M.R.O. 1—77,004—8-6-37.

(1) Number of pages_____

(2) Date of repair_____

(3) Initials of the Referencer_____

MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. 2357 Press Mis.

492-493

Dated 20-10- 18 66

Not to be folded or roughly handled

by the Madras Government, Public Works Department,
20th October 1866.

No. 492. Read the following letter from the Acting Superintending Engineer, 1st Division, to the Secretary to Government, Public Works Department, dated Waltair, 27th September 1866, No. 134 :—

1 Mr. Sage's Report.
1 Survey of Cocanada river.
1 Sections of do. do.
1 Dredge Statement.
1 Expenditure do.
1 Do. Account.
Despatched by separate covers.

I have the honor to forward herewith the Report received from Mr. Sage, Executive Engineer in charge No. 1 Range, Godavery, for the half-year ending 30th April 1866, on account of dredging operations connected with the Cocanada Harbour.

From the Officer in charge, No. 1 or E. D. Range, to the Superintending Engineer, 1st Division, dated Dowlaishwaram, 5th May 1866, No. 19.

1. In forwarding the return of Harbour Dredging for half-year, I have the honor also to forward a revised Statement for the previous half-year, as on comparing the two Statements with the Progress Report, a small error was found in the return of previous half-year ; I also send a statement explanatory of the expenditure during the year, without which the returns do not agree with the Progress Report.

2. The following figures show the result of year's operations, compared with those of previous year, and from which it appears that the cost per cubic yard of silt dredged is greater than during previous year, this arises from the large amount expended for repairs in current year, the excess on last year being 1,264 Rupees on that head.

3. The quantity dredged during 1864-65 was 75,683 cubic yards, at a cost as follows :—

	On Dredge only.	Including Steamer charges.
	RS. A P.	RS. A. P.
Actual working expenses	0 2 $0\frac{7}{16}$	0 2 $3\frac{13}{16}$
Do. on working and idle days	0 2 $8\frac{1}{8}$	0 3 $4\frac{1}{2}$
Do. do. do. interest for whole year and depreciation on working days only without deducting repairs	0 4 $11\frac{5}{16}$	0 6 $2\frac{1}{8}$
During 1865-66, 72,317 cubic yards were dredged, expenses as follows :—.		
Actual working expenses	0 2 3	0 2 8
Do. on working and idle days	0 3 5	0 4 $2\frac{1}{2}$
Do. do. do. interest for whole year and depreciation on working days only without deducting repairs	0 5 $11\frac{1}{2}$	0 7 7

	RS. A. P.
4. The gross expenditure in 1864-65 was	29,239 15 10
Do. in 1865-66 is	33,191 2 2
The net expenditure in 1864-65 was	16,200 13 $2\frac{1}{4}$
Do. in 1865-66 is	18,192 0 11

With regard to the above I think there is a mistake in the returns of previous year, but not having station books for that year by me I am unable to check the return ; my reason for thinking so is that in Progress Report for April 1865, the net expenditure is shown as Rupees 19,652-0-8, whereas returns show Rupees 16,200-13-2 only, in which case the present year compares favorably with the former.

5. I may mention that, during current year, I have taken great trouble to get at the actual cost of dredge, and the returns now sent in show the actual cost of dredge, not the money spent each month ; the fuel remaining from previous year is brought in, and that remaining at end of

year deducted, also wages for April 1865 paid in May 1865 deducted, and those for April 1866 paid in May 1866 added, to show actual cost. I do not think this was done in previous returns.

6. In forwarding the sections, the blue section is at end of previous year, the dotted section first half-year of current year, and red section at end of current year; I have had this done to show you at a glance the comparative state of harbour at end of each year.

7. I also beg further to point out, that the sections only extend to end of groynes, and therefore a large quantity of work done by dredge is not shown, viz., the work outside groynes, where dredge always works most favorably, and for three months of year.

N. B.—Draughtsman has spoiled the sections, they will be forwarded in a day or two.

No. 493. ORDER THEREON, 20th October 1866, No. 3,357.

CIVIL WORKS, No. 95.

1. By the Returns submitted with this letter, it appears that the results of the last half-year's dredging operations in the Cocanada river are the removal of 29,670 cubic yards of silt at a cost of Rupees 9,539-2-4 exclusive of depreciation and interest on plant, or Rs. 16,408-2-4 inclusive of those items. This shows a falling off as regards the relative cost of the work during the last and previous half-years, taking the latter as reported by Captain Ryves and noticed in the Proceedings of Government dated 12th May 1866, No. 1,528.

2. The sections show that no improvement has been effected by this expenditure, for while at some points it appears that the depth of water has considerably diminished, at others it remains much as formerly. The Government therefore see no reason to doubt the correctness of the opinion which they have expressed that, as the effect of dredging is inappreciable, its continuance at a heavy expense would not be justifiable, and they desire that the course directed in the orders of the 12th May last above quoted may be followed.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer, 1st Division.

Exd. S. T. Augustin.

Statement shewing the expenditure on account of Dredging Cocanada Harbour in 1865-66

Net expenditure as per Progress Report — 15.993 11 2

Add

Repairs to Dredge from Tools & Plant 7 50 - - -
Value of fuel remaining on 30th April/65 1605-9-6
April's Salaries paid in May/66/in part/ 332-4-0
2 687 13 6
18,681 8 8

Deduct

Value of fuel on hand on 30th April/66 — 489-7-9
April's Salaries paid in May 1865 — - - -
489 79

Total expenditure in 1865-66 18.192 - 11

Dowlaishwaram
Ex-Engrs Office
5th May 1866

Executive Engineer
Godavery District

Compd. C B

From
The Officer
Superintending the
Eastern Delta Range
Lo. Dist.

To
The Deputy Engr
1st Division
Walton

Dated 5th May 1866.
Recd

Statement shewing
the Expenditure
on Account of
Dredging Cocanada
Harbour in 1865/66.

Enclosure in a letter No 1134
dated 27th September/66
From the Supt Engr
1st Division

No 4085/66

Statement shewing
the Expenditure on
account Dredging
Cocanada Harbour
in 1865–66

repairs in Current year, the excess over last
year being 1264 Tons (last load).

3 The quantity dredged during 1864-65
was 75,683 Tons at a Cost as follows

	Dredges during Current year	Including Steam Cranes
Actual working expenses	2-2 7/16	2-3 13/11
Do working & idle days	2-8½	3-4½
Do Do Do Interest for whole year & depreciation on working days only without deducting repairs	4-11 6/16	6-2½

During 1865-66-72,317 Tons more dredged
expenses as follows

Actual working expenses	2-3	2-8
Do working & idle days	3-5	4-2½
Do Do Do Interest for whole year & depreciation on working days only without deducting repairs	5-11½	7-7

4 The gross expenditure in 64-65 was 39,239-13-10

Do in 65-66 is 33,191-2-2

The net expenditure in 64-65 was 16,200-13-2½

Do in 65-66 is 18,192-0-11

With regard to the above I think there is
a Mistake in the returns of previous years
but not having Station books for that
year by me I am unable to check the
returns, My reason for thinking so is that

in

in Progress Report for April 1865 the
net expenditure is shewn as 19652-0-8 whereas
returns shew 16,200-13-2 only in which case
the present year Compares favourably
with the former.

5 I may mention that during Current
year, I have taken great trouble to get
at the actual cost of Dredge, & the returns
now sent in shew the actual Cost of
Dredge, not the Money Spent each Month,
the Coal remaining from previous year
is brought in & that remaining at end of
year deducted, also wages for April 1865
paid in May 1865 deducted, & those for April '66
paid in May '66 added, to shew actual Cost.
I do not think this was done in previous
returns.

6 In forwarding the Sections the blue
Section is at end of previous year, the
dotted Section is half year of Current year,
& red Section at end of Current year. I
have had this done to shew you at a
glance the Comparative State of harbour
at end of each year.

7 I also beg further to point out, that
the Sections only extend to end of Groyne,
and therefore a large quantity of work done

by

by Dredge is not shewn, viz, the work outside groyne, where dredge always work's most favourably, for 3 Months of Year.

I have the honour to be
Your Most Obt Servt
[illegible]
Executive Engineer

N.B. Draftsman has sported the sections they will be forwarded in a day or two

[illegible]

[illegible] Mc Ranquist
Secretary

Inspection Engineer's Office
Chatham 27th September 1866.

No. 134

From Capt. H. F. Mulcaster R.E.
Acting Inspecting Engineer 1st Division
Chatham

To
Colonel C. B. Ogilvie R.E.
Secretary to Lords, M.W.O.
Madras.

Sir,

I have the honor to forward herewith Plan & Section of Pier & Breakwater, & Estimate for Quarrying & Breaking Stone for the Harbour of Refuge at Dundee, as requested in your letter No. 1 of 1st Instant.

I have the honor to be
Sir
Your most obedient Servant
H. F. Mulcaster
Capt. R.E.

Enclosure in letter No. 134 dated 27th September 1866 from the Inspecting Engineer 1st Division

Remarks Statement showing the Expenditure on account of Breakwater Harbour for 1865-66 with Remarks thereon.

Remarks

Dated 5th May 1866
No. 19
Encl. 3

Remarks Statement showing the Expenditure on account of Breakwater Harbour for 1865-66 with Remarks thereon.

From
The Officiating Secretary
to the Govt. of Madras
To
The Inspecting Engineer
1st Division

Dated 5th May 1866
No. 19
Encl. 3

Remarks Statement showing the Expenditure on account of Breakwater Harbour for 1865-66 with Remarks thereon.

O.W. 4085/66.

Report of Progress on account of Breakwater Operations

Public Works Department
No 3357
17

Proceedings of the Madras Government

Under date the 20th October 1866

Read the following

From The Asst. Engineer
of the 1st Division

(R.O. No 134 dated 12th Sept. 1866)

By the Returns and
Statements which he
submitted with this letter, it
appears that the results
of the last half year's
dredging operations in
the Coconada River are
the removal of 29,670
Cubic yards of silt at
a cost of Rs. 9539.2.4
exclusive of the precaution
and interest on Plant
or Rs. 16,408.2.4 inclusive
of these items. This shows
a falling off in regards
the relative costs of the
two kinds of dredging
work during the last

Copy in a Letter to England
Dy 18th December No. 65 of 1866.

From Asst. Engr. 1st Div. Sept. 12th 1866
Rec'd 5 Oct. 1866
No 134
Encls. 6 Disc

Forwards a Report from Lieut. Sage on account of the Dredging Operations connected with the Cocanada Harbour for the Half year ending 30th April 1866.

No 492

ev. 3357 - 20 Oct 66

c. 12th Oct 66 Da - 154

taking the latter course
suggested by Captain Ryves
and noticed in the Pro-
ceedings of Govt. dated
12th May 1866. No. 1528.

The sections show
that no improvement has
been effected by this ex-
penditure, for while at some
points it appears that the
depth of water has con-
siderably diminished,
at others it remains much
as formerly. The Govt.
therefore see no reason to
doubt the correctness of the
opinion which they have
expressed that, as the
effect of dredging is inap-
preciable, its continuance
at a heavy expense would
not be justifiable, and
they desire that the course
directed in the order of
the 12th May last above
quoted may be followed

To the Secy. to Govt. 1st Dn.

Dept. 22d October

Copy rec'd with letter to England
Dy 18th December 1865.

Ans. W 1866 Oct 15th
Gen. of Govt for Octr
(12)
Ans. 3357
Rec'd of the Madras Govt
Dy 20 Oct 1866.

The suspension
of Dredging operations
in the Cocanada River
ordered.

Ans 492 & 493

C. 125 Oct 1866. 02. 15