

60203
Public Works (1896) Department.

G.O., No. 980 J

DATED 20th November 1896

W. J. J.

[Despatch Abstract.]

Locks: Estimates aggregating Rs. 26,400 for
converting Pydery North flood gate and Chip-
salern South ^{flood} gate into —, Buckingham
Canal, sanctioned.

T.C.
20/11

[illegible][illegible]

Government (1896) of Madras.
PUBLIC WORKS.

Spare copies.

G.O., No. 980 I., 20th November 1896.

NOVEMBER.

Estimates aggregating Rs. 26,400 for converting Pyderu north flood gate and Chippaleru south flood gate into —, Buckingham Canal, sanctioned.

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

Irrigation,
Account.

Read—the following papers:—

From the Executive Engineer, Buckingham Canal Division, to the Superintending Engineer, II Circle, dated 11th July 1896, No. 899.

With reference to your No. 97 B.C., dated 23rd May 1896, and in continuation of my No. 481, dated 29th May 1896, I have the honour to submit for sanction plans and estimates for conversion of Pyderu north flood gate and Chippaleru south flood gate into locks amounting to Rs. 13,000 and Rs. 13,400, respectively.

2. Permission is solicited to collect materials for the construction of these two locks before the commencement of the monsoon, so that they may be completed before the 31st March 1897.

No. 222 B.C.

Forwarded to the Chief Engineer for Irrigation for favour of the sanction of Government being obtained to the estimates, amounting to Rs. 13,000 and Rs. 13,400, for converting the flood gates at Pyderu north and Chippaleru south into locks.

2. Additional funds are necessary to start the works as soon as the estimates are sanctioned, as the current year's grant of the division is insufficient to meet the outlay on these works.

10th August 1896.

(Signed) W. L. C. BADDELEY, Major, R.E.,
Superintending Engineer, II Circle.

ENCLOSURES.

Report to accompany estimate for conversion of Chippaleru south flood gate into a lock.

Amount of estimate Rs.
... .. 13,400

2. The design for this lock is similar to that in the general type plan for tidal locks, submitted with this office No. 1295, dated 15th August 1894.

3. The principal levels are as follow:—

M.S.L.	...	...	...	...	...	...	...	...	...
H.S.T.	...	...	...	...	...	...	...	...	20-00
L.R.T.	...	...	...	...	...	...	...	...	23-00
Sill	...	...	...	...	...	...	...	...	18-81
Floor	...	...	...	...	...	...	...	...	14-00
	...	...	...	...	...	...	...	...	13-25

4. Coping to walls or height of lock = H.S.T. + 6" = 23-50. Height of walls from sill to coping = 23-50 — 14-00 = 9-50.

5. Batter for walls 1 in 4 or 2-37 which may be taken as 2-50 feet, making width of the walls 4 feet at base.

6. The sill of the lock to be 4-81 feet below L.R.T., i.e., 14-00 or on the same level as that of the existing flood gate. The sill of the existing flood gate to be raised 6" for additional gate, instead of the old sill being lowered as originally proposed in general type report.

7. The width of wings in superstructure at base will be 4 feet, and the full width of masonry platform at the heel post will be 6 feet. The length of wings in superstructure will be 1½ times the height and is equal to 16 feet with an extra allowance of 1 foot 9 inches for the support of revetment.

8. Existing flood gate.—The height of existing flood gate from sill to coping level is 15-25 feet.

9. New gates are required, as no existing gates are available for transfer to this lock.

10. General.—All other particulars in regard to construction can be gathered from the report that accompanied the general type plan.

Report to accompany estimate for conversion of Pyderu north flood gate into a lock.

Amount of estimate Rs.
... .. 13,000

The design, dimensions and levels, &c., for this lock are similar to those given in the report for conversion of Chippaleru south flood gate into a lock.

11th July 1896.

(Signed) J. LALOR, Captain,
Offg. Ex. Engr., Buckingham Canal.

Memo. No. II/79 B.C.

With reference to endorsement No. 222 B.C., dated 10th ultimo, of the Superintending Engineer, II Circle, the undersigned has the honour to request that he will be so good as to furnish, at his earliest convenience, an explanation of his endorsement No. 273 B.C., dated 3rd November 1895, embodied in Proceedings of Madras Government, No. 348 I., dated 20th April 1896, in the light of the present proposal for the conversion into locks of the Pyderu north and Chippaleru south flood gates.

2nd September 1896.

(Signed) F. J. WILSON,
Under Secretary to Government.

From Major W. L. C. BADDELEY, R.E., Superintending Engineer, II Circle, to the Chief Engineer for Irrigation, dated 9th September 1896, No. 268 B.C.

In reference to your No. II/79 B.C. of 2nd September 1896, I have the honour to report that the endorsement No. 273 B.C., dated 3rd November 1895, was written during my absence from the circle on privilege leave.

2. My reasons for recommending the conversion into locks of the Pyderu north and Chippaleru south flood gates are that this reach, viz., from 123/7 to 132/7 has been difficult to maintain and heavy clearances have been necessary this year.

3. While the locked-in-reaches contained 4 to 5 feet of water, this reach only had 2 to 2½ feet and boats were continually sticking until clearances could be carried out.

4. I have no doubt that the locks recommended to be built will prove a great economy, as silt clearances are always expensive and unsatisfactory and labour is becoming scarce in the neighbourhood of the canal owing to the railway works.

Memo. No. II/84 B.C.

With reference to his letter No. 268 B.C., dated 9th September 1896, the Superintending Engineer, II Circle, is requested to report how he proposes to dispose of the local drainage between Pyderu north and Chippaleru south flood gates on the Buckingham Canal.

30th September 1896.

(Signed) F. J. WILSON,
Under Secretary to Government.

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

Read—the following papers:—

From the Executive Engineer, Buckingham Canal Division, to the Superintending Engineer, II Circle, dated 11th July 1896, No. 899.

With reference to your No. 97 B.C., dated 23rd May 1896, and in continuation of my No. 481, dated 29th May 1896, I have the honour to submit for sanction plans and estimates for conversion of Pyderu north flood gate and Chippaleru south flood gate into locks amounting to Rs. 13,000 and Rs. 13,400, respectively.

2. Permission is solicited to collect materials for the construction of these two locks before the commencement of the monsoon, so that they may be completed before the 31st March 1897.

No. 222 B.C.

Forwarded to the Chief Engineer for Irrigation for favour of the sanction of Government being obtained to the estimates, amounting to Rs. 13,000 and Rs. 13,400, for converting the flood gates at Pyderu north and Chippaleru south into locks.

2. Additional funds are necessary to start the works as soon as the estimates are sanctioned, as the current year's grant of the division is insufficient to meet the outlay on these works.

10th August 1896.

(Signed) W. L. C. BADDELEY, Major, R.E.,
Superintending Engineer, II Circle.

ENCLOSURES.

Report to accompany estimate for conversion of Chippaleru south flood gate into a lock.

Amount of estimate Rs. 13,400

2. The design for this lock is similar to that in the general type plan for tidal locks, submitted with this office No. 1295, dated 15th August 1894.

3. The principal levels are as follow:—

M.S.L.	...	...	...	...	...	...	...	...	...
H.S.T.	...	...	...	...	...	...	...	...	20-00
L.R.T.	...	...	...	...	...	...	...	...	23-00
Sill	...	...	...	...	...	...	...	...	18-81
Floor	...	...	...	...	...	...	...	...	14-00
	...	...	...	...	...	...	...	...	13-25

4. Coping to walls or height of lock = H.S.T. + 6" = 23-50. Height of walls from sill to coping = 23-50 — 14-00 = 9-50.

5. Batter for walls 1 in 4 or 2-37 which may be taken as 2-50 feet, making width of the walls 4 feet at base.

6. The sill of the lock to be 4-81 feet below L.R.T., i.e., 14-00 or on the same level as that of the existing flood gate. The sill of the existing flood gate to be raised 6" for additional gate, instead of the old sill being lowered as originally proposed in general type report.

7. The width of wings in superstructure at base will be 4 feet, and the full width of masonry platform at the heel post will be 6 feet. The length of wings in superstructure will be 1½ times the height and is equal to 16 feet with an extra allowance of 1 foot 9 inches for the support of revetment.

8. Existing flood gate.—The height of existing flood gate from sill to coping level is 15-25 feet.

9. New gates are required, as no existing gates are available for transfer to this lock.

10. General.—All other particulars in regard to construction can be gathered from the report that accompanied the general type plan.

Report to accompany estimate for conversion of Pyderu north flood gate into a lock.

Amount of estimate Rs. 13,000

The design, dimensions and levels, &c., for this lock are similar to those given in the report for conversion of Chippaleru south flood gate into a lock.

11th July 1896.

(Signed) J. LALOR, Captain,
Offg. Ex. Engr., Buckingham Canal.

Memo. No. II/79 B.C.

With reference to endorsement No. 222 B.C., dated 10th ultimo, of the Superintending Engineer, II Circle, the undersigned has the honour to request that he will be so good as to furnish, at his earliest convenience, an explanation of his endorsement No. 273 B.C., dated 3rd November 1895, embodied in Proceedings of Madras Government, No. 348 I., dated 20th April 1896, in the light of the present proposal for the conversion into locks of the Pyderu north and Chippaleru south flood gates.

(Signed) F. J. WILSON,
Under Secretary to Government.

2nd September 1896.

From Major W. L. C. BADDELEY, R.E., Superintending Engineer, II Circle, to the Chief Engineer for Irrigation, dated 9th September 1896, No. 268 B.C.

In reference to your No. II/79 B.C. of 2nd September 1896, I have the honour to report that the endorsement No. 273 B.C., dated 3rd November 1895, was written during my absence from the circle on privilege leave.

2. My reasons for recommending the conversion into locks of the Pyderu north and Chippaleru south flood gates are that this reach, viz., from 123/7 to 132/7 has been difficult to maintain and heavy clearances have been necessary this year.

3. While the locked-in-reaches contained 4 to 5 feet of water, this reach only had 2 to 2½ feet and boats were continually sticking until clearances could be carried out.

4. I have no doubt that the locks recommended to be built will prove a great economy, as silt clearances are always expensive and unsatisfactory and labour is becoming scarce in the neighbourhood of the canal owing to the railway works.

Memo. No. II/84 B.C.

With reference to his letter No. 268 B.C., dated 9th September 1896, the Superintending Engineer, II Circle, is requested to report how he proposes to dispose of the local drainage between Pyderu north and Chippaleru south flood gates on the Buckingham Canal.

30th September 1896.

(Signed) F. J. WILSON,
Under Secretary to Government.

From Captain J. LALOR, Officiating Executive Engineer, Buckingham Canal Division, to the Superintending Engineer, II Circle, dated 17th October 1896, No. 1683.

As requested in your endorsement No. 309 B.C., dated 12th October 1896, on memorandum from the Chief Engineer for Irrigation, to the Superintending Engineer, II Circle, No. II/84 B.C., dated 30th September 1896, I have the honour to report that there will be no difficulty in disposing of the local drainage between Pyderu north and Chippaleru south flood gates.

2. Starting from the Pyderu north flood gate to Iskapalle south flood gate, the local drainage in this reach falls into the Pyderu river. Between the Iskapalle south and north flood gates, a distance of 7 furlongs, the spill of the Pyderu river and land floods flow through this open reach and the Iskapalle bar opens for a short period. To my knowledge this bar has only opened once in five years and then closed up in a month's time. When this bar does not open, the waters find their way to the sea through the Pyderu river.

3. These 7 furlongs of open reach can be left open in the rainy season and a low bank formed every year extending across the low ground from the Iskapalle south flood gate to the adjacent high ground on the west side south-east of the salt pans to keep in the high tides during the season from January to May when the high tides are low.

This small bank will not cost more than Rs. 200 a year and can well be spared from maintenance, as the savings from clearance in this reach of canal, when the locks are built, will be considerable—vide paragraph 3 of my letter No. 385, dated 15th May 1896.

4. From the Iskapalle north flood gate to Chippaleru south flood gate, a masonry outlet of 5 vents of 6 feet span each exists. The crest is at a suitable level and the outlet has been found efficient to discharge all the local drainage between these two gates.

5. I would again ask permission to start the temporary diversions and collection of materials for these two locks immediately, for unless these are done now, it will not be possible to complete these locks in the current official year.

No. 324 B.C.

Forwarded to the Chief Engineer for Irrigation with reference to memo. No. II/84 B.C., dated 30th September 1896. The favour of early orders on paragraph 5 of the Executive Engineer's letter is requested.

28th October 1896.

(Signed) L. L. WICKHAM,
for Suptg. Eng., II Circle.

No. 204 I.

Note by the Chief Engineer for Irrigation.

In July last the Superintending Engineer, II Circle, wired for permission to collect materials for the conversion into locks of the Pyderu north and Chippaleru south flood gates to admit of their completion before the 31st March 1897, when the construction estimate for the Buckingham Canal will be closed. He was instructed to submit estimates for the works, which he has done with his endorsement No. 222 B.C., dated 10th August 1896.

2. In recommending the two locks sanctioned in G.O. No. 348 I., dated 20th April 1896, the Officiating Superintending Engineer stated "the construction of these works, in addition to those already approved, will be necessary." The Superintending Engineer was therefore asked for an explanation of this statement in the light of the proposal for the conversion into locks of the Pyderu north and Chippaleru south flood gates.

3. In his letter No. 268 B.C., dated 9th September 1896, Major Baddeley explains that the statement above referred to was written during his absence from the circle on leave. He recommends the construction of the two additional locks on the score of economy as they will render the canal between miles 123/7 and 132/8 a "locked-in" reach, which will facilitate navigation and obviate the necessity for silt clearances, which are expensive, unsatisfactory and difficult to carry out owing to scarcity of labour.

4. As it is represented in the Superintending Engineer's endorsement No. 324 B.C., dated 28th October 1896, that there will be no difficulty in disposing of the local drainage between the proposed locks, the estimates are recommended for sanction.

5. Steps have already been taken to provide the funds required for the construction of the locks.

(Signed) W. HUGHES,
Chief Engineer for Irrigation.

10th November 1896.

ORDER—No. 980 I., dated 20th November 1896.

The following estimates are sanctioned from the balance of the amount reserved for unforeseen works of the Buckingham Canal, which will then be reduced to Rs. 90,217 :—

Irrigation.

43. Minor Works and Navigation.

Minor Works for which Capital and Revenue Accounts are kept.

Buckingham Canal.

Capital Account.

1. Works.

2. Main Canals and Branches.

9. Navigation.

1. Converting Pyderu north flood gate into a lock.

Estimate ...	...	...	...	...	...	...	...	...	Rs.
									13,000

2. Converting Chippaleru south flood gate into a lock.

Estimate ...	...	...	...	...	...	...	...	...	Rs.
									13,400

2. This sanction is registered as No. 136 I. of 1896-97.

(True Extract.)

Under Secretary to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
" Superintending Engineer, II Circle.
" Executive Engineer, Buckingham Canal Division,
with fourteen enclosures.
" Examiner, Public Works Accounts.

HC.
no 980 I of 20 "Nov 1896"
PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.
PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the

Read the following

Revised Report
{ From Supy Inf. U. Cich, W. 222 B.C. of 10.8.96
to do. - 79 B.C. of 2.9.96
From do. - 268 B.C. of 9.9.96
to do. - 84 B.C. of 30.9.96
From do. - 324 B.C. of 28.10.96

W 204. I of 10.8.96
Note by the Chief Inf.
for Irrigation.

140 In July last the
Supy Inf. U. Cich, wired
for permission to collect
materials for the con-
version into locks of
the Pyderu north &
Chippaluru south flood
gates to admit of their
completion before the
31st March 1907, when
the construction estimate
for the Buckingham
Canal will be closed.
He was instructed to

submit estimates for the works, which he has done with his endorsement, No 222 MC, of 15. Aug 196.

2. In recommending the two locks sanctioned in G.O. No 348. I, of 25. April 196, the officiating Suptg Engr stated "the construction of these two locks will make the Buckingham Canal quite complete & efficient & no further works, in addition to those already approved, will be necessary." The Suptg Engr was therefore asked for an explanation of this statement in the light of the proposal for the conversion into locks -

the Pydum north & Chippaluru south flood gates.

15

3. In his letter, No 268 MC, of 9. Sept 196, Major Maddeley explains that the statement above referred to was written during his absence from the Circle on leave. He recommends the construction of the two additional locks on the score of economy as they will render the canal between miles $\frac{123}{VII}$ & $\frac{132}{VII}$ a "locked in" reach, which will facilitate navigation & obviate the necessity for silt clearances, which are expensive, unsatisfactory & difficult to carry out owing to scarcity of labour.

4. As it is represented in the Suptg Engr's endorsement, No 324 MC, of 28.

Oct 196, that there will be no difficulty in disposing of the local drainage between the proposed locks, the estimates are recommended for sanction.

5. Steps have already been taken to provide the funds required for the construction of the locks.

Order thereon

The following estimates are sanctioned from the balance of the amount reserved for unforeseen works of the Buckingham Canal which will then be reduced to Rs. 90217

Irrigation

13. Minor works Major

Form No. 1-500-14-6-96

Minor works for which

+ Rs 116,617

15.11.96

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the

16/10

Read the following

Capital & Res. Accounts are kept.

Buckingham Canal
Capital Account.

I. Works

2. Main Canals & Branches

9. Navigation

1. Converting System north flood gate into a lock.

Estimate Rs 13,000

2. Converting Chippalem south flood gate into a lock. Estimate Rs 13,400

2. This sanction is registered as No. 1369 of 1896-97.

The Chief Engr to I. Supd Engr, Circular, Engr, Buckingham Canal D. Engr, P. W. D. 10/11/96 10/11/96 10/11/96 10/11/96 10/11/96 10/11/96 10/11/96 10/11/96 10/11/96 10/11/96

10/11/96

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Public Works (1896) Department.

CURRENT No. 10203

Order within

13

From
The Chief Engineer
for Irrigation

No. 204-J

Dated 10-11-96

Received 12-11-96

Enclosures 21 (5 plans)

Spare copies

SUBJECT.

Estimates for the conversion
of Ryder's North and Chippa
- low south flood gates into
locks.

Wes
20/11

W.H.
18/11

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G.O.	No.	Department.	Date.
S.O.	<u>7399</u> A	P.W.	28-8-70
"	<u>7119</u> A	"	19-8-70
"	3929	"	5-5-70
"	3489	"	20-4-70
"	2233 ✓	"	7-9-70

G.O.	No.	Department.	Date.

Order

CURRENT No.

From

The Sisyphus Engine
2 volumes

No. 324 B. c

Dated 28th October 1896

Received

Enclosures

Spare copies

SUBJECT

Pydon North and Chippewa
South flood gates - Eye Engi
report regarding the disposal
of local drainage of -

BACK PAPERS.

G.O.	No.	Department.	Date.
S.O.			
"			
"			
"			
"			
22			

FURTHER PAPERS.

[illegible]

Letter from Captain J. B. Blos.
officiating Executive Engineer,
Birmingham Canal. No 10 to the
Superintending Engineer, 2nd
Circle, No 1683. dated 17th October 1903.

As requested in your Encl
No 309 B.C., dated 12th October 1896,
on memo from the Chief Engineer
for Irrigation to the Secy: Encl.
2nd (Circular, No 4) B.C., dated 20th Sept.
1896, I have the honor to report
that there will be no difficulty
in disposing of the local drain-
-age between Pydem North and
Chivalam South flood gates.
2. Starting from the Pydem North
Flood Gate to Isakapally South
Flood Gate, the local drainage
in this reach falls into the Pydem
River.

[illegible]

G.O.	No.	Department.	Date.

As requested in your Encl^{re}
No 309 B.C., dated 12th October 1906,
on memo from the Chief Engineer,
for Drigation to the Supt. Engr.
2nd Circle, No 478 B.C., dated 20th Sept^r
1896, I have the honor to report
that there will be no difficulty
in disposing of the local drain-
-age between Pydem North and
Chivvalam South flood gates.
2. Starting from the Pydem North
Flood Gate to Isakapally South
Flood Gate, the local drainage
in this reach falls into the Pydem

river. Between the Seakowally
South and North Flood Gates,
a distance of 7 furlongs, the spill
of the Pyderm river and land
floods flow through this open
reach and the Seakowally bar
opens for a short period. To my
knowledge this bar has only opened
once in five years and then closed
up in a month's time. When this
bar does not open, the waters
find their way to the sea through
the Pyderm river.

3. These 7 furlongs of open reach
can be left open in the rainy
season and a low bank found
every year extending across the
low ground from the Seakowally
South flood gate to the adjacent
higher ground on the west side
South

South east of the salt pans to
keep in the high tides during
the season from January to May
when the high tides are low.

This small band will not
cost more than Rs 200 per year
and can well be shared from
maintenance, as the savings
from clearance in this reach of
canal, when the locks are built,
will be considerable. Vide para
3 of my letter No. 385 of 15-5-96

4. From the Seakowally North
flood gate to Chippaluru
North flood gate, a masonry ^{with the}
outlet of 5 vents of 6 ft span ^{each}
each exists. The crest is at a ^{con-}venient
-able level and the outlet has
been found efficient to dis-
-charge all the local drainage
between these two gates. 5

5. I would again ask per-
 - mission to start the tempo.
 - rary diversions and correct.
 - ion of materials for these
 two locks immediately, for unless
 these are done now, it will
 not be possible to complete
 these locks in the current spec-
 - ial year.

32403C
 28.10.96

Forwarded to the
 Chief Engineer for Navigation
 with reference to memo no. 2/28PC
 30-9-96
 The favor of early orders on para
 5 of the Executive Engineer's letter
 is requested.

L. L. Wickham
 Executive Eng^r
 for Sub-Engin^r
 Civil

015501
 10200

Public Works (1896) Department.

CURRENT No.

Order

From

The Chief Engineer
 for Navigation

No. 84 B C

Dated 30-9-96

Received

Enclosures

Spare copies

SUBJECT.

Requesting to report how the
 Sub-Engineer proposes to
 dispose of the local change
 between Ryder North and
 Chiff above South flood
 gates on the Buckingham
 Canal.

[illegible][illegible]

No P 488 d/30-9-96
Memo

With reference to
his letter No 268 B.C
dated 9th Sept/96
the Supy Engr II Circle
is requested to report
how he proposes to
dispose of the local
drainage between
Pydum North and Chappa.
- turn south flood gates
on the Buckingham
Canal.

30/8/96

To the SE II Arch.

2000

Public Works (1896) Department.

CURRENT No.

Order

From *The S. & P. Engineers
of India*

No. 26818C

Dated 9th September 1896

Received

Enclosures

Spare copies

SUBJECT.

*Pyderu north & Chappalera -
South flood gates - & planing
the necessity for the conversion
of - into locks -*

*11/25/96
10/25/96*

[illegible][illegible]

2nd Circle

From,

Major W. L. C. Barry R.R.
Superintending Engineer.
T. Cires.

The Chief Engineer,
For Irrigation.

Sir,

In reference to your no.
II/79 BC, of 2nd September, 1896, I
have the honor to report that the
endorsement no. 273 BC, dated 3-11-95
was written during my absence
from the Circle on privilege leave. &c.

2. My reasons for recommend-
-ing the conversion into locks of
the Pyderm North and Chippaburn
South flood gates are that this
reach viz^{from} 123 VII to 132 VII has been
difficult to maintain & heavy clear-
-ances have been necessary this year.

3. While the locks 3-in-reaches contained 4 to 5 feet of water, this reach only had 2 to 2 1/2 feet and boats were continually sticking until clearances could be carried out.

4. I have no doubt that the locks recommended to be built will prove a great economy, as all clearances are always expensive and unsatisfactory & labour is becoming scarce in the neighbourhood of the canal, owing to the Railway works.

I have the honor to be,

Sir,

Yours most obediently
Wm Baddley Major R.E.
Superintending Engg.
The Canal.

0248:13
10233/196

Public Works (1896) Department.

CURRENT No.

Order

From

The Chief Engineer
for Drainage

No. 79. SC

Dated 2. 9. 96

Received

Enclosures

Spare copies

SUBJECT.

System North and South
- low South flood gates -
Regiments to furnish an
explanation in the light
of the present proposal
of the Commission to look
of the -

[illegible][illegible]

With reference
to endorsement,
No. 272 B.C., of 10th Oct,
of the Sup. Inf. II.
Circ. the undersigned
has the honor to
request that he will
be so good as to
furnish, at his
earliest convenience,
an explanation of
his endorsement,
No. 273 B.C., of 3rd Nov/98
embodied in Prin.
No. 348. I, of 25th April/98,
in the light of the
present proposal
for the conversion
into locks of the
Tayder north &
Chippalurn south
fluvial gates.

John Suby
The Circle
1371 100 249

Public Works (1896) Department.

CURRENT No.

Order

From

The Supt of Engineers
2nd Office

No. 222 BC

Dated 10-8-96

Received

Enclosures 15

Spare copies

SUBJECT.

Pyderu North and Chuppa
- low South flood gates -
- forwards for construction
- estimates + plans for
the conversion of - into
locks.

0105.10
4:00 PM

[illegible][illegible]

Amount of Estimate Rs 13400

2. The design for this lock is similar to that in the general Type plan for tidal locks, submitted with this Office No 1295 dated 15th Aug 1894.
3. The principal levels are as follow—
- | | |
|----------|--------|
| M. S. L. | 20.00 |
| H. S. T. | 23.00 |
| L. R. T. | 13.81 |
| Sill | 14.00 |
| Floor | 13.25. |
4. Coping to walls or height of locks $H.S.T + 6 = 23.50$
Height of walls from Sill to Coping $= 23.50 - 14.00 = 9.50$
5. Batter for walls 1 in 4 or 2.37 which may be taken as 2.50 feet, making width of the walls 4 feet at base
6. The Sill of the lock to be 4.81 feet below L.R.T. ie 14.00 or on the same level as that of the existing flood gate. The Sill of the existing flood-gate to be raised 6" for additional gate, instead of the old Sill being lowered as originally proposed in general Type report.
7. The width of wings in Superstructure at base will be 4 feet, and the full width of masonry platform at the keelpost will be 6 feet. The length of wings in Superstructure will be $1\frac{1}{2}$ times the height and is equal to 16 feet with an extra allowance of 1' 9"

for the support of pavement

8. Existing flood gate. The height of existing flood gate from Sill to Coping level is 15.25 feet.

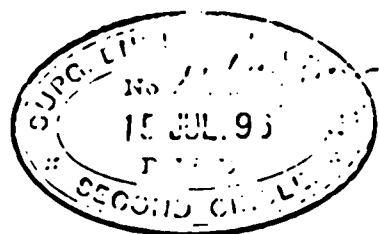
9. New gates are required, as no existing gates are available for transfer to this lock.

10. General. — All other particulars in regard to construction can be gathered from the report that accompanied the general Superplan.

R 93 12 1/2

11 July 1896.

J. Laos Captain
Offg. Executive Engineer
Birmingham Canal



01251
10203/21

Report to accompany Estimate for conversion of Pyder North flood gate into a lock.

Amount of Estimate Rs. 13,000

The design, dimensions & levels for this lock are similar to those given in the report for conversion of Chappallem South flood gate into a lock.

11 July 1896.

J. Laos Captain
Offg. Executive Engineer
Birmingham Canal

C.V.S.

Letter from the Executive
Engineer, Birmingham Canal Division
to the Superintending Engineer, 2nd Case,
N^o 899, dated ^{11th}/_{13th} July 1896.

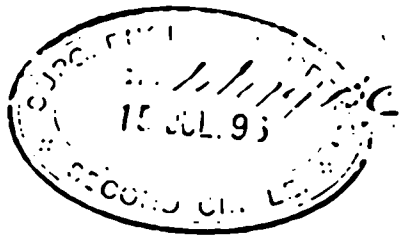
With reference to your N^o 974th
dated 22nd May, 1896, and in continua-
tion of my N^o 481, dated 29th May, 1896,
I have the honor to submit for your
plans and estimates ~~concerning~~
for conversion of Pypern north flood
gate and Chippalun south flood
gate into locks amounting to Rs 13,000
and 13,400 respectively.

2. Permission is solicited to
collect materials for the construction
of these two locks before the commence-
ment of the monsoon so that they may
be completed before the 31st March, 1897.

Enclosures 1st N^o ^{222 B3C}
10.8.96

Forwarded to the Chief Engr
for inspection for favour of the sanction
of

192.12.
5



6287
10.8.96

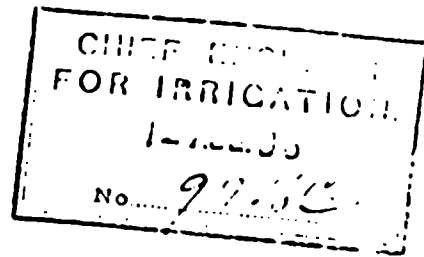
of Government being obtained to the
 estimates amounting to Rs 13000 and
 13400 for converting the flood gates at
 Pydum North and Chippalem South
 into locks.

2. Additional funds are necessary
 to start the works as soon as the
 estimates are sanctioned as the
 current year's grant of the Division
 is insufficient to meet the outlay
 on these works.

W. B. Baddley Major R. E.
 Executive Engineer
 for Sub-divisional Engineer.

2nd Circle

Encl. 35
 Pydum North Lock
 1 Report
 1 Detailed Estimate
 1 Abstract Estimate
 1 D & A Estimate for
 Temporary Diversion
 Chippalem Lock
 1 Report
 1 D. Estimate
 1 A. Estimate
 1 D & A Estimate for
 Temporary Diversion
 1 Price List
 1 Site plan
 1 Section
 1 L & C. Section
 of Diversion
 8
 x 15 Total
 120 sent a/p.



From,

The Supt Engineer.
2nd Div.

To
The Chief Engineer.
For Irrigation.

No 22288 of 10 August 1896

Encl: 15
sent separately

Report North and South
- from South flood gates.
- forward for sanction &
- estimates & plans for the
conversion of - into locks.

Dec 17
1896