

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

P. W. DEPARTMENT.

G.O. No.	1136-7	Press
		Mis.
187-190		
Dated	15-4-	1868.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
15th April 1868.*

No. 189. Read the following letter from the Consulting Engineer, Irrigation and Canal Company, to the Secretary to Government, Public Works Department, dated Madras, 19th March 1868, No. 149:—

1. I have the honor with reference to the Order of Government, No. 722, of the 4th instant, to furnish the explanations asked for in paragraphs 8, 9, and 11, of the Proceedings Government of India of the 10th February last, No. 16 A-I.

Paragraph 8.

2. The greater part of the amount, Rupees 16,60,000, entered in the Budget of 1868-69 for expenditure by the Madras Irrigation and Canal Company, will be taken from the Loan Capital, and will, supposing the exchange to remain below two shillings the rupee, be drawn in England by the Directors, and remitted to their Agent in Madras. The average* expenditure at present from the original guaranteed capital, which has to be drawn

from the Government Treasury at Madras, is Rupees 7,881 a month, and, on the 1st of January last, the Agent and other officers of the Company had a balance of Rupees 1,58,560, so that in 1868-69 probably the amount, if any, which will be drawn from Government, will be very small.

* Of the last six months.

Paragraph 9.

3. I enclose a copy of the statements furnished by the Agent on which the entry in the Budget is based. Subjoined is a statement showing what works have been sanctioned, and are in progress, with the expenditure incurred on each up to the 31st December last:—

Work.	Amount sanctioned by Government up to 19th March 1868.			Amount expended up to 31st December 1867.			
	RS.	A.	P.	RS.	A.	P.	
<i>Main Supply.</i>							
Anicut and head works at Kurnool.	3,03,080	0	0	60,326	7	8	Abandoned.
Do. do. at Soonkasala	4,27,052	0	0	4,10,616	6	5	Not in progress. Nearly complete.
Do. do. at Somaiswaram ...	1,71,727	1	7	69,276	1	6	
Aqueduct across the river Hindry.	2,46,029	8	0	2,67,647	5	1	
Canal for one mile from the head sluice of the Kurnool anicut.	65,000	0	0	40,281	9	3	Abandoned.
South Main Canal, 1st section 17½ miles.	8,81,927	0	0	9,06,344	14	5	The canal in these sections is approaching completion, and will probably be finished during 1868-69.
Do. 2nd section from 18th to 32nd miles.	18,00,150	0	0	15,80,291	4	10	
Do. 3rd do. 33rd to 43rd do....	9,58,000	0	0	7,16,051	11	5	
Do. 4th do. 44th to 60th do....	10,55,520	0	0	8,32,451	3	7	Will be pushed on as far as labor will allow.
Do. 5th do. 61st to 72nd do....	7,05,345	0	3	6,20,462	12	0	
Do. 6th do. 73rd to 91st do....	4,43,677	5	4	3,34,683	7	4	
Do. 7th do. 92nd to 114th do....	4,74,453	5	4	2,22,098	14	0	
Do. 8th do. 115th to 143rd do....	7,36,830	0	0	2,65,781	5	2	
Do. 9th do. 144th to 178th do....	9,45,837	0	0	48,732	0	2	
Do. 10th do. 179th to 186th do....	1,94,330	0	0	1,313	14	0	
Total ...	94,08,959	4	6	63,85,362	3	10	

*Proceedings of the Madras Government, Public Works Department,
15th April 1868.*

Work.	Amount sanctioned by Government up to 19th March 1868.	Amount expended up to 31st Decem- ber 1867.	
<i>Distribution.</i>	RS. A. P.	RS. A. P.	
Branch channel and sluices of 1st section.	6,680 15 5	4,056 12 6	It is hoped that additional estimates will be sanctioned, and work undertaken during 1868-69.
Distribution works of the 2nd section.	6,000 0 0	4,405 0 11	
Do. do. 3rd do. ...	9,320 0 0	4,261 6 5	
Do. do. 4th do. ...	8,286 0 0	5,126 9 8	
Constructing a bund across the canal in the 45th mile, 4th section.	76 0 0	72 12 6	
Distribution works of the 5th section.	4,000 0 0	.....	
Do. do. 6th do. ...	10,000 0 0	2,840 7 8	
Do. do. 9th do. ...	15,125 0 0	.....	
Do. do. at Soonkasala ...	.....	925 2 6	
Kurnool town water supply ...	1,699 0 7	1,382 8 7	
Total ...	61,187 0 0	23,070 12 9	
<i>Buildings.</i>			
Central Hospital with out-houses and compound wall at Kurnool.	5,050 0 0	4,367 1 10	
Repairs to do. do. ...	68 0 0	.....	
Overseer's hut at do. do. ...	1,245 0 0	60 0 0	
Office, store-house, and workshop at Soonkasala.	5,947 0 0	5,978 12 8	
Powder Magazine, store and station roads at Bowanassy.	4,359 5 9	4,359 5 9	
Office and store-room and Artificer's shed at do.	7,297 8 5	.....	
Repairing the above buildings at do.	168 0 0	7,522 9 0	
Improvement of the road approaching to the above buildings, and repairing culvert at do.	578 0 0	317 14 0	
Converting the unfinished building intended for a Gun Powder manufactory into a Hospital at do.	427 0 0	19 2 2	
Office and store building at Valapanore in the Bowanassy Division.	1,970 0 0	5,114 0 8	
Do. do. at Jupad in the Nagatore Division.	4,123 0 0	4,415 5 6	
Do. do. at Pugydial do. do.	3,977 7 7	3,833 1 11	
Do. do. at Chintagoonta in Koondaur do.	5,283 0 0	5,102 12 7	
Office and temporary store-shed at Ayalore in do.	642 0 0	67 6 0	
Quarters for Sub-Assistant Engineers and Assistant Surveyors at do.	1,236 0 0	561 4 10	
Repairs to anicut office at Zorapore.	327 0 0	307 12 0	
Office, store, and workshop at Kurnool.	30,612 0 0	13,833 6 9	Likely to be completed in 1868-68.

*Proceedings of the Madras Government, Public Works Department,
15th April 1868.*

Work.	Amount sanctioned by Government up to 19th March 1868.	Amount expended up to 31st Decem- ber 1867.	
<i>Buildings.—(Concluded.)</i>	RS. A. P.	RS. A. P.	
Iron and brass foundry at Kurnool.	15,327 15 4	15,167 8 7	Intended to be carried out at once.
Room for receiving and despatching stores at do.	4,750 0 0	3,491 0 8	
Engineer's bungalow at Phoor.	.....	.....	
Total...	93,388 5 1	74,518 8 11	
Line of telegraph from Soonkasala to Cuddapah.	44,116 0 0	.....	
Grand Total...	96,07,650 9 7	64,82,951 9 6	

I have no means of ascertaining, without considerable delay, what the expenditure of 1868-69 on each work is likely to be, but it is probable that the Soonkasala anicut works, the Hindry aqueduct, and the upper five sections of the main canal will be finished within the year, and that the 6th, 7th, 8th, 9th, and 10th sections will be pushed forward as fast as the labor available will allow. The distribution works are much behind-hand, and attention has been repeatedly called to the necessity for taking them up in earnest. I have just received estimates showing that supplemental sanction to the extent of Rupees 1,05,170 is needed for the first section main canal, and the greater part of the balance which such further sanction will make available will be expended before the close of the approaching official year.

Paragraph 11. 4. The remark at the end of paragraph 4 of the letter* referred to by the Government of India, related to the year 1866-67, and it was anticipated in October that there would be no increase of cultivation that season. When the Budget of 1867-68 was framed, the works of the main canal were expected to be capable of carrying water in the following season, that is in 1867-68, over a length of 50 or 60 miles, and there would then have been a considerable extension of irrigation. However, owing to the length of time which was occupied in the re-organization of the Company's establishment, after the almost entire stoppage of the works for want of funds, and to the consequent delay which took place in preparing estimates, and re-starting works, little or nothing was done to the embankments of the 2nd section, the bad state of which prevented the water being carried beyond the 25th mile, a point which had been reached two years before. There was, therefore, no extension of irrigation, and the Budget estimate of revenue proved to be altogether wrong.

Paragraph 12. 5. The forms of Revenue accounts were, under instructions from Government, prepared in this office so far back as December 1864, and were sent to the Company's Agent for acceptance, or for the suggestion of such modifications as might be necessary. The Directors have neither approved the accounts drafted by me, nor suggested any other accounts in lieu of them, and, after making many references to the Agent without result, the draft rules and forms of account were submitted to Government with my letter No. 40, dated 31st July 1866. The last order referring to them is that of the 7th October last, No. 2,352, Revenue Department.

MADRAS IRRIGATION AND CANAL COMPANY.

ENGINEERING DEPARTMENT.

Proceedings of the Madras Government, Public Works Department,
15th April 1868.

Estimate showing the proposed expenditure in India under all heads during the year 1868-69.

Description of Item.	Date of sanction.	Estimated cost including Supplemental.	Amount previously expended for twelve months up to 30th November 1867.	Anticipated expenditure from 1st December 1867 to 31st March 1868.	Total sixteen months.	Amount required for expenditure 1868-69.	Remarks.
PERMANENT EXECUTIVE ESTABLISHMENT.							
Construction.							
Storage	No estimates yet matured.	.....	...	...	...	RS.	
Main supply.							
Soonkasala anicut	23rd Nov. 1861.	4,30,112	35,740	...	...	...	Includes the amount of supplemental estimate as sanctioned.
1st Section, including first three miles.	16th March "	9,41,927	17,910	...	...	...	Includes the amount of 60,000 Rupees sanctioned as an advance, and the revised estimate is under preparation.
Hindry Aqueduct	31st May "	2,46,029½	3,314	...	...	...	Includes the amount of supplemental estimate as sanctioned.
2nd Section	8th Oct. "	18,00,150	25,812	...	...	...	Do. do. of supplemental estimate for Rupees 4,10,476, submitted on the 30th Aug. 1867
3rd do.	24th Dec. "	7,20,290	10,070	...	...	...	Do. do. of estimate for deepening the bed of stream Rupees 6,000, submitted on the 24th July 1867. The supplemental estimate in under preparation, on which an advance of 1½ lac of Rupees has been sanctioned.
4th do.	11th April 1862.	11,81,704	1,11,730	...	...	...	Do. do. of supplemental estimate as sanctioned.
5th do.	Do. "	7,03,607	36,122	...	...	...	Do. do. of supplemental estimate for Rupees 1,14,410, submitted on the 20th Aug. 1867
6th do.	1st "	7,94,141	8,384	...	...	...	Do. do. of Executive Engineer's supplemental estimate, &c., under preparation.
7th do.	10th June "	7,06,280	3,640	...	...	...	Do. do. of supplemental estimate for Rupees 2,33,560 submitted on the 9th Sept. 1867.

Proceedings of the Madras Government, Public Works Department,
15th April 1868.

8th do.	15th May 1863.	8,83,142	7,206	...	...	...	Do. do. of supplemental estimate for masonry work Rupees 1,46,312, as per Executive Engineer's statement which is under preparation.
9th do.	14th March 1867.	9,60,962	5,488	...	...	...	Do. do. of additional estimate for increasing the rate for Rupees 1,46,267 submitted on the 14th August 1867.
10th do. ... ..	.....	3,00,000	...	7,00,000	9,89,600	16,00,000	Estimate is under preparation. The probable amount has been entered for 7th mile 55 chains including tramway as per Railway station.
Nellore works.							
Sonnaiswaram anicut	13th Jan. 1863.	1,62,470	1,267	...	...	...	Includes the amount of supplemental estimate as sanctioned.
Bellary Division.							
Distribution Channel, 1st Section	2nd May 1862.	8,380	243	...	...	...	Do.
Do. 2nd do.	11th July 1866.	6,000	4,760	...	...	...	do.
Do. 3rd do.	"	9,320	7,304	...	...	...	
Do. 4th do.	"	8,068	4,530	...	...	...	
Do. 5th do.	"	4,218	...	...	...	...	Estimate submitted on the 4th January 1865 while an advance of 10,000 Rupees has been sanctioned and returned for revision.
Do. 6th do.	"	98,000	3,180	...	...	...	Estimates under preparation.
Do. 7th do.	.....	2,50,000	...	...	...	...	
Do. 8th do.	.....	1,50,000	...	...	...	...	
Do. 9th do.	.....	.....	...	...	...	...	
Do. 10th do.	.....	.....	...	...	...	...	
Buildings.							
Central Workshop	1st Dec. 1865.	30,612	2,900	...	...	...	
Engineer's bungalow at Dhoor.	28th June 1867.	4,780	...	...	...	...	
Division Office at Andimappully.	12th do.	1,880	...	...	...	...	
Engineer's bungalow at Kurnool.	.....	6,800	...	...	...	...	
Electric Telegraph	23rd Oct. 1865.	44,116	...	...	...	...	
Plant and contingencies ... ..	.....	.....	...	...	...	...	Submitted for sanction on the 4th July 1867.

(Signed) J. H. LATHAM,
Chief Engineer.

KURNOOL, 1867.
16th September 1867.

Proceedings of the Madras Government, Public Works Department.
15th April 1868.

MADRAS IRRIGATION AND CANAL COMPANY.

Estimate showing the proposed expenditure in India under all heads during the year 1868-69.

	1868-69.	1867-68.
<i>General Management.</i>		
Agent's department, salaries	RS. 50,000	RS. 42,000
Contingent expenses... ..	10,000	8,000
Add amount as per Chief Engineer's separate statement (original attached)	16,00,000	15,00,000
Total ...	16,60,000	15,50,000

MADRAS IRRIGATION AND CANAL COMPANY,
26th September 1868.

(Signed) F. H. HENSLOWE,
Agent and Manager.

(True Copy)

(Signed) J. MULLINS, Captain, R. E.,
Consng. Engr., Irrigation and Canal Company.

No. 190.

ORDER THEREON, 15th April 1868, No. 1,126.

ACCOUNT, No. 13.

Ordered that these papers be forwarded to the Government of India.

(Here enter No. 1,127, dated 15th April 1868.)

(True Extract.)

Colonel, R. E.,
Secretary to Government.

To the Consulting Engineer for the Madras Irrigation and Canal Company.
,, Manager for do.
,, Revenue Department. do.

Exd. S. T. Augustin.

9
PUBLIC WORKS DEPARTMENT,
FORT ST. GEORGE,
15th April 1868.

No. 1,127.

No. 191.

To

THE SECRETARY TO THE GOVERNMENT OF INDIA.

SIR,

ACCOUNT, No. 14.

I am directed to forward herewith a letter from the Consulting Engineer for the Madras Irrigation and Canal Company, in which he furnishes the information required by the Government of India in paragraphs 8, 9, 11, and 12 of their Proceedings under date the 10th February 1868, No. 16 A-I., on the Budget Estimate of the Company's works for 1868-69.

I have the honor to be,

Sir,

Your most obedient servant,

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

Exd. S. T. Augustin.

Consulting Engineer's Office
Irrigation and Canal Co.
Madras 19th March 1868

N^o 149

From

Captain John Mullins R.E.
Consulting Engineer I. and C. Co.

To

Colonel C. A. O. R.E.
Secretary to Government P. W. D.

Sirs

I have the honor with reference to the order of Government N^o 722 of the 4th Instant to furnish the explanations asked for in paras 8, 9 and 11 of the Proceedings Government of India of the 10th February last, N^o 16 A-I.

Para 8.

2 The greater part of the amount, Rupees 16,60,000, entered in the Budget of 1868-69 for expenditure by the Madras Irrigation and Canal Company will be taken from the Loan Capital, and will, supposing the exchange to remain below 2 shillings the Rupee, be drawn in England by the Directors, and remitted to their Agent in Madras. The average expenditure at present from the original Guaranteed Capital, which has to be drawn from the Government Treasury at Madras, is Rupees 7,881 a month and, on the 1st of January last, the Agent and other officers of the Company had a balance

last 6.
is 10 sh.

balance of Rupees 158,560, so that in 1868-69 probably the amount, if any, which will be drawn from Government will be very small.

3 I enclose a copy of the Statements furnished by the Agent on which the entry in the Budget is based. Subjoined is a statement showing what works have been sanctioned, and are in progress with the expenditure incurred on each up to the 31st December last.

Work

Sanctioned
by Government
by 31st Decr
1867

Main Supply

Ancient and headworks at Kurnool	303,030	60,326 7 8	Abandoned.
do do at Sunkasala	1,27,052	4,061 6 8	
do do at Somaswarani	1,77,727	7,69,27 6 1	Not in progress
Aqueduct across the river Hindy	24,60,29 8	2,67,647 5 1	Nearly complete.
Canal for one mile from the head sluice of the Kurnool Ancient	68,000	49,234 8 3	Abandoned.
South Main Canal 1 st Section 17 1/4 Miles	82,19,27	9,06,344 14 5	
do 2 nd Section from 18 th to 32 nd Miles	18,00,130	15,80,391 4 10	
do 3 rd do 33 to 43 do		9,68,050	7,16,051 11 5
do 4 th do 44 to 60 do		10,83,521	8,32,431 3 7
do 5 th do 61 to 72 do		7,06,345	3,67,462 12
do 6 th do 73 to 91 do		4,43,677	5,4,33,463 7 4
do 7 th do 92 to 114 do		17,4,453	5,4,22,095 14
do 8 th do 115 to 143 do		7,36,030	2,65,781 5 2
do 9 th do 144 to 178 do		9,45,037	4,87,332
do 10 th do 179 to 186 do		19,43,330	1,31,3
Total	94,07,289	4,6,63,85,362	3 10

The Canal in these Sections is approaching completion and will probably be finished during 68/69.

Will be pushed on as far as labour will allow.

Distribution

Branch Channel and sluices of 1 st Section	6680	156	4086	12 6
Distribution works of the 2 nd Section	6000		4405	
do do 3 rd do	9320		4261	6 5
Constructing a bund across the Canal in the 4 th Section	8286		5126	9 8
Distribution works of the 5 th Section	76		72	12 6
do do 6 th do	1,000			
do do 7 th do	10,000		2840	7 8
do do 8 th do	15,178			
Kurnool Town water supply			928	2 6
Total	1,69,9	7	1,30,2	8 7
	81,187		2,20,76	12 4

It is expected that additional estimates will be sanctioned and work under taken during 1868/69.

Buildings

Central Hospital with out houses & compound wall at Kurnool	5050	4,367	1 10
Repairs to do do do	68	60	
Overseer's hat at do do do	1245		
Office, Store house and workshop at Sunkasala	5947	5978	12 8
Powder Magazine, Store & Station roads at Rowangley	4,359	59	4,359 59
Office and Store room & artificer's shed at do	7,297	85	7,522 9
Repairing the above buildings at do	168		
Improvement of the road approaching to the above buildings, and repairing Culvert at do	578	317	14
Converting the unfinished building intended for a Gun Powder manufactory into a Hospital at do	427	19	22
Office and Store building at Valapattur in the Rowangley Division	1970	5,114	8
do do at Jupad in the Nagavari (S)	4,123	4,415	5 6
do do at Tugydial do do	39,777	77	38,33 1 11
do do at Chintagonita in Pondicherry	5,283	5,702	12 7
Office and Temporary store shed at Agalore in do	642	67	6
Quarters for Sub Assistant Engineer & Assistant Surveyor at do	1236	561	4 10
Repairs to Ancient Office at Gorapore	327	307	12
Office Store and Workshop at Kurnool	30,612	13,833	69
Iron and brass foundry at do	15,327	154	15,167 8 7
Room for receiving & despatching stores at do			
Engineer's Bungalows at Choor	4750	3491	8
Total	93,388	51,74,518	8 11

Likely to be completed in 1868/69.

Line of Telegraph from Sunkasala to Cuddapah 44,116 ... Intended to be carried out at once.
Grand Total 96,07,659 97 64,82,559 9 6

I have no means of ascertaining, without considerable delay, what the expenditure of 1868-69 on each work is likely to be, but it is probable that the Sunkasala Ancient works, the Hindy Aqueduct, and the upper 5 Sections of the Main Canal will be finished within the year, and that the 6th, 7th, 8th, 9th and 10th Sections will be pushed forward as far as the labour available will allow. The distribution works are much behind hand, and attention has been repeatedly called to the necessity for

for taking them up in earnest. I have just received estimates showing that Supplemental sanction to the extent of Rupees 150,170 is needed for the first Section Main Canal, and the greater part of the balance which such further sanction will make available will be expended before the close of the approaching Official year.

4 The remark at the end of para 4 of the Para 11 letter referred to by the Government of India ^{from this office} related to the year 1866-67, and it was anticipated ^{1876-77 Oct 15/86} in October that there would be no increase of cultivation that season. When the Budget of 1867-68 was framed the works of the Main Canal were expected to be capable of carrying water in the following season, that is in 1867-68, over a length of 50 or 60 miles, and there would then have been a considerable extension of irrigation. However, owing to the length of time which was occupied in the reorganization of the Company's establishment, after the almost entire stoppage of the works for want of funds, and to the consequent delay which took place in preparing estimates, and restarting works, little or nothing was done to the embankments of the 2^d Section, the bad state of which prevented the water being carried beyond the 25th Mile, a point which had been reached 2 years before. There was therefore no extension of irrigation, and the Budget Estimates of Revenue proved to be altogether wrong.

5 The forms of Revenue accounts were, Para 12 under instructions from Government, prepared

in this office so far back as December 1864, and were sent to the Company's Agent for acceptance or for the suggestion of such modifications as might be necessary. The Directors have neither approved the accounts drafted by me, nor suggested any other accounts in lieu of them, and, after marking many references to the Agent without result, the draft rules and forms of account were submitted to Government with my letter N^o 410 dated 31st July 1866. The last order referring to them is that of the 7th October last, N^o 2352, Revenue Department.

I have the honor to be,
Sir,

Your most obedient servant,
John Hawkins Captain R.E.
Consulting Engineer I.C.C.

2.255 Invoice 15570.000442

1869

It is further the expenses
have called for by the Govt.
of India with regard to
certain items in the Budget of
1868/69. —

2000 1126.81127.15000000

22

Recd 19th
Feb. 20th. 1868
From the Genl. Mgrs.
to the Secretary to Govt.
of India

Madras Irrigation and Canal Company.

Estimate showing the proposed expenditure in India
under all heads during the year 1868-69.

1868-69 1867-68

General Management

Agents department salaries — 50,000 42,000
Contingent Expenses — 10,000 8,000

Add amount as per Chief
Engineer's separate State-
ment (original attached) — 16,00,000 15,00,000

Total Rupees — 16,60,000 15,50,000

Agents Office
M. S. C. Co.
26th Sept 1867
Comd. H.

1867 S. H. Koushane
Genl. and Manager.

1867 C. A. Badham
Chief Accountant.

(True Copy)

Voluntaries Captain R. E.

Consulting Engineer J. C. C.

underlings
Capt. W. C. C. C.
Consulting Engineer, J. V. C. C. C.

Public Works Department.

CD 1126

PROCEEDINGS of the MADRAS GOVERNMENT.

Under date the 15th April 1868

Read the following

From the Consulting Engineer
of the Company

(Here enter No. 149 dated 19th March 1868.)

Ordered that these papers be
forwarded to the Government
of India

N R No 11

The Consulting Engineer
Manager for
Rivers Dept.

4 Dec 2 16/4/68

To CD 1127
The Secretary to the
Government of India

Sir,

I am directed to
forward herewith a letter
from the Consulting Engineer
for the Madras Irrigation
and Canal Company, on

(10)

which he furnishes the in-
formation required by the
Government of India in
Paras 8, 9, 11 & 12 of their Pro-
ceedings under date the 10th Feb. 1868.
p 16 A. - I. - on the Budget
Estimates for the Campaign
works for 1868/9.

W. B.

Fort St. George
15th April 1868

Recd 16/4/68 with copy of
Proc 1126 of 1868 -

Pub. Works 1868 (Department)

Proc of Govt for April

Proc 1126 of 1868

Proc of the Madras Govt.
Of 15th April 1868

Passing orders on a
letter from the Consulting
Engineer furnishing the
explanations required by
the Govt of India in their
Proc on I. C. C. Budget
Estimate for 1868/9.

Furnishing the Govt.
of India with a copy of the
above letter.