

(1) Number of pages 10
(2) Date of repair 18-1-43
(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. 2092	Press Mis.
40-41	
Dated 2 9	1862.

Not to be folded or roughly handled

11

*Proceedings of the Madras Government, Public Works Department,
2nd September 1862.*

No. 40. Read the following Endorsement of the Deputy Chief Engineer, Southern Circle, dated Madras, 15th August 1862, No. 53:—

Read the following Extract from the Proceedings of the Deputy Chief Engineer, Southern Circle, in the Department of Public Works, under date the 28th July 1862, No. 35.

Read the following Order of Government:—

(Here enter No. 1,730, dated 18th July 1862.)

1. The Deputy Chief Engineer, Southern Circle, proposes to recommend to Government the undertaking of the scheme of a Canal from Vadaraniem Salt Pans as far as Taputorey, as an instalment of the main and complete project for carrying the communication by tide-water as far as Negapatam; but before submitting the estimate for the minor work (the amount of which he proposes to increase to Rupees 15,000 to cover contingencies of unfavorable strata to be encountered in cutting the Canal) he deems it expedient to request the Acting District Engineer of Tanjore to favor him with his professional opinion upon it as regards its physical and engineering character.

2. Captain Foord, in his letter 15th May 1862, No. 19, seems to imply a distrust of the Canal, if cut, resisting the effects of (it is concluded he means) drift, by strong winds tending to fill it with surface sand. Yet it is observed that Captain Oakes speaks of the Upper stratum through which it would have to be cut as composed of "firm clay and sand;" from which it seems reasonable to conclude that Captain Foord's apprehension may not be well founded.

3. Captain Mullins is requested to confer with Mr. Fraser upon this subject, as his experience of the Tanjore coast is considerable: also Achoota Naidoo who has been a long time in charge of the Range in which the projected Canal would be situated. Coopposawmy Rajoo has also considerable acquaintance with the locality. An early report however brief will be acceptable.

P. S.—The estimate for the Canal from Vadaraniem to Taputorey is herewith transmitted in the hope that the Acting District Engineer may be able to append to it sections of the projected Canal, however general, as also a sketch survey, to admit of the calculations being checked. Government would scarcely be induced to pass the project upon the vague data which, in its present state, it exhibits.

(True Copy.)

(Signed) J. OUCHTERLONY, Lieut.-Colonel, R. E.,
Deputy Chief Engineer, Southern Circle.

From Captain J. MULLINS, Acting District Engineer, Tanjore, to Lieutenant-Colonel J. OUCHTERLONY, Deputy Chief Engineer, Southern Circle, dated Tanjore, 4th August 1862, No. 120.

SIR,

1. In acknowledging the receipt of Extract from your Proceedings, No. 35, of the 28th ultimo, I have the honor to inform you that I am obliged immediately to go to inspect a work in the Combaconum Taluq on which large Revenue interests are dependent, and after that to the lower Anicut works, or I would at once have proceeded to make a personal examination of the Vadaraniem Canal project and to collect the information you required. I have however sent the

* Or will be in a few days.
papers to Mr. Fraser, who is well acquainted with the locality, and who is now,* I believe, in that locality for the purpose of going over the ground with the Acting Collector, and I have no doubt I shall shortly obtain from him full particulars of the proposed work.

reasonable to conclude that Captain Foord's apprehension

*Proceedings of the Madras Government, Public Works Department,
2nd September 1862.*

2. I met Mr. Fraser a few days ago, and he showed me on the map the whole project for the Canal to Negapatam. The project certainly appeared to me to be an admirable one, and the existing rivers and backwaters, at present afford water communication for so great a portion of the distance, that I believe the southern part of the Canal for which sanction is proposed to be, in the first instance, given, is the only section of which the cost per mile will be considerable, and that the outlay required to make the rest of the route to Negapatam, easily and permanently navigable, is so small, that sanction for this part also will be readily accorded, so soon as the papers connected with it can be prepared.

1 Original letter No. 120, dated 4th August 1862.

1 Copy of letter No. 35.

1. Letter No. 35, dated 28th July 1862, from Lieutenant Colonel Ouchterlony, R. E., Deputy Chief Engineer Southern Circle to Captain Mullins, R. E., Acting District Engineer, Tanjore; and reply to the same, No. 120, dated 4th August 1862, are submitted for the information of Government, with reference to G. O. No. 1,730, dated 18th July 1862, and in explanation of the delay which the Deputy Chief Engineer of the Southern Circle has considered preferable to bringing the project of the Vadaraniem Salt Canal in Tanjore before Government in a crude and incomplete state.

(Signed) J. OUCHTERLONY, Lieut.-Colonel, R. E.,
Deputy Chief Engineer, Southern Circle.

No. 41. ORDER THEREON, 2nd September 1862, No. 2,092.

Communicated to the Revenue Department for information, with reference to the Orders in that Department dated 12th July 1862, No. 1,520.

(Signed) W. I. BIRDWOOD, Colonel, R. E.,
Secretary to Government.

No 35.

*Extract from the Proceedings of the Deputy Chief Engineer Southern Circle,
in the Department of Public Works, under date the 28th July 1862*

*Read the following letter from the District Engineer of Government
Here enter No 1,730, dated 18th July 1862.*

The Deputy Chief Engineer Southern Circle proposes to recommend to Government the undertaking of the scheme of a Canal from Vadaraniem Salt pans as far as Tanjore, as an instrument of the main and complete project for carrying the communication by tide waters as far as Negapatam; but before submitting, the Estimate for the minor work of the amount of which he proposes to increase to Rs. 15,000 to cover contingencies of ^{unfavorable} strata to be encountered in cutting the Canal, he deems it expedient to request the Acting District Engineer of Tanjore to favor him with his professional opinion upon it as regards its physical and Engineering character.

Captain Ford, in his letter of 15th May 1862 No. 19, seems to imply a distrust of the Canal, if cut, resisting the effects of (it is concluded he means) drift, by strong winds tending to fill it with surface sand. Yet it is observed that Captain Baker speaks of the Upper stratum through which it would have to be cut as composed of "firm clay and sand," from which it seems reasonable to conclude that Captain Ford's apprehension

may

may not be well founded.

Captain Mullins is requested to confer with Mr. Fraser upon this subject, as his experience of the Tanjore Court is considerable: also Achota Naidoo who has been a long time in charge of the Range in which the projected Canal would be situated. Coopersawmy Rajoo has also considerable acquaintance with the locality. An early report however brief will be acceptable.

Signed J. Cucklertony Sivatt Coll R.E.
By Chief Engineer S. Circle.

P.S. The Estimate for the Canal from Vedaraniam to Teputorey is herewith transmitted, in the hope that the Acting District Engineer may be able to append to it sections of the projected Canal, however general, as also a sketch survey, to admit of the calculations being checked. Government would scarcely be induced to pass the project upon the vague data which, in its present state, it exhibits.

Signed J. Cucklertony Sivatt Coll R.E.
By Chief Engineer S. Circle.

True Copy.

Cucklertony Sivatt Coll R.E.

By Chief Engineer S. Circle.

120 8718/2/83

70 9015/15/1862

120 8718/2/83

Southern Circle

District Engineer's Office -
Tanjore, 4th August 1862

From

Captain J. Mullins
Acting District Engineer

To The Deputy Chief Engineer
D.P.O.

Subject: Sir

In acknowledging the receipt of Extract from your Proceedings, No. 35, of the 28th Ultimo, I have the honor to inform you that I am obliged immediately to go to inspect a work in the Kombaromangal Taluk, on which large Government interests are dependent, and after that to the Lower Annicut works or I would, at once, have proceeded to make a personal examination of the Vedaraniam Canal Project and to collect the information you require: I have however sent the papers to Mr. Fraser, who is well acquainted with the locality, and who is now, I believe, in that locality for the purpose of going over the grounds with the Acting Collector - and I have no doubt I shall shortly obtain from him full particulars of the proposed work.

He will be in a few days

I met Mr. Fraser a few days ago and he showed me on the Map the whole project for the Canal to Nagapattinam. The project certainly appeared to me to be an

an admirable one, and the existing River
and Bactwater, at present afford better
Communication for so great a portion
of the distance, that I believe the latter
one part of the Canal for which sanction
is proposed is in the first instance,
given, is the only section of which the cost
per mile will be considerable, and
that the outlet desired to make the
reach of the route to Mexapitlan,
easily and permanently navigable, is
so small that sanction for this part
also will be readily accorded, so
soon as the papers connected with
it can be prepared -

Yours &c

Wm. L. Williams Captain
of District Engineers

Southern Circle Office D.P.W.
 Madras 15th August 1862.

N^o 53

Letter N^o 35 d^d 28th July 1862 from
 Colonel Duckett R. E., Depy. Chief Engineer
 S.C. to Capt. Mullins R. E. asst. District En-
 gineer, Tanjore; reply to the same, N^o 120,
 d^d 4th Aug^r 1862; are

Submitted for the information of Gov^t.
 with reference to G.O. N^o 1730, d^d 18th July 1862,
 his explanation of the delay which the Deputy
 Chief Engineer of the Southern Circle has considered
 preferable to bringing the project of the bedamian
 Salt Canal in Tanjore before Gov^t in a crude
 incomplete state.

Duckett
 Dy Chief Engineer S. Circle.

Col. M. J. Birdwood, R. E.
 Secretary to Government P. W. D.

10th 15 Aug 1862 N. 53
 10th 15 Aug 1862 N. 53

Tanjore

The Dy District Engr

of Tanjore

Co Dy Chief Engr

Recd 4th Aug 1862

No 120

10th 20th 1862

Delivered in the

presence of Council

to the same in d^d 10th

1862

Dec 18 1862

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Eggs of C. 1862
Dec 18 62. C. 1862
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Professors Mr. 1862
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1862. 41. 1862. 41. 1862. 41.

(1) Number of pages 12(2) Date of repair 12-6-47

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 2692	Press Mis.
173-174	
Dated 10. 11.	18 (2)

Not to be folded or roughly handled

112

*Proceedings of the Madras Government, Public Works Department,
10th November 1862.*

No. 173. Read the following Endorsement of the Acting Deputy Chief Engineer, Central Circle, dated Chepauk, 28th October 1862, No. 150:—

Read the following letter from J. H. DOPPING, Esq., C. E., District Engineer of North Arcot, to Captain E. HEMERY, R. E., Deputy Chief Engineer, Central Circle, dated Arcot, 25th October 1862, No. 1,662.

SIR,

1. In re-transmitting a second time the copy of a letter from Major Watts, which was returned with your Memorandum, No. 139, Original letter, No. 1,612 of October 21st, and copy of letter of the 23rd instant, I have the honor again to from Major Watts, No. 511, of the 2nd instant. express my regret at the postscript having been sent off without the corrections having been completed.

2. The words "the water" were written by me with a $\wedge$ (caret) to show to what part they referred as they followed the word "all" in the original, and the words "the water" which had been before in it were to have been erased, but the Head Writer omitted to erase them, hence all this confusion.

3. I am extremely sorry to say that these are by no means the first or second instances of carelessness on his part and I have over and over again warned him to be more careful, and I have therefore fined him eight Annas.

From Major W. H. WATTS, First Assistant District Engineer of North Arcot, to the District Engineer of North Arcot, dated Chittur, 2nd October 1862, No. 511.

SIR,

1. I have the honor, with reference to your letter No. 1,267, of 11th ultimo, to submit the following report.

2. In my letter No. 457 of 9th September 1862, I entered the works noted in the margin, as breached, on the reports of the Tahsildár; before the necessary inspections had been made by this Department, after actual inspection, it was found that the Tahsildár's reports required modification, the damages sustained by the injured works not

being so extensive as his reports would imply, the latter having been embodied, I presume, from the statements of the villagers themselves.

3. I find that a very small breach did occur to the work named in the margin, but it was speedily filled up by the villagers themselves, no work, therefore, in this case was necessary on our part.

4. The Ramana Tank reported as breached was found, after inspection, not to have been breached at all.

5. I may here remark that with the exception of the Eruvaram Tank none of the other tanks reported as injured are provided with a Calingulah, they are all small works, and in most instances, from their surplus water escaping over rocky and hard soil, they do not need Calingulahs for surplus discharge.

6. The dimensions of the Eruvaram Calingulah, are length of body $15\frac{1}{2}$ yards, height of body $\frac{3}{4}$ of yard above foundations, breadth of body at top 1 yard, height of wings $1\frac{1}{2}$ yard. It is one of the new form of Calingulahs. A plain masonry dam built up to high water line of tank, without upright stones, and it has answered its purpose admirably. Its dimensions are ample for free discharge of all surplus water that may come to the tank. The Eruvaram is a second class tank.

CHITTOOR TALUQ.

Musty Tank.
Nayralla Chervu.
Mugely Chervu near Diguva Maradapullay.
Eruvaram Old Tank.
Do. River Channel.
Curcumpullay Ramana Chervu.
Cauveripankum Madura, Paidday Chinnacumpullay Damor Chervu.
Repairing the sluice of Cumasami Tank in Checkrapullay, a hamlet of Cauveripankum.

Mugely Chervu near Diguva Maradapullay.

Curcumpullay Ramana Chervu.

Eruvaram Tank.

Eruvaram Calingulah.

*Proceedings of the Madras Government, Public Works Department,
10th November 1862.*

Breach to Eruvaram Tank.

7. The breach that happened to the Eruvaram Tank was solely owing to the carelessness of the villagers themselves, for, at the time the accident to the bund occurred, the tank was not holding half its usual supply, and the water had not reached the Calingulah by the space of at least 1 yard. It appears that the Ryots had dug deep holes down into the bund to unearth ground rats, and had omitted to fill up these holes, the water percolated through the revetment stones and soon cut its way through the weakened bund. I intend to bring this matter to the notice of the Collector directly I can gather certain authentic details connected with this subject. I have personally inspected the tank and can state that except where these holes had been dug the bund is in excellent condition.

* Cauveripaukum Madura, Paidday Chunnacumpullay Damur Cheruvu. Musty Tank.

† Repairing the sluice of Curnasami Tank in Cheekarapullay, a hamlet of Cauveripaukum.

‡ Mr. Booth reports by the contractor himself at his own expense. 71/10162.—J. H. D.

Eruvaram river channel.

11. All the works breached or otherwise injured in the Chittoor Taluq have, I am glad to say, been fully repaired and are now as secure as ever.

§ Paruampett Channel. Peerumbady Tank. Venkatasamudrum do. river channel. Earthen embankment connecting the two rough stone conduits (dams) together at Mudenampett Cavanur Tank.

|| Peerumbady Tank.

it has not been repaired for some years. The villagers, in this case, ought certainly themselves to have executed such small repairs as would have prevented its breaching, but as usual they did nothing to preserve their own tank.

¶ Paruampett Channel.

** The earthen bund connecting the Mudenampett two masonry conduits (dams).

†† Venkatasamudrum Tank river channel.

‡‡ Cavanur Tank.

14. This work¶ was breached by a sudden rush of water from a high fresh in the Paruampett jungle stream, its source of supply.

18. As I mentioned before all the works injured in Chittoor Taluq have already been fully repaired, and I am glad to be able to assure you that the works damaged in Gurriattum Taluq will all be put in order by the 15th instant.

8. The works named in the margin* were also breached, but not seriously; the accidents were caused by Banyan trees (small ones) growing on the bund, being uprooted by the high wind that prevailed and consequently breaking up the bund.

9. In the case of this work† no breach occurred, part of the new built tunnel of the sluice was washed away, but the damage was not extensive and the necessary repairs have since been made good.‡

10. The breach in the Eruvaram main Channel was a small one, it has already been filled up and was caused by rats burrowing in the bank and weakening it, the villagers ought to have seen to this.

12. I now beg to add a short report regarding the few§ works injured in the Gurriattum Taluq by the late heavy rains, certainly since I have been in this District over three years, I have never seen such heavy rain as that which fell in last month, September. The works injured in the Gurriattum Taluq were reported to you in my letter No. 502 of 1st instant.

13. This work,|| a 3rd class tank, was breached owing to the bund being weakened by ground rats burrowing in it, the villagers, in this case, ought certainly themselves to have prevented its breaching, but as usual they did nothing to preserve their own tank.

14. This work¶ was breached by a sudden rush of water from a high fresh in the Paruampett jungle stream, its source of supply.

15. This bund** was breached by the high waves caused by the strong wind that prevailed.

16. This work†† was breached owing to the high fresh that took place in the mountain stream, which is its source of supply, the water over-flowed its banks.

17. I am glad to say this important first class tank‡‡ was not breached, some of the revetment, in the middle of the bund for about a length of thirty yards had slipped, and some earth required to be filled in behind this part of revetment and the latter to be re-built, this is now being done as an emergent measure, to prevent any further damages. It is provided with a fine Calingulah.

*Proceedings of the Madras Government, Public Works Department,
10th November 1862.*

P. S.—“I find I have omitted the Nayrulla Tank, §§ Chittoor Taluq, Nayralla Cheruvu. “this§§ tank was breached from the Paidday Chinnacum-pullay Damur Tank above it, bursting its bund, and all the water coming into this tank, “breached its bund also.”

(A true Copy.)

(Signed) J. H. DOPPING, C. E.,
District Engineer of North Arcot.

Submitted to Government in continuation of Endorsement No. 86, dated 15th September 1862, and agreeably to Government Order No. 2,277, dated 24th September 1862.

(Signed) E. HEMERY, Captain, R. E.,
Acting Deputy Chief Engineer, Central Circle.

No. 174. ORDER THEREON, 10th November 1862, No. 2,692.

1. The Government are glad to observe that all the works injured in the Chittoor Taluq by the rains that fell in September last, have been fully repaired and made secure. They also hope that the works damaged in the Gurriattum Taluq have been put in order by this time.

2. From the foregoing report it appears that the breach of one tank* was solely occasioned by carelessness on the part of the villagers, while those of two others† were caused by their omitting to do the usual minor works of conservancy. The Collector is requested to adopt the necessary measures to prevent the recurrence of similar disasters arising from causes above adverted to.

(Signed) W. I. BIRDWOOD, Colonel, R. E.,
Secretary to Government.

N^o 150

52.

[Faint, mostly illegible handwritten text, possibly a list of names or dates.]

Submitted to Government
in continuation of endorsement N^o
86 dated 15th September 1862 and
agreeably to Government Order
N^o 2277 dated 24th September 1862.

Central Circle Office

Chepauk

28th October 1862

[Signature]

Captain R.E.

Deputy Chief Engineer
Central Circle

[Signature]

Colonel W.I. Birdwood R.E.
Secretary to Government
Public Works Department

Order
No 2692-10 November 18

Chitten Lake
Nativity Church,
Rayalla Chavvi
Mangalyalenu near
Dignwa Maradullary
Pinnarumold Sankr.
River Chamre

No 511. 1 Chittur October 2^d 1862
From Mr Major W. H. Watts
1st Asst Dist Engineer of M. C.
The District Engineer
B. Narasimha

XVI, I have the honor, with reference
to your letter N^o 1267 of 11th ultimo to
submit the following Report.

2 — In my letter No 457 of 9th Sept 1862
I entered the matter noted in the margin
as being a check on the Reports of the Sasildar,
before the necessary inspections had been
made by this Department, after actual
inspection, it was found that the Sasildar's
Reports required modification, the
damages sustained by the injured parties
not being so extensive as his report would
imply, the latter having been embodied
in the Expenditure, from the statements of the
Villagers themselves.

3 ————
did occur to the work name in the
margin, but it was speedily filled up
by the Villagers themselves, & no work
therefore, in this case, was necessary on
our part —

Circumfully 4. — The Mammam, sent upon
Ramanak, is breached, was found, after inspection,
thereover, not to have been breached at all —

5— I may here remark that with

with the exception of the Eriwarum tank. Eriwarum
none of the other tanks reported as injured. Tanks,
are provided with a Calingulah, they are
all small works, and in most instances,
from their surplus water, escaping
over rocky and hard soil, they do not
need Calingulahs for surplus discharge.

6—The dimensions of the Eriwarum
Calingulah, are length of body $15\frac{3}{4}$ yds.
height of body $\frac{3}{4}$ yard above foundation,
breadth of body at top $1\frac{1}{2}$ yard, height of
wings $1\frac{1}{2}$ yard. It is one of the new form
of Calingulahs—a plain masonry dam
built up to high water line of tank,
without a spout or stone, and it has
answered its purpose admirably. Its
dimensions are ample for free discharge
of all surplus water that may come
to the tank. The Eriwarum is a 2nd class
tank.

7—The breach that happened to the
Eriwarum tank, was solely owing to the
carelessness of the villagers themselves, * Breach
for, at the time the accident to the bund to Eriwarum
occurred, the tank was not holding half
its usual supply, and the water had not
reached the Calingulah by the space of
at least 7 yds. It appears that the
Ryots had dug deep holes down into the bund
to unearth ground rats, and had omitted

to fill up these holes, the water percolated
through the pavement stones and soon
cut its way ^{through the} beneath the bund. I intend
to bring this matter to the notice of the
collector directly & am gathering certain
authentic details connected with this
subject. I have personally inspected
the tank and can state that except where
these holes had been dug—the bund is in excel-
lent condition.

8—The works named in the
Caveripattin & Masura Poddai & Nagin were also breached, but not
Chinnampatti seriously—the accidents were caused
by Ranjan trees (small bones) growing
on the bund, being **uprooted** by the high
wind that prevailed and consequently
breaching the bund.

Repairing the sluice of Eriwarum
9—In the case of this work, no breach
occurred, part of the new built tunnel
of the sluice was washed away, but the
damage was not extensive, and the necessary
repairs have since been made good.

Eriwarum tank
10—The breach in the Eriwarum
channel from Chinnampatti was a small one, it has
already been filled up, and was caused
by rats tunnelling in the bank. I was re-
minded by the villagers ought to have been
to the tank.

11—All the works breached or otherwise
injured in the Chittur Taluq have, I am glad
to say

* Mr. North reports
by the contractor
Srinivasulu at the
on 7/10/1902

No 1662-4 M. W. in Eng. Office
Recd 25th October 1862
From J. W. Popping Esq. C. E.
District Engineer M. W.
To Captain C. H. Henry Esq.
Deputy Chief Engineer C. E. Circle
Madras

Sir, In transmitting a 2nd time the copy of a letter from Major Watts which was returned with your Memo No 139 of the 23rd instant I have the honor again to express my regret at the Postscript having been sent off without the corrections having been completed.

The words "the water" were written by me with a (mist) to show to what part they referred as they followed the word "all" in the original and the words "the water" which had been before in it were to have been erased but the Head Writer omitted to erase them hence all this confusion.

I am extremely sorry to say that these are by no means the 1st or 2^d instances of carelessness on his part and I have over & over again warned him to be more careful and

Enclosure
original letter
No 1612 of Oct. 21st
and copy of letter
from Major Watts
No 511 of the 2nd inst

and I have therefore fined him
8 annas.—

I have seen

Mr. Jeffery C.B.

With regard to M.

Mr. 3236/62

Comd. Mr.

Comd. Mr. 3236/62

Comd. Mr. 3236/62

From

The District Engineer

2. 11. 62.

North District Engineer

Central Circle

Mr. 3236/62

Dated 29th

12th October 1862

Mr. 1662

Enclosure No. 1 of

original letter No. 1612

of 21st inst. and copy of

letter No. 571 of the 22nd inst.

from Major W. H. reporting
the cause of the same
breaches in the Chittur
Taluk.

No. 2692.

Proceedings of the Madras Government.

Under date the 10th November 1862.

Recd the following letter
from the Asst. Deputy Chief
Engineer Central Circle.

Submit a further report
on the damages done to the Irriga-
tion Works in the Chittoor Taluk (See entry 28th October 1862 of 150)
of the North Arcot District.

The Govt are glad to observe
that all the works injured in
the Chittoor Taluk by the rains
that fell in Sept. last. have
been fully repaired and made
as secure as before. They also
hope that the works da-
-maged in the Gjeriattem
Taluk have been put in
order by this time.

From the foregoing
report it appears that the
breach of one tank was
solely occasioned by
carelessness on the part
of the villagers, while
those

Eruraram Tank

three of two others were
caused by their omitting
to do the usual minor
works of conservancy.

The Collector is requested
to adopt the necessary
measures to prevent the
recurrence of ~~breeds~~
~~such~~ similar disasters arising
~~from neglect on the part~~
~~of the villagers~~ from causes
above adverted to.

[Signature]

(5)
+ Peerambari Tank
Irmaram Channel

[Handwritten notes and stamps, including "Recd" and "B-6"]

2072

13 Copies

To

The Actg Dy Chief Insp.
C. C. C. Dept. 11
No. 18 of Revd.

C. C. C. 320

J. W. 1862 *Spokane*
No. of Gents for *Amos*
1862.

Pro. of the *Marine* *Fact*
S. 10. 1862

Enclosurement of *the*
Chief Engineer *General*
Submitting a report of the
various *Cones* which are
mentioned the *General* in
General *South* in the *list*
of *of the* *Cones* with *orders*
thereon.

1862-1863