

Public Works (1898) Department.

Q. 529

G.O., No. 1412 W

DATED 6 June 98

[Despatch Abstract.]

Vizagapalam Back Water. An Estimate
of Rs 950 for taking observations in the
sanctioned & the amount allotted from
the reserve under included Local
Fund.

Indexed.

BACK PAPERS.

FURTHER PAPERS.

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

Public Works DEPARTMENT.

Papers to be read in proceedings :—

Again G.O., dated

189 , No.

Again G.O., dated

189 , No.

Current No. 3389

of 1898, dated 19th April, from S.F.I Circle.

” ” 4125

" 1898, " 12th May " " -Do-

4289

" 1898, " 17th May ; " -DO-

No: 1412 W of 6th June 1898

ORDER.

These observations promise to yield
useful results & the safe way $\therefore$
be sanctioned.

It's beautiful in such cases if a map of some kind could be put up, as it is difficult to follow such remarks as those of Mr. Spring about the sluices in the R.R. embankment without one. What strikes me is that if the floods in the river are to be dammed up to a ~~high~~ height of over 2' over their present ~~max~~ ^{max}, no need of damage may be done at the Kansas Salt Factory. But one can't be sure without a map.

The estimate of Rs.950, as ---
shown below, for taking observations
in the Vizagapatam Back-water, is
sanctioned, and the amount is allot-
ted from the reserve with the P.W.D
under Excluded Local, Port Funds.

4 men on RS. 100 each for 2 months	
for taking observations RS. 800	
Contingencies, Coolies, bamboos,	
etc.,	150
Total Rs.,	950

2. This sanction has been registered as Excluded Local No. 7 of 1898-99, and classified as Miscellaneous Public Improvements, Original Works.

The Suptg. Engr. I Circle.

Examiner, P. W. Accounts

,, Marine Department.

Note

During his tour in the Northern Districts in February last, the Chief Engineer inspected the Vizagapatam Harbour and Back-water and came to the

Am 13.5.98 R 1.5.98 Am 31.5.98 R 2.6.98

the conclusion that the bar might very probably be maintained in good condition by a training wall built in extension of the existing wharf into about $2\frac{1}{2}$ fathoms, with a bell mouth beyond the bar, so as to concentrate the ebb on the bar, instead of allowing it to dissipate itself, as it now does, to the northward, and that, in any case, this training wall is a necessary adjunct of the sluices at Turner's Bridge, if, as is very probable, it is found necessary to build them later. The Chief Engineer was also convinced that a combination of the two would do far more good for Vizagapatam than Mr. Thorowgood's scheme at less cost. Before placing these views before Government, it is necessary that observations should be taken at Turner's Bridge and the Superintending Engineer, I Circle, was therefore called upon in Memo No. 1604 G dated 15-3-98 (Flag A) to arrange for the necessary observations being taken. He accordingly submits an estimate of Rs. 950 as shown above, which is recommended for sanction.

ACK
21.5.98.

L. H. S.
23.5.98

May if the observations are carefully taken, the results obtained will be well worth the money expended

^ of the flow of water up the back water in the flood aebb tide (1) During dry season (2) During monsoon. for one month at each period.

A. S. H.
2.6.98

Public Works (1898) Department.

CURRENT No. 3389

*From W. De Morgan Esquire
Executive Engineer in charge F. Circle*

Order

No. 48 V.2

Dated 15th April 1898

Received { 19.4.98
Registered {
Enclosures 1
Spare copies

SUBJECT.

*Vizagapatam back water
Submitting for sanction an
estimate amounting to Rs 750/
for taking observations in -*

0.2564 126.5.

BACK PAPERS.

FURTHER PAPERS.

S. E. I. 500-15-1-98.

No. 48 V. 2

FROM

H.C. DeMorgan Engineer
SUPERINTENDING ENGINEER, *W.C.B.*
Executive
FIRST CIRCLE.

Enclosures.

To

THE CHIEF ENGINEER

PUBLIC WORKS DEPARTMENT.

WALT AIR, 1898.

Camp.

SIR,

Terrib reference to your memorandum
 no. 1604C of 15th ultimo, I have
 the honour to forward an
 Estimate amounting to Rs ⁷⁵⁰ 450
 for taking observations in Vira-
 -gabatam backwater. The
 work generally is placed
 in charge of Mr. Brown, but
 special men must be
 engaged to take observations.
 It is no use employing
 any but trustworthy men,
 and as the job is only for
 two months I have allowed

At 100 per mensum, which
is the least salary, I think

Thah

that can be afforded.

The observations will involve constant attendance at the Backwaters, and I have allowed 3 men instead of two. Three will certainly be required for the velocity experiments and probably also for the gauge readings, as I do not think that one man can be trusted to read for 6 hours at a stretch.

I have the honour to be,

Sir

Yours most obedt Servt.

W. De Morgan

Executive Engineer in Ch. I. C. E.

15/4

Public Works (1898) Department.

CURRENT No. 4125

From W. C. De Morgan Esquire M. E. S. E.
Executive Engineer in Ch.
1st Circle.

Order

No. 119 VZ

Dated 4. 5. 1898.

Received }
Registered } 12.5.98

Enclosures nil

Spare copies

SUBJECT.

Tidal Observations of Vizagapatam Back-water. Points out the necessity for the services of another man for the — & requests to have the necessary alteration made in the Estimate submitted with this office no 48 VZ of 15-4-98.

3385: 2117

Sanctioned by Mr. W. C. De Morgan 15.5.98
W. C. De Morgan 15.5.98

0.25.109

FURTHER PAPERS.

S. E. I. 500-15-1-98.
2

No.

119 K.Z
4 - 5-98
7

FROM

H. C. Demagans Esquire
SUPERINTENDING ENGINEER *H. C.*
Executive-8

FIRST CIRCLE.

Enclosures.

To

THE CHIEF ENGINEER

PUBLIC WORKS DEPARTMENT.

WALT AIR,

4. 5. 1898.

Camp.

SIR,

I have the honour to inform you that the tidal observations ordered in your memo no. 1604 C Date 15-3-20 were commenced on the 1st of May.

2. The arrangements made are very good and complete; but the work is very tedious; and demands constant attention for 12 hours at a stretch.
3. I am satisfied that the services of another man are required, so that the day may be divided into two shifts of 6 hours each or into such other periods as may suit the observers.
4. I have therefore in anticipation of your sanction permitted the *Exe Eugmie Viragabata* to employ another observer. A

Suitable

suitable man is fortunately
available immediately.

5. This will increase the esti-
-mate submitted with this

Office No. 4802 Dated 15-4-1898
by Rs 200 and I request that
you will be good enough to
have the necessary alteration
made.

I have the honour to be,

Sir

Your obedient servant

W. S. S. S. S.
4. 5. 98

Exec Engineer in Charge

18
4/5

Public Works Department.

W 2417C 77-5-98.

Memorandum.

Letter from the Executive Engineer in charge of I Circle No: 4802. dt
15. April 1898.

The undersigned has
the honour to request that the
Executive Engineer in charge
of the I Circle will be so good
as to explain why 3 men are
required on such a high pay
as Rs. 100 for taking observations
in the Vizagapatam backwater
and where it is proposed to
get the men from. It is consi-
dered that 2 men will be
sufficient. One man can read
for 3 hours and then go off duty
for 3 hours which should be
ample rest.

W. S. S. S. S.
4. 5. 98

To the S. E. I Circle. 7/5/98
May

B
after issue

Indemnity
13/5/98.

W

Your instructions were that two men should be employed for one lunar month. The S. E. applies for 3 men for 2 months. Orders are requested as to whether the S. E.'s proposals should be approved.

2. The charge is debitable to "Port Funds" and will be met from the reserve with the P. W. D. under those funds.

Kaj
29/4/98.

ask L. E. why he wants 3 men in inch high bay. & where he is going to let them run.

P. T. O. W. H. S.

Charge
If W. affords the proposed to appoint 3 men on Rs. 100 each, the incidence of cost must be considered. It seems to me that they must be charged to Camps etc.

If Barkun in permanent at Vigorpet were actually going on, the estimate of Rs. 150. for coolies, bachelors, contingencies etc. might be charged to the estimate for airport & water work. The improvements are still however in the future, & some other but must be sought. The estimate must apparently be charged as a minor work either to the Public Improvement or to Port Funds.

C. C.
27-4-98

W
7

As regards the necessity
for 3 men, against 2 suggested
by you, the S. E. explains that
he does not think that one man
can be trusted to read for 6 hours
at a stretch. Orders are therefore
requested as to whether further
explanation should be called
for on this point.

Thap
30/4/98.

1 man can read for
3 hours. then to
off duty for 3
hours. This will be
ample rest.

LLS
2.1.51

W

Please find out
glucose level to
what has been
estimated. Glucose
level is 4
mmol/mol.

CS
25/4/98

S. A. W.

As the proposed observations
are in connection with the Viga -
Gapatam Harbour improvements
I think that the charge is debita-
ble to Excluded Local Port funds
and not Provincial as the S. E.
has classified. If necessary, I shall
consult C's Office on the point.

P. H. S
25/4/98.

He

Will you please look
into this, & submit the
matter for his orders

Spence

Public Works (1898) Department.

CURRENT No. 4289

From W. De Morgan Esquire
Executive Engineer in charge
I Erile

Order

No. 144 V.Z.

Dated 11th May 1898

Received }
Registered } 12.5.98

Enclosures nil

Spare copies

SUBJECT.

*Viragapatam back water -
Taking observations in -
Reporting that three men only
are employed for - ~~that the 4th~~
man has not been employed yet, and
that the work is too much for three
men, and that they could not be
procured for a less pay than Rs 60/-*

O.L.S. 118

He

FURTHER PAPERS.

Office of the Subg Engineer Thule
Cesltau Date 11.5.1898.
Dress 13-5-1898

Frem

H. De Morgan Esqr M.A. C.E.
Executive Engineer in Charge
The Chief Engineer
Public Works Department
Madras

L

Li

Put up with CN^e

4125 from S. E. I

pointing out the

necessity for the

series of

another man for

the observations

^
all the Vexatious

Backwater.

Co. 1st Regt. Me.

15-98

14-5-70

16

2.

5.

10

6.

With reference to your Memo No. 2417,
I have the honour to inform you that observa-
-tions in the Virapapalam backwater were
Commenced on 1st Instant.

It would be impossible for two men to conduct them. The plan for now is as follows:-

Two Telegraph wires were stretched across the backwater, above and below the pontoon, at right angles to the axis of the stream. From these soundings were taken 20' apart by Mr. Brown. Fifty feet above and below each of these wires and parallel to them, a line was ranged and marked by a Semaphore and Cross on the further shore, and a Cross head on the Virapafatam shore through which the floats are observed.

Above these lines a row of Buoy
Shows where the floats should be started.

The floats are tin tubes about $\frac{1}{2}$ " diameter and weighted so as just to leave a small flag or rosette above the water level.

Three floats are used for each observation. To take an observation

Observation, one observer is stationed at each Cross head. The boats when ordered place the float at the required point, and the observer looking through the Cross head, notes the exact time when it passes the line, and at the same time signals to the observer at the next section that the float has passed.

7. The same is done for each of the other floats.

8. The observer at the second section notes the time when the floats pass the line between his Semaphore and Crosshead.

9. The watches of the observers are set together; and the difference between the times of the watches gives pretty accurately the time required for the floats to traverse 100 ft.

A similar observation is taken for the other section, and the reading on the tide gauge, the state of the tide whether Ebb or flow and direction of wind, are also noted.

10. It would be impossible for one man to do this. In fact the float in the axis of the stream often passes the lower section before the 3rd float has passed the upper section.

11. Moreover at certain stages of the tide, the velocity is so low that it takes nearly an hour to complete the observations of the two sections

12. Actually all three men remain on the work from 6 AM to 6 PM taking turns to make the observations. It would take them $\frac{3}{4}$ of an hour to reach their house and $\frac{3}{4}$ of an hour to come back which would only be additional fatigue.

13. The following are the observers. One man formerly employed in the Virag-patam observatory.

The second was an Overseer employed on Famine duty.

The third is a clerk in the Division office who has done work of the kind before and whose services could be spared.

CN^o 4125 14. In my No. 119 VZ Dated 7-5-78 I stated that the services of a 4th man would be required. I have not yet appointed one, as I wished to satisfy myself that an additional hand was actually necessary.

15. I think it most probable that another will have eventually to be provided. The men already begin to feel the work. The heat at the back-water is very great. I have given the observers a tent, but they can only get under it for a short time between each series of observations. Moreover they have to get up about 4.30 A.M. to allow

of their early meal and getting down in
time to the work, and do not get back
until about 7 P.M. Consequently they
have nearly 15 hours outdoor work per
day.

16. I do not think Rs 100 per mensem
by any means too high pay for such
work particularly as it is for a short
time. In fact, I could not have got
any one to do it for less.

I have the honour to be,

Sir
Yours most obedt Servt.

W. Morgan
13.5.98.

Exec Engineer in Charge

H.C.
M

On Saturday last, I
sent a signed copy, for issue
to the S. E. I Circle, of a G.O.
sanctioning an estimate of Rs 900
for taking observations in the
Vijayapatam backwater, with
a note calling for number and
date and saying that the order
is ~~A~~ A.

The order has been converted
into B and copies to the ^{other} officers
concerned will be despatched
here. Please give the necessary
instructions to T. C. C. and
send the ~~figures~~ and date.

May
6/6/98.

Des
Please put up the
jacket

8/6/98
T.C.C. ^{8/6/98}
with note.
Indexer.

8/6/98



GOVERNMENT HOUSE.

Ootacamund
2nd June 1898.

My dear Mr Winton,

His Excellency
will be glad to see you on Monday
at 12 o'clock noon, if that will
suit you. He wishes particularly
to talk about your proposals
for the Vizagapatam Harbour.

^w This file
contains the
only papers
available - the others
are with H. S. P.
N. S. P.
16 June 98

Yours sincerely,
L. S. P.

When Mr. Schmitt is there please
please send the same to
the place
1 May
6-6-54

W
Sent accordingly.

May 16/54.

Ch. W.

I shall be up on Monday
at 11 - If you have any
papers connected with
" Vizay: harbor, please place
them on my table - but
I suppose they are all
with H.S. I don't think I will
come out into papers on
Monday - I shall return
here same evening -
Please show D.W. this

W. W.
Ack
4-6-98.

3-6-98

T.C.C.R.
Index to the sailing no.
of the ship
to be returned with note
of the date to H.C.
6/6/98

H.C.

M

Subj: Vizay

Please issue this order

and communicate the number
and date to this office. The
file has been retained for 8.

Registered number - 77-1898-999.

H.C.

No. 1412 W 2 6.6.98.

It is mentioned that
this has circulated
to H.S. If this
has already
been registered
please communicate
with C.M. to
P. 2. 8/6/98.

W 52
6.6.98.

en Sent down.
 -2
 6.6.98.
 Information that the paper is
 in order, since received
 6.6.98