M.R.O. 1—77,000—8-6-37.

(1) Number of pages 20

(2) Date of repair 20-4-38

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

Cons. 20 12 57

G.O. No.	716	Press Mis.
82-83		
Dated	15-12-	1857.

Not to be folded or roughly handled

No. 82. Read the following letter from Lieutenant-Colonel J. H. BELL, Chief Engineer; to J. D. BOURDILLON, Esq., Secretary to Government, dated 19th November 1859, No. 7426.

The Government, in Extract Minutes Consultation, No. 2149, dated 23rd November 1857, returned to this office, amongst other papers, the accompanying report and estimate, amounting to Rupees 34,600, for the construction of an additional lock and calingula in the Nizampatam channel near Yintur, between Peddravur and Nizampatam, in the District of Guntúr. The number of projects then before Government of comparatively greater importance, necessitated the exclusion of that above referred to from the budget of 1858-59. The District Engineer has now entered the work in his budget statement for 1860-61, and on a perusal of the papers connected therewith, I am of opinion that for the reasons set forth in the late Chief Engineer's report now re-submitted, the work is one of considerable importance both for the purposes of irrigation and navigation, and as such I beg to recommend its entry in the budget of 1860-61.

1 Report of late Chief Engineer, dated 14th September 1857, No. 3679.
1 Copy of letter from District Engineer, Kistna Division, dated 31st July 1857, No. 67.
1 Abstract estimate.
3 Plans.

No. 83. ORDER THEREON, 15th December 1859, No. 2916.

This estimate of 34,600 Rupees, for an additional lock and calingula for the Nizampatam canal, is re-submitted by the Chief Engineer, and recommended for entry in the budget of 1860-61. The estimate for the canal provided for three locks and calingulas; the ultimate necessity for a fourth was foreseen at the time, and this is now recommended. Between the second and third lock, a distance of eighteen miles, the slope of the canal is so great, 9⅔ inches per mile, as to require intermediately the construction of a fourth lock and calingula in order to lessen the fall, and command sufficient water for navigation and the irrigation of the surrounding lands.

2. The necessity of the work is thus clearly apparent; and as recommended, the estimate of 34,600 Rupees is sanctioned for entry in the next budget. The work will be so entered in the Government office. The Chief Engineer is requested to report the present state of advancement of the Nizampatam canal, for the information of Government.

(Signed) J. D. BOURDILLON,
Secretary to Government.

Centre Office
Fort St. George
19 November 1859.

7426

From
The Chief Engineer

To
The Secretary to Government
Public Works Department

Sir,

I have the Government in Extract Minutes
Consultation of 23rd November 1859
returned to this Office, amongst other papers, the
accompanying Report and Estimate, amounting to
Pagodas 34,000, for the construction of an additional
lock and Calingulah in the Nizampatam Channel
near Guntur, between Peddravur and Nizampatam, in the
District of Guntur. The number of projects then
before Government of comparatively greater importance,
necessitated the exclusion of that above referred to
from the Budget of 1858/59. The District
Engineer has now entered the work in his Budget
Statement for 1860/61, and on a perusal of the
papers connected therewith, I am of opinion that
for

12 Cross Beams	For Each	6	"	"	72	
Carried Over					3564	28917

for the reasons set forth in the late Chief's Engineer's Report now resubmitted, this work is one of considerable importance both for the purposes of irrigation and navigation, and as such I beg to recommend its entry in the Budget of 1860/61.

Fort Saint George
19th November 1859

I have the honor to be,
Sir,
Your Most Obedt Servant,
J H Bell Lieut Colonel
Chief Engineer

Rd 17 Dec

Lt Col Bell to Govt

To
The Secretary to Government
Public Works Department

Read Jan 3d 1860

5

Public (roads) (New Work)

Abstract of Estimate No. of 1859

Road No.

District. Guntoor.

Work. Constructing an additional Lock & Calingulah in the Nizampatam Channel between Peddaravoor & the Terminal Lock into Tide Water to reduce the fall and Raise the water for Irrigation and Navigation.

Quantities	Description of Work	Rate			Amount	Amount for each part
		Rs	as	P.	Rupees	Rupees
6 Yds						
84480	Earthwork @ 6/7	"	1	"	5280	
70400	Do Excavating @ Do	"	1	"	4400	
						9680
	Constructing a Lock with a Bridge Over it.					
43992/3	Stone in Chunam @ 6/7	3	"	"	13198	
57	Brick in Chunam @ Do	3	8	"	200	
98 14/27	Loose Stone @ Do	7	"	"	689	
200	Wells @ Each	7	"	"	1400	
	Excavating foundations				1000	
	2 Sets of Gates and Shutters for sluices				2000	
	Forming approaches				100	
	Centering				150	
	Baling				500	
						19237
	Constructing Calingulahs.					
856 2/3	Stone in Chunam @ 6 2/7	3	"	"	2569	
114 2/3	Loose Stone @ Do	7	"	"	803	
	48 Squares of Plastering @ 6/7	2	8	"	120	
	12 Cross Beams @ Each	6	"	"	72	
	Carried Over				3564	28917

Quantities	Description of Work	Rate Rs	As	P	Amount Rupees	Amount for each part Rupees
C. Ffts.	Brought forward				3564	28917
12	Cast Iron Posts Each	10	"	"	120	
	Palmyra Boarding Teak wood railing roadway &c				100	
9	Small Shutters Each	6	"	"	54	
1	Large Shutter				9	
	Excavations Foundations &c				150	
						3997
	Sundries Contingencies &c at 5 1/2 Cent					1686
	Total Company's Rupees Thirty Four Thousand and Six Hundred					34600

Central Office of D. W.
Fort Saint George
14th September 1857

Actg Exctg Colonel
Chief Engineer D. D. W.

A
A.D.C. Engs N.C.

Enclosure

In as Ltr No

C1

From

The Chief Engineer

D.P.W.

To

The Secretary to Govt

D.P.W.

DO 3029/59

Dated 14th September 1859

Received

No. 3679.

Abstract Estimate for Constructing an Additional Lock and Colunguleh in the Nyzampatam Channel between Poddaravoo & the Terminal Lock into Tide Water to reduce the fall & raise the Water for Irrigation and Navigation in the District of Guntoor.

Amounting to C.R. 24000

P.W.C.

No 2916.

Proceedings of the Madras Government
Under date the 15th December 1859

Read the following
Letter from the Chief Engineer

Recommends for
entry in the budget an estimate
of £34,600 Rs for an additional lock
and Caligula for the Nizampatam
Canal.

This estimate of
34,600 Rs for an additional
lock and caligula for the N.
Zamphatam Canal, is re-sub-
mitted by the Chief Engineer
recommended for entry in the
budget of 1860/61. The estimate
for the Canal provides for three
locks and Caligulas, the addition
necessity for a fourth was foreseen
at the time & the requisite provision
made. Between the second
and third lock, a distance
of eighteen miles, the slope of the
Canal is 9 2/3 inches per

P.W.C. 24th Nov 1857 No 119-
Rev. 24th Feby 1858-36-37-
Pr. 27th Jany 1858-8-9-

P.W. Department
Fort St. George 1st December 1859.
From Chief Engineer
No 3029.
To The Secretary to Government
Public Works Department.

Received 19 November 1859.
Received 21

No 7426.
E-6 Returned 4 Encs.
26-1-60

No 2916. 15th December

Recommends for entry
in the next Budget an Estimate
of Rupees 34,600 for the con-
struction of an additional lock
and Caligulah in the Nizampatam
Channel between Peddaravuru and
Nizampatam in the Guntur
District.

1 Memorandum
2 Estimate

1858.

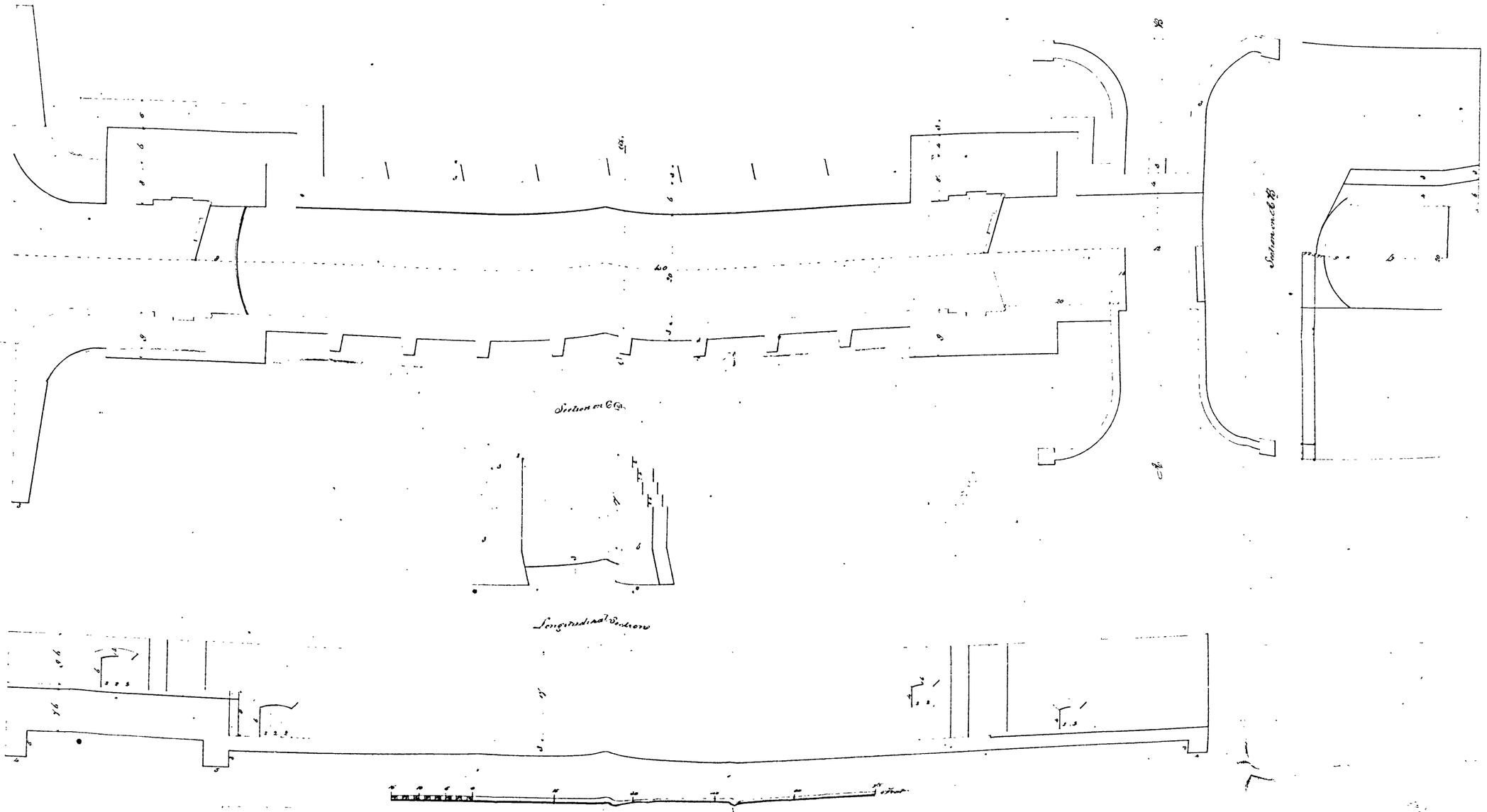
Dy Secretary R13th

mile, as to require intermediately the construction of a fourth lock [Calingula] in order to lessen the fall, and command sufficient water for navigation and the irrigation of the surrounding lands.

2. The necessity of the work is thus clearly apparent; and as recommended, the estimate of 34,600 Rs is sanctioned for entry in the next budget. The work will be so entered in the Govt Office. The Chief Engr is requested to report the present state of advancement of the Nizampatam canal, for the information of Govt.

10 Copies
To the Chief Engr

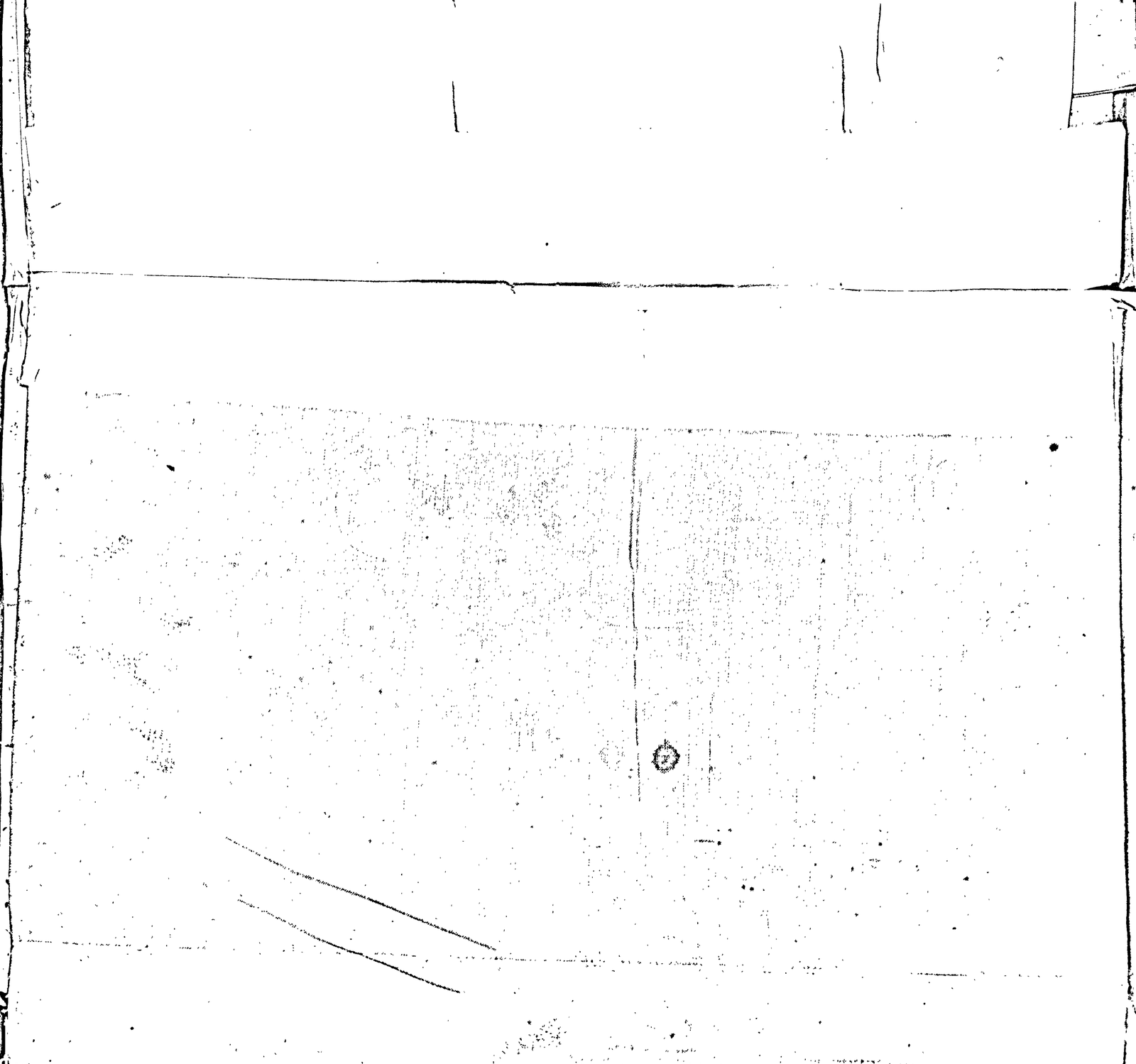
Plan and Sections
for
Lock
proposed to be built on the Nizampatam Channel
between Siddavaram and the Kommal Loch into Tide Water near Nizampatam
to meet the water for irrigation and to reduce the fall to facilitate navigation.



Foundation Wells
Keel of Vessel
Colonade Pillars

Chief Engineer's Office
Camp Divisionary
Nizampatam

Chief Engineer in charge Nizt Dist



2 Sheets Key & Gaby dated 4th September 1857 No 3679.

2 of 5 Sheets

3029

Plan and Section of a Lock proposed to be built in the Nagampatanam Channel between Vedaranyam and the terminal locks into Tide Water near Nagampatanam to retain the water for irrigation and to facilitate the passage of Coasting navigation.

Madras Despatch 15th Oct 1857 No 51

PUBLIC WORKS DEPARTMENT

3/5608/67

Plan Sections and Elevation
of a
Caldron proposed to be built in connection with the Lock
in the Grand Canal Dock
for boiling Pitch and Coal Tar
and other Materials

Survey and Section of the Nizampatam Channel between Pedderavoor and Tide Water shewing the position of the proposed additional Locks near Ventur

Kuthpoody

Pedderavoor

Chinna Purrem

Mundoor

Allipaud

Yadepurem

Turumulla

Ventur

Kambatapalem

Sandalo

Upper Sill 22.6"

Lower Sill 14.6"

Upper Sill 10.6"

Lower Sill 4.0"

Depths

Horizontal Scale

Vertical Scale

PUBLIC WORKS
DEPARTMENT

Madras Budget of 1860/61

Public Works 1859 Dept.
Pro: of Govt. 20th Dec.

No. 2916.

Pro: of the Madras Govt.
Dd 15th December 1859.

From the Chief Engr.
Dated 21st Jany. 1860 No.
199.

Estimate of Rs 34,600 for
an additional Lock
and Calingula for the
Nezampatam Canal, cancd.
for entry in the next budget.
Chief Engineer to report
on the present state of
advancement of the Canal.

No 82483.

6 December 1813.