

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. 1929	Press
436-437	Mis.
Dated 20-6-	18 66

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
20th June 1866.*

No. 426. Read the following Proceedings of the Madras Government in the
Revenue Department :—

Sanctioning estimates amounting, in the aggregate, to Rupees 18,150 for certain works on the South Coast Canal, and directing the Accountant General to take steps for placing the above sum at the disposal of the Executive Engineer. (Here enter 15th June 1866, No. 1,463.)

No. 437. ORDER THEREON, 20th June 1866, No. 1,929.

CIVIL WORKS, No. 68.

Communicated to the Controller
of Public Works Accounts.

(True Extract.)

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

To the Controller of Public Works Accounts.

Exd. S. T. Augustin.

Specification to accom-
pany the Estimate for deepening
~~the~~ the Sadras Canal from Covelong
to the Palār River

1st The Canal is to be deepened
in accordance with the depths marked
in the Estimate; . . . The widths
at bottom marked in the Estimate are
6 and 12 yards; but these widths may
be altered on the written authority of
the Engineer:—

The slopes throughout to be
two to one, and unless when the Engineer
expressly states to the contrary the whole
of the excavated material is to be carried
to the back of the present Spoil Bank
William Fraser & Co

4 Dec 1874

Public Detailed Estimate of 1866/67 Repair
District Madras -
Taluk Chingleput -
Work Deepening the Padras Canal from Covelong up to
Palav River -

Particulars of work	Measurement			Cubical contents
	Length	Breadth	Height	
<u>Earthwork</u>				
1. Deepening the Canal between 139 and 144 furlong stone posts - -	1100	6	$\frac{1}{2}$	3300
2. Do the Canal between 18 th and 19 th mile	1760	6	$\frac{1}{2}$	5280
3. Do the Canal between 22 and 23 do	1760	6	$\frac{5}{12}$	4400
4. Do the Canal between 27 and 28 do	1760	6	$\frac{5}{12}$	4400
5. Do the Canal between 192 & 196 stone post	880	6	$\frac{5}{12}$	2200
6. Do the Canal do 209 & 216 do	1540	6	$\frac{1}{3}$	3080
7. Do the Canal between 230 & 232 do	440	6	$\frac{2}{3}$	1760
8. Do the Canal between 29 & 30 mile	1760	6	$\frac{2}{3}$	4040
9. Do the Canal between 30 & 31 do	1760	6	$\frac{2}{3}$	4040
10. Do the Canal do 248 & 254 stone post	1320	6	$\frac{1}{2}$	3960
11. Do the Canal do 290 & 291 do	220	6	$\frac{1}{2}$	660
12. Do the Canal do 296 & 297 do	220	12	$\frac{1}{2}$	1320
13. Do the Canal between 309 & 311 do	440	12	$\frac{2}{3}$	3520

C. C. Canal Office
Church Park Mysore Road
4th June 1866
D. N.

William Russell C.E.
Special Executive Engineer

2072492
Rem 162906
C. C. Canal Office

Abstract

No.	Description of work	Quantity	Rate	Amount	Total
	Barthwork deepening Canal (stone)	3400	8	27200	
2	do do (Clay)	5280	4	21120	
3	do do (Stony ground)	11400	8	91200	
4	do do (do)	11400	8	91200	
5	do do (do)	2200	8	17600	
6	do do	3080	2 1/4	7696	
7	do do	1760	2 1/4	4416	
8	do do	4040	2 1/4	10096	
9	do do	4040	2 1/4	10096	
10	do do	3960	2 1/4	9896	
11	do do	660	2 1/4	1650	
12	do do (Sandy ground)	1320	4	5280	
13	do do (do)	3520	4	14080	
Sundries not including extra				647	
Establishment at about 5 p cent					
Total Estimate					13760

B. C. Canal Office
 Church Park
 Mount Road
 4th June 1866
 E. N.

Killinbury
 Special Execut Engineer

7

Proposed Boat Basin
 at
 Payko's Garden
 on the
 A dipter —
 =
 Specification
 W. J. J. J.

From

St. James's Place, London
 W. J. J. J.

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Memorandum on, and general
specification for, the construction of a
proposed Boat Basin, and other works near
the entrance to the Sadras Canal at Pugh's
garden on the Adiyar.

101 On the accompanying
Plan, the works connected with the
proposed Junction Canal are colored
yellow; those connected with the Boat
Basin are colored Red.

D At the present time Boats
discharge their cargoes upon the margin
of the River between the points marked **E**
and **N**; and the goods are carted away
along the Bandy tracks on the East or
west of Pugh's garden: The metalled
portion of the Public roads is shown by
a dark brown color, the remainder of
these two roads to the River is a deep sandy
track, very difficult to convey goods over;

The metalled part of the road on the west side ends at the point marked B:

3 The proposed Boat Basin has been designed to suit, and form a part of, the works of the proposed Variation Canal: It is 200 feet in length, and 50 feet in breadth from the present margin of the River: The ends may also be used which will give a total length of wharf of 300 feet. The excavated material is to be formed into a wharf along the side and ends 50 feet in breadth and connected with a road which is to be made as shewn on the Plan and Cross sections I. K. and L. M. up to the point marked B where it will meet the present metalled Road.

4 The several longitudinal and cross sections will fully explain the shape and dimensions to which the work is to be formed:

The wharf and road are

to be raised to a height of one foot above the highest floods: The upper side of the road to the point marked O. is to be revetted with stone and at the River end it is to be curved round and strongly revetted as shown on the Plan: all the other slopes are to be turfed. — The stone for this purpose is to be brought from Bonelong where we have a large quantity of gneiss already quarried and lying on the margin of the back water.

5 The Road is to be 15 feet wide in the clear of a low parapet on the upper side, and a sod fence on the lower side: See section I, K: The Road is to be formed with a rise of 3 inches in the centre and then to be either rolled or beaten down so as to form a firm surface: Over this are to be laid the largest pieces of *Staterite* gravel that can be obtained but not ^{much} exceeding

$4\frac{1}{2}$ in thickness: They are to be laid by hand with their flattest and broadest surfaces underneath: This pavement is to be rolled or beaten down to the proper shape, and over it 3 inches of small laterite gravel is to be laid with water and beaten down in the usual way: The remaining $1\frac{1}{2}$ inches depth of gravel estimated for, is to be retained for repairs during the first year.

6 When Pugh's garden was lately sold, the Govt reserved the portion shaded round with red for River conveyance: Over the greater portion of this land the high floods now pass: I propose to fence it in with a Kurka Pilly hedge and to plant it with Coconuts and other trees: The cost of this work, and that of preserving the trees for one year is included in the Estimate: Its area is nearly 15 Cawnies, and probably 13 Cawnies could be planted with

about one thousand Coconuts - nut trees; which, in about 5 or 6 years, would yield one thousand Rupees a year: - along the sides of the Road, and the margin of the River, I would plant some Casuarina and ornamental trees.

The planting of this piece of ground as proposed would be a great improvement; as it is now a broken sandy waste very offensive to the eye.

7 The formation of a Boat Basin at the Adigar is not a new idea: On looking through the records of the Canal Office I find that in August 1859 a Boat harbour was proposed to be constructed there at a cost of 6,300 Rupees: It was then proposed to have the Harbour excavated in the high ground at Pugh's garden, and to connect it with the River by a channel 540 feet in length

the channel and Basin were to be
protected by a stone groyne about
600 in length: —

We have no record to show
~~that~~ this plan was submitted to
Government. —

E. B. Canal Office

Church Park Mount Road Millers Bush E. B.

5th June 1866

Special Execut Engineer

Estimate of the Probable cost of New road and

Landing wharf near Rush Garden at the Adyar

No of Items	Description of works	Number	Measurements in feet			Quantity	Rate	Amount			Total		
			Length	Breadth	Depth			Rs	As	P	Rs	As	P
<u>Earth work</u>													
1	Excavation in Basin above water level	1	180	48	2½	21,600							
2	Raising and forming new road	1	585	133	"	77,805							
3	do	1	400	80 7/8	"	32,300							
4	do new wharf	1				58,500							
	Cubic feet					190,205	as						
5	Excavation in Basin below water level					7,045	1½	660	7	6			
6	Clearing the river in front of Basin	1	180	50	1½	36,000							
	do	1	220	30	1½	9,900							
	Cubic feet					45,900	as						
	do yards					1,700	2½	265	10	0			
<u>Turfing</u>													
7	Slopes on down stream side of the Road to the ford	1	585	17 1/2		10,068							
8	To the right and left slopes of Road outside	2	400	9		7,200							
9	To the rear and end slopes of wharf	1	400	13 1/4		5,364							
10	To Interior slopes of Basin	1	305	18		5,490							
	Square feet					28,122	as						
	do yards					3,125	1	195	5	"			
<u>Rough stone revetment</u>													
11	Slope on the Upper stream side of road including	1	745	1½	11.5	11,126							
12	end of wharf					11,126	Rs						
	Cubic feet					1,12	2	824	"	"			
<u>Metalling with Laterite</u>													
12	To making road way with laterite gravel	1	1385	15	9"	15,581							
13	To gravelling the wharf	1	300	50	9"	11,250							
14	do the projecting parts of wharf	1	area		9"	2,790							
	Cubic feet		3720			29,621	Rs						
15	Clearing and planting the waste land					1,097	1¾	1919	12	"			
	do yards							317	"	"			
	Total Rs							4182	2	6			
16	Contingencies and sundries at 5 percent							207	13	6			
	Grand Total										4390	"	"

Madras Water Works
Office
4/6/66

William Russell Esq.
Surveyor & Engineer

H. Pinner
Arch

Rev = 1628/66

~~27 231/66~~

Rev. 20 June 1866

27/6/66

*Proceedings of the Madras Government, Revenue Department,
15th June 1866.*

No. 349. Read the following letter from W. FRASER, Esq., C. E., Special Executive Engineer, to the Secretary to Government, Public Works Department, dated Mount Road, 4th June 1866, No. 16 :—

1. I have the honor to submit a Plan and Sections of the proposed Boat Basin at Pugh's gardens at the Adiyar, See Government Memorandum, No. 182, dated 17th May 1866.

with an Estimate and Specification for the same :—
The works proposed to be done are fully explained in the Plan and Specification.

2. I forward also an estimate for deepening the portion of the Sadras Canal between Covelong and the Palar river.

The attention of Government was drawn to the shallowness of this portion of the canal in two Petitions from certain boat owners, in the month of July 1865. In my letter to Government No. 77, dated 26th July 1865, in answer to these petitions, I explained the facts of the case.

3. The estimate alluded to therein was prepared in November 1865, and forwarded through the Superintending Engineer to be included in the Budget for the current year; but, for some reason which I do not know, the amount was not included in the Budget.

I have now the honor to request permission to proceed with the work which is very necessary.

4. In a few days I will send up an estimate for deepening another portion of the canal.

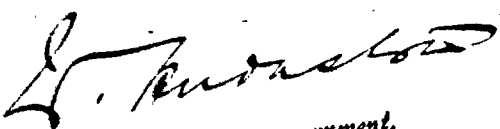
Referred to the Revenue Department, with reference to the Orders in that Department, No. 668, dated 16th March 1866.

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

FORT SAINT GEORGE,
7th June 1866.

No. 350. ORDER THEREON, 15th June 1866, No. 1,463.
1. The Government approve and sanction the proposed works on the South Coast Canal.
2. The Accountant General will take the necessary steps for placing the amount of the estimates, aggregating Rupees 18,150, at the disposal of the Executive Engineer from the accumulated Tolls and License fees mentioned in his letter of 14th March 1866.

Local Funds, No. 7.
Civil Works.

(True Extract.) 
Acting Secretary to Government.

To W. Fraser, Esq., C. E., Executive Engineer.
.. the Accountant General.
.. the Revenue Board.
.. the Superintending Engineer, 4th Division.
.. the Public Works Department. *with 4 enclosures*
Erd. S. T. Augustin.

Chas. H. Smith

Communicated to the
Editor of the
Accounts —

W. H. Smith

Spent 21 days
20th June 1862

4th of the Institution
Principles of

14
2

Leaf 21 of 22

Nov. 20th June 1862

P. J. Webb Dept
To: Mr. Webb for June
A 2492

To: Mr. Webb as Govt
in the Rev. Dept

D/ 15 June/66
(Rec'd)

Ex. 10: A 1153.

ex. 1929 - 20 June/66

Auctioning
estimates amount-
ing, in the aggre-
gate, to Rs 18,150 for
certain works on
the South Coast
Canal, & directing
the Acct^{ts} Genl. to
take steps for plac-
ing the above
sum at the disposal
of the Ex. Comr.

A 486-487.