

Mr. Phillips was employed on the Coleroon river survey in that short period he did not give satisfaction to Lieutenant Romilly, whom he was working, and this was reported by that officer in his letter of August 1874, which gave an account of this report came in, however, the already appointed Mr. Phillips on No. 482, dated 20th July 1874. period of 7½ months, when the letter quoted in the Government Lieutenant Romilly's report, in guilty of scamping his work, no inducement to Mr. Leggatt from this office in induce him to exercise a careful supervision of Mr. Phillips' work.

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To give you the opportunity of judging of the merits of the dredger, we make our offer in four different ways, viz.

No. 1.—We are willing to supply a 10-horse power steam dredger, to be 60 feet long × 12 feet beam, the ladder pressure and condensing steam engine, worked by the engine and the side chains necessary and a shoot spout 45 feet long with or, if made with a non-condensing engine, £2,080.

No. 2.—If the dredger is only made to lift the excavated material into punts or barges, the cost will be with a condensing engine £2,080.

No. 3.—We can supply a hand dredger dredged into punts or barges for the sum of about twenty-four men, but the dredger could be of about 5 feet in length for every eight men, same number.

No. 4.—We can supply a hand dredger deliver the material excavated into a spout similar dredger, and including the cost of the spout and the steam dredger would be able to lift about one-fourth or one-fifth of the number of men you can employ upon the work.

The steam dredger would be able to lift about one-fourth or one-fifth of the number of men you can employ upon the work.

In the case of proposals for a steam dredger, the vessel and machinery would be taken down, the necessary parts packed and the dredger delivered at the Docks.

We shall be glad upon hearing from you to require any further information you may require.

We have constructed six of the large dredgers for the Thames, and several for different small rivers and canals, and think that our long experience would enable us to supply you with a dredger that would give you every satisfaction.

No. 320-B. From W. B. LEGGATT, Esq., District Engineer, Bellary, to Major-General G. W. V. Public Works Department, dated 21st July 1876, No. 1,403.

I EXTREMELY regret to find from G.O., No. 670, of the 3rd instant, that the work turned out by Mr. Phillips on the Vedarniem canal survey and levels has proved to be so incorrect as pointed out by Colonel Oakes, R.E.; and, in obedience to the order calling for an immediate explanation of the report as follows.

2. Mr. Phillips and his Draughtsman, Mr. Leggatt, were appointed and sent to me by Lieutenant-Colonel Roberts, R.E., then District Engineer of Tanjore, for employment on the Vedarniem canal survey work. On my arrival at the District Engineer's office, I had every reason to presume that the work would be done well, but I soon found out that Mr. Phillips required careful supervision only in name; he was a *Gumastah* in the

is best suited to your requirements,

m dredger as shown in tracing the hull centre, open to the end, horizontal high-pressure boiler, the fore and aft motion and winches, the anchors and chains vary the same for the sum of £2,400.

ual height necessary for the discharge shown upon the tracing in red ink, the non-condensing engine £1,880.

tracing, made to deliver the material tracing shows handles, sufficient for and for greater number by the additional expense of about £40 for the

upper tumbler made high enough to shown upon the tracing of the steam for the sum of £700.

of sand and sludge per hour, and the ty, dependent to some extent upon the

essel, engine and machinery, and of the together as far as possible here, marked, delivered alongside in the Thames or

you any further information you may require.

the Thames, and several for different small rivers and canals, and think that our long experience would enable us to supply you with a dredger that would give you every satisfaction.

C.E., Officiating District Engineer, Bellary, to Major-General G. W. V. Public Works Department, dated 21st July 1876, No. 1,403.

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on leave in Tanjore at the time,
before he came to Negapatam, t

3. With such tools as the
time, when it required more th
Range and its accounts, out of
fallen during Mr. Hall's régime,
to do the best I possibly could
instructions in detail as to their
record in the Range office. Mr
Irrigation Chief Engineer's men
(as often as it was possible for
carry out his work, which, wh
checked his longitudinal levels a

4. From the middle of No
charge of the Tanjore District, i
then that Mr. Phillips made a me
possible for me during that perio
doubts regarding this work, I r
Roberts on his next visit to Nega
the survey and levels had been co
district, I had not examined the
suffering from the effects of sun-
send the papers into his office for e
the 10th March 1875.

5. I cannot see what reason
above quoted, that because I had o
below the crown of the jetty at Ne
therefore I had approved of, if not
below the level of the points fro
relative levels of those points.

Had Mr. Phillips understood

6. I have not seen the Gov
being passed to the survey estab
would not have supported the rec
on an examination of the work se
recommendation.

7. With this explanation, I
Government, trusting they will see
incompetency of the survey establish
wilful neglect on my part. Unfortu
year when there is an unusual press
work before sending it up to the Di
above stated.

I beg to add that I have no rec
I have no time to obtain them.

ly never plotted any surveys or levels
copy plans fairly well.

to carry on the work, and that at a
and attention, to get the Negapatam
and confusion into which they had
wn to Government. I tried, however,
Establishment, and gave them *written*
mode of carrying it out, which are on
further supplied with a copy of the
subject. I also from time to time
panied Mr. Phillips and saw him
pervision, he did fairly well, and I

the middle of February 1875 I was in
y range work, and it must have been
sections and plottings, for it was not
e check he required; and having my
same verbally to Lieutenant-Colonel
also informed that officer that, though
fter I was relieved of the charge of the
know when I could do so, for I was
ae. He then kindly directed me to
ch I did with my letter, No. 682, of

had, for inferring from my letter
is to be reduced to a datum 25 feet
which the levels were started, that
cross sections being plotted 25 feet
ere taken, utterly regardless of the

ld have understood my order.

thorizing the bonus of a month's pay
presume that the District Engineer
had that officer not satisfied himself
at there were good grounds for the

leave the matter in the hands of
d and incorrect work is owing to the
, and not from any want of care or any
ealth, coming at the end of the official
prevented my examining the Surveyor's
eer's office, but this I had reported as

o refer to, and, as the order is immediate,

No. 321. ORDER THEREON, 19th

CIVIL WORKS, No. 21-A.

imperfections of which were commented

2. It would appear that Mr. P
appointed by Lieutenant-Colonel Robert

3. Not long after, or on the 2
Lieutenant-Colonel Roberts as not havi
R.E., on the Coleroon Surveys; Lieuten
notice of this complaint, and he appoint
Draughtsman, who was a mere copyist
levels, but was known to Lieutenant-Co
in his former office at Madura.

4. Mr. Leggatt only took charge of
as he represents, it was much disorganize
charge of the district from November 187
extenuation in this circumstance had the s
but the two incompetent men employed
February 1875, when they were recommen
as a gratuity on the ground of the excell

5. Mr. Leggatt says that he verbally
his doubts regarding the quality of the w
to that effect in his official letter, No. 682,
to the District Engineer's office for dis
examine the papers; yet he expressed dou
seem from paragraph 3 of his official letter
vation, on which occasion the fact that the
data, the relative levels of which were unk

6. The papers were retained by Lie
month, at the end of which he arrived at th
completed" and "exceptionally well got up."

7. Lieutenant-Colonel Roberts, on his
explanation of his procedure in this case
explain his reasons for the appointment of
which they were sent to perform, and sta
which he has expressed. A copy of the P
1876, No. 1,670, will be furnished to Lieu

8. The work should be taken up aga
revising the existing papers being met from
up-keep of the canal. The estimate for

P. W. No. 142-A, dated 18th September 1873.
account should be made in the Salt Budge

876, No. 2,507.

papers recorded above contain
ons called for as to the survey
s of the Vedarniem canal, the
No. 1,670, dated 3rd July 1876.
m the surveys were made, was
20th July 1874.

Mr. Phillips was reported to
disfaction to Lieutenant Romilly,
Roberts appears to have taken no
urvey party under Mr. Leggatt a
er before plotted any surveys or
rts as having been a Gumastah

patam Range in July 1874, when,
leads also that he had temporary
uary 1875. There would be no
n completed in the time allowed;
d in their papers till the end of
nd obtained, an extra month's pay
work.

own to Lieutenant-Colonel Roberts
out. There is no hint, however,
arch 1875, submitting the papers
Leggatt states that he did not
air accuracy. It would, however,
papers did come under his obser-
d been plotted from independent
uld not have escaped notice.
olonel Roberts for upwards of a
on that they were "very carefully

duty, will be called upon for such
y have to offer. He will fully
n to be unqualified for the work
nds for the opinion of their work
of Government of the 3rd July
mel Roberts.

delay; any outlay necessary for
grant of Rupees 5,000 for the
the canal called for in G.O.,
of 13th August 1873, should be
delayed, and an entry on its

Proceedings of the
19th

9. His Grace the Governor should not be introduced for Engineer will arrange as ear stages or flat boats being used.

10. The circumstances suggested the expediency of p of Surveyors on a more satisf establishment, being taken on work is completed. They are Engineers are left to their own no published and graded lists to belong to the Permanent Lower S grades on salaries of Rupees :

* As a maximum.

Council desires to be furnished employed; the number of these an average during the past two y in the Examiner's office, and sho

t, Public Works Department,
No. 2,507.

sees no reason why spoon dredging the Vedarniem canal, and the District to give this system a trial; moveable

o light and on other occasions have gements in respect to the employment At present they are on the temporary discharged or transferred when their hold College certificates; but District obtain properly qualified men, and have ter the Government of India Surveyors tablishment, and are divided into three 35,* respectively. Before taking any decided steps, however, in the direction indicated, His Grace the Governor in arm of the number of Surveyors now ificates; and the number employed on nformation will doubtless be available d by Captain Conway-Gordon.
(et.)


Colonel,
r Secy. to Government, P.W.D.

To the Chief Engineer for Irrigation
„ District Engineer, Tanjore.
To Lieutenant-Colonel Roberts, w
To the Examiner of Public Works
„ Revenue Department. ✓

No. 1,670, dated 3rd July 1876

Exd. E. C. Shunkor.

2a Spare Copies

N. 4177
Rev: 1876. 2.

Govt. of 1876: Madras.
PUBLIC WORKS.

To

THE CHIEF ENGINEER FOR IRRIGATION,

&c., &c., &c.

Dated September 19th.

Issued

Recd.

ack. 9th

Encl.

G. O., 19th September 1876, No. 2507.

SEPTEMBER.

Nos. 320-321.

Vedarnam Canal, Tanjore District.—Pass-
ing orders on papers containing explanation
called for as to the imperfect survey and
levels taken of the — by Mr. Phillips.

Communicated to the N. 1876

16 October 1876