

(1) Number of pages 29(2) Date of repair 7. 11.

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 383

Press
Mis-

169-170

Dated 5. 2. 1868.

Not to be folded or roughly handled

10

*Proceedings of the Madras Government, Public Works Department,
5th February 1869.*

No. 169. Read the following letter from the Secretary to the Government of India, Public Works Department, (Irrigation,) to the Secretary to the Government of Fort St. George, Public Works Department, dated Calcutta, 5th January 1869, No. 5 I. :—

1. In reply to your letter No. 3,892, dated 14th December 1868, I am directed to state that the Governor General in Council authorizes the work of excavating the proposed channel from the terminus of the Eastern side Channel of the Masulipatam Canal near the Aukumurroo Lock to Gokaveram, in the Kistna District, being carried out from the Extraordinary grant for Agricultural Works during the year 1868-69.

2. I am to explain that it was not intended by Public Works Department letter No. 132 A. I., of 1st September 1868, paragraph 3, clause IX, to require the submission of estimates which are within the power of the Madras Government to sanction. All that was required was information that an estimate had been sanctioned, and such a general description of the work and the grounds on which its remunerative nature was affirmed, as would satisfy the Government of India that the project was a proper one for execution from the Extraordinary allotment.

3. The estimates and plans are returned.

No. 170.

ORDER THEREON, 5th February 1869, No. 383.

IRRIGATION, No. 7.

Communicated to the Superintending Engineer of the 2nd Division.

(True Extract.)

Colonel, R. E.,
Secretary to Government.

To the Chief Engineer for Irrigation.
" Superintending Engineer, 2nd Division.
" Controller of Public Works Accounts.
" Accountant General.

Exd. S. T. Augustin.

Cort. of 1869 Madras.

PUBLIC WORKS.

To

THE CHIEF ENGINEER FOR IRRIGATION.

&c. &c. &c.

Patel Feb. 1869.

Recd

G. O. 132 A. I. of 1st September 1868.

FEBRUARY.

Nos. 169-170

Cancelled.—Letter from the Government of India, granting permission for the work of excavating the proposed channel from the terminus of the Eastern Side Channel of the Masulipatam Canal near the Ankumurroo Lock at Gokaneram, Kistna District, being carried out from the Extraordinary grant for Agricultural Works during 1868-69; and detailing the particulars of information required to show that a project is a proper one for execution from the Extraordinary allotment, communicated to the Officer concerned.

No. 5. Government of India.
Public Works Department.
Irrigation.

To,
The Secretary to the Govt. of Madras,
in the Public Works Department.

Calcutta, 5th January 1869.

Sir,

In reply to your letter No. 3892 dated 14th December 1868, I am directed to state that the Governor General in Council authorises the work of excavating the proposed Channel from the terminus of the Eastern Side Channel of the Masulipatam Canal near the Ankumurroo Lock to Gokaneram in the Kistna District being carried out from the Extraordinary grant for Agricultural Works during the year 1868/69.

2. I am to explain that it was not intended by Public Works Department letter No. 132 A. I. of 1st September 1868, para. 3 Cl. IX, to require the submission of estimates which are

are within the power of the Madras Government to sanction. All that was required was information that an estimate had been sanctioned, and such a general description of the work and the grounds on which its remuneration was assigned, as would satisfy the Government of India that the project was a proper one for execution from the Extraordinary allotment.

3. The estimates and plans are returned.

Yours truly,
Sir,

Your Most Obedt. Servant,

Wm. C. R. A.

Secy to the Govt of India

Specification Report & accompanying plan and estimate for constructing the Dunes Tunnel in 3.2 mile of the Ramasaypollam Channel amounting to Rs 1820.

Foundations

- 1 Abutments to be $4\frac{1}{2}$ ' thick at bottom and 3' at the floor and 4' deep.
- 2 Piers to be $3\frac{1}{2}$ ' thick at bottom 2' at the floor and 4' deep.
- 3 Wing walls to be 4' thick at bottom $2\frac{1}{2}$ ' at the floor & 4' deep.
- 4 Retaining walls connecting the abutments and piers to be 2' thick at bottom and $1\frac{1}{2}$ ' at the floor & 2' deep.
- 5 Flooring between retaining walls to be 9" thick resting on a layer of 6" thick concrete.
- 6 The Tunnel consists of 3 semicircular arches, the thickness of the Arch being $1\frac{1}{4}$ '.
- 7 The Wing walls above to be $2\frac{1}{2}$ ' thick at the floor and 2' at top and $8\frac{1}{4}$ ' in height including parapets.
- 8 The backing to abutments to be $4' \times 15' \times 5\frac{1}{8}$ '.
- 9 The spandrels to be $8' \times 20' \times 1\frac{1}{2}$ '.

- 10 The face walls to be $4\frac{1}{4}' \times 2\frac{1}{2}' \times 1\frac{5}{8}'$
- 11 The Cordon work to be built as shown in plan -
- 12 The parapets to be 2' thick & 4' high.
- 13 The Tunnel to be built with bricks in Chumam and the whole work to be pointed neatly.

Supd Engineer
 Madras Palace Commission V. S. R. S.
 23rd October 1871.
 Mr. M. J. S.

In a letter No 102

From
The Sup^r Engineer
J^r Division
To
The Secretary to
Government G.P.W.

Dated 23rd October 1867

Despatched 28th 3-

Received
P.P. 14th 8/69.

Specification report
to accompany Plan & Estimate
for constructing the water
tunnel in 32 miles of the
Ramarajapollen channel
amounting to Rs 1820

Detailed Estimate No 32 of 1867/68

Ristna District

Work Excavating an Irrigation channel from An-
-kururu Lock to Gohaveram near Munganaudy,
bottom width $14\frac{1}{2}$ ft average side slopes 2 to 1 longi-
-tudinal slope 3" per mile-

Number of miles	General Estimate of stations in plan.	Distance	Level of ground	Level of Bed of Channel	Depth of Cutting	Area (W+2d)x d	Square feet	Total Cubic ft.
1	12		9.73	6.75	2.98	(22+5.96) 2.98	83.32	
2	24		8.65	6.5	2.15	(22+4.3) 2.15	56.54	
3	36		9.02	6.25	2.77	(19+5.54) 2.77	67.97	
4	48		9.38	6.0	3.38	(17+6.76) 3.38	80.3	
5	60		9.18	5.75	3.43	(15+6.86) 3.43	74.97	
6	72		8.21	5.5	2.71	(15+5.42) 2.71	55.33	
7	84		8.0	5.25	2.75	(15+5.5) 2.75	56.37	
8	96		7.85	5.0	2.85	(12+5.7) 2.85	50.44	
9	108		6.75	4.75	2.0	(10+4) 2.0	28.0	
10	120		6.87	4.5	2.37	(8+4.74) 2.37	30.19	
11	132		6.91	4.25	2.66	(4 $\frac{1}{2}$ +5.32) 2.66	26.12	

5280

X 609.55 = 32184.24

or
C. yards 119200 $\frac{8}{9}$

10 Branch channels each

7500 ft long (4 $\frac{1}{2}$ +2d)x 2 $\frac{1}{4}$

average depth = 1518750 or C. yards 56250

Sup^r Eng^r's Office
Ristna District
23rd October 1867

Rev. Mr. Miscom
Superintending Engineer
J^r Division

Abstract Estimate No 37 of 1867/68

Nishan District

112

Excavating an Irrigation channel from ahu-
murra Loch to Gohaveram near Hongenapur, bottom
width $14\frac{1}{2}$ ft. average side slopes 2 to 1 longitudinal
slope 20" per mile.

Quantity	Description of charges	Rate	Amount	Total
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Main Channel

119201	Cy ² of earth work per Cy ²	" 10	7450	10
	10 Branch Channels			

56250	do of earth work per Cy ²	" 11	3,222	106
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	Clearing line for 11 miles per mile	500	5500	
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	Sundries and Contingencies		302	46
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11030 00

Masonry works.

1	Under Tunnel as per estimate attached		1320	00
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10	Irrigation sluices	each 5000		5000
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Total Estimate Rupees 13350 00

Supy Engrs Office & Co
Masulipatam
23rd October 1867

W. H. H.
J. H. H.

Commissioner of Public Works

Superintendent of Division

Belur

15th January 1868

Forwards

G. H. H.

Work

Constructing the lower Tunnel in 3 miles of the Ramaragupollam Channel

In a letter No. 102

From

The Supy Engineer
at Division

To

The Secretary to
Government G. P. D.

Dated 23rd October 1867

Despatched 28th Do

Received

148/69
P. H. 30/10/67

Constructing lower Tunnel
in 3 miles of the Ramaragupollam Channel

Amounting to Rs 1820

Quantity.	Description of Charges.	Rate.	Amount.	Total.
184	Cy of brick in Chunam for Grd.	5 6 -	989 -	
5	do of Concrete in Chunam	4 2 -	20 10 -	
1706 1/4	Cy of Arch work in Chunam for Grd.	4 6 -	479 14 2	
120	Rt of Corson work in Chunam per R fls -	5	3 2 -	
30	Squares of Pointing per Sq ft -	3 8 -	105 -	
204	Cy of Earth work per Cy -	1	12 12 -	
	Constructing		75 -	
	Drinking Water		50 -	
	Sum of Conveyance at 5 p per ft. ..		84 9 10	
	Total Estimate Rs -			1820

Supy Engineer
at Division
23rd October 1867.
R. H. 30/10/67

Accepted
Supy Engineer

Constructing Dunes Tunnel in 3-1 Mile of the
Ramaregum Channel

Particulars.	Number.	Measurement.			Cubical Contents.
		Length.	Breadth	Height.	
Abutments Foundations	2	28 3/4	3 1/4	4	622 1/2
Piers	2	20 3/4	2 3/4	4	456 1/2
Wings	4	17 1/2	3 1/4	4	910
Retaining Walls	2	16 7/8	1 3/4	2	137 1/2
Floorings	3	16 7/8	5 7/8	3/4	223 17/256
Superstructure	2	15	4	5/8	75
Dacking to abutments	2	16	20	23/24	613 1/3
Parapets	2	5 1/2	2 1/2	1 5/8	69 7/8
Face Walls	4	19 1/4	2 1/4	8 1/4	1447 2/3
Wing Walls including parapets	2	24 1/2	2	4	392
Parapets excluding Wings					4966 643/768 or 19846/25728
Total Brickwork in Churnam					183
Arch Work	3	23 3/4	20	1 1/4	1706 1/4
Total Arch Work in Churnam					1706 1/4
Pointings	3	18 7/8	20		1132 1/2
Soffit of the Arch	2	28	4 1/4		238
Face Walls	4	18 1/4	10 3/4		784 3/4
Wing Walls including parapet	2	28	10 1/2		588
Parapets including Wings including Crown Work	3	6	20		360
Floorings	6	14 1/8			3103 1/4
Total pointing					84 3/4
Cost of the area for segments	3	5 1/2	16 1/2	1/2	3018 1/2
Concrete under floorings	3	5 1/2	16 1/2	1/2	136 1/8
Total Concrete in Churnam					5 1/4

1867/11/16/1869.

Excavating foundation					
Abutments					
Piers	2	25 1/2	8 1/2	4	1734
Wings	2	25 1/2	7 1/2	4	1530
	4	17 1/2	8	4	2240
* Total Earthwork R.C. Cyl.					5504
Cordon Ditch running feet					203 29/27
Centering	2	60			120
Palmy Drains					
Sundries & Contingencies					

Superintendent
 Manual Labor
 23 October 1867. P.M. 148/69.
 H. B. 11/6
 11/6
 Geo. M. Mason V. S. L. B.
 Super Engineer D.D.

11/7/69
 11/7/69
 11/7/69

11/7/69
 11/7/69
 11/7/69

2162, Jan'y 1869 R. 26th

214

Wm. B. Field, Jr.
Pres.,

22-4-3/111

Rec 148
Govt. of Madras.

PUBLIC WORKS.

To
The Chief Engineer
for Irrigation

Dated

Recd.

G O S. Feb 2 1869

Nos. 169 & 170

out from the Extraordinary
Grant for Agricultural works
during 1868-69; and detailing
the particulars of information
required to show that a
project is a proper one
for execution from the
Extraordinary allotment.
Could Wnd Off. concerned.

Channel Letter from the
of India granting permission
for the work of excavation
the proposed channel from the
terminus of the Eastern side
Channel of the Indus
Canal near the Anand
-muroo Lock at Cohanwar
Rishik, being carried on