

(1) Number of pages 50(2) Date of repair 6-1-39(3) Initials of the Referencer CP**MADRAS RECORD OFFICE.****Government of Madras.***Public Works* **DEPARTMENT.***Cor. 2.6.2. 1860*

G.O. No.	360-61	Press Mis.
<i>60-64</i> Dated	17-2-	1860.

Not to be folded or roughly handled

Read the following letters.

No. 60. From Lieutenant-Colonel J. H. BELL, Chief Engineer; to the Secretary to Government, dated Sépákkam, 19th January 1860, No. 9304.

I have the honor to submit the accompanying report from Colonel Lawford, of his inspection of the Pennair anicut and the works connected with it.

January 16th 1860, No. 78.
One letter from Colonel Lawford,
dated 16th January 1860, with one
enclosure.
In letter dated 15th November 1859,
No. 7243.

2. The anicut, as I have before reported, has not been rebuilt to the extent contemplated by Colonel Cotton, on account of interruptions from freshes, and of the scarcity of labor. But Colonel Lawford reports that no damage of any consequence has been done by the monsoon floods, and that the operations are now resumed under very favorable conditions. He also observes that the two parts of the anicut which were rebuilt in 1858, on the vertical section are quite uninjured.

3. The works of the past year have been satisfactorily performed, and there is good reason to expect from the arrangements of quarrying and transporting materials as satisfactory a completion, though the scarcity of labor is a considerable hinderance.

4. Colonel Lawford brings to notice as a work of urgent necessity the connexion of the Sarvapalli with Jáfar Sáhí's channel in order to the closure of the present open head of the Sarvapalli channel, and the prevention of the disastrous inundations of which it is the cause.

5. In my letter of the 30th November 1859, No. 7792, I recommended an estimate for this work; but the Government called for further information on the subject, and as shortly after the receipt of the order it became apparent that there would be no room for the estimate in the budget, I deferred reporting again till Colonel Lawford should have visited the localities.

6. Since reading Colonel Lawford's report I have conferred with Colonel Cotton, who agrees with Colonel Lawford and myself that the connexion of the two channels ought not any longer to be delayed, and that the amount of Rupees 25,000 recommended by Colonel Lawford should be expended; since a cut of considerable dimensions will be required to fill the tanks under the Sarvapalli channel, though a smaller one would supply irrigation for the lands if the flow were continuous.

7. The amount of Rupees 10,000 allowed in the order of the 28th of April 1859, No. 982, was reduced by the retrenchment of the budget and by the difficulty of procuring labor to 4,300, of which Rupees 3,500 has been allotted for the land, and but little consequently remains for the work. Under these circumstances I am obliged, on account of the urgency of the case, to recommend that Rupees 25,000 be granted for the execution of the work as an advance upon the budget of 1860-61, and that the same amount be deducted from the reserve of 2½ lacs mentioned in my letter of the 3rd January 1860, No. 8765, and be entered in the budget for the cut to connect the Sarvapalli and Jáffer Sáhí's channels.

8. With reference to the order of the 12th of December 1859, I beg to state that the estimate therein referred to is the one before submitted on the 27th of November 1858, amounting to Rupees 61,300, from which a deduction of Rupees 4,320 was made for work to be executed in the current year under the grant of Rupees 10,000 given in the order of the 28th of April 1859, No. 982. I now recommend that the estimate thus corrected, and amounting as reported to Rupees 59,980, may be entered in budget list No. 1 with provision for the outlay of Rupees 25,000 above mentioned.

9. The urgent works for the deference of the right bank of the Pennair mentioned in paragraph 12 of Colonel Lawford's letter will be performed as far as possible from the repair funds of the current year and finished in 1860-61.

*Proceedings of the Madras Government, Public Works Department,
for the month of February 1860.*

No. 61. From Colonel J. H. BELL, Chief Engineer; to the Secretary to Government, dated Sépakkam, 2nd February 1860, No. 9901.

With reference to the orders marginally quoted, I have the honor to forward a sketch of the proposed junction of the Jáffer Sáhib and Sarvapalli channels, together with an estimate amounting to Rupees 48,580.

Official memorandum, No. 45, dated 28th January 1860.

7 Plans.

1 Abstract estimate.

1 Letter from District Engineer, Nellore, dated 17th September 1858, No. 2012, with 1 enclosure.

1 Do. from do. dated 13th October 1858, No. 2286, with 2 enclosures.

2. The width assigned to the cut is two-thirds of that formerly allowed, and although this will suffice for the passage of a larger body of water than can be immediately used in irrigation, still it is not in my opinion advisable to undertake the work on a smaller scale and by so doing enhance its ultimate cost.

3. The work is I consider of a very urgent and important character, and I recommend most strongly its early prosecution on an advance of 25,000 Rupees, as before proposed.

4. I also recommend that the whole estimate may be entered in the budget for execution in 1860-61, so that the balance, after the advance of Rupees 25,000 is expended, may be available from May next. If this is approved a corresponding deduction should be made from the reserved amount specified in the memorandum from Government, dated 1st instant, No. 52.

No. 62. From Colonel J. H. BELL, Chief Engineer; to the Secretary to Government, dated Sépakkam, 7th February 1860, No. 10018.

With reference to the official memorandum, dated 4th instant, No. 57, I have the honor to state that my reason for submitting a reduced estimate of Rupees 48,580 for connecting the Sarvapalli and Jáffer Sáhib's channels was, that I was anxious to include in the budget the full amount for completing the work to the proposed extent which, therefore, was limited to the lowest sum that could be economically expended, and I was equally desirous of keeping the allotment for the work at its minimum, in order to avoid swelling the aggregate amount of the budget.

1 Abstract estimate.

1 Detailed do.

2. There is no objection whatever, other than may be based on its amount, to the retention of the full estimate in the budget, for the whole work will eventually be carried out with the certainty of realizing all the advantages exhibited in the returns submitted by the Collector.

3. The original estimate* for the work is, therefore, re-submitted, and contains all the details of cuttings, proposed to be made, as called for in paragraph 2 of the memorandum under acknowledgment.

* To be returned.

4. It is to be observed that the sum of Rupees 3,500 which was sanctioned† for compensation for land, and deducted from the amount to be expended in the current year out of the advance of 10,000 Rupees authorized for the above work, is not provided for in the original estimate, and must, therefore, be considered as an additional charge against the work.

† Proceedings of Government, Revenue Department, No. 1236, dated 14th September 1859.

5. I should further explain that in making my report of the 19th ultimo, No. 9304, I intended that the 25,000 Rupees then recommended should be the limit of the expenditure up to May 1861. On further consultation with Colonel Lawford, however, I found that it would be very inconvenient and expensive to lay out that limited amount independently though it would be sufficient for the mere supply, and I, therefore, in my second letter submitted the estimate of Rupees 48,580 to provide for a larger expenditure from this period to May 1861. As the budget has been closed with, it is understood, an assignment of only Rupees 25,000 for 1860-61, whatever additional amount is required may be provided from the reserved fund.

Dated 2nd instant, No. 9901.

*Proceedings of the Madras Government, Public Works Department,
for the month of February 1860.*

No. 63. ORDER THEREON, 17th February 1860, No. 360.

Paragraph 1. In the first of the above letters, the Chief Engineer requests that the estimate of Rupees 59,980 previously* submitted by him for connecting the Sarvapalli channel with Jáfar Sáhib's channel in Nellore may be included in the budget of 1860-61 with provision for an outlay of Rupees 25,000 in that year; but in consideration of the urgency of the work, he recommends that the last mentioned sum may be allowed at once as an advance. With the second letter, the Chief Engineer sends up another estimate of Rupees 48,580 for the same project, with a request that the whole of this amount may be entered for expenditure in next year. In the third letter, Colonel Bell explains, with reference to a requisition from this office, that the reduced estimate of Rupees 48,580 was sent up on considerations of economy, and that he has no material objection to the retention in the budget, of the larger, or as Colonel Bell calls it, the "full" estimate; for he observes "the whole work will eventually be carried out with the certainty of realizing all the advantages exhibited in the returns submitted by the Collector." In respect to the extent of the next year's outlay, Colonel Bell explains that his second proposal for an expenditure of Rupees 48,580 was made, because he found on consultation with Colonel Lawford that it would be very inconvenient and expensive to lay out independently the limited sum of Rupees 25,000 at first fixed.

2. It appears to the Government that to avoid future applications for additional outlays, and to secure the full revenue return computed by the Collector at about 17½ per cent., it would be proper to act at once on the larger estimate of Rupees 59,980; and they accordingly direct that that estimate be included in the budget of 1860-61 with provision for an outlay of Rupees 48,580 in that year, as recommended by the Chief Engineer.

3. The work in question being however stated to be of an urgent character, and the funds available out of the advance of Rupees 10,000 previously sanctioned† being small as shewn in paragraph 7 of the Chief Engineer's letter of the 19th ultimo above recorded, the Government resolve, in accordance with that officer's recommendation, to authorize the Accountant General to issue orders for placing a sum of Rupees (25,000) twenty-five thousand at the disposal of the District Engineer of Nellore as an advance upon the budget. This proceeding will be reported for the approval of the Government of India.

(Signed) T. PYCROFT,
Chief Secretary.

No. 64. Ordered in consequence that the following letter be dispatched.

From T. PYCROFT, Esq., Chief Secretary to the Government of Fort Saint George; to Colonel H. YULE, Secretary to the Government of India, D. P. W., dated 17th February 1860, No. 361.

Paragraph 1. I am directed to forward for submission to the Government of India, three letters from the Chief Engineer relating to the project of connecting the Sarvapalli channel with Jáfar Sáhib's channel, two of the main ducts of irrigation from the Pennair river in Nellore, together with an order of this day's date passed by Government on those communications.

2. On the 28th April 1859, the Government sanctioned* an advance of Rupees 10,000 for the project in question; but the amount has been considerably reduced by the financial restrictions and other causes explained in paragraph 7 of the Chief Engineer's letter of the 19th ultimo. An estimate for the work to the amount of Rupees 59,980 will be included in the budget of 1860-61 with provision for an

Dated 19th January and 2nd and 7th February 1860 Nos. 9304, 9901 and 10018.

* Reported to Government of India in letter dated 6th June 1859 No. 1372 and approved in endorsement from do. dated 6th August 1859 No. 6326.

Proceedings of the Madras Government, Public Works Department,
for the month of February 1860.

expenditure of Rupees 48,580 in that year. The work being however stated to be of an urgent character, and the funds available out of the authorized advance of Rupees 10,000 being small, the Government have, on the Chief Engineer's recommendation, sanctioned a sum of Rupees 25,000 as an advance upon the budget; and I am desired to report the proceeding for the approval of the Government of India.

(Public)

January 16th 1860
No. 78.

Enclosures - 2.
One Letter from
Colonel Sanford
of 16th January 1860
(with 1 Enclosure).

In Letter of 15th Nov.
1859. No. 7243.

Central Office
No 9304
Sepak Kan 17 January 1860

From
The Chief Engineer
To
The Secretary to Government
Sir

I have the honor to submit
the accompanying report from Colonel
Sanford of his inspection of the
Pannair Anicut and the works con-
nected with it.

The Anicut, as I have
before reported, has not been rebuilt
to the extent contemplated by Colonel
Cotton, on account of interruptions
from freshes, and of the scarcity
of labor. But Colonel Sanford re-
ports that no damage of any con-
sequence has been done by the
monsoon flood, and that the opera-
tions are now resumed under very
favorable conditions. He also observes
that the two parts of the Anicut
which

which were rebuilt in 1858 on the vertical sections are quite uninjured.

The works of the past year have been satisfactorily performed, and there is good reason to expect from the arrangements of quarrying and transporting materials a satisfactory completion, though the scarcity of labor is a considerable hindrance.

Colonel Lawford brings to notice as a work of urgent necessity the connexion of the Survaully with Jaffer Sahib's channel in order to the closure of the present open head of the Survaully channel, and the prevention of the disastrous inundations of which it is the cause.

In my letter of the 30th November 1859, I recommended an Estimate for this work, but the Government called for further information on the subject, and as shortly after the receipt of the order it became apparent that there would be no room for the Estimate in the

N^o 7792

Decr 12th 1859
N^o 2879

the Budget, I deferred reporting again till Colonel Lawford should have visited the localities.

Since reading Colonel Lawford's report I have conferred with Colonel Cotton, who agrees with Colonel Lawford and myself that the connexion of the two channels ought not any longer to be delayed, and that the amount of Rs 25,000 recommended by Colonel Lawford should be expended; since a cut of considerable dimensions will be required to fill the tanks under the Survaully channel though a smaller one would supply irrigation for the lands if the flow were continuous.

The amount of Rs 10,000 allowed in the order of the 28th of April 1859 was reduced by the retrenchment of the Budget and by the difficulty of procuring labor to 4,300 of which Rs 3,500 has been allotted for

Govt Proceedings
Sept 14th 1859 N^o 1235

N^o 982

for the land, and but little con-
sequently remains for the work -
Under these circumstances I am
obliged, on account of the urgency
of the case, to recommend that
Rupees 25,000 be granted for the
execution of the work as now advanced
upon the Budget of 1860-61, and
that the same amount be deducted
from the reserve of 2½ lacs men-
tioned in my letter of the 3^d
January 1860, and entered in the
Budget for the Cut to connect
the Survapully and Jaffer Sahib's
Channels-

With reference to the
order of the 12th of December 1859 I
beg to state that the Estimate therein
referred to is the one before submitted
on the 27th of November 1858, amounting
to Rupees 64,300 from which a de-
duction of Rupees 4,320 was made in No. 581
for work to be executed in the Current
year under the grant of Rs. 10,000

Sir W.

No. 982.

given in the order of the 28th of April
1859. I now recommend that the
Estimate thus corrected, and amount-
ing as reported to Rupees 59,980, -
may be entered in Budget List
No. 1 with provision for the cutting
of Rupees 25,000 above mentioned.

The urgent works for
the defence of the right bank of the
Penuair mentioned in para 12
of Colonel Lawford's letter will be
performed as far as possible from
the repair funds of the Current
year and finish in 1860-61.

I have the honor to be
Sir

Your most Obedt Servt.

Sepakham
19 January 1860

W. Bell Esq. Colonel
Chief Engineer

L. Murray

Quantities.	Description of Work.	Rate.	Amount.	Amount of each part.
C. Yards.		Rs. P. Annas.	Rs. P.	
	Brought forward		3515	1310 1/2
15601	Excavation	1 1/4	3500	
15625	Do	1 3/4	356 1/4	
91608	Do	1 2	6650	
11120	Do	1	2370	20159
7027 1/4	Syphon Sluice Channel	3	1095	
11938	Do Embankment	1	2621	3719
	(N ^o II) Bridge of 3 arches for Adelpert Road			
20260	Cut: Brickwork in Churnam	2	3533	
3150	Cut: Arch work	2 6	192	
	Centering		730	
	Excavation and Baling		60	
	Raising approaches		10	
	Sandries		155	1000
	(N ^o III) Bridge of 3 arches for Hutnapatan Road.			
11088 1/2	Cut: Brickwork in Churnam	2	1761	
2253 3/4	Do Arch work	2 6	357	
	Centering		700	
	Excavation and Baling		50	
	Raising approaches		10	
	Sandries		92	3000
	(N ^o IV) Syphon Sluice 32 2/3 yds long and 1 yard Span			
800 1/2	Cut: Brick in Churnam	2	1000	
1215	Do Arch work	2 6	190	
	Carried over		1190	14398 1/2

Quantities	Description of work	Rate	Amount	Amount of each part
		Rs. P. Annas.	Rs. P.	
64 3/4	Brought forward		1190	143982
	Excavation and Centering		25	
	Sandries		35	1250
	(N ^o 5) As per Size N ^o 1			1250
	(N ^o 6) Syphon Sluice 26 1/3 yard long and 1 yard Span			
6622	Cut: Brickwork in Churnam	2	828	
99 1/4	Do Arch work	2 6	155	
	Excavation and Centering		20	
	Sandries		37	1040
	Extra Establishment			
1	Hard Gamastah for 10 months	20	200	
1	Do	10	100	
2	Masteries	20	100	
6	Hard Cakes	1	210	1210
	Sandries			638
	Add Amount of Compensation for land			3500

Deduct amount proposed to be expended under the grant of 10,000 Rupees

Net amount requiring Sanction 43380

Central Office of P.W.
S. P. W. R.
2nd Feb 1860

J. K. L. Clerk
Chief Engineer P.W.D.

Enclosure

In a letter

From

The Chief Engineer
RPH

To
The Secretary to Govt
RPH

Dated 2nd Feb/60
Recd

PM 308/60

N^o 9901

Abstract Record of works
of new cut from Jaffarabadi
Channel into Surampally & old
Channel in the District of Nellore
& amounting to Rs 48550-

Central Office of P.W.
Deputy Engineer

2nd February 1860.

N^o 9901

From

The Chief Engineer

The Secretary to Government
Public Works Department

Sir,

Ref^d Memo
dated 2/28/60

With reference to the orders
originally quoted, I have the honor to forward
a sketch of the proposed junction of the
Jaffer-chaidanawapalli Channel, together with
an estimate amounting to Rs 48550.-

2. The width assigned to the cut
is two thirds of that formerly allowed, and
although this will suffice for the passage
of a larger body of water than can be im-
mediately used in irrigation, still it is no
my opinion advisable to undertake the
work on a smaller scale and by so doing
enhance its ultimate cost.

The

3

The work is I consider
of a very urgent and important character, and
I recommend most strongly its early prosecution
and an advance of 25,000 Rupees, as before
proposed.

4 I also recommend that the
whole Estimate may be entered in the Budget
for execution in 1860/61, so that the balance,
after the advance of Rupees 25,000 is con-
sumed, may be available from the next.
If this is approved a corresponding deduction
should be made from the reserved amount
specified in the Memo from Government dated
1st Instant No. 52.

I have the honor to be,

Deputy
2nd February 1860

Sir,
Your Most Obedient

L. L. L. L.
Deputy

A. K. L. L.
Chief Engineer

The Secretary to Government
P. D.

Estimate of Rupees (3000-) Three thousand
 1 For constructing a bridge of 3 segmental
 arches, the center one being of 20 feet & the others of
 10 feet span, across the - Curvapully Channel on the
 road from Mallow to Kistnapatam.

2 The Channel bed is of Clay and has
 a fall of 8 inches per mile.

3 The foundations of the bridge are to be
 of latrite in Chunanu 5 feet deep resting on Clay.

4 The piers are to be 3 feet in thickness and
 the abutments 4 feet 6 inches raised to a uniform
 height of 8 feet, the second side of the center arch
 to be 4 feet 6 inches and of the other 3 feet 6 inches giving a
 total height of 12 feet 6 inches and 11 feet 6 inches to the soffits
 and allowing a clear height of 3 feet 6 inches and 2 feet
 6 inches for the passage of floating bodies, the bridge will
 provide 515 square feet of water way, the sections
 of the Channel during the proposed highest flood
 being 474 3/4 square feet.

5 The superstructure of the bridge is to
 be of latrite in Chunanu, and the cutwaters & pile
 and materials.

6 The parapets are to have no interior
 cornice, and the road way over the bridge is to have
 a rise of one in 30 as well as the approaches to
 it - and the arches its clear width between para-
 pets will be 18 feet & between the wing walls 24 feet.

Mallow
 22nd July 1858
 Alex Pitheodou Captain
 Wundumlini. Ex. Engineer M.D.
 District Engineer, Mysore

Copy to Mr. Pitt
 17 Feb 1860
 1861
 1862
 1863
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 1897
 1898
 1899
 1900

1 Estimate of Rupees (4000) four thousand
for constructing a bridge of 3 segmental
arches, the center one being of 26 feet & the others of
20 feet span, across the ~~surajpally~~ Channel on the
road from Mellore to Rabolpatt.

2 The Channel bed is of Clay and has a fall
of 8 inches per mile.

3 The foundations of the Bridge are to be of
laterite in Chumman 5 feet deep resting on Clay.

4 The piers are to be 8 feet 9 inches thick, and
the abutments 6 feet raised to a uniform height of
6 feet 6 inches, the vertical line of the center arch to be
6 feet and of the others 4 feet 6 inches, giving a total
height of 16 feet 6 inches to the soffits and allow-
ing a clear height of 4 feet 6 inches above the
proposed high water mark at the center, and 6 feet
at the other arches, for the passage of the boats or other
floating bodies, the bridge will provide 391 square
feet of water way, the section of the channel during
the proposed highest flood being 621 square feet.

5 The superstructure of the bridge is to be
of laterite in Chumman & the cutwaters of the same
material.

6 The parapets are to have no interior corni-
ces and the roadway over the bridge is to have a rise
of 1 in 20, as well as the approaches to it. Over
the arches the clear width between parapets will
be 18 feet, & between the wing walls 24 feet.

Mellore
22nd July
1858

Capt. P. Hudson Captain

Ex Engineer M.D.
Whitcomb L.

District Engineer, Mellore

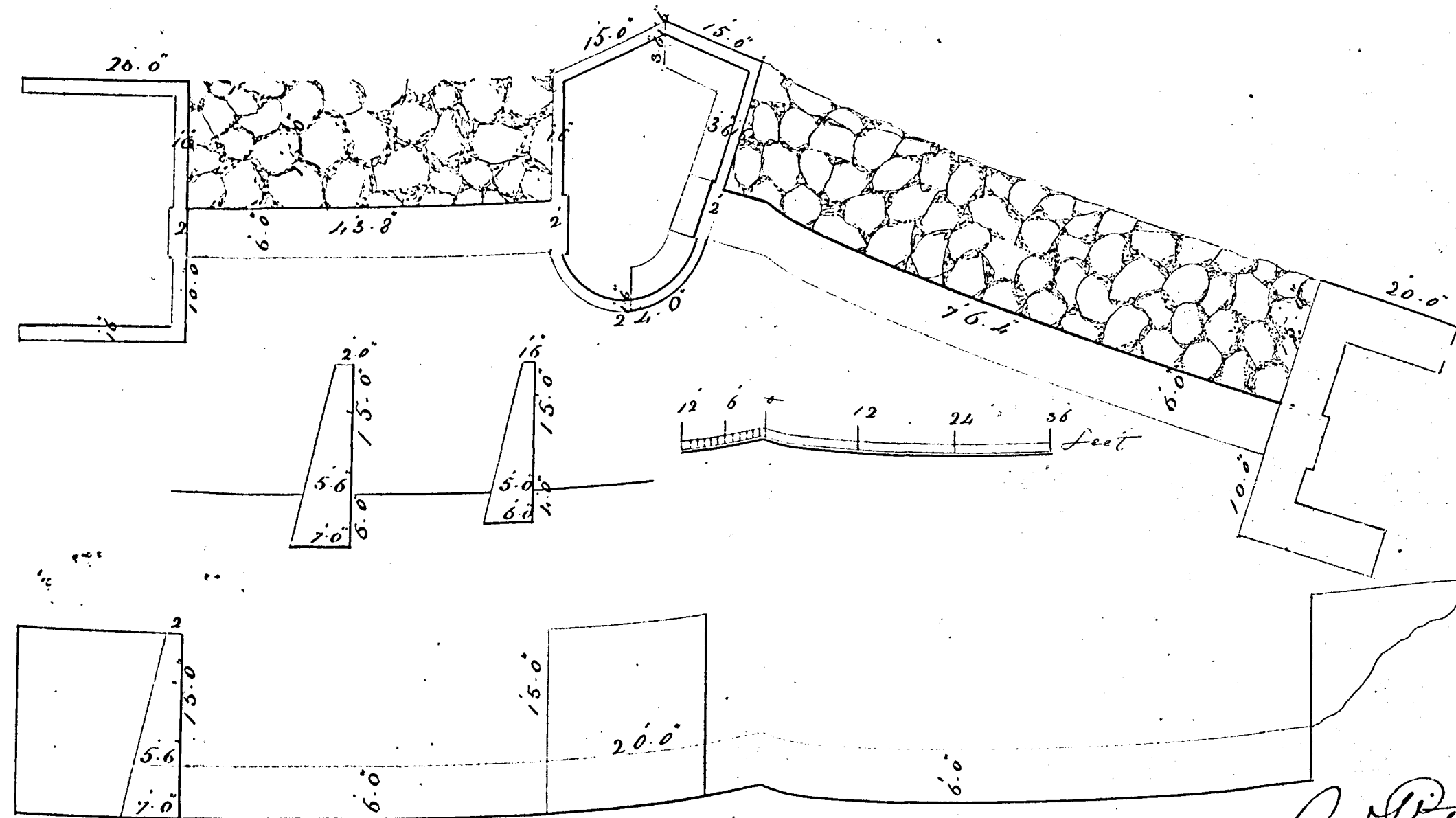
4299-03029/12

Estimate of Rupees (4000)

N^o 1

23

Dividing Dam
for
Jaffer Saib & Survapilly
Channels.



P.W. 3329/62

Soil - Sandy 3090
Estimated Rs 3400
Material - laterite
brick in Channam.

Nellore
20 July 1850

John Huthnisdr. Asst. Pittheavon Captains
Dist. Engineer Nellore.
Ex. Engr. 1850

2nd Feb 1858
to head N^o 451/4th/52

5/6930/58

No DPL

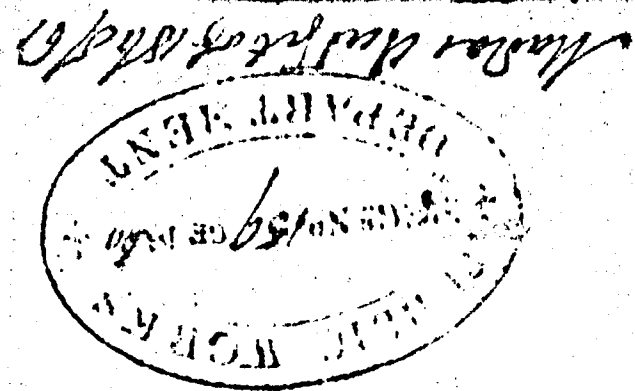
Enclosed in a letter from the
District Engineer Vellor
Dated 17th September 1858 No 2012

N^o 2329/62

To The Chief Engineer
Fort St George

308/60
315/59
N^o 2885/58

Plan and Section of
Dividing Dam for Paper
Laid & Luroapilly Channels
amounting to Rs 3700

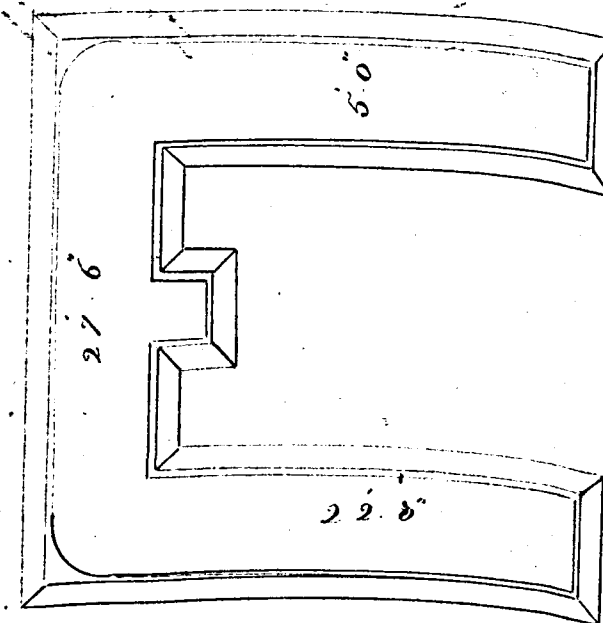
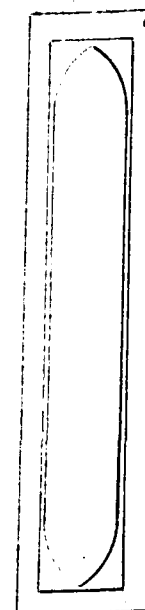
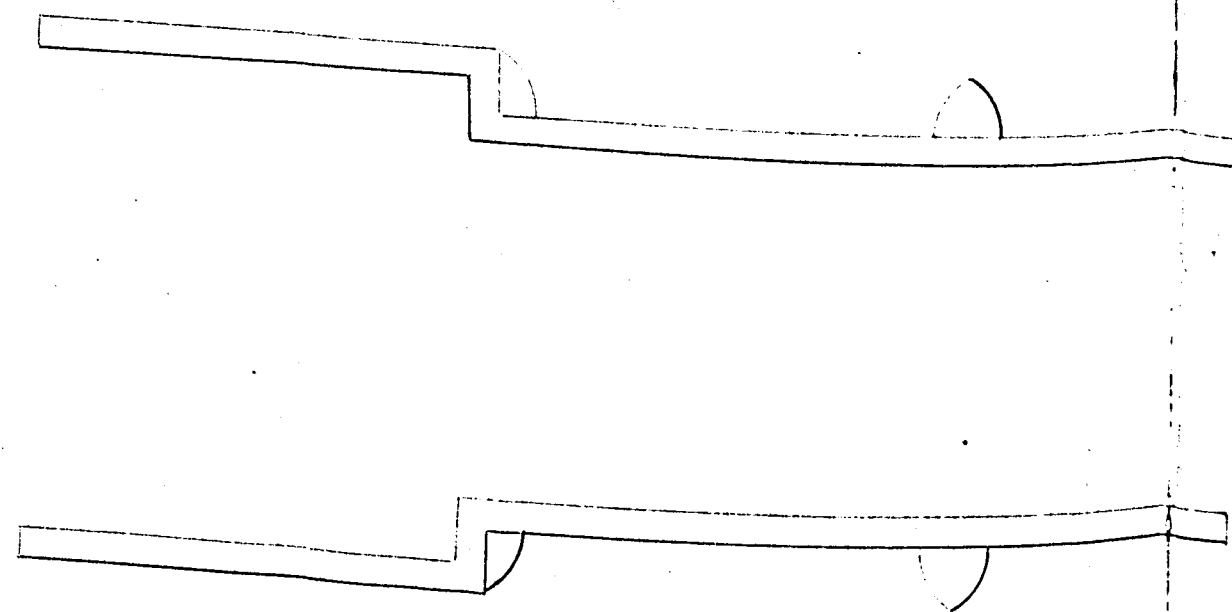


Major District of 1840

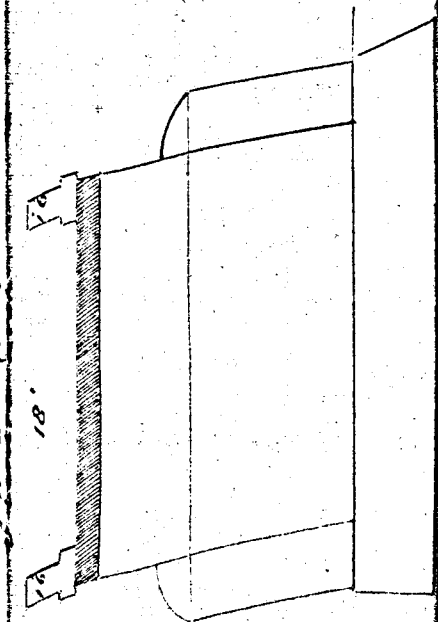
BRIDGE *for the* NAWABPETT ROAD

across the

NEW SURVAPILLY CHANNEL.

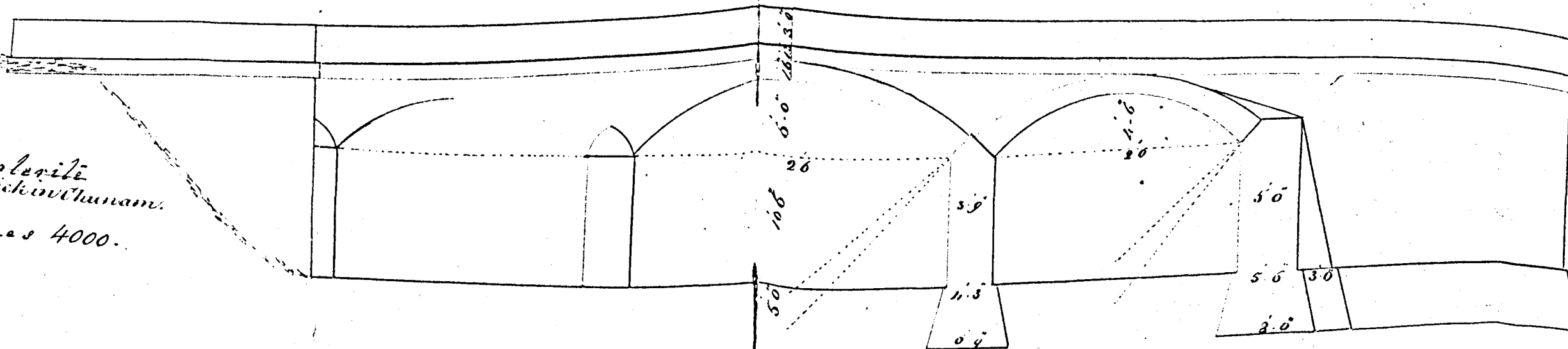


Section through Crown

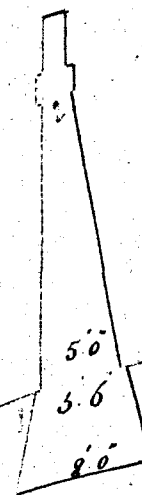


*Materials Loleviti
Soil Clay Brickmuthunam.
Estimate Rupees 4000.*

*Commenced
Completed*



Actual Cost



Mellore A.S.

7/6902/55

27/1/1855
28/1/1855
29/1/1855
30/1/1855
31/1/1855

No. 17/1855 DPL

Enclosed in a letter from the
District Engineer Mellore
Dated 17th September 1855 A' 2012

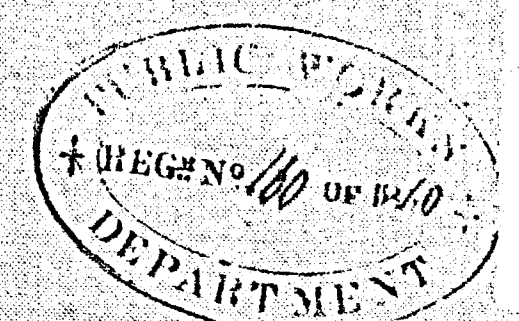
9097.3329/62

To
The Chief Engineer
Fort St. George

308/60.
3137/59
P.W. 3886/58

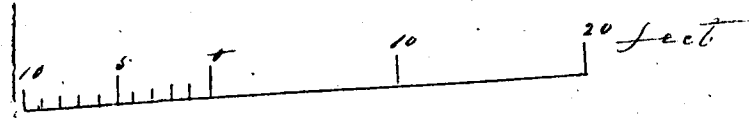
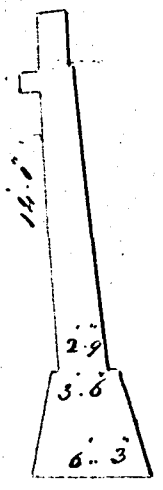
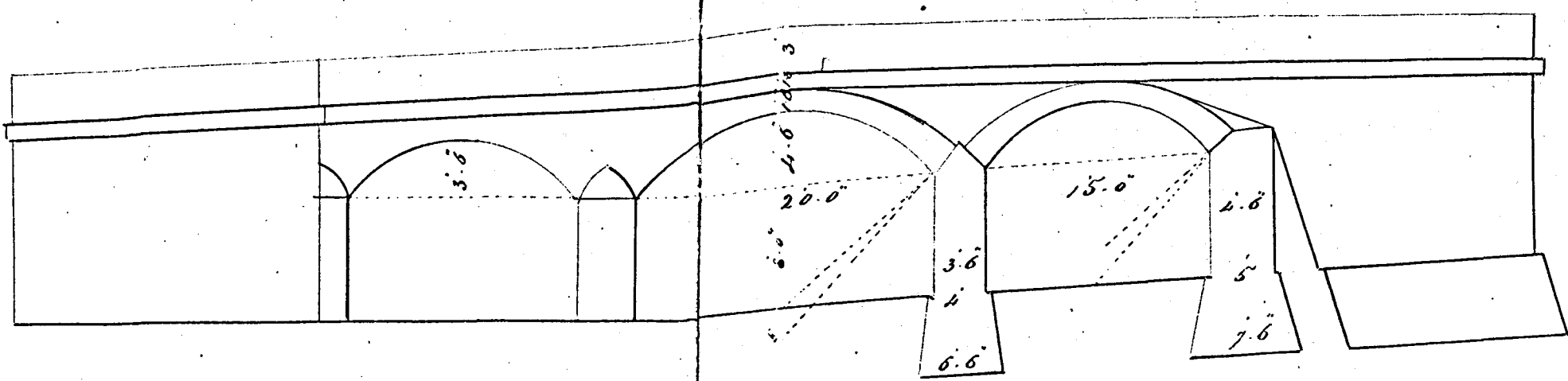
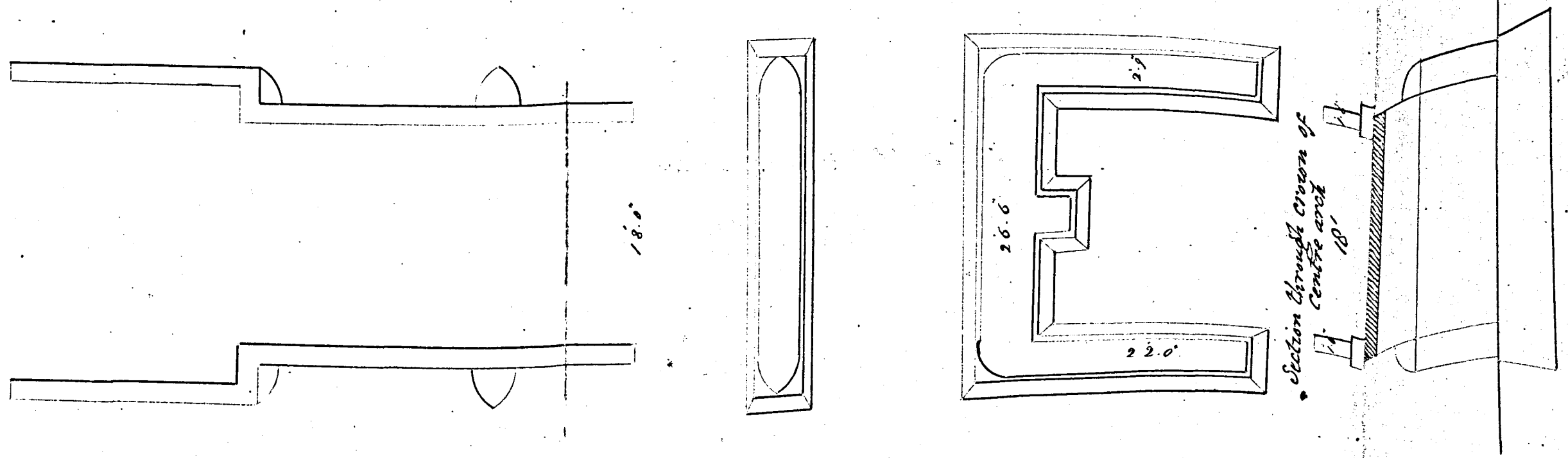
Plan and Section of Bridge
for the Savabpett Road
across the new Survapully
Channel amounting to
RS 4000.

No 60 & 63



Madras 28 Sept 1860/61

BRIDGE for the KISTNAPATAM ROAD
across the
NEW SURVAPILLY CHANNEL.



Material Brick in Gunam.
Soil. Clay
Estimate Rs 3000

Nellore
20th July 1858.

John Mullins
District Engineer, Nellore.
Capt. Pittendrup
Esq. Esq. 1858.

Collected 25th/10/1860
25th/10/1860

(4) 60/10/1860

No. 8/10/1860 D.P.W.

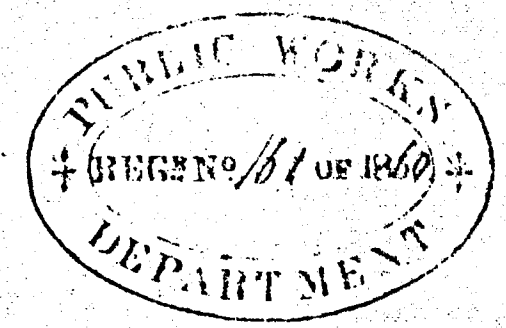
Enclosed in a letter from the
District Engineer, Vellore.
Dated 17th September 1858 N.º 2012.

4097. 3029/62

To the Chief Engineer
Fort St. George.

308/60
3137/57
P.W. 2886/58

Plan and Section of Bridge
for the Puthampalam road
across the new Surasipalli
Channel amounting to
Rs. 3000.



Major Budget of 1860/61

Survapully Channel.

17-3

114'-0"

feet

A hand-drawn scale bar with markings at 10, 5, 20, 20, 40, and 100. The scale is labeled '100' at the far right end.

Voluntarily
District Engineer, Nellore.

Aug. Richardson Captains
Q. Eng. B.

of the most of them

4/6980/58

No

D. Pl.

Enclosed in a letter from the
District Engineer Nallore
Dated 17th September 1858. No 2012

7097.3029/62

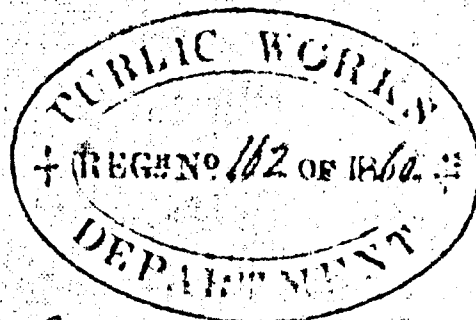
The Chief Engineer
Fort St George

308/60

313/57

~~313/57~~
313/58

Plan and Section of Lyphom
Sluice for Nallore Tank
Channels under Surampilly
Channel Amounting to
Rs. 1250.



Madras Budget of 1860/61.

PLAN of the ANNICUT CHANNELS
showing

308/60
N. 288/60

Plan of the Annicut Channels
showing the portions surveyed
& estimated for use in October
1858.

of the most of them
you may not find

Carried Over 1769

(1) Number of pages 6
(2) Date of repair 6-12-38
(3) Initials of the Referencer Q

AS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

Cons. 20-2-1860

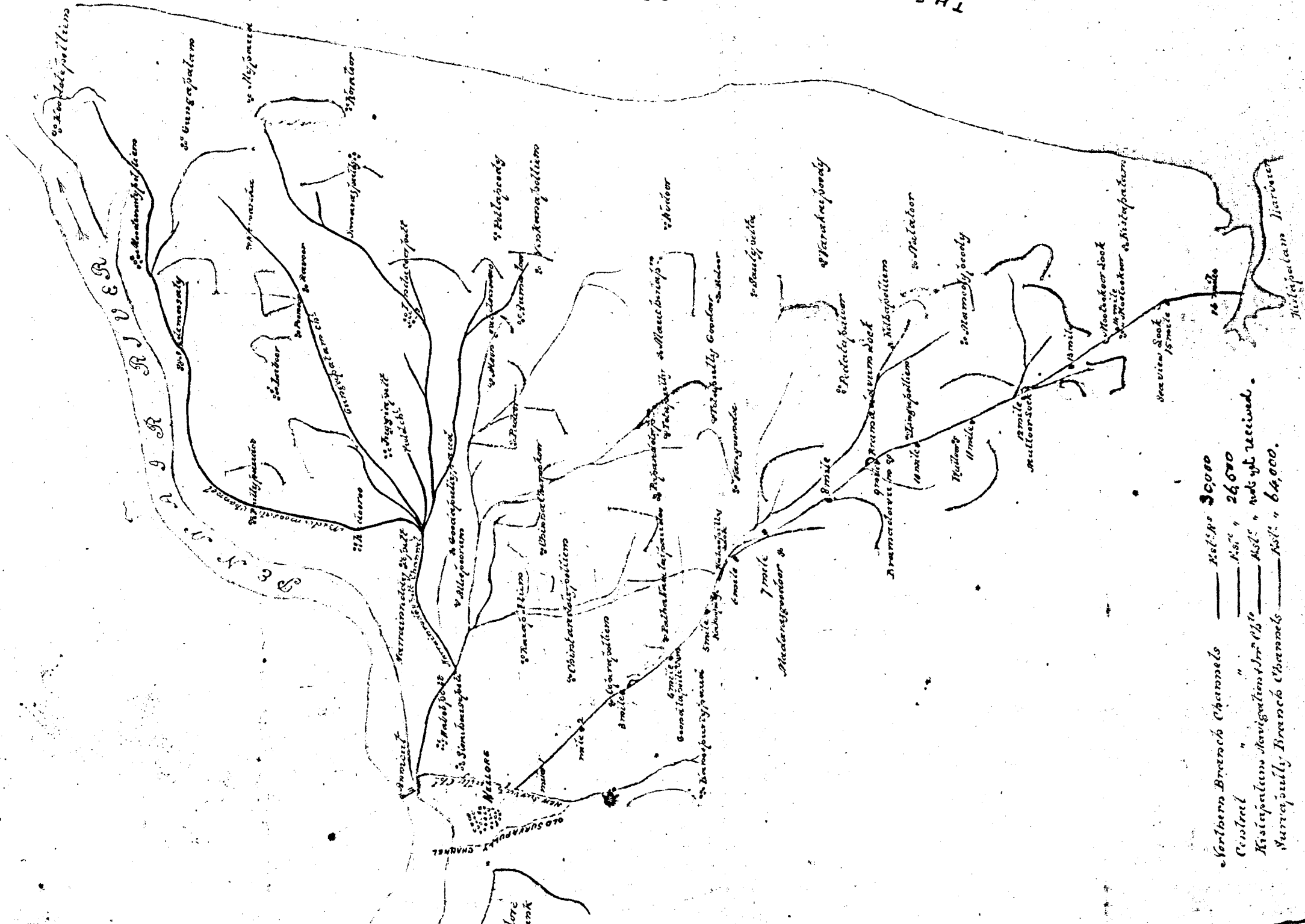
No.	361	Press
		Mis.
ted	17-2-	1860.

be folded or roughly handled

PLAN of the ANNICUT CHANNELS

showing

the portions Surveyed and Estimated for up to October 1858



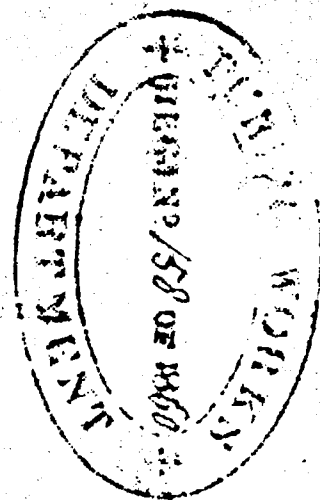
Northern Branch Channels — Rs. 30,000
 Central " — Rs. 24,500
 Kistapalams Navigation & Co. — Rs. 4,000
 Surveyed Branch Channels — Rs. 64,000.

10/10/58

3/
 District Engineer, Malwa.

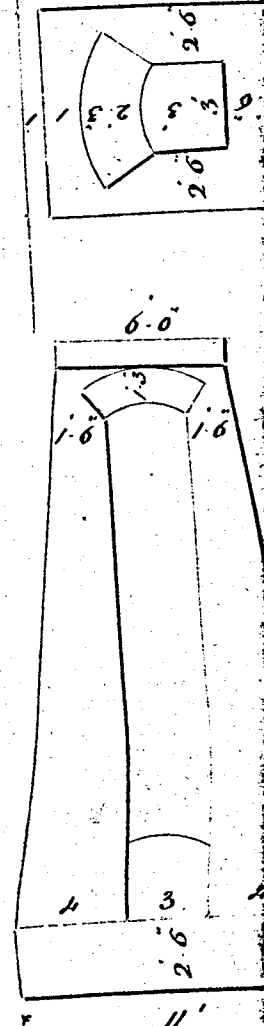
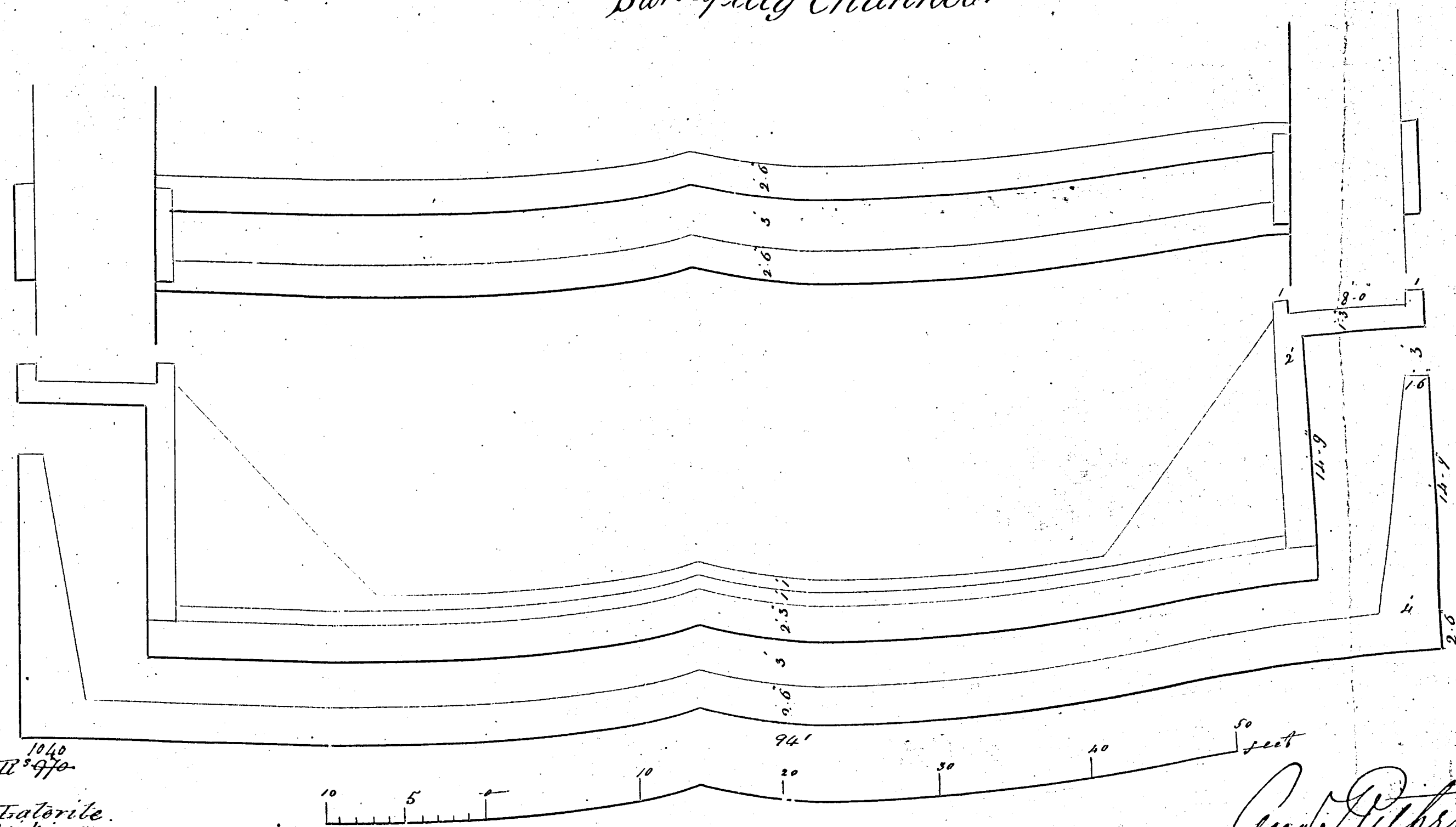
Jan. 23/29/62

Major's Office of 1860/61



No. VI

Syphon Sluice for Nellore Tank Channels under Survapilly Channel.



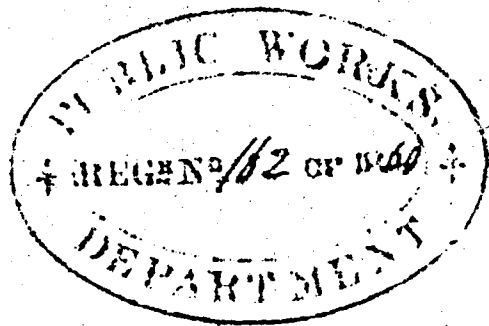
Estimate II 1060
Soil - Clay
Material - Laterite.
Brick in Churnam.

Nellore
24 July 1858.

W. S. S. S. S.
District Engineer, Nellore.

C. P. P. P. P. P.
Ex. Eng. N.

Carried Over 1769s



Madras Budget of 1860

Revenue
Irrigation

Encl. 2.
1 Abs^l Estimate
1 detailed do.

Central Office P.W.
No. 1018
Separation
7 February 1860

From
The Chief Engineer
To
The Secretary to Government

Sir.

With reference to the Official
Memorandum dated 4th Instant
I have the honor to state, that my reason
for submitting a reduced Estimate of
Rupees 45,530 for connecting the Sanga-
palli and Jaffer Sahib Channels
was, that I was anxious to include in
the Budget the full amount for
completing the work to the proposed
extent which, therefore, was limited
to the lowest sum that could be
economically expended, and I was
equally desirous of keeping the allot-
ment for the work at its minimum
in order to avoid swelling the
aggregate amount of the Budget.

There

Carried Over 17698

2. There is no objection whatever other than may be based on its amount, the retention of the full Estimate in the Budget, for the whole work will eventually be carried out with the certainty of realizing all the advantages exhibited in the Returns submitted by the Collector.

3. The original Estimate to be returned for the work is therefore resubmitted, and contains all the details of cuttings, proposed to be made, as called for in para. 2 of the Memo under acknowledgment.

4. It is to be observed that the sum of Rupees 3,500 which was sanctioned for compensation for land, and deducted from the amount to be expended in the Current year out of the advance of 10,000 Rupees authorized for the above work, is not provided for in the original Estimate, and must therefore be considered as an additional charge against the work.

J

No. 9304

dated 2nd Instant
No. 9901-

Seputham.
7 February 1860

L. Stoll
By Chief Eng. Circle

L. May

3
5 I should further explain that in making my report of the 19th ultimo, I intended that the 25,000 then recommended should be the limit of the expenditure up to May 1861. On further consultation with Colonel Lawford however I found that it would be very inconvenient and expensive to lay out that limited amount independently though it would be sufficient for the mere supply, and I therefore in my second letter submitted the Estimate of Rupees 18,580 to provide for a longer expenditure from this period to May 1861. As the Budget has been closed with, it is understood, an assignment of only Rupees 25,000 for 1860-61 whatever additional amount is required may be provided from the reserved fund.

I have the honor to be
Sir.

Yours most obedt. Servt.
J. Stoll
Chief Engineer

Carried Over 17698

Revenue Irrigation. (New Work)
 Abstract of Estimate No. of 185 1/5
 District Allore
 Talook Village
 Work New Cut from Jaffer Saib Channel into Surva-
pully Old Channel

Quantities	Description of Work	Rate		Amount	Amount of each part
		Rs.	A. P.	Rupess.	Rupess.
C. Vards.	Widening Jaffer Saib Channel from Head Sluice to 1 st Dividing Dam.				
25133	Cutting Latrite <u> </u> 7 Cysd.	"	6	9425	
17101 1/2	Widening Channel <u> </u> 9 ²	"	1 1	1158	
7755 1/2	<u> </u> 9 ² <u> </u> 9 ²	"	1 3	608	
21558 1/2	<u> </u> 9 ² <u> </u> 9 ²	"	1	1349	
18686	<u> </u> 9 ² <u> </u> 9 ²	"	10	973	
5850	<u> </u> 9 ² <u> </u> 9 ²	"	9	274	
					13787
2400	19 ² Surfing Channel <u> </u> 7 1/2	"	2 2	325	
2200	<u> </u> 9 ² <u> </u> 9 ²	"	2 1	286	
1650	<u> </u> 9 ² <u> </u> 9 ²	"	2	210	
					821
	No. 1. Dividing Dam for Jaffer Saib & Surva-pully Channels				
777 2/3	Latrite in Chumam <u> </u> 7 Cysd.	3	6	2625	
200	Rough Stone apron <u> </u> 9 ²	1	6	275	
	Excavation <u> </u>	"	"	54	
	Bartling & Sundries <u> </u>	"	"	136	
					3090
					17698

Carried Over

[Faint handwritten notes and signatures, including "To the Chief Engineer" and "Jaffer Saib Channel"]

Quantities.	Description of Work.	Rate.	Amount.	Amount of each part.
C. Yards.		Rs. A. P. Rupees.	Rupees.	Rupees.
	New Cut from Jafferchuli Channel to the old Survaipully Channel		Brought Over	17698
56723 $\frac{1}{3}$	Excavation ————— 3 Cys	" 1 6	5318	
68401	— D ^o ————— D ^o	" 1 4	5700	
68438	— D ^o ————— D ^o	" 1 3	5317	
137411	— D ^o ————— D ^o	" 1 2	10020	
61679 $\frac{1}{2}$	— D ^o ————— D ^o	" 1 "	3855	
				30240
7027 $\frac{1}{4}$	3 rd Turfing Channel — 7 57 $\frac{1}{2}$	" " 3	1098	
11738	— D ^o Embankment — D ^o	" 1 "	2621	
				3719
	No. 2. Bridge of 3 arches for Nabobpully Road			
20260 $\frac{7}{16}$	3 rd Salute in Chunnam — 7 6 $\frac{1}{2}$	" 2 "	2533	
3150	D ^o Arch work ————— D ^o	" 2 6	492	
	Centering —————	" " "	720	
	Excavation and Baling —————	" " "	60	
	Raising approaches —————	" " "	10	
	Surchies —————	" " "	155	
				1000
	No. 3. Bridge of 3 arches for Kistnapatam Road			
11088 $\frac{1}{2}$	3 rd Salute in Chunnam 3 6 $\frac{1}{2}$	" 2 "	1761	
2283 $\frac{1}{2}$	D ^o Arch work ————— D ^o	" 2 6	357	
	Centering —————	" " "	700	
	Excavation & Baling —————	" " "	50	
	Carried over		2868	55657

Quantities	Description of work	Rate	Amount	Amount of each part
		No. of Days	Rupies	Rupies
	Brought Over		2868	55657
	Raising approaches	" " "	40	
	Sundries	" " "	92	
				3000
	No. 1, Syphon Sluice			
	32 1/2 Yds long 9 1/2 Yds Span			
800 1/2	Ct Saturated in Churnam	" 2 "	1000	
1215	Arch work	" 2 6	190	
	Excavation & Centring	" " "	25	
	Sundries	" " "	35	
				1250
	No. 5, 4 ft per Size No. 1	" " "		1250
	No. 6 Syphon Sluice 26 1/2			
	Yds long 9 1/2 Yds Span			
6622 1/8	Ct Saturated in Churnam	" 2 "	828	
994 3/8	Arch work	" 2 6	155	
	Excavation & Centring	" " "	20	
	Sundries	" " "	37	1040
	Extra Establishment			
	1 Head Goomastah for 12 months	20 " "	210	
	1 " " " "	10 " "	180	
	2 Naistries " " "	20 " "	180	
	6 Head Coolies " " "	1 " "	288	1188
	Sundries	" " "		615
				64300
	Deduct Amount proposed to be expended in the Current year under the grant of 10000 Rupies			1320
				59980

Central Office of P.W.
Singapore
7 Feb, 1865

N. A. Amund Registering Section 59980.
M. H. C. Colonel
 Chief Engineer. D. P. W.

D1
Enclosure

In a Letter

From
The Chief Engineer
D. P. W.

To
The Secretary to Govt.
D. P. W.

Dated 7th February 1860
Received

N^o 10018

P.M. 31/6/60

Abstract Estimate for New
Cut from Jaffer Sair Channel
into Survapalli old Channel
at Nellore

Amounting to Rs. 59980

Public Works Dept.

N^o 360

Proceedings of the Madras Government

Under date the 17th February 1860

Read the following letter
from the Chief Engineer.

Submits with observations
Colonel Lawford's report on his
inspection of the Pennair Mient,
recommends that the estimate
amounting to Rs. 59980 for
connecting the Survapalli
channel with Jaffer Sair's
channel may be included in
the Budget of 1860/61 with pro-
vision of Rs. 25000 for the year
and recommended on account
of the urgency of the case that
this sum may be sanctioned
as an advance.

With reference to Off^{ce} Mem^o.
N^o 15 of 28th Jan^y/60 forwards a
Sketch of the proposed junction of
the Jaffer Sair & Survapalli Channels
together with an Estimate amounting
to Rs. 48580 and requests sanction
for an advance of Rs. 25000 for the
current years expenditure.

Forwards Estimate amount-
ing to Rs. 59980 for connecting the
Jaffer Sair and Survapalli Chan. (Here - 4th - - - - 10018)
and states why the reduced
Estimate of Rs. 48580 was submitted

In the first of the
above letters, the Chief
Eng^r requests that the esti-
mate of Rs. 59900 previously
submitted by him for
connecting

connecting the Sarva-palli
Channel with Jafar Sahib
Channel in Bellary may be
included in the Budget
of 1860/61 with provision for
an outlay of Rs. 25,000 in
that year; but in consider-
-ation of the urgency of
the work, he recommends
that the last mentioned
sum may be allowed at
once as an advance. With
the second letter, the Chief
Eng^r sends up another estimate
of Rs. 18,580 for the same
Project, with a request that
the whole of this amount
may be entered for expen-
-diture in next year. In
the third letter, Col Bell
explains, with reference
to a requisition from this
office, that the reduced
estimate of Rs. 18,580

was

45
was sent up in consideration
of economy, and that he
has no material objec-
-tion to the retention in
the Budget of the larger
or as Col Bell calls it, the
"full" estimate; for he
observes "the whole work
will eventually be car-
-ried out with the cer-
-tainty of realizing all
the advantages exhibited
in the Returns submitted
by the Collector." In
respect to the extent of
the next year's outlay,
Col Bell explains
that his second proposal
for an expenditure of Rs.
48,580 was made, because
he found on consultation
with Col Lawford that
it would be very inconv-
-enient and expensive to

lay

lay out independently
the limited sum of Rs
25,000 at first fixed.

2. It appears to
the Govt that to avoid
future applications for
additional outlays, and to
secure the full revenue
return computed by the Comr.
at about 17 3/4 per cent,
it would be proper to
act at once on the larger
estimate of Rs. 57,980; and
they accordingly direct
that that estimate be
included in the Budget
of 1860/61 with provision
for an outlay of Rs.
48,580 in that year, as
recommended by the Chief
Engr.

3. The work in
question being, however,
stated to be of an urgent
character

* Copy of Govt. 28 April 1859
No 982.

47
character, and the amount
of funds available out
of the advance of Rs.
10,000 previously sanctioned
being small (as shown in
para 7 of the Chief Engr's
letter of the 19 ultimo
above recd), the Govt.
resolve, in accordance
with that Officer's recom-
-mendation, to authorize
the Asst Genl. to issue
orders for placing a sum
of Rs. (25,000) Twenty
five thousand at the
disposal of the Dist. Engr.
of Bellare as an advance
upon the Budget. This
proceeding will be reported
for the approval of the
Govt of Madras.

J.P.

10 Copies. Chief Engineer Dist. 18.
Asst. General. A.
For Govt of Madras.

Public Works 1860 Depart^t
Pro: of Govt 20th February.

N. 360.

Pro: of the Madras Govt.
D/17. February 1860.

From the Chief Engr. 27th March
1860. Ori. 615.

From Govt of India 22 March
Ct 839.

From Chief Engr. 21st Novr/60
Ct 2701. in Pro 21st Novr.
N. 2403.

Ordering that Rs 59,980
for connecting Sarsapalli
Channel with Jafar Sahib
Channel in Bellore, be
included in the budget of 1860-61
with a provision for an outlay
of Rs 4,558 in that year,
and sanctioning Rs 25,000
as an advance upon the
budget.

With letter to the Govt.
of India No. 361
of 17th Feb 60.

1860 at 63.