Govt. of {1891} Madras.

REVENUE.

Issued

Recd. Encl.

G.O., 24th March 1891, No. 238.

MARCH.

Season.

Recording Board's Proceedings submitting the detailed lists of works recommended for execution in the affected taluks of the Chingleput district and requesting the Public Works Department to furnish certain information regarding Major Irrigation Works.

No 903 Irrg 1st April 1891

Communicated to the Subdy Engineer & circle and to the chief Engineer for Irrigation

2. The chief Engineer for Irrigation will furnish the information called for in para 3 of the order in the Revenue department

(Sd) J. P

by

SE circle
CE for I.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

Read—again the following G.O., dated 11th March 1891, No. 1691, Mis., Rev. :—

Read—the following Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), dated 2nd March 1891, No. 112 :—

Mr. Clogstoun.

Read—the following letter from J. H. A. TREMENHEERE, Esq., Acting Collector of the Chingleput District, to the Secretary to the Commissioner of Revenue Settlement and Director of the Department of Land Records and Agriculture, dated Saidápet, 18th February 1891, Ref. on No. 50-G.&B.-S.L.R. :—

I have the honor to forward the list of Civil Agency relief works for the Chingleput district.

2. Here is a table which will illustrate the following remarks :—

——	Minor Irrigation works.	Water-supply.	Village-site improvements.	New roads.	Remetalling existing roads and then stacking a year's metal.	Total.
	Rs. (1)	Rs.	Rs. (6)	Rs.	Rs.	Rs.
Saidápet	1,750	(2) 4,035	675	1,08,720	2,32,520	3,47,700
Ponnéri	2,650	(3) 25,275	3,100	1,63,220	2,07,200	4,01,445
Tiruvallúr	4,725	(4) 2,300	5,300	26,600	1,80,750	2,19,075
Chingleput	10,000	9,300	5,600	21,875	1,39,325	1,86,100
Conjeeveram	9,400	(5) 1,57,000	3,570	2,05,390	2,38,925	6,14,285
Madurántakam	9,550	10,400	5,200	91,400	1,52,100	2,68,650
Total ..	38,075	2,08,310	23,445	6,16,605	11,50,820	20,37,255

(1) Each of these figures will be increased to at least 10,000.
(2) Will rise to 10,000.
(3) Carefully prepared.
(4) Will rise to 12,000.
(5) Includes water-supply project to the town.
(6) Each figure will be raised to 5,000.

3. *Column* 1—*Minor Irrigation Works.*—Each taluk can certainly spend Rs. 10,000, so I have called for revised lists.

4. *Column* 2—*Water-supply.*—I have called for larger lists, to be revised especially for the quarters inhabited by the lower castes.

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Note.—The amounts noted in these two columns may be spent if he desires by or under the supervision of the Sanitary Commissioner, as a sanitary expert considers that at present "money in 90 cases out of 100 is either actually squandered or is applied to comparatively useless purposes" —G.O., dated 16th January 1891, No. 79 L.

6. *Column* 4—*New Roads.*—I have struck out many ridiculous suggestions, but I am aware that the list presents a sufficiently bloated appearance, for the District Board would have no money to keep up any large additions to the present mileage. From my recent experience of the Main Division and my remembrance of the Sub-Division, I should say we do not want more than 100 miles of new road at Rs. 500 a mile (50,000) and 300 miles of village roads put in passable order at Rs. 50 a mile (15,000) : to leave a margin, I am returning the lists for revision with a limit of one lakh.

7. *Column 5—Metalling or remetalling existing roads and stacking sufficient metal for one year.*—The figures are taken from estimates prepared by the Local Fund Engineer, and concern 682 miles.

8. The totals of the list come to nearly 20½ lakhs, being sufficient to give work at 2 annas a day for 325 working days to 50,000 persons (5 per cent. of a million).

9. If a famine should break out, I think we should first exhaust all the major and minor irrigation works in the district; then metal or remetal the existing roads, many of which are in very bad order, and stack a year's metal along them; and at a later stage put in hand the new roads, and improve the village roads, village water-supply and the village-sites.

Resolution—dated 2nd March 1891, No. 112.

Submitted for the information of Government.

2. The revised lists called for in paragraph 3 of the letter are awaited.

3. The Board agrees with the Collector in his remarks in paragraph 9. A detailed list of the major and minor irrigation works which the Collector would recommend for execution in the most affected portions of the Ponnéri and Tiruvallúr taluks should be submitted without delay. It should also be stated what works the District and Taluk Boards are prepared to carry out in these taluks from the 1st April next.

(A true Copy and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

To the Secretary to Government, Revenue Department,
with list, in original.
„ Collector of the Chingleput District.

Order—dated 11th March 1891, No. 1691, Mis., Revenue.

Recorded with reference to G.O., dated 24th February 1891, No. 140.

2. It does not appear whether estimates are ready for any of the works entered in the list. Without estimates programmes are useless. The programme called for in paragraph 3 of the Board's Proceedings should be submitted without delay.

(True Extract.)

(Signed) C. A. GALTON,
Secretary to Government.

To the Commissioner of Revenue Settlement, Land Records
and Agriculture, with list.

Read—also the following Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), dated 23rd March 1891, No. 157:—

Mr. Clogstoun.

Read—the following letter from J. H. A. TREMENHEERE, Esq., Acting Collector of the Chingleput District, to the Secretary to the Commissioner of Revenue Settlement and Director of the Department of Land Records and Agriculture, dated Saidápet, 18th March 1891, Ref. on No. 151-S.L.R. G. & B.:—

With reference to paragraph 3 of Board's Proceedings, dated 2nd March 1891, No. 112, I have the honor to submit a detailed list of the major and minor irrigation works which I would recommend for execution as they may become necessary in the most affected parts of Ponnéri and Tiruvallúr taluks, together with a statement

showing the works the District and Taluk Boards are prepared to carry out in these taluks.

2. I also enclose a list of works (major and minor irrigation) to be executed in the taluks of Saidápet,* Chingleput and Madurántakam in the portions where distress is felt.

* Minor irrigation list will follow.

Resolution—dated 23rd March 1891, No. 157.

The detailed lists will be submitted to Government in continuation of Board's Proceedings, dated 2nd March 1891, No. 112.

2. The estimated cost of the works included in the lists and the number of men for whom employment can be found on them for two months at an average wage of annas 2 per diem are as under:—

Taluks.	Cost. Rs.	Laborers. No.
Ponnéri	58,705	7,827
Tiruvallúr	46,855	6,247
Saidápet	21,736	2,898
Chingleput	19,720	2,629
Madurántakam	42,100	5,613
Total ...	1,89,116	25,214

3. The list of minor irrigation works promised for the Saidápet taluk is awaited.

4. The works for which estimates are ready should have been specified in the lists. In the list of works for the Chingleput taluk no estimate is entered against the diversion of the canal, Covelong, Sadras.

(A true Copy and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

To the Secretary to Government, Revenue Department,
with list of works.

Copy to the Collector of the Chingleput District.

Order—dated 24th March 1891, No. 238, Revenue.

Miscellaneous.

Recorded.

2. The Collector should at once report for what works estimates are ready and what steps he is taking to have estimates prepared for the remainder.

3. The Public Works Department is requested to furnish information on this point as regards the Major Irrigation Works.

(True Extract.)

(Signed) C. A. GALTON,
Secretary to Government.

To the Commissioner of Revenue Settlement, Land Records and Agriculture.
„ the Collector of Chingleput.
„ the Public Works Department.

Exd. P. L. Pereira.

80 Copies.

Govt. of {1891} Madras.

REVENUE.

Issued

Recd. Encl.

G.O., 24th March 1891, No. 238.

MARCH.

Season.

Recording Board's Proceedings submitting the detailed lists of works recommended for execution in the affected taluks of the Chingleput district and requesting the Public Works Department to furnish certain information regarding Major Irrigation Works.

No 903 dy 1st April 1891

Communicated to the Suptg Engineer v circle and to the chief Engineer for Irrigation

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(Sd) J. P

tr

S E circle
C E for I.

Govt. of {1891} Madras.

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To be returned when done with

Order thereon to :
903 tr. a/ 1st April 1891.

Communicated to the Supdg Engr Circle and to the Chief Engr for Irrigation.
2. The Chief Engr for Irrigation will furnish the information called for in para 3 of the order in the Rev: Dept.

1 Sdl/ J. P.
Sr

S.E. Vizag
C.E. for Irrgn

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(A true Copy and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

To the Secretary to Government, Revenue Department,
with list, in original.
„ Collector of the Chingleput District.

Order—dated 11th March 1891, No. 1691, Mis., Revenue.

Recorded with reference to G.O., dated 24th February 1891, No. 140.

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/Sd/ J.P.
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Govt. of {1891} Madras.

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(A true Copy and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
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Order—dated 11th March 1891, No. 1691, Mis., Revenue.

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Exd. P. L. Pereira.

80 Copies.

FINAL ISSUE.

IMPERIAL.
CIVIL WORKS.

MADRAS.

PUBLIC WORKS DEPARTMENT.

IMPERIAL BUDGET-ESTIMATE

OF

CIVIL WORKS

OF THE

GOVERNMENT OF MADRAS

FOR THE YEAR

1891-92.

MADRAS,
20th April 1891.

(Signed) A. C. SMITH, Lieut.-Colonel, R.E.,
Ag. Joint Secretary to Govt., P.W.D.

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IMPERIAL.
CIVIL WORKS.

MADRAS.

REVENUE.

ABSTRACT OF THE BUDGET-ESTIMATE OF REVENUE OF THE PUBLIC WORKS DEPARTMENT FROM CIVIL WORKS IN MADRAS FOR THE YEAR FROM 1st APRIL 1891 TO 31st MARCH 1892.

	Actuals, 1889-90.	Budget-Estimate, 1890-91.	Revised Estimate, 1890-91.	Budget-Estimate, 1891-92.
	Rs.	Rs.	Rs.	Rs.
In Public Works Department	...	...	...	...
In Civil Department	...	...	...	...
Total ...	...	...	...	...

CHARGES.

ABSTRACT OF THE BUDGET-ESTIMATE OF EXPENDITURE OF THE PUBLIC WORKS DEPARTMENT ON CIVIL WORKS IN MADRAS FOR THE YEAR FROM 1st APRIL 1891 TO 31st MARCH 1892.

	Actuals, 1889-90.	Budget-Estimate, 1890-91.	Revised Estimate, 1890-91.	Budget-Estimate, 1891-92.
	Rs.	Rs.	Rs.	Rs.
Civil Buildings — Original Works—In progress	3,555	5,000	6,490	22,500
Civil Buildings — Original Works—Not commenced	19,280	13,000	16,080	16,000
Civil Buildings — Repairs				
Communications — Original Works—In progress	...	...	...	...
Communications — Original Works—Not commenced	...	...	...	...
Communications — Repairs	...	...	...	...
Miscellaneous Public Improvements — Original Works—In progress	...	...	...	...
Miscellaneous Public Improvements — Original Works—Not commenced	...	...	...	...
Miscellaneous Public Improvements — Repairs	...	...	...	...
Establishment — Regular	5,252	4,100	4,970	8,500
Establishment — Special	...	...	...	...
Tools and Plant	343	300	360	600
Suspense Accounts	...	...	...	...
Grand Total ...	28,430	22,400	27,900	47,600
Deduct — Expenditure in England	...	...	...	3,500
Deduct — Loss by exchange	...	...	...	1,400
Net Expenditure ...	28,430	22,400	27,900	42,700

IMPERIAL.
CIVIL WORKS.

MADRAS.

ABSTRACT OF THE CHARGES TO BE INCURRED IN THE PUBLIC WORKS DEPARTMENT FROM IMPERIAL, LOCAL FUNDS AND CONTRIBUTIONS IN BOTH INDIA AND ENGLAND.

	Actuals, 1889-90.	Budget-Estimate, 1890-91.	Revised Estimate, 1890-91.	Budget-Estimate, 1891-92.							
				Original Works.			Repairs.	Establishment.	Tools and Plant.	Suspense Accounts.	Total.
				In progress.	Not commenced.	Total.					
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Provision from Imperial Funds—											
In India ...	28,430	22,400	27,900	...	17,600	17,600	16,000	8,500	600	...	42,700
In England	...	...	...	...	3,500	3,500	...	...	...	...	3,500
Loss by exchange ...	...	...	...	...	1,400	1,400	...	...	...	...	1,400
Total ...	28,430	22,400	27,900	...	22,500	22,500	16,000	8,500	600	...	47,600
Provision from Local Funds—											
In India ...	...	...	...	...	...	...	...	...	...	...	...
Provision from Contributions—											
In India ...	...	...	...	...	...	...	...	...	...	...	...
Grand Total ...	28,430	22,400	27,900	...	22,500	22,500	16,000	8,500	600	...	47,600

STATEMENT SHOWING THE WORKS ON WHICH OUTLAY IN ENGLAND ABOVE PROVIDED FOR IS TO BE INCURRED.

	Actuals, 1889-90.	Budget-Estimate, 1890-91.	Revised Estimate, 1890-91.	Budget-Estimate, 1891-92.						
				Original Works.			Repairs.	Tools and Plant.	Suspense Accounts.	Total.
				In progress.	Not commenced.	Total.				
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Original Works. *Item No.* 2. Covering the roof of the Telegraph office at Madras with sheet lead	...	...	...	...	3,500	3,500	...	...	...	3,500
Loss by exchange ...	...	...	...	...	1,400	1,400	...	...	...	1,400
Total ...	...	...	...	...	4,900	4,900	...	...	...	4,900

PART

DETAIL OF THE BUDGET-ESTIMATE FOR

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.
				IMPERIAL—CIVIL WORKS.
				CIVIL BUILDINGS.
				Original Works.
Telegraph	Bellary ...	Guntakal ...	1	Telegraph Office ... ...
	Consulting Architect.	Madras ...	2	Covering roof of Telegraph Office with sheet lead ... ...
				Total, Telegraph Buildings ...
				Total, Civil Buildings ...
				Communications ... ...
				Miscellaneous Public Improvements ...
				Total, Original Works ...

I.

ORIGINAL WORKS FOR THE YEAR 1891-92.

Amount of Estimate.	Outlay.		Grant, 1891-92.			Item No.	Remarks and References.
	Actual to end of 1889-90.	Probable during 1890-91.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
...	...	...	...	14,300	...	1	
...	...	...	...	8,200	...	2	Estimate is awaited.
...	...	...	...	22,500	22,500		
...	...	...	...	22,500	22,500		
...	...	...	...	...	...		
...	...	...	...	...	...		
...	...	...	...	22,500	22,500		

PART II.

DETAIL OF THE BUDGET-ESTIMATE OF REPAIRS UNDER IMPERIAL CIVIL WORKS IN MADRAS FOR THE YEAR 1891-92.

Head of Classification.	Executive Division.	Locality.	Items.	Estimate, 1891-92. Amount.	Estimate, 1891-92. Total.	Estimate, 1890-91. Amount.	Estimate, 1890-91. Total.
				Rs.	Rs.	Rs.	Rs.
			Civil Buildings.				
Postal ...	Vizagapatam.	...	Annual repairs	500	...	...	...
	Godávari, Eastern.	...	Do.	600	...	...	...
	Kistna, Eastern.	...	Do.	100	...	...	...
	Kistna, Western.	...	Do.	100	...	...	...
	Nellore ...	...	Do.	21	...	...	...
	Bellary ...	...	Do.	400	...	...	...
	Cuddapah ...	...	Do.	200	...	...	...
	Kurnool ...	...	Do.	200	...	...	...
	Coimbatore ...	...	Do.	800	...	...	...
	West Coast ...	...	Do.	600	...	...	...
	North Arcot ...	...	Do.	500	...	...	...
	South Arcot.	...	Do.	150	...	...	...
	Tanjore ...	...	Do.	300	...	...	...
	Negapatam ...	...	Do.	100	...	...	...
	Madura ...	...	Do.	300	...	...	...
	Tinnevelly ...	...	Do.	400	...	...	...
	Architect ...	...	Do.	2,100	...	...	...
	Reserve with the Government.	...		629	...	...	...
			Total, Postal ...	...	8,000	...	8,000
Telegraph.	Vizagapatam.	...	Annual repairs	300	...	...	...
	Godávari, Eastern.	...	Do.	3,500	...	...	...
	Kistna, Eastern.	...	Do.	600	...	...	...
	Kistna, Western.	...	Do.	100	...	...	...
	Bellary ...	...	Do.	200	...	...	...
	Coimbatore ...	...	Do.	200	...	...	...
	Negapatam ...	...	Do.	80	...	...	...
	Tinnevelly ...	...	Do.	1,140	...	...	...
	Architect ...	...	Do.	1,500	...	...	...
	Reserve with the Government.	...		380	...	...	...
			Total, Telegraph ...	...	8,000	...	5,000
			Total, Civil Buildings ...	...	16,000	...	13,000

APPENDIX A.

ABSTRACT OF THE GRANTS FOR 1891-92 FOR CIVIL WORKS, ARRANGED BY DEPARTMENTS AND DEPARTMENTAL HEADS.

	Original Works. In progress.	Original Works. Not commenced.	Repairs.	Total Works and Repairs.	Establishment.	Tools and Plant.	Total, 1891-92.	Revised Estimate, 1890-91.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Civil Buildings.								
Post Office	...	...	8,000	...	...	...	...	...
Telegraphs	...	22,500	8,000	...	...	...	...	...
Total, Civil Buildings ...	...	22,500	16,000	38,500	8,500	600	47,600	27,900
Communications	...	...	...	...	...	...	...	...
Miscellaneous Public Improvements	...	...	...	...	...	...	...	...
Total ...	...	22,500	16,000	38,500	8,500	600	47,600	27,900

Govt. of {1891} Madras.

REVENUE.

Issued

Recd. Encl.

G.O., 6th April 1891, No. 265.

APRIL.

Famine-relief works.

Passing orders on certain questions raised by the Superintending Engineer, V Circle, regarding the daily payment of wages to laborers and their employment on — in the Chingleput district.

No 1020 dtd 13 April 1891

Commd to the SE V circle for information and guidance It will be observed that the orders now given modify those communicated with G O 944 dtd 11 April 1891 in regard to rates of payment of — Famine laborers

2 Sanction is accorded to the employment of three temporary overseers for the Tanjore, Negapatam and South Arcot divisions for a period of three months. The hoding of the men and the rate of pay will be left to the Chief Engineer

(sd) J. P
Hr

SE V circle
Ex E. H. Accts
C E for I.

FINAL ISSUE.

IMPERIAL.
MILITARY WORKS.

MADRAS.

PUBLIC WORKS DEPARTMENT.

IMPERIAL BUDGET-ESTIMATE

OF

MILITARY WORKS

OF THE

GOVERNMENT OF MADRAS

FOR THE YEAR

1891-92.

MADRAS,
13th April 1891.

Lieut.-Colonel, R.E.,
Ag. Joint Secretary to Govt., P.W.D.

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IMPERIAL.
MILITARY WORKS.

REVENUE.

ABSTRACT OF THE BUDGET-ESTIMATE OF REVENUE OF THE PUBLIC WORKS DEPARTMENT FROM MILITARY WORKS IN MADRAS FROM 1st APRIL 1891 TO 31st MARCH 1892.

—	Actuals, 1889-90.	Budget-Estimate, 1890-91.	Revised Estimate, 1890-91.	Budget-Estimate, 1891-92.
	Rs.	Rs.	Rs.	Rs.
In Public Works Department	25,522	30,000	4,000	4,000
In Civil and Military Departments	...	...	...	...
Total ...	25,522	30,000	4,000	4,000

CHARGES.

ABSTRACT OF THE BUDGET-ESTIMATE OF EXPENDITURE OF THE PUBLIC WORKS DEPARTMENT ON MILITARY WORKS IN MADRAS FROM 1st APRIL 1891 TO 31st MARCH 1892.

—	Reference to Detailed Estimate.	Actuals, 1889-90.	Budget-Estimate, 1890-91.	Revised Estimate, 1890-91.	Budget-Estimate, 1891-92.
	Rs.	Rs.	Rs.	Rs.	Rs.
Original Works { In progress	...	2,96,214	2,64,400	46,300	26,300
Original Works { Not commenced					...
Repairs ... ... { Ordinary	...	3,13,295	3,00,000	44,250	45,000
Repairs ... ... { Special					
Establishment	...	1,47,849	1,31,300	21,000	16,600
Tools and Plant	...	9,141	8,500	1,350	1,100
Suspense Account	...	...	...	...	...
Total ...	...	7,66,499	7,04,200	1,12,900	89,000

IMPERIAL.
MILITARY WORKS.

ABSTRACT OF THE CHARGES TO BE INCURRED BY THE PUBLIC WORKS DEPARTMENT FROM IMPERIAL FUNDS AND CONTRIBUTIONS IN BOTH INDIA AND ENGLAND.

—	Actuals, 1889-90.	Budget-Estimate, 1890-91.	Revised Estimate, 1890-91.	Budget-Estimate, 1891-92.							
				Original Works.			Repairs.	Establishment.	Tools and Plant.	Suspense Account.	Total.
				In progress.	Not commenced.	Total.				Barrack Department.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs Rs	Rs.
Provision from Imperial Funds.											
In India ...	7,66,499	7,04,200	1,12,900	26,300	...	26,300	45,000	16,600	1,100	... ...	89,000
In England.	...	...	...	...	...	...	...	...	...	... ...	...
Total ...	7,66,499	7,04,200	1,12,900	26,300	...	26,300	45,000	16,600	1,100	... ...	89,000
Provision from Contributions.											
In India ...	...	...	...	...	...	...	...	...	...	... ...	...
Grand Total ...	7,66,499	7,04,200	1,12,900	26,300	...	26,300	45,000	16,600	1,100	... ...	89,000

STATEMENT SHOWING THE WORKS ON WHICH OUTLAY IN ENGLAND ABOVE PROVIDED FOR IS TO BE INCURRED.

—	Actuals, 1889-90.	Budget-Estimate, 1890-91.	Revised Estimate, 1890-91.	Budget-Estimate, 1891-92.					
				Original Works.			Tools and Plant.	Suspense Account.	Total.
				In progress.	Not commenced.	Total.			
				Nil.					

PART I.

DETAIL OF THE BUDGET-ESTIMATE FOR 1891-92.

CLASS A ORIGINAL WORKS FOR THE YEAR 1891-92.

WORKS.

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	Outlay.		Grant, 1891-92.			Item No.	Remarks and References.
						Actual to end of 1889-90.	Probable during 1890-91.	Works in progress.	Works not commenced.	Total.		
					Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
				IMPERIAL ORDINARY.								
				MILITARY.								
				Original Works.								
1. *Accommodation for troops*— Buildings for European troops.	West Coast.	Calicut ...	1	New barracks with subsidiary buildings.	31,560	...	10,000	21,560	...	...	1	G.O., No. 1339 W., dated 12th May 1890, and No. 3015 W., dated 13th November 1890. Item No. 2, class B works, budget of 1890-91.
										21,560		
			2	Reserve with the Government for Incomplete Major Works.	...	...	...	4,740	...	4,740	2	
		Total ...	...			...	...	26,300	...	26,300		

APPENDIX

LIST OF WORKS (OR CLASS C WORKS) OMITTED FROM THE BUDGET-ESTIMATE OF 1890-91, BUT ON CLASS B WHICH EXPENDITURE MAY BE INCURRED DURING THE YEAR BY RE-APPROPRIATION FROM WORKS.

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	Outlay. Actual to end of 1889-90.	Outlay. Probable during 1890-91.	Amount applied for 1891-92. Works in progress.	Amount applied for 1891-92. Works not commenced.	Amount applied for 1891-92. Total.	Item No.	Remarks and References.
				IMPERIAL ORDINARY.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
				MILITARY.								
				Original Works.								
1. *Accommodation for troops*— Buildings for European troops.	West Coast.	Calicut ...	1	Quarters for an Apothecary, West Hill Barracks.	...	...	...	5,000			1	Estimate is awaited.
	Do. ...	Do. ...	2	Constructing a swimming-bath for the Detachment of British Infantry at West Hill.	...	...	...	5,000			2	Do.
	Do. ...	Do. ...	3	Constructing an officer's mess with out-houses.	...	...	...	8,000			3	Do.
	Do. ...	Vayitri ...	4	Reconstructing the quarters of the Sergeant-Instructor, Wynaad Company of the Malabar Volunteer Rifles.	3,990	...	...	4,000			4	G.O., No. 638 W., dated 6th March 1891.
	Do. ...	Malapuram ...	5	Constructing an officer's mess with out-houses.	...	...	...	8,000			5	Estimate is awaited.
	Coimbatore.	Ootacamund ..	6	Quarters for the Warrant officer attached to the Army Headquarters.	6,100	...	...	6,100			6	G.O., No. 1316 W., dated 10th May 1890. Item No. 24, class C works, budget of 1890-91.
	Do. ...	Do. ...	7	Converting the Sapper hospital building on Stonehouse Hill into quarters for two Sergeant-Instructors, Nilgiri Volunteer Rifles.	3,600	...	...	3,600			7	G.O., No. 1068 W., dated 9th April 1888. Item No. 25, class C works, budget of 1890-91.
Buildings for Native troops.	Ganjam ...	Berhampore ..	8	Constructing a Rifle range for the Madras Infantry Regiment.	...	...	...	3,830			8	Estimate is awaited.
	Vizagapatam.	Vizianagrum ...	9	Regimental store for Native Infantry including storage for camp equipage.	3,480	...	...	3,480			9	G.O., No. 2628 W., dated 27th October 1884. Item No. 58, class C works, budget of 1890-91.
	West Coast...	Cannanore ...	10	Constructing quarters for men of the Army hospital Native Corps.	2,980	...	...	2,980			10	G.O., No. 2707 W., dated 26th September 1889.
	Do. ...	Mangalore ...	11	Quarters for two Hospital Assistants.	...	...	...	5,500			11	Estimate is awaited.
	Trichinopoly.	Trichinopoly...	12	Reconstructing the roof of Hospital wards Nos. 12 and 13 of the 1st Pioneer Lines.	4,400	...	...	4,400			12	G.O., No. 347 W., dated 6th February 1891.
Commissariat buildings.	West Coast.	Malapuram ...	13	Constructing a shed for transport animals.	2,824	...	...	2,824			13	G.O., No. 1245 W., dated 27th April 1888. Item No. 79, class C works, budget of 1890-91.
	Do. ...	Do. ...	14	Cattle-shed for the Commissariat Department.	...	...	...	4,000			14	Estimate is awaited. Item No. 78, class C works, budget of 1890-91.
Fortifications ...	Do. ...	Do. ...	15	Constructing a fortified post ...	8,248	...	...	8,248			15	G.O., No. 3114 W., dated 18th November 1887. Item No. 98, class C works, budget of 1890-91.
Staff and Miscellaneous.	Coimbatore.	Ootacamund ..	16	Constructing a latrine for the boys at the Lawrence Asylum.	3,000	...	...	3,000			16	G.O., No 2139 W., dated 16th July 1888. Item No. 103, class C works, budget of 1890-91.
				Total ...		...	...	...				

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following letter from Major D. McNEIL CAMPBELL, R.E., Superintending Engineer, V Circle, to the Chief Engineer for Irrigation, dated Chepâk, 26th March 1891, No. 112-E :—

I have the honor to forward, herewith, my notes of inspection of famine-relief works in the Chingleput division. The amounts of estimates as given in paragraph 34 were taken from a statement given me in camp by the Sub-divisional officer, and I believe them to be correct. I have written to Executive Engineer for a complete statement; but I do not think it advisable to delay my report till it is received and the two have been compared.

ENCLOSURES.

RELIEF works and establishment required.

Number on imperial list.	Names of works.	Amount of estimate.	Upper subordinates required if tri-weekly payments are to be made.	Upper subordinates for weekly payment.	Upper subordinates for daily payments.	Remarks.	Clerk required.	Remarks.
..	Arni river diversion.	..	2	1	3	One overseer now employed; one overseer telegraphed for from South Arcot; another required if daily payments are made.	One for Sub-divisional office.	These have already been applied for, and are absolutely necessary owing to the extra clerical work entailed in carrying out work departmentally.
..	Arni river bank ..	..						
..	Kortalyár bank ..	..						
138	Pularambakam ..	..	2	1	2	One overseer ordered from Tanjore; one overseer ordered from Negapatam.	One for Divisional office.	
76	Vadamadurai ..	..						
11	Kadúr ..	..	2	1	2	One overseer already employed; if daily or tri-weekly payments are ordered another overseer will be applied for.	....	
12	Kambaukam ..	..						
3	Santhavelur ..	..						

N.B.—If weekly payments are sanctioned no more establishment than that now employed and ordered from other divisions will be required even when the other works mentioned in report are begun, but if the distress lasts more than three months, it will be necessary to appoint other overseers for Tanjore, Negapatam and South Arcot to replace those withdrawn.

Owing to change of programme this statement does not now hold good, but it is submitted to show the establishment required for different times of payment.

23rd March 1891. (Signed) D. McN. CAMPBELL, Major, R.E.,
Superintending Engineer, V Circle.

INSPECTION Notes of Major D. McNEIL CAMPBELL, R.E., Superintending Engineer, V Circle, on *famine relief* works in the Ponnéri and Tiruvállúr taluks in the Chingleput district.

* * * * * *

31. All the coolies employed in the Kadúr and Kambakkam tanks earn their full day's wages, viz., annas 3, that is, they do 3 cubic yards at anna one, and I cannot help thinking that if these works were on contract, the coolies would still have gone to them, that is, if really in distress, for they would then have earned annas $2\frac{1}{2}$, that is 3 cubic yards at pies 10.

* * * * * *

38. Government have apparently decided on reports received from the Revenue authorities that the distress is so severe that the principle laid down in paragraph 38, chapter II of the Famine Code should not be adhered to and consequently departmental works have been started and orders issued that frequent payments are to be made. There is no doubt that contract work is not suited to afford relief to the poorer and feebler class of village laborers who suffer more than any other class in seasons of scarcity. A contractor will not employ feeble coolies and the latter will not work under a contractor knowing that they cannot earn sufficient to support themselves; but it seems to me that it is not intended that the department should find work for these feeble-bodied coolies, see Famine Code, paragraph 18 to 21, chapter I, and that for such person the Revenue Departments should find work under class B; there is, however, the class of laborers who are able to do from 75 to 100 per cent. of a full day's work and for such departmental work will be useful though I am inclined to think that this class would work under contractors if there were no departmental works.

Departmental works and frequent payments.

39. As regards frequent payments, I request definite instructions as to whether payments should be made daily, or twice or three times a week; there is no doubt that coolies like being paid daily, but the question is whether it is necessary. I am strongly of opinion that any oftener payment than once a week is not necessary, except to fresh coolies for the first week or so, and I would point out that if daily or even bi-weekly or tri-weekly payments are insisted on, the extra establishment required will be enormous; it will be necessary for daily payments to appoint an overseer for each work and for bi-weekly or tri-weekly, one for every two or three works if they happen to be near one another will be required.

40. Owing to the orders about frequent payments I have been obliged to order three overseers from other divisions, while if payments were to be made weekly, one man would be sufficient. I therefore request that the matter may be reconsidered and that sanction may be given to weekly payments except to coolies on their first coming to a work when they should be paid daily for the first week.

41. If many more departmental works are started on which daily payments have to be made it will perhaps be found necessary to appoint cashiers; but I think this should be avoided as long as possible as there are obvious objections to employing, for the purpose of making extensive payments, low-paid men temporarily employed for a few months.

42. I do not think the labor involved in making payments is sufficiently realized; it takes a sharp man at least 6 hours to pay 1,000 coolies and when to this is added laying out work in the morning, measuring up in the evening, entering 1,000 names in the muster rolls and compiling the 10-day reports, the strength of the establishment of both clerks and upper subordinates required to make *daily* payments can be estimated; of course if the coolies were in an emaciated condition no amount of establishment should be spared, but at present no more than weekly payments are necessary, and as relief works have been started early, it is probable that the system need never be departed from except in the case of coolies when they first come to a work.

43. I have dwelt at length on this matter of frequent payments, as I feel convinced that if payments oftener than once a week are insisted on and the distress spreads to several districts, the strain in the Public Works establishment will be more than it can bear. I have had experience of what these frequent payments entailed during the last famine in Ganjam.

The Acting Collector seems to wish works to be started near villages where scarcity is greatest, but I think it is open to argument whether this is necessary or even advisable.

Works near villages.

By starting a work near a distressed village many people come for employment who are not really in need of relief and could easily find work on the ordinary works; also all the weak and feeble people of the villages come for work and they should properly be employed on work of class B under the Revenue authorities. The correct principle is, I believe, for the Public Works Department to provide several large and suitable works on which to employ all coolies capable of turning out 75 per cent. of a full day's work, while the Revenue authorities start works suitable to give relief to the feebler coolies as these latter are the ones who suffer first; it seems to me that village relief works are the ones that should be started first. It will simply be impossible always to find useful work close to villages, but I will make every endeavour to provide such works till such time as village relief works, class (B), can be begun.

* * * * *

48. As I have already stated, I have ordered for relief works three overseers, one from each of the other divisions in this circle, and no more upper subordinates will be wanted at present; these three overseers I considered absolutely necessary on account of the order about frequent payments and should frequent mean daily, I shall want two more upper subordinates; but should it be settled that weekly payments will suffice, I can dispense with the services of two of them on relief works, in which case I would keep them here for a month or so preparing estimates for more relief works and then let them return to their own divisions. Should it be essential to retain the overseers for more than three months it will be necessary for me to apply for an overseer for each of the divisions of Tanjore, Negapatam and South Arcot as these are below their proper strength.

49. I request definite instructions on the following points :—

(1) Will weekly payments suffice? Or are frequent payments necessary? If so, what is meant by frequent?

(2) Are all coolies, even those that cannot do 75 per cent. of a full day's work, to be employed on relief works?

(3) If such coolies do not earn even enough to support themselves, how much are they to be paid?

* * * * *

ORDER—dated 6th April 1891, No. 265, Revenue.

Miscellaneous.

Under the circumstances set forth in paragraphs 38 to 42 of the inspection notes of the Superintending Engineer, V Circle, His Excellency the Governor in Council is of opinion that there is no necessity for daily payments on Public Works Department works departmentally executed in Chingleput. The questions raised in paragraph 49 of the report will therefore be answered as follows :—

(1) Weekly payments will suffice for all who prefer to be paid in that manner, but in the case of those who wish to be paid oftener, arrangements should be made for bi-weekly or even tri-weekly payments, if the laborers are really in a weakly condition.

(2) All who present themselves for employment should be taken on irrespective of their capacity for work.

(3) In the case of laborers who are unable to do 75 per cent. of a full day's work and so to earn three-fourths of the full wage, they should nevertheless be paid at that rate so long as they really do their best. But if any of these should be found to shirk work or malinger, the officer in charge of the work may reduce their wages by not more than one-half. Thus if the wage for a full task is 3 annas a day, those who are *bonâ fide* incapable of rendering even 75 per cent. thereof but work up to the limit of their powers should get 2 annas 3 pies, which may be reduced to 1 anna $1\frac{1}{2}$ pies for wilful neglect to work. Those who are incapable of rendering 75 per cent. of a full task should be grouped together and paid daily, so long as they are in a weakly condition.

2. The Superintending Engineer may be authorised to employ three temporary overseers for the Tanjore, Negapatam and South Arcot divisions for three months.

3. With reference to the Superintending Engineer's remarks regarding the advisability of employing weakly laborers on civil agency works, as contemplated by the Famine Code, his attention should be directed to paragraph 10 of G.O., dated 19th December 1890, No. 1026, Revenue, from which he will see that, from the experience of the Ganjam famine, the Government came to the conclusion that civil agency works should be abolished.

4. This order modifies paragraph 4 of G.O., dated 1st April 1891, No. 247.

(True Extract.)

(Signed) C. A. GALTON,
Secretary to Government.

To the Public Works Department (Irrigation Branch).
,, the ,, (Works).
,, the Board of Revenue (Revenue Settlement, Land Records and Agriculture.
,, the Board of Revenue (Land Revenue).
,, the Collector of Chingleput.
,, the Accountant-General.

Exd. A. Aubert.

120 Copies.

Govt. of {1891} Madras.

REVENUE.

Issued

Recd. *Encl.*

G.O., 6th April 1891, No. 265.

B.R. 1020 dt 13-4-91

APRIL.

Famine-relief works.

Passing orders on certain questions raised by the Superintending Engineer, V Circle, regarding the daily payment of wages to laborers and their employment on — in the Chingleput district.

Order thereon No 1070 W Dt 13th April 1891

Communicated to the Supdg Engineer V Circle for information and guidance. It will be observed that the orders now given modify those communicated with G.O 944 W Dt 4th April 1891 in regard to rates of payment of Famine labourers.

2. Sanction is accorded to the employment of three temporary Overseers for the Tanjore Negapatam and South Arcot divisions for a period of three months. The posting of the men and the rates of pay will be left to the Chief Engineer.

(Sd) A. C. S

To The [illegible] essential necessary for the to apply for an and South Arcot as these are below

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following letter from Major D. McNEIL CAMPBELL, R.E., Superintending Engineer, V Circle, to the Chief Engineer for Irrigation, dated Chepâk, 26th March 1891, No. 112-E:—

I have the honor to forward, herewith, my notes of inspection of famine-relief works in the Chingleput division. The amounts of estimates as given in paragraph 34 were taken from a statement given me in camp by the Sub-divisional officer, and I believe them to be correct. I have written to Executive Engineer for a complete statement; but I do not think it advisable to delay my report till it is received and the two have been compared.

ENCLOSURES.

RELIEF works and establishment required.

Number on imperial list.	Names of works.	Amount of estimate.	Upper subordinates required if tri-weekly payments are to be made.	Upper subordinates for weekly paymen.	Upper subordinates for daily payments.	Remarks.	Clerk required.	Remarks.
..	Arni river diversion.	..	2	1	3	One overseer now employed; one overseer telegraphed for from South Arcot; another required if daily payments are made.	One for Sub-divisional office.	These have already been applied for, and are absolutely necessary owing to the extra clerical work entailed in carrying out work departmentally.
..	Arni river bank ..	..						
..	Kortalyár bank ..	..						
138	Pularambakam ..	..	2	1	2	One overseer ordered from Tanjore; one overseer ordered from Negapatam.	One for Divisional office.	
76	Vadamadurai ..	..						
11	Kadúr	..	2	1	2	One overseer already employed; if daily or tri-weekly payments are ordered another overseer will be applied for.	....	
12	Kambaukam ..	..						
3	Sañthavelur ..	..						

N.B.—If weekly payments are sanctioned no more establishment than that now employed and ordered from other divisions will be required even when the other works mentioned in report are begun, but if the distress lasts more than three months, it will be necessary to appoint other overseers for Tanjore, Negapatam and South Arcot to replace those withdrawn.

Owing to change of programme this statement does not now hold good, but it is submitted to show the establishment required for different times of payment.

(Signed) D. McN. CAMPBELL, Major, R.E.,
Superintending Engineer, V Circle.

23rd March 1891.

INSPECTION Notes of Major D. McNEIL CAMPBELL, R.E., Superintending Engineer, V Circle, on *famine relief* works in the Ponnéri and Tiruvállúr taluks in the Chingleput district.

* * * * * *

31. All the coolies employed in the Kadúr and Kambakkam tanks earn their full day's wages, viz., annas 3, that is, they do 3 cubic yards at anna one, and I cannot help thinking that if these works were on contract, the coolies would still have gone to them, that is, if really in distress, for they would then have earned annas 2½, that is 3 cubic yards at pies 10.

* * * * * *

38. Government have apparently decided on reports received from the Revenue authorities that the distress is so severe that the principle laid down in paragraph 38, chapter II of the Famine Code should not be adhered to and consequently departmental works have been started and orders issued that frequent payments are to be made. There is no doubt that contract work is not suited to afford relief to the poorer and feebler class of village laborers who suffer more than any other class in seasons of scarcity. A contractor will not employ feeble coolies and the latter will not work under a contractor knowing that they cannot earn sufficient to support themselves; but it seems to me that it is not intended that the department should find work for these feeble-bodied coolies, see Famine Code, paragraph 18 to 21, chapter I, and that for such person the Revenue Departments should find work under class B; there is, however, the class of laborers who are able to do from 75 to 100 per cent. of a full day's work and for such departmental work will be useful though I am inclined to think that this class would work under contractors if there were no departmental works.

Departmental works and frequent payments.

39. As regards frequent payments, I request definite instructions as to whether payments should be made daily or twice or three times a week; there is no doubt that coolies like being paid daily, but the question is whether it is necessary. I am strongly of opinion that any oftener payment than once a week is not necessary, except to fresh coolies for the first week or so, and I would point out that if daily or even bi-weekly or tri-weekly payments are insisted on, the extra establishment required will be enormous; it will be necessary for daily payments to appoint an overseer for each work and for bi-weekly or tri-weekly, one for every two or three works if they happen to be near one another will be required.

40. Owing to the orders about frequent payments I have been obliged to order three overseers from other divisions, while if payments were to be made weekly, one man would be sufficient. I therefore request that the matter may be reconsidered and that sanction may be given to weekly payments except to coolies on their first coming to a work when they should be paid daily for the first week.

41. If many more departmental works are started on which daily payments have to be made it will perhaps be found necessary to appoint cashiers; but I think this should be avoided as long as possible as there are obvious objections to employing, for the purpose of making extensive payments, low-paid men temporarily employed for a few months.

42. I do not think the labor involved in making payments is sufficiently realized; it takes a sharp man at least 6 hours to pay 1,000 coolies and when to this is added laying out work in the morning, measuring up in the evening, entering 1,000 names in the muster rolls and compiling the 10-day reports, the strength of the establishment of both clerks and upper subordinates required to make *daily* payments can be estimated; of course if the coolies were in an emaciated condition no amount of establishment should be spared, but at present no more than weekly payments are necessary, and as relief works have been started early, it is probable that the system need never be departed from except in the case of coolies when they first come to a work.

43. I have dwelt at length on this matter of frequent payments, as I feel convinced that if payments oftener than once a week are insisted on and the distress spreads to several districts, the strain in the Public Works establishment will be more than it can bear. I have had experience of what these frequent payments entailed during the last famine in Ganjam.

The Acting Collector seems to wish works to be started near villages where scarcity is greatest, but I think it is open to argument whether this is necessary or even advisable. By starting a work near a distressed village many people come for employment who are not really in need of relief and could easily find work on the ordinary works; also all the weak and feeble people of the villages come for work and they should properly be employed on work of class B under the Revenue authorities. The correct principle is, I believe, for the Public Works Department to provide several large and suitable works on which to employ all coolies capable of turning out 75 per cent. of a full day's work, while the Revenue authorities start works suitable to give relief to the feebler coolies as these latter are the ones who suffer first; it seems to me that village relief works are the ones that should be started first. It will simply be impossible always to find useful work close to villages, but I will make every endeavour to provide such works till such time as village relief works, class (B), can be begun.

Works near villages.

* * * * *

48. As I have already stated, I have ordered for relief works three overseers, one from each of the other divisions in this circle, and no more upper subordinates will be wanted at present; these three overseers I considered absolutely necessary on account of the order about frequent payments and should frequent mean daily, I shall want two more upper subordinates; but should it be settled that weekly payments will suffice, I can dispense with the services of two of them on relief works, in which case I would keep them here for a month or so preparing estimates for more relief works and then let them return to their own divisions. Should it be essential to retain the overseers for more than three months it will be necessary for me to apply for an overseer for each of the divisions of Tanjore, Negapatam and South Arcot as these are below their proper strength.

49. I request definite instructions on the following points :—

(1) Will weekly payments suffice? Or are frequent payments necessary? If so, what is meant by frequent?

(2) Are all coolies, even those that cannot do 75 per cent. of a full day's work, to be employed on reliet works?

(3) If such coolies do not earn even enough to support themselves, how much are they to be paid?

* * * * *

ORDER—dated 6th April 1891, No. 265, Revenue.

Miscellaneous.

Under the circumstances set forth in paragraphs 38 to 42 of the inspection notes of the Superintending Engineer, V Circle, His Excellency the Governor in Council is of opinion that there is no necessity for daily payments on Public Works Department works departmentally executed in Chingleput. The questions raised in paragraph 49 of the report will therefore be answered as follows :—

(1) Weekly payments will suffice for all who prefer to be paid in that manner, but in the case of those who wish to be paid oftener, arrangements should be made for bi-weekly or even tri-weekly payments, if the laborers are really in a weakly condition.

(2) All who present themselves for employment should be taken on irrespective of their capacity for work.

(3) In the case of laborers who are unable to do 75 per cent. of a full day's work and so to earn three-fourths of the full wage, they should nevertheless be paid at that rate so long as they really do their best. But if any of these should be found to shirk work or malinger, the officer in charge of the work may reduce their wages by not more than one-half. Thus if the wage for a full task is 3 annas a day, those who are *bonâ fide* incapable of rendering even 75 per cent. thereof but work up to the limit of their powers should get 2 annas 3 pies, which may be reduced to 1 anna $1\frac{1}{2}$ pies for wilful neglect to work. Those who are incapable of rendering 75 per cent. of a full task should be grouped together and paid daily, so long as they are in a weakly condition.

2. The Superintending Engineer may be authorised to employ three temporary overseers for the Tanjore, Negapatam and South Arcot divisions for three months.

3. With reference to the Superintending Engineer's remarks regarding the advisability of employing weakly laborers on civil agency works, as contemplated by the Famine Code, his attention should be directed to paragraph 10 of G.O., dated 19th December 1890, No. 1026, Revenue, from which he will see that, from the experience of the Ganjam famine, the Government came to the conclusion that civil agency works should be abolished.

4. This order modifies paragraph 4 of G.O., dated 1st April 1891, No. 247.

(True Extract.)

(Signed) C. A. GALTON,
Secretary to Government.

To the Public Works Department (Irrigation Branch).
,, the ,, (Works).
,, the Board of Revenue (Revenue Settlement, Land Records and Agriculture.
,, the Board of Revenue (Land Revenue).
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Exd. A. Aubert.

120 Copies.

Govt. of {1891} Madras.

REVENUE.

Issued

Recd. Encl.

G.O., 6th April 1891, No. 265.

APRIL.

Famine-relief works.

Passing orders on certain questions raised by the Superintending Engineer, V Circle, regarding the daily payment of wages to laborers and their employment on — in the Chingleput district.

No 1020 dtd 13 April 1891

Commd to the SE V circle for information and guidance It will be observed that the orders now given modify those communicated with G.O. 944 dtd 4 April 1891 in regard to rates of payment of Famine laborers

2 Sanction is accorded to the employment of three temporary overseers for the Tanjore, Negapatam and South Arcot divisions for a period of three months. The posting of the men and the rate of pay will be left to the Chief Engineer

(sd) T. P

Hr

SE V circle
Ex P. W. Accts
C E for I.

MILITARY DEPARTMENT, 21ST MARCH 1891, No. 1751.

GOVERNMENT OF MADRAS.

MILITARY DEPARTMENT.

Volunteers.

Read the following papers:—

No. 250. *From Colonel A. G. HUTCHINS*, for *Quarter Master General, Madras Army, to Brigdr.-Genl. A. KENNEY-HERBERT, Secretary to Government, Military Department; dated Ootacamund, 5th March* 1891, *No.* 445-*MW* (*Volunteers*).

I am directed to acknowledge the receipt of G.O., Military Department, No. 897, of 12th February 1891, communicating, for the information of His Excellency the Commander-in-Chief, a Resolution of the Government of India in the Public Works Department (Railway Construction), in which it is pointed out that the cost of the buildings or quarters in connection with Railway Volunteer Corps should not be debited to the capital or revenue account of a railway, nor should they be built on railway land, and that under existing rules the cost of quarters for Sergeant Instructors is chargeable to the Military Department (Military Works), and of armouries against the capitation grant of the Volunteer Corps.

2. As, however, some doubts still appear to exist as to the source from which funds should be supplied for providing such buildings, &c., as may be absolutely necessary for Railway and other Volunteer Corps stationed in this command, I am desired to solicit that the definite orders of Government on the points noticed herein may be issued for the information and guidance of all concerned.

3. The Resolution of the Government of India above alluded to clearly lays down that the cost of quarters for Sergeant Instructors is chargeable to the funds of the Military Works Department. From Army Regulations, India, Vol. IX, Section VIII, Paras. 165–167, also, it is clear that these non-commissioned officers are entitled to public quarters at the expense of the State, but from Section II, Para. 23 (*f*) of the same Regulations, it would appear that the corps itself may be required to provide such quarters.

4. The above Resolution lays down that the cost of providing armouries is chargeable against the capitation grant of the Volunteer Corps, and from Sec. XVIII, Para. 460, also, it would seem that such buildings (for the safe custody of arms), rifle ranges, store-rooms, drill grounds, sheds, &c., should be provided from the same grant. With reference to G.O., Public Works Department, No. 303 W, of 2nd February 1891 (Military Department No. 1036 of the 17th idem), sanctioning the purchase of a building for adaptation as quarters for the Sergeant Instructor and as an armoury for the Yercaud Volunteer Rifles, I am desired to request to be informed whether the cost of such portion of the building as may be set apart for use as an armoury is to be met from the capitation grant of the corps, the cost of the remainder of the building to be reserved as quarters for the Sergeant Instructor only being charged against Imperial Military funds, or, in the event of the whole cost being met from such funds, whether the corps will be required to pay a monthly rental for such portion of it as may be used as an armoury.

5. The above Resolution also lays down that buildings, &c., required by Volunteer Corps should not be built on railway land. With reference to this

C. No 3462

Govt. of {1891} Madras.

MILITARY.

To THE QUARTER MASTER GENERAL,
&c., &c., &c.

Dated March, 21st.

Issued

Recd. *Encl.*

G.O., 21st March 1891, No. 1751.

MARCH.
Nos. 250—252.

Volunteers.

Funds.—Certain points raised in connection with the source from which—should be supplied for providing various buildings, &c., for Railway Volunteer Corps, referred for the orders of the Government of India and the Public Works Department.

No. 987 dated 8th April 1891

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following

Govt. No. 3462.

Order.

In the opinion of Govt. it is not desirable that the cost of the building purchased for the Guindy Volunteer Rifles should be met partly from one fund & partly from another. The grant from Imperial Military funds made in G.O. No. 303 W dated 2nd Feb. 91 will therefore stand & all repairs to the building will be charged to the same head.

2. The Supg. Engr. IV Circle will report the proportionate value of the part of the building which is set apart for an armoury in view to the rent to be paid by the corps being decided.

3. The Proceedings of Govt. Public Works Dept. above recorded will be communicated to the Supg. Engr. concern the Consulting Engineer for Railways for information.

To the Supg. Engr. IV Circle.
" V "
Consulting Engineer for Railways
Examiner P.W. Accounts
Military department.

Gd
C.V

1890.

Public Works Department.

No.

Dated

Despatched

Received

9. 4. 91. Rs 1000 W.

SUBJECT.

La "Cut Chutney at
W. apatka.
return D. L.

Mr. Sr II Cuttle desired to submit an estimate for building a new —

No. 987 W dt 8th April 1891

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following papers :—

From Colonel E. H. EYRE, Officiating Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 22nd November 1890, No. 925 M.W. (Volunteers).

I am desired to report, for the information of Government, that the necessity for the early provision of an armoury and quarters for the Sergeant Instructor attached to the Yercaud Rifle Volunteers having been brought to the notice of this office, the General Officer Commanding Madras District was requested to place himself in communication with the Public Works Department in view to plans and estimates being prepared for the provision of the necessary accommodation.

2. Plans and estimates were accordingly prepared for the construction of the necessary quarters, &c., on a site selected for the purpose on Government land, but in submitting them, for the approval of the Commander-in-Chief, the General Officer Commanding Madras District brought to notice that, at his recent inspection of the Volunteer Corps, a private building was pointed out to him, which he considered well adapted for quarters for the Sergeant Instructor as well as for an armoury and very much more conveniently situated than the site selected for the construction of quarters. An estimate was thereupon called for for its purchase and adaptation to the required purposes, but although more than six months have elapsed His Excellency regrets this is not yet forthcoming.

3. As there would seem to be no immediate prospect of the estimate being obtained from the Public Works Department, and to avoid further delay, I am now desired to forward, for the information of Government, the accompanying letter,* with one enclosure, from the General Officer Commanding Madras District and to recommend that Government may be pleased to cause steps to be taken in view to the purchase of the building in question and to express the hope that it may be found possible to make the necessary provision of funds for the purpose, in view to the accommodation, which is much needed, being provided as early as possible, Government thus being saved the cost of hiring quarters for the Sergeant Instructor.

* No. G/852 of 31st October 1890.

No. 7199, Military.

Transferred to the Public Works Department in view to steps being taken for the purchase of the property in question.

FORT ST. GEORGE,
25th November 1890.

(Signed) H. R. SHELLEY, Colonel,
for Secretary to Government.

No. 4965 C.

Referred to the Superintending Engineer, IV Circle, for early submission of a plan and estimate for the purchase and adaptation of the private building in question. Explanation of the delay in furnishing the military authorities with the plan and estimate should be given.

2. The return of these papers is requested.

MADRAS, 1st December 1890. (Signed) J. PENNYCUICK, Colonel, R.E., Secretary to Government, P.W.D.

From Lieutenant-Colonel R. R. E. DRAKE-BROCKMAN, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Mullur, 6th January 1891, No. 7/E.W.

In returning the original papers bearing your endorsement No. 4965 C. of 1st December 1890, I have the honor to submit, for your information, letter No. 6001 of 20th idem from the Executive Engineer, Coimbatore division, framing plan and valuation statement of the building proposed for the quarters of the Sergeant Instructor at Yercaud.

2. The Executive Engineer's valuation of the buildings without site amounts to Rs. 4,550. The price demanded by the owner for the building together with the site is Rs. 4,800, which is not considered excessive.

ENCLOSURE.

From G. B. LAMBERT, Esq., Executive Engineer, Coimbatore division, to the Superintending Engineer, IV Circle, dated Coimbatore, 20th December 1890, No. 6001.

With reference to your endorsement No. 742 C.I., dated 12th September 1890, I have the honor to forward herewith a valuation statement and plan of the buildings proposed to be purchased for the quarters of the Sergeant Instructor and for the armoury at Yercaud.

2. I also forward a statement showing the accommodation compared with that sanctioned for a Sergeant Instructor, from which it will be seen that the accommodation is not only not inferior to that sanctioned, but is on the whole in excess.

3. I consider the building suitable and that the price of Rs. 4,800 demanded for it together with the armoury is reasonable, as although it exceeds my valuation yet it includes land to the extent of about $1\frac{1}{4}$ acres on which the buildings are built.

4. The site is a much better one and in my opinion healthier than the one on which it is proposed to erect the new buildings, for which plans and estimates, amounting to Rs. 5,495, were submitted with my No. 889, dated 25th February 1890.

5. The buildings which are in fair order require slight repairs and the armoury and shop require slight improvements, such as providing two or three windows to give more light and ventilation and putting down some sort of substantial flooring, as there is none at present. These repairs and improvements I pointed out to the owner, Mr. Stephens, when I inspected the building, and, as he agreed to carry them out at his own expense before handing over the building, I have deducted nothing on this account in the valuation statement.

6. I strongly recommend that these buildings be purchased. By so doing there will be, besides the advantages pointed out, a net saving of Rs. 695 or Rs. 390 on the main building and out-houses without the armoury and shop.

7. I regret the delay in submitting the valuation statement, partly unavoidable, owing to the pressure of work, and partly to the difficulty I have had of arriving at a correct data for work done at Yercaud, as in recent years so little work has been done there by this department that there are no lists of rates available in this office.

I return the rough sketch as requested.

From Brigadier-General E. H. EYRE, Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 26th January 1891, No. 149 M.W. (Accounts—Budget Estimate).

In returning, as requested, the correspondence forwarded to this office with Military Department No. 436 of the 21st instant, I am desired, in reply, to say that the Commander-in-Chief approves of the proposal to appropriate the sum of Rs. 4,800 required for the purchase of the building proposed to be utilized as an armoury and as quarters for the Sergeant Instructor attached to the Yercaud Rifle Volunteers from the available balance of the amount surrendered from the current year's grant for the Calicut barracks and to state that His Excellency hopes to be in a position to submit at an early date proposals for the utilization of the remaining amount available for distribution.

2. I am to express the hope that the necessary repairs and improvements to the building may be carried out as soon as possible, in order that it may be available for use by the volunteers by the commencement of the ensuing official year.

No. 601, Military.

Transferred to the Public Works Department with reference to endorsement No. 208 C., dated 16th January 1891, the accompaniments of which are herewith returned.

FORT ST. GEORGE, 28th January 1891. (Signed) A. KENNEY-HERBERT, Brigdr.-Genl., Secretary to Government.

ORDER—dated 2nd February 1891, No. 303 W., Public Works.

The purchase for Rs. 4,800 of the building in question for adaptation as quarters for the Sergeant Instructor, Yercaud Rifle Volunteers, is sanctioned, and the amount is appropriated by transfer from the balance of Rs. 7,519 referred to in para. 3 of G.O., No. 2950 W., dated 7th November 1890.

2. The Superintending Engineer, IV Circle, will take very early steps for the execution of the requisite documents conveying the property to Government and he will further see that the repairs and improvements stated to be necessary are carried out without delay.

3. The sanction accorded in para. 1 has been registered as Imperial No. 6 W. of 1890-91 and classified as Military, Original Works.

(True Extract.)

(Signed) J. PENNYCUICK, Colonel, R.E., Secretary to Govt., P.W.D.

To the Superintending Engineer, IV Circle, with five enclosures.
" Examiner, Public Works Accounts.
" Military Department.

Exd. A. D. Xavier.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1891} Madras.

PUBLIC WORKS.

Dated February, 2nd

Recd. *Encl.*

G.O., 2nd Feb. 1891, No. 303 W.

FEBRUARY.

Quarters

The purchase for Rs. 4,800 of certain building for adaptation as — for the Sergeant Instructor, Yercaud Rifle Volunteers, sanctioned.

GOVERNMENT OF MADRAS.

MILITARY DEPARTMENT.

Volunteers.

Read the following papers:—

No. 250. *From Colonel A. G. HUTCHINS*, for *Quarter Master General, Madras Army, to Brigdr.-Genl. A. KENNEY-HERBERT, Secretary to Government, Military Department; dated Ootacamund, 5th March* 1891, *No.* 445-*MW* (*Volunteers*).

I am directed to acknowledge the receipt of G.O., Military Department, No. 897, of 12th February 1891, communicating, for the information of His Excellency the Commander-in-Chief, a Resolution of the Government of India in the Public Works Department (Railway Construction), in which it is pointed out that the cost of the buildings or quarters in connection with Railway Volunteer Corps should not be debited to the capital or revenue account of a railway, nor should they be built on railway land, and that under existing rules the cost of quarters for Sergeant Instructors is chargeable to the Military Department (Military Works), and of armouries against the capitation grant of the Volunteer Corps.

2. As, however, some doubts still appear to exist as to the source from which funds should be supplied for providing such buildings, &c., as may be absolutely necessary for Railway and other Volunteer Corps stationed in this command, I am desired to solicit that the definite orders of Government on the points noticed herein may be issued for the information and guidance of all concerned.

3. The Resolution of the Government of India above alluded to clearly lays down that the cost of quarters for Sergeant Instructors is chargeable to the funds of the Military Works Department. From Army Regulations, India, Vol. IX, Section VIII, Paras. 165–167, also, it is clear that these non-commissioned officers are entitled to public quarters at the expense of the State, but from Section II, Para. 23 (*f*) of the same Regulations, it would appear that the corps itself may be required to provide such quarters.

4. The above Resolution lays down that the cost of providing armouries is chargeable against the capitation grant of the Volunteer Corps, and from Sec. XVIII, Para. 460, also, it would seem that such buildings (for the safe custody of arms), rifle ranges, store-rooms, drill grounds, sheds, &c., should be provided from the same grant. With reference to G.O., Public Works Department, No. 303 W, of 2nd February 1891 (Military Department No. 1036 of the 17th idem), sanctioning the purchase of a building for adaptation as quarters for the Sergeant Instructor and as an armoury for the Yercaud Volunteer Rifles, I am desired to request to be informed whether the cost of such portion of the building as may be set apart for use as an armoury is to be met from the capitation grant of the corps, the cost of the remainder of the building to be reserved as quarters for the Sergeant Instructor only being charged against Imperial Military funds, or, in the event of the whole cost being met from such funds, whether the corps will be required to pay a monthly rental for such portion of it as may be used as an armoury.

5. The above Resolution also lays down that buildings, &c., required by Volunteer Corps should not be built on railway land. With reference to this

decision, I am to remark that the Commander-in-Chief understands the site recently selected * for an armoury, magazine and quarters for the Sergeant Instructor attached to the South Indian Railway Volunteer Rifle Corps at Cuddalore is on railway land.

* *Vide* correspondence transferred to this office with Military Department No. 510 of 23rd January 1891.

6. As regards the storage of ammunition, &c., from Army Regulations, India, Vol. IX, Section XII, it is understood that, as a general rule, at stations where a safe magazine protected by a European guard exists, the reserve ammunition will be stored therein, but should a magazine be required at any time expressly for use by a Volunteer Corps, the head-quarters of which may be at a distance from a station in which British troops are quartered, I am to request information as to how the funds for the erection of such a building are to be provided.

No. 251. ORDER THEREON, 21st March 1891, No. 1751.

The points raised in paras. 3 and 6 of the Quarter Master General's letter above recorded will be submitted for the orders of the Government of India.

2. The question asked in para. 4 will be referred to the Public Works Department.

3. With reference to the observations made in para. 5 regarding the construction of certain buildings at Cuddalore for the use of the South Indian Railway Volunteer Rifle Corps, it is observed that in Proceedings of Government (Military), No. 1440, dated 9th March 1891 (Public Works Department O.G. No. 1121-C, dated 2nd March 1891), the Agent, South Indian Railway, was informed that the site selected being railway land, the erection thereon of the buildings in question could not be permitted.

No. 252. *To the Secretary to the Government of India, Military Department; dated 21st March 1891, No. 1752.*

(True Extract.)

A. Kennet Herbert
Brigdr.-Genl.,
Secretary to Government.

To the Quarter Master General.
,, Public Works Department.

Exd. J. Henricus.

Pol. & G. No: 3462

1121. Cay 2-3-91
297 Cay 19-1-91
330 Ray 3-2-91
823 May 13-3-83
3034 Ray 2-2-91

Govt. of {1891} Madras.

MILITARY.

To THE QUARTER MASTER GENERAL,
&c., &c., &c.

Dated March, 21st.

Issued

Recd. 24-3-91 *Encl.*

G.O., 21st March 1891, No. 1751.

MARCH.
Nos. 250—252.

Volunteers.

Funds.—Certain points raised in connection with the source from which — should be supplied for providing various buildings, &c., for Railway Volunteer Corps, referred for the orders of the Government of India and the Public Works Department.

Copy 1-4-91

No 987 dt 28-4-91 Govt P.W.D.

Read Cir 3462

Order.

In the opinion of Govt., it is not desirable that the cost of the building purchased for the Yercaud Volunteer Rifles should be met partly from one fund & partly from another - The grant from Imperial Military funds made in Rp. No 303 of 2 July 1891 will therefore stand, & all repairs to the building will be charged to the same head -

2. The Supdg Engr Circle will repo

the proportionate value of the part of the building which is set apart for an armoury, in view to the rent to be paid by the Corps being decided.

3. The Pres. & Govt. mily Dept. alone recorded will be communicated to Supdg Engrs concerned & the Comg. Engrs for Rys for information.

No. 987 d/ 8-4-91

5777

To the S.S. III Cmdr
" " V "
" Comg Engrs Rys
" Engr Rys
" mily Deptt.

2 Copies to Govt 5-6-91

GOVERNMENT OF MADRAS.

MILITARY DEPARTMENT.

Volunteers.

Read the following papers:—

No. 250. *From Colonel A. G. HUTCHINS*, for *Quarter Master General, Madras Army, to Brigdr.-Genl. A. KENNEY-HERBERT, Secretary to Government, Military Department; dated Ootacamund, 5th March* 1891, *No.* 445-*MW* (*Volunteers*).

I am directed to acknowledge the receipt of G.O., Military Department, No. 897, of 12th February 1891, communicating, for the information of His Excellency the Commander-in-Chief, a Resolution of the Government of India in the Public Works Department (Railway Construction), in which it is pointed out that the cost of the buildings or quarters in connection with Railway Volunteer Corps should not be debited to the capital or revenue account of a railway, nor should they be built on railway land, and that under existing rules the cost of quarters for Sergeant Instructors is chargeable to the Military Department (Military Works), and of armouries against the capitation grant of the Volunteer Corps.

2. As, however, some doubts still appear to exist as to the source from which funds should be supplied for providing such buildings, &c., as may be absolutely necessary for Railway and other Volunteer Corps stationed in this command, I am desired to solicit that the definite orders of Government on the points noticed herein may be issued for the information and guidance of all concerned.

3. The Resolution of the Government of India above alluded to clearly lays down that the cost of quarters for Sergeant Instructors is chargeable to the funds of the Military Works Department. From Army Regulations, India, Vol. IX, Section VIII, Paras. 165–167, also, it is clear that these non-commissioned officers are entitled to public quarters at the expense of the State, but from Section II, Para. 23 (*f*) of the same Regulations, it would appear that the corps itself may be required to provide such quarters.

4. The above Resolution lays down that the cost of providing armouries is chargeable against the capitation grant of the Volunteer Corps, and from Sec. XVIII, Para. 460, also, it would seem that such buildings (for the safe custody of arms), rifle ranges, store-rooms, drill grounds, sheds, &c., should be provided from the same grant. With reference to G.O., Public Works Department, No. 303 W, of 2nd February 1891 (Military Department No. 1036 of the 17th idem), sanctioning the purchase of a building for adaptation as quarters for the Sergeant Instructor and as an armoury for the Yercaud Volunteer Rifles, I am desired to request to be informed whether the cost of such portion of the building as may be set apart for use as an armoury is to be met from the capitation grant of the corps, the cost of the remainder of the building to be reserved as quarters for the Sergeant Instructor only being charged against Imperial Military funds, or, in the event of the whole cost being met from such funds, whether the corps will be required to pay a monthly rental for such portion of it as may be used as an armoury.

5. The above Resolution also lays down that buildings, &c., required by Volunteer Corps should not be built on railway land. With reference to this

decision, I am to remark that the Commander-in-Chief understands the site recently selected * for an armoury, magazine and quarters for the Sergeant Instructor attached to the South Indian Railway Volunteer Rifle Corps at Cuddalore is on railway land.

* *Vide* correspondence transferred to this office with Military Department No. 510 of 23rd January 1891.

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No. 252. *To the Secretary to the Government of India, Military Department; dated 21st March* 1891, *No.* 1752.

(True Extract.)

(Signed) A. KENNEY-HERBERT, Brigdr.-Genl.,
Secretary to Government.

To the Quarter Master General.
" Public Works Department.

Exd. J. Henricus.

Govt. of {1891} Madras.

MILITARY.

To
THE QUARTER MASTER GENERAL,
&c., &c., &c.

Dated March, 21st.

Issued

Recd. *Encl.*

G.O., 21st March 1891, No. 1751.

MARCH.
Nos. 250—252.

Volunteers.

Funds.—Certain points raised in connection with the source from which — should be supplied for providing various buildings, &c., for Railway Volunteer Corps, referred for the orders of the Government of India and the Public Works Department.

GOVERNMENT OF MADRAS.

MILITARY DEPARTMENT.

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(True Extract.)

(Signed) A. KENNEY-HERBERT, Brigdr.-Genl.,
Secretary to Government.

To the Quarter Master General.
,, Public Works Department.

Exd. J. Henricus.

Govt. of {1891} Madras.

MILITARY.

987 W 8-4-91

To THE QUARTER MASTER GENERAL,
&c., &c., &c.

Dated March, 21st.

Issued

Reed. *Encl.*

G.O., 21st March 1891, No. 1751.

MARCH.
Nos. 250—252.

Volunteers.

Funds.—Certain points raised in connection with the source from which—should be supplied for providing various buildings, &c., for Railway Volunteer Corps, referred for the orders of the Government of India and the Public Works Department.

PROCEEDINGS OF THE BOARD OF REVENUE
(REVENUE SETTLEMENT, LAND RECORDS AND AGRICULTURE).

MR. CLOGSTOUN.

READ—the following letter from W. J. H. LE FANU, Esq., Collector of North Arcot, to the Secretary to the Commissioner of Revenue Settlement and Director of Land Records and Agriculture, dated Chittoor, 27th February 1891, Ref. Board No. 437 :—

With reference to the Board's Proceedings, No. 58, dated 4th February 1891, I have the honor to forward herewith a statement showing the general prospects in this district in all the taluks and zemindaris in February 1891. The parts of the district reported to have been affected were portions of Wandiwash, Pólúr, Wálajápet, Arcot, Chittoor, Palmanér and Chandragiri taluks and the Kálahasti zemindari comprising the Kálahasti and Maderpak divisions. The Tahsildar of Gudiyátam has since reported that a failure of crops has occurred in a few villages of the Katpadi firka, the amount of remission involved being Rs. 1,000. The remissions involved in the Chittoor and Palmanér taluks have been since raised by the Tahsildars from Rs. 2,000 and Rs. 3,000 to Rs. 7,000 and Rs. 5,000, respectively. In Chandragiri taluk only three villages of Tirupati division are reported to have been affected. The rainfall in January and February has not done any material good to the failing crops in any of the Government taluks except Pólúr, where the fall of 4·25 inches has supplemented the supply in tanks appreciably, thus tending to avert expected shavi over about 2,000 acres and to bring under cultivation about 2,000 acres of wet and 1,200 acres of dry waste. The demand for employment is not yet keenly felt in Pólúr taluk, as the harvesting, &c., of the standing crops will afford employment to people for nearly a month. The Villupuram-Guntakal Railway still employs a large number of coolies. About 300 coolies are at present employed on minor irrigation works started in the Wandiwash taluk and more coolies are expected to flock to these and other works in a few days when the agricultural operations will be over. [The figures just received by telegram are higher, the Deputy Collector having sent 1,100 coolies from 23 villages to the Cheyár channel. How many of them, however, have actually joined at the work is not known. He reports 650 coolies as employed on the minor irrigation works.] The health of the people is reported to be generally fair, but the District Surgeon informs me, under date the 24th February 1891, that a large number of men coming into the Vellore Central Jail from some of the southern taluks showed signs of emaciation and have steadily improved since admission. There is nothing alarming in the state of the markets, but there has been a rise in the prices of all the principal food-grains, that under rice and ragi being slight as shown below :—

Grains.	On the 31st January 1891.	On the 21st February 1891.	Rise.
Rice	12·21	11·72	0·49
Cholum	22·33	20·21	2·12
Ragi	23·13	23·00	0·13
Cumbu	20·47	18·94	1·53

2. Of the zemindari tracts, Kálahasti was reported to have been suffering somewhat seriously from drought. In parts of the zemindari there have been very good rains in January and February, which brought a supply to about 50 tanks, ranging from 15 days to three months' water, and there has been a temporary amelioration in these parts. In the tract lying south of the Nagalapuram-Periyapalayam road and east of the Tiruvallúr-Satyavedu road and also in the tract known as Lokki or the southern part of the Ragigunta valley, the rainfall does not appear to have been sufficient to materially improve the state of things. From house-to-house inquiries made by the Head Assistant Collector in the first mentioned tract, it appears that about 38 per cent. of the people in these parts will be shortly in want of food, and of these 23 per cent., being able-bodied persons, are or will shortly be in want of employment. Mr. Buckley's report also showed that some of the people were living on insufficient food or only one meal every other day. The Board and Government have ordered that people in want of work in this zemindari should be sent to the Ponnéri and Arni works in the Chingleput district; but the people are reported to be unwilling to leave their homes, as they cannot take with them their cattle and their young and old relations such a long distance. Their aversion to leave their homes is also ascribed to the selfish disinclination of the richer ryots to let the coolies go far away from their villages and the instinctive tendency of the natives to cling to their native villages. I have separately addressed the Commissioner on the advisability of starting works in, or in the immediate neighbourhood of, the affected villages—*vide* my letter, Reference on Gl. Eng. No. 1247, dated 26th February 1891.

3. The health of the people is generally good except in Maderpak division, where fever and small-pox are said to have broken out.

Resolution—dated 13th March 1891, No. 138.

Submitted for the information of Government.

2. The Board is glad to observe that Mr. LeFanu is able to report a decided improvement in prospects throughout the district with the exception of portions of the Wandiwash taluk and of the Kálahasti zemindari and a few isolated villages in the Wálájápet and Chandragiri taluks. In Wandiwash there was an aggregate fall of 1·44 inches of rain on four days in February which, however, brought little or no supplies to the tanks. "The standing crops have been somewhat refreshed and baling was saved for a few days." Many fields which were about to become shavi (withered) are looking green, but Mr. LeFanu is very doubtful if they will give any yield. The rain was unseasonable for ground-nut which had already been injured by the January rains and which was therefore damaged still more. The condition of the people in this taluk is said not to have appreciably improved since January, but the Collector states that it has not grown worse. The harvest and other operations afford sufficient employment to the people, which is likely to last ten or fifteen days more. Some 231 coolies were employed on eight minor irrigation works and 50 more on the Cheyár works, but on the date of the Collector's letter (27th February) he received telegraphic intimation that the number had risen to 650 on the minor irrigation works and that 1,100 more were despatched to the Cheyár works. The Board observes, however, from the season report for the week ending the 7th instant, that very few of these persons had joined the works by that date, the actual number employed on the 7th current being returned at only 403 on the eleven minor irrigation works in progress in that taluk and at 190 on the Public Works Department works, giving a total of 593 coolies only for the whole taluk. The Collector is requested to ascertain, if necessary, the causes which operated to prevent the major portion of the coolies sent by the Deputy Collector from resorting to the works and report the result. Care should always be taken, when sending coolies for admission on any particular works, to forward a written request to the officer in charge who will be bound to admit them without delay. The maximum number of coolies that could be employed on different works should be ascertained beforehand and the drafting of the coolies regulated accordingly so that people may not go disappointed by having to wander from place to place in searchof employment.

3. As regards prices, Mr. LeFanu reports that "there is nothing alarming in the state of the markets" though "there has been a rise in the prices of all the principal food-grains, that under rice and ragi being slight." Since the date of his letter, however, there has been a fall in the prices of these two grains which are the chief staples of the district:—

Grains.	On 21st February.	On 28th February.	On 7th March.
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(A true Copy and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

To the Secretary to Government, Revenue Department.
" Collector of North Arcot.

Exd. C. A. Munisawmy.

REVENUE DEPARTMENT.

1891

Board of Revenue

(Revenue Settlement, Land Records and Agriculture),

MADRAS.

Printed March 16th.

Proceedings, 13*th March* 1891, *No.* 138.

Submitting, for information of Government, with remarks, letter from the Collector of North Arcot about the general prospects in the district.

Order in the Revenue Dept
No 240 dated 28th March/91
Recorded.
2. The Board's instructions
at the close of para 2 of its
proceedings are approved.
(True Extract)
J. A. Butterworth
for Secy to Govt.

—

Order thereon No 904 W dated
8th April 1891
Communicated to the
Chief Engr for Irrigation
and the Supg Engr, 1st Circle.
S/ O.V.D.

C.E for I.
S.E 1st Circle

PROCEEDINGS OF THE BOARD OF REVENUE
(Revenue Settlement, Land Records and Agriculture).

Mr. Clogstoun.

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(A true Copy and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

To the Secretary to Government, Revenue Department.
" Collector of North Arcot.

Exd. C. A. Munisawmy.

REVENUE DEPARTMENT.

1891

Board of Revenue

(Revenue Settlement, Land Records and Agriculture),

MADRAS.

Printed March 16th.

Proceedings, 13*th March* 1891, *No.* 138.

Submitting, for information of Government, with remarks, letter from the Collector of North Arcot about the general prospects in the district.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

Read—the following Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), dated 13th March 1891, No. 138 :—

Mr. Clogstoun.

Read—the following letter from W. J. H. LE FANU, Esq., Collector of North Arcot, to the Secretary to the Commissioner of Revenue Settlement and Director of Land Records and Agriculture, dated Chittoor, 27th February 1891, Ref. Board No. 437 :—

With reference to the Board's Proceedings, No. 58, dated 4th February 1891, I have the honor to forward herewith a statement showing the general prospects in this district in all the taluks and zemindaris in February 1891. The parts of the district reported to have been affected were portions of Wandiwash, Pólúr, Wálajápet, Arcot, Chittoor, Palmanér and Chandragiri taluks and the Kálahasti zemindari comprising the Kálahasti and Maderpak divisions. The Tahsildar of Gudiyátam has since reported that a failure of crops has occurred in a few villages of the Katpadi firka, the amount of remission involved being Rs. 1,000. The remissions involved in the Chittoor and Palmanér taluks have been since raised by the Tahsildars from Rs. 2,000 and Rs. 3,000 to Rs. 7,000 and Rs. 5,000, respectively. In Chandragiri taluk only three villages of Tirupati division are reported to have been affected. The rainfall in January and February has not done any material good to the failing crops in any of the Government taluks except Pólúr, where the fall of 4·25 inches has supplemented the supply in tanks appreciably, thus tending to avert expected shavi over about 2,000 acres and to bring under cultivation about 2,000 acres of wet and 1,200 acres of dry waste. The demand for employment is not yet keenly felt in Pólúr taluk, as the harvesting, &c., of the standing crops will afford employment to people for nearly a month. The Villupuram-Guntakal Railway still employs a large number of coolies. About 300 coolies are at present employed on minor irrigation works started in the Wandiwash taluk and more coolies are expected to flock to these and other works in a few days when the agricultural operations will be over. [The figures just received by telegram are higher, the Deputy Collector having sent 1,100 coolies from 23 villages to the Cheyár channel. How many of them, however, have actually joined at the work is not known. He reports 650 coolies as employed on the minor irrigation works.] The health of the people is reported to be generally fair, but the District Surgeon informs me, under date the 24th February 1891, that a large number of men coming into the Vellore Central Jail from some of the southern taluks showed signs of emaciation and have steadily improved since admission. There is nothing alarming in the state of the markets, but there has been a rise in the prices of all the principal food-grains, that under rice and ragi being slight as shown below :—

Grains.	On the 31st January 1891.	On the 21st February 1891.	Rise.
Rice	12·21	11·72	0·49
Cholum	22·33	20·21	2·12
Ragi	23·13	23·00	0·13
Cumbu	20·47	18·94	1·53

2. Of the zemindari tracts, Kálahasti was reported to have been suffering somewhat seriously from drought. In parts of the zemindari there have been very good rains in January and February, which brought a supply to about 50 tanks, ranging from 15 days to three months' water, and there has been a temporary amelioration in these parts. In the tract lying south of the Nagalapuram-Periyapalayam road and east of the Tiruvallúr-Satyavedu road and also in the tract known as Lokki or the southern part of the Ragigunta valley, the rainfall does not appear to have been sufficient to materially improve the state of things. From house-to-house inquiries made by the Head Assistant Collector in the first mentioned tract, it appears that about 38 per cent. of the people in these parts will be shortly in want of food, and of these 23 per cent., being able-bodied persons, are or will shortly be in want of employment. Mr. Buckley's report also showed that some of the people were living on insufficient food or only one meal every other day. The Board and Government have ordered that people in want of work in this zemindari should be sent to the Ponnéri and Arni works in the Chingleput district; but the people are reported to be unwilling to leave their homes, as they cannot take with them their cattle and their young and old relations such a long distance. Their aversion to leave their homes is also ascribed to the selfish disinclination of the richer ryots to let the coolies go far away from their villages and the instinctive tendency of the natives to cling to their native villages. I have separately addressed the Commissioner on the advisability of starting works in, or in the immediate neighbourhood of, the affected villages—*vide* my letter, Reference on Gl. Eng. No. 1247, dated 26th February 1891.

3. The health of the people is generally good except in Maderpak division, where fever and small-pox are said to have broken out.

Resolution—dated 13th March 1891, No. 138.

Submitted for the information of Government.

2. The Board is glad to observe that Mr. LeFanu is able to report a decided improvement in prospects throughout the district with the exception of portions of the Wandiwash taluk and of the Kálahasti zemindari and a few isolated villages in the Wálájápet and Chandragiri taluks. In Wandiwash there was an aggregate fall of 1·44 inches of rain on four days in February which, however, brought little or no supplies to the tanks. "The standing crops have been somewhat refreshed and baling was saved for a few days." Many fields which were about to become shavi (withered) are looking green, but Mr. LeFanu is very doubtful if they will give any yield. The rain was unseasonable for ground-nut which had already been injured by the January rains and which was therefore damaged still more. The condition of the people in this taluk is said not to have appreciably improved since January, but the Collector states that it has not grown worse. The harvest and other operations afford sufficient employment to the people, which is likely to last ten or fifteen days more. Some 231 coolies were employed on eight minor irrigation works and 50 more on the Cheyár works, but on the date of the Collector's letter (27th February) he received telegraphic intimation that the number had risen to 650 on the minor irrigation works and that 1,100 more were despatched to the Cheyár works. The Board observes, however, from the season report for the week ending the 7th instant, that very few of these persons had joined the works by that date, the actual number employed on the 7th current being returned at only 403 on the eleven minor irrigation works in progress in that taluk and at 190 on the Public Works Department works, giving a total of 593 coolies only for the whole taluk. The Collector is requested to ascertain, if necessary, the causes which operated to prevent the major portion of the coolies sent by the Deputy Collector from resorting to the works and report the result. Care should always be taken, when sending coolies for admission on any particular works, to forward a written request to the officer in charge who will be bound to admit them without delay. The maximum number of coolies that could be employed on different works should be ascertained beforehand and the drafting of the coolies regulated accordingly so that people may not go disappointed by having to wander from place to place in search of employment.

3. As regards prices, Mr. LeFanu reports that "there is nothing alarming in the state of the markets" though "there has been a rise in the prices of all the principal food-grains, that under rice and ragi being slight." Since the date of his letter, however, there has been a fall in the prices of these two grains which are the chief staples of the district:—

Grains.	On 21st February.	On 28th February.	On 7th March.
Rice	11·72	11·77	11·77
Cholum	20·21	20·21	20·12
Ragi	23·00	23·04	23·11
Cumbu	18·94	18·86	18·82

4. In the Kálahasti zemindari the rains which fell in January and February brought a supply to about 50 tanks, ranging from 15 days to 3 months, but the rainfall was not sufficient in the southern portion of the Ragigunta valley or in the eastern and southern portions of the Maderpak range to warrant any large extent of cultivation under tanks, though it largely aided well cultivation which is everywhere being carried on to the extreme limit of the capacity of each well. The Collector has submitted separate reports from Mr. Buckley regarding the position of affairs in these parts. These have been reviewed in separate Proceedings.

(A true Copy and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

To the Secretary to Government, Revenue Department.
" Collector of North Arcot.

ORDER—dated 28th March 1891, No. 240, Revenue.

Miscellaneous.

Recorded.

2. The Board's instructions at the close of paragraph 2 of its Proceedings are approved.

(True Extract.)

(Signed) C. A. GALTON,
Secretary to Government.

To the Commissioner of Revenue Settlement, Land Records and Agriculture.
" the Public Works Department.

Exd. A. Aubert.

85 Copies.

Govt. of {1891} Madras.

REVENUE.

No. 984 W. dy 8th April 1891

Communicated to the Chief Engineer for Irrigation and the Supdg. Engineer IIIrd Circle.

Ed/ O.W.B.

Issued

Rtcd. *Encl.*

G.O., 28th March 1891, No. 240.

MARCH.

Season.

Recording, with remark, Board's Proceedings submitting letter from the Collector of North Arcot about the general prospects in the district.

C.E. for Irrigation.
S.E. 4th Circle.

7TH APRIL 1891, No. 970 W., PUBLIC WORKS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

LETTER—from

COLONEL J. PENNYCUICK, R.E.,
Secretary to the Government of Madras,
Public Works Department,

To

THE DIRECTOR-GENERAL OF STORES,
INDIA OFFICE,
LONDON.

SIR,

I am directed to forward, for favor of very early compliance, an indent, in duplicate, for stores required for the Periyár Project works.

2. The necessary certificate by the Examiner, Public Works Accounts, is embodied in the Proceedings * of this Government forwarded herewith.

* No. 969 W., dated 7th April 1891.

(Here enter No. 971 W., dated 7th April 1891.)

I have the honor to be,
Sir,
Your most obedient servant,

(Signed) J. PENNYCUICK, Colonel, R.E.,
Secretary to Govt., P.W.D.

OOTACAMUND,
7th April 1891.

ENDORSEMENT—dated 7th April 1891, No. 971 W., Public Works.

Copy of the above, with copy of the indent, forwarded to the Government of India.

(By Order.)

Colonel, R.E.,
Secretary to Govt., P.W.D.

Exd. C. A. Munisawmy.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of {1891} Madras.

PUBLIC WORKS.

Dated April, 7th.

Recd. *Encl.*

7th April 1891, Nos. 970, 971 W.

APRIL.

Indent

Forwarding copy of — for stores required for the Periyár Project works.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

Read—the following Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), dated 26th March 1891, No. 169 :—

Mr. Clogstoun.

Resolution—dated 26th March 1891, No. 169.

In its Proceedings noted in the margin the Board submitted a detailed list of major and minor irrigation works and of Local Fund works in the Chingleput district which the Collector recommended for execution "as they may become necessary" in the most affected parts of the Ponnéri, Tiruvallúr, Saidápet, Chingleput and Madurántakam taluks.

Dated 23rd March 1891, No. 157.

The minor irrigation works will be carried out on contract by the villagers under the superintendence of the Revenue Department, and the Local Fund works will be carried out by the District and Taluk Board establishments.

The major irrigation works given in the Collector's list are as follows :—

	Estimate or balance of estimate unspent at date.
	Rs.
Ponneri Taluk.	
Completing Arni river embankment	1,500
Arni river diversion	4,220
Kortalayár embankment above Vallur	6,000
Do. do. below Vallur	8,100
Diversion of Buckingham Canal (Chintamani to Pulicat)	18,000
Arni tank and supply-channel	5,000
Srinambedu supply-channel	1,500
Total ...	44,320
Tiruvallur Taluk.	
Kadur Tract.	
Kadur } Kambakam }	5,000
Santavelur earth-work	3,000
Varadarajapolliem tank	650
Ambúr tank	3,000
Arudur tank	2,000
Pandur channel	800
Total ...	14,450

	Estimate or balance of estimate unspent at date.
Periapalayam Tract.	Rs.
Vadamadurai tank	2,410
Uttukotei tank	3,800
Vadamadurai channel ... ... about	2,000
Kagavakkam do. ... ... „	650
Panayanjeri tank ... ... „	2,000
Akkarambakam tank ... ... „	1,700
Maduravasal tank ... ... „	1,000
Tirukandulam tank ... ... „	1,000
Kalpatti tank ... ... „	1,500
Total ...	16,060
Saidapet Taluk.	
Pórúr tank	2,627
Maduravayal tank	3,535
Tirumushi tank	4,266
Madras water-works distributaries	10,418
Chólavaram drainage channel (close to the above)	550
Velangadupakam channel (close to the above)	340
Total ...	21,736
Chingleput Taluk.	
Diversion of canal, Covelong to Sadras	60,000
Nemili tank	2,170
Kadambadi tank	2,550
Total ...	64,720
Madurantakam Taluk.	
Tinnalur tank	4,730
Uttramallur tank-supply channel	7,500
Ravatinallur tank	1,210
Melamaruvattur tank	2,330
Acharavakam tank	3,450
„ tangal	3,040
Tenpakam tank	4,060
„ tangal	2,020
Total ...	28,340

2. In the Ponnéri taluk work is now going on on the Arni embankment and the Arni diversion, and also on the diversion of the Buckingham Canal.

The Kortalayár embankment work has been duly estimated for, and the Board understands that the Public Works Department is ready to commence work on it. Work, however, need not be commenced on it until the Arni embankment and diversion work is completed or until that work is found insufficient to meet the demand for employment.

In the meantime the Collector earnestly desires that work on a group of tanks should be started in the neighbourhood of the town of Arni, and, on completion of work in that tract, that work should be started in the neighbourhood of the Medur tank and the tracts to the north-west of it.

3. In the Tiruvallúr taluk only two or three major irrigation works have as yet been started under departmental management and these are in the Kadur tract.

In the Periapalayam tract, where want of employment is severely felt by the laboring classes, no work under departmental management had been opened up to a few days ago, though the Commissioner understands that one work has now been opened. The Collector gives a list of works in each of these tracts which are

understood to be in need of repair, and it is requested that the Public Works Department may be directed to prepare for the immediate opening in these tracts of the works named by the Collector and, if possible, in the order in which the Collector applies for them.

The aim of the Public Works Department should be to provide work in the Periapalayam tract for 2,000 coolies for two months and the same in the Kadur tract.

4. In the Saidápet taluk a list of works in the affected tracts which are believed to be in need of repair is given by the Collector. Some of these works, or some other works in the same tract, should be commenced by the Public Works Department at an early date. Here again they should aim at providing work for 2,000 coolies for two months.

5. In the Chingleput taluk the diversion of the canal from Covelong to Madras is, the Board understands, ready to be opened at a day's notice. The Commissioner, however, understands it to be the opinion of the Collector, that additional work will not be required in the affected portion of the Chingleput taluk, for about three weeks, and if work on major irrigation works in the tract affected in the taluk can be got ready within three weeks, it may not be necessary to commence work on the canal. The situation of the affected tract in this taluk is known to the Superintending Engineer and the District Engineer.

6. In the Madurántakam taluk the affected tract is of limited area. Work in the tract for 2,000 men for two months should at once be made available if there are major irrigation works to that extent needing repair.

7. The very great delay which has taken place on several occasions lately in the opening of works by the Public Works Department on the demand of the Civil authorities appears to be due to the want of overseers. A sufficient number of overseers should, the Board considers, be at once posted to the district to superintend the conduct of the works specified above, and it seems highly desirable that, in the event of a possible large increase in the numbers resorting to public works in the district, an additional number of overseers should be warned to hold themselves in readiness to join at a few days' notice.

A failure to give work where work is wanted will inevitably lead to the necessity for granting gratuitous relief—a system of relief, the control of which is difficult and costly and which is subject to the gravest abuses.

On all works managed by the department in the affected tracts, task work should be exacted, work being paid for at the ordinary Public Works Department rates. This is the practice now being followed on departmental works in the Tiruvallúr and Ponnéri taluks, and it has answered well.

(A true Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

To the Secretary to Government, Revenue Department.

Copy to the Collector of Chingleput.

Order—dated 1st April 1891, No. 247, Revenue.

Miscellaneous.

Transferred to the Department of Public Works in continuation of G.O., dated 24th March 1891, No. 238, for early attention.

2. Every endeavour should be made to find suitable works in the taluks of Ponnéri, Tiruvallúr, Saidápet, Chingleput and Madurántakam in such localities as the Collector may indicate. The Collector has already been directed to draw up a definite programme of works which can be put in hand in each taluk in case of necessity (*vide* G.O., dated 18th March 1891, No. 213), and this should be done at once in communication with the Superintending and District Engineers. Valuable time would have

been saved if this course had been adopted earlier, as the selection of works must be made by the District officers and a reference to Government on the subject is unnecessary.

3. The staff of overseers should be strengthened without delay, and preparation should be made for supplying additional men at short notice in case they are wanted.

4. The Board's suggestion in the concluding sentence of paragraph 7 is approved.

(True Extract.)

(Signed) C. A. GALTON,
Secretary to Government.

To the Public Works Department.
,, the Commissioner of Revenue Settlement, Land Records and Agriculture.
,, the Collector of Chingleput.

Exd. W. J. Lewis.

90 Copies.

Govt. of {1891} Madras.

REVENUE.

Issued

Recd. *Encl.*

G.O., 1st April 1891, No. 247.

APRIL.

Season.

Transferring to the Public Works Department Board's Proceedings submitting a list of works available in Chingleput district, and directing that every endeavour should be made to find suitable works in the taluks of Ponnéri, Tiruvallúr, Saidápet, Chingleput and Madurántakam in such localities as the Collector may indicate and that the staff of overseers should be strengthened without delay and preparation should be made for supplying additional men at short notice in case they are wanted.

9444 dated 1st April 1891

Communicated to the Chief Engineer for Irrign. and to the Subdig Engineer Varcle for information and guidance in continuation of G.O. No 903 dated 1st April 91

2. The Chief Engineer will report additional sub-ordinates to the Chingulput Dn. on application from the Subdig Engineer.

(Sd) J P

SE Varcle
SE II
CE for I.

GOVERNMENT OF MADRAS.

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6. In the Madurántakam taluk the affected tract is of limited area. Work in the tract for 2,000 men for two months should at once be made available if there are major irrigation works to that extent needing repair.

7. The very great delay which has taken place on several occasions lately in the opening of works by the Public Works Department on the demand of the Civil authorities appears to be due to the want of overseers. A sufficient number of overseers should, the Board considers, be at once posted to the district to superintend the conduct of the works specified above, and it seems highly desirable that, in the event of a possible large increase in the numbers resorting to public works in the district, an additional number of overseers should be warned to hold themselves in readiness to join at a few days' notice.

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(A true Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

To the Secretary to Government, Revenue Department.

Copy to the Collector of Chingleput.

Order—dated 1st April 1891, No. 247, Revenue.

Miscellaneous.

Transferred to the Department of Public Works in continuation of G.O., dated 24th March 1891, No. 238, for early attention.

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4. The Board's suggestion in the concluding sentence of paragraph 7 is approved.

(True Extract.)

(Signed) C. A. GALTON,
Secretary to Government.

To the Public Works Department.
,, the Commissioner of Revenue Settlement, Land Records and Agriculture.
,, the Collector of Chingleput.

Exd. W. J. Lewis.

90 Copies.

Govt. of {1891} Madras.

REVENUE.

Issued

Recd. *Encl.*

G.O., 1st April 1891, No. 247.

APRIL.

Season.

Transferring to the Public Works Department Board's Proceedings submitting a list of works available in Chingleput district, and directing that every endeavour should be made to find suitable works in the taluks of Ponnéri, Tiruvallúr, Saidápet, Chingleput and Madurántakam in such localities as the Collector may indicate and that the staff of overseers should be strengthened without delay and preparation should be made for supplying additional men at short notice in case they are wanted.

No 944 W dt 4th April 1891

Communicated to the Chief Engr for Irrigation & the S.E.V Circle for information & guidance in continuation of G.O. No. 903 W dt 1st April 1891.

2. The Chief Engineer will post addl Subordinates to the Chingleput Div on application from the Supdg Engr.

S.E. V Circle, Ch. E. for I. S.E. II Circle.

GOVERNMENT OF MADRAS.

FINANCIAL DEPARTMENT.

READ—the following paper:—

From the Government of India, Department of Finance and Commerce, dated 18th December 1890, No. 5852.

ORDER—dated 23rd February 1891, No. 144, Financial.

In the letter read above, the Government of India, referring to the large expenditure incurred in excess of the aggregate grants for Provincial and Local services in 1889-90, draws attention to the rules which require that, in the case of every additional allotment not provided for in the original estimates, either a specific re-appropriation should be made from the sanctioned grants of the year, or the previous approval of the Government of India should be separately obtained for each such allotment.

2. An examination of the final accounts of 1889-90 shows that the excess expenditure in question amounted to 3·19 lakhs under *Provincial* and 8·37 under *Local*.

3. The first of these was entirely due to the extraordinary outlay in connection with the East Coast Railway survey (1 lakh) and the famine relief operations in Ganjam (4·36), neither of which was provided for in the sanctioned budget. It was difficult to forecast requirements under these items before the close of the year, and re-appropriations from existing grants or even from the 2 lakh reserve to such a large extent and for such abnormal expenditure were obviously impossible. The measures adopted in regard to both of them were, however, duly reported to, and cordially accepted by, the Government of India. The specific sanction of the Department of Finance and Commerce was also applied for in the form of a consolidated statement in the Proceedings of Government, No. 212, Financial, dated 13th March 1890.

4. The excess of 8·37 lakhs under *Local*, which occurred in the aggregate expenditure of the funds noted in the margin, was mainly due to inadequate budget provision arising from certain inherent defects in the existing system of compiling the budgets and accounts relating thereto. The classification of receipts and charges in the various departmental estimates differs so very widely from that adopted in the Finance accounts, and a reconciliation of the figures is thereby rendered a matter of such extreme difficulty, that the Accountant-General frames his own budgets for all these Local funds on the basis of past

Incorporated Local Funds.	Department controlling the expenditure.
1. Local Funds Act V of 1884 ..	Local and Municipal Department.
2. Canal and Ferry Fund	Revenue Department.
3. Village Service Fund	Do. do.
4. Irrigation Cess Fund	Do. do.
5. Road Fund, Bhadrachalam and Rékapalle taluks.	Judicial Department.

actuals. These are embodied in the Civil estimates, and do not, therefore, represent the real programme of expenditure sanctioned in the several departments controlling the funds. To obviate this inconvenience, an abstract of the transactions under each fund will in future be annexed to the departmental budget, classified in the form adopted in the Finance accounts, and shown in the appendix to these Proceedings; the necessary instructions will be issued in the departments concerned to Collectors and Presidents of District Boards, who in preparing the abstracts will bring to the notice of the Accountant-General such amendments in his classification as may appear to be desirable.

5. *Local Funds Act V of* 1884.—The figures in the Civil estimates under this section do not include the reserve of 10 per cent. on the estimated receipts and the unappropriated balance of 5 per cent,, which under the rules are usually provided for in the detailed budgets and from which expenditure is freely sanctioned during the course of the year. District Boards have now been authorised to sanction, without reference to Government, expenditure from the reserve and the surplus over estimated balances* up to a limit of Rs. 2,000 for each item. In future, therefore, not only will the Accountant-General's estimates under each head be fixed at a reasonable amount higher than the latest known actuals, but a reserve to meet unforeseen expenditure equivalent to the total of the ordinary reserve and balance in the detailed budgets will be provided under 32, Miscellaneous—Local. The amount so provided by the Local and Municipal Department for 1890-91 aggregates 5·31 lakhs, and a similar figure will be repeated by the Accountant-General in each succeeding year.

* G.O., No. 287 L., dated 12th Feb. 1891.

6. *Village Service Fund.*—The excess under 3, Land Revenue, which occurs in this section, is to some extent nominal, as the receipts under VI, Provincial rates, increase *pro tanto* in consequence of the gradual introduction of the scheme of the revision of village establishments, under which payments to the village staff are now made by fixed salaries and recoveries effected by means of the village cess. Thus the receipts in 1889-90 amounted to 28·84 against the original estimate of 22·60 lakhs.

The financial effect of administrative measures of this kind as well as those referred to in G.Os., Revenue, No. 947, dated 21st November 1890, and No. 43, dated 20th January 1891, should be duly borne in mind, and the necessary provision should invariably be made in the departmental estimates on both sides of the account. A reserve should also be set apart by the Revenue and Public Works Departments under each fund, from which expenditure may be sanctioned during the course of the year. The rules regarding reappropriations and the sanction of the Government of India referred to in paragraph 1 *supra* should be carefully observed, and as revised estimates are mere forecasts and not revised allotments for expenditure, the amounts provided in the original estimates including the reserve should suffice to meet all the possible requirements of the year.

7. *Canal and Ferry Fund.*—When the arrangements described in G.O., dated 4th December 1890, No. 912, Financial, are matured, this special fund will cease to exist as such and the transactions will partly merge with those under Local or Municipal funds. The necessary alterations in the estimates should be made in due course.

8. *Irrigation Cess Fund.*—In the estimates forwarded to the Government of India no credit is allowed for the contributions from Provincial revenues on account of the cess and nirbatta in Bellary (*vide* G.O., Revenue, No. 966, dated 27th November 1890).

9. *Road Fund, Bhadráchalam and Rékapalle Taluks.*—The Government Agent, Godávari, will in future submit annually by the 15th September a budget estimate of the receipts and expenditure in connection with this fund along with that for Agency Civil Works.

10. The alterations to be made in the estimates of the current and ensuing years in accordance with the foregoing paragraphs are shown in columns 5 and 7 of the statement annexed to these Proceedings, but as the Accountant-General is responsible for the revised estimates, he will communicate with the Government of India

direct regarding them. The following telegram will be despatched to the Government of India, Department of Finance and Commerce:—

"Please alter Local estimates, 1891-92, as follows:—Receipts, in lakhs: Provincial rates, 81·63; Adjusting Heads, 3·84; Total receipts, 113·23. Expenditure: Land Revenue, 42·65; Education, 9·00; Miscellaneous, 13·00; Civil Works—Civil Officers, 40·16; Adjusting heads, 5·09; Total charges, 121·22. Proceedings follow."

(True Extract.)

J. F. PRICE,
Chief Secretary.

To the Revenue Department.
" Local and Municipal Department.
" Public Works Department.
" Judicial Department.
" Accountant-General.
" Government Agent, Godávari.

ENDORSEMENT—dated 23rd February 1891, No. 145, Financial.

Copy to the Government of India, Department of Finance and Commerce.

J. F. PRICE,
Chief Secretary.

Govt. of {1891} Madras.

FINANCIAL.

Issued

Recd. *Encl.*

G.O., &c., 23rd February 1891,
Nos. 144, 145.

B/h 928-W 23-4-91.

FEBRUARY.

Expenditure over Budget Grants.

Passing orders in connection with a letter from the Government of India regarding — under Provincial and Local services.

Enclosure to Director General of Railways' Circular No. 2 of 1891.

RATE LIST

CLASS F.

STATION MATERIALS AND FENCING

FOR 1889.

APPENDIX.

Local Revenue and Expenditure of the Government of Madras.

Receipts.

Such Local Funds as are not at the unfettered disposal of Government.	1889-90.		1890-91.		1891-92.	
	Sanctioned estimate.	Actuals.	Revised estimate.	Departmental estimate.	Accountant-General's estimate.	Departmental estimate.
1	2	3	4	5	6	7
Revenue Heads.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Local Funds (Act V of 1884)—						
I. Land Revenue	1,00,000	1,05,687	1,05,000	1,05,000	1,05,000	* 1,05,000
VI. Provincial Rates	44,20,000	46,78,354	47,20,000	47,19,000	47,60,000	47,61,000
XII. Interest	60,600	56,862	60,000	60,000	53,000	53,000
XIX. Education	1,48,000	1,62,385	1,79,000	2,02,000	1,87,000	1,87,000
XX. Medical	16,000	22,989	23,000	20,0 0	22,000	22,000
XXII. Receipts in aid of Superannuation, Retired and Compassionate Allowances.	1,000	981	1,000	1,000	1,000	1,000
XXV. Miscellaneous	4,09,000	4,82,629	4,83,000	4,87,000	4,86,000	4,86,080
XXXII. Civil Works	6,95,000	8,26,896	8,20,000	7,90,000	7,90,000	7,90,000
Public Works Department	4,000	8,917	3,000		3,000	3,000
Adjusting Heads	2,71,000	3,76,296	3,49,000	3,67,000	3,74,000	3,74,000
Total	61,24,600	67,21,396	67,43,000	* 67,51,000	67,81,000	67,82,000
Canal and Ferry Fund—						
XII. Interest	..	70	..	..	..	..
XXXII. Civil Works	1,45,000	1,47,556	1,50,000	1,50,000	1,50,000	1,50,000
Public Works Department	..	..	..	..	..	..
Adjusting Heads	..	50	..	..	..	..
Total	1,45,000	1,47,676	1,50,000	† 1,50,000	1,50,000	† 1,50,000
Village Service Fund—						
I. Land Revenue	9,42,000	8,03,565	9,35,000	9,35,000	8,50,000	8,50,000
VI. Provincial Rates	22,60,000	28,83,858	31,30,000	32,23,300	31,60,000	33,34,300
XII. Interest	33,100	32,951	33,700	33,700	33,700	33,700
XXV. Miscellaneous	50,000	89,651	95,000	80,000	95,000	95,000
XXXII. Civil Works	..	20	..	..	..	..
Public Works Department	..	..	..	..	..	..
Total	32,85,100	38,10,045	41,93,700	‡ 42,72,000	41,38,700	‡ 43,13,000
Irrigation Cess Fund—						
VI. Provincial Rates	45,000	54,282	54,000	69,700	52,000	66,700
XII. Interest	300	303	300	300	300	300
XXXII. Civil Works	..	331	..	..	..	..
Public Works Department	..	..	..	..	..	10,000
Adjusting Heads	..	..	..	20,000	..	
Total	45,300	54,916	54,300	§ 90,000	52,300	§ 77,000
Road Fund, Bhadráchalam and Rékapalle Taluks—						
VI. Provincial Rates	1,000	817	1,000	1,000	1,000	1,000
XII. Interest	..	..	..	..	..	..
XXXII. Civil Works	..	628	..	..	..	..
Total	1,000	1,445	1,000	1,000	1,000	1,000
Abstract.						
Receipts of all Incorporated Local Funds as in the Civil Estimates—						
I. Land Revenue	10,42,000	9,08,652	10,40,000	10,40,000	9,55,000	9,55,000
VI. Provincial Rates	67,26,000	76,17,311	79,05,000	80,13,000	79,73,000	81,63,000
XII. Interest	94,000	90,186	94,000	94,000	87,000	87,000
XIX. Education	1,48,000	1,62,385	1,79,000	2,02,000	1,87,000	1,87,000
XX. Medical	16,000	22,989	23,000	20,000	22,000	22,000
XXII. Superannuation	1,000	981	1,000	1,000	1,000	1,000
XXV. Miscellaneous	4,59,000	5,72,280	5,78,000	5,67,000	5,81,000	5,81,000
XXXII. Civil Works—Civil Officers	8,40,000	9,75,431	9,70,000	9,40,000	9,40,000	9,40,000
Do. Public Works Department.	4,000	8,917	3,000		3,000	3,000
Adjusting Heads	2,71,000	3,76,346	3,49,000	3,87,000	3,74,000	3,84,000
Total	96,01,000	1,07,35,478	1,11,42,000	1,12,64,000	1,11,23,000	1,13,23,000

Disbursements.

Such Local Funds as are not at the unfettered disposal of Government.	1889-90.		1890-91.		1891-92.	
	Sanctioned estimate.	Actuals.	Revised estimate.	Departmental estimate.	Accountant-General's estimate.	Departmental estimate.
1	2	3	4	5*	6	7
Charge Heads.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Local Funds (Act V of 1884)—						
1. Refunds and Drawbacks	10,000	15,716	22,000	8,000	16,000	16,000
14. Interest on other Obligations	9,000	8,706	8,000	8,000	8,000	8,000
18. General Administration	2,80,000	2,42,480	2,50,000	2,53,000	2,65,000	2,65,000
22. Education	7,30,000	8,02,814	8,68,000	10,25,000	8,80,000	9,00,000
24. Medical	5,99,000	6,87,893	7,04,000	7,66,000	7,14,000	7,14,000
29. Superannuation Allowances and Pensions	6,000	6,979	8,000	8,000	9,000	9,000
32. Miscellaneous	6,14,000	7,81,388	6,60,000	7,35,000 ¶ 5,31,000 ¶	6,62,000	8,00,000 ¶ 5,00,000
45. Civil Works	37,97,000	39,16,182	39,05,000	38,66,000	38,85,000	39,03,000
Public Works Department	34,000	72,744	29,000	55,000	34,000	34,000
Adjusting Heads—Mávavaram-Mutupet Railway.	..	..	* 2,59,000	** ..	4,92,000	** 2,66,000
Adjusting Heads—Other contributions	1,84,300	1,47,721	1,75,000	1,91,000	1,34,000	1,34,000
Total	62,63,000	66,82,623	68,88,000	*74,46,000	70,99,000	75,49,000
Canal and Ferry Fund—						
1. Refunds and Drawbacks	900	4,609	800	1,000	1,900	1,900
45. Civil Works	30,000	26,943	24,000	40,000	25,000	47,100
Public Works Department	36,000	14,390	50,000	50,000	55,000	55,000
Adjusting Heads	89,000	90,832	1,04,000	1,04,000	1,04,000	1,04,000
Total	1,55,900	1,36,774	1,78,800	† 1,95,000	1,85,900	† 2,08,000
Village Service Fund—						
1. Refunds and Drawbacks	4,000	4,399	4,000	4,000	4,000	4,000
3. Land Revenue	32,67,000	36,38,043	37,02,000	41,00,000	37,52,000	42,52,000
45. Civil Works	30,000	28,485	35,000	58,000	30,000	25,000
Adjusting Heads	25,000	‖ 86,000	4,000	4,000	5,000	5,000
Total	33,26,000	37,56,927	37,45,000	‡ 41,66,000	37,91,000	‡ 42,86,000
Irrigation Cess Fund—						
1. Refunds and Drawbacks	100	257	200	..	100	100
3. Land Revenue	13,000	12,579	13,000	13,000	13,000	13,000
43. Minor Works and Navigation	..	3,699	30,000	30,000	25,000	25,000
45. Civil Works	28,000	30,003	32,000	32,000	32,000	38,900
Adjusting Heads	..	66	..	..	..	..
Total	41,100	46,604	75,200	§ 82,000	70,100	§ 77,000
Road Fund, Bhadráchalam and Rékapalle Taluks—						
32. Miscellaneous	2,000	2,130	2,000	2,000	2,000	2,000
45. Civil Works	..	2	..	..	..	..
Adjusting heads	..	..	..	..	..	..
Total	2,000	2,132	2,000	2,000	2,000	2,000
Abstract.						
Expenditure of all Incorporated Local Funds as in the Civil Estimates—						
1. Refunds	15,000	24,981	27,000	13,000	22,000	22,000
3 Land Revenue	32,80,000	36,50,622	37,15,000	41,13,000	37,65,000	*42,65,000
14. Interest	9,000	8,706	8,000	8,000	8,000	8,000
18. General Administration	2,80,000	2,42,480	2,50,000	2,53,000	2,65,000	2,65,000
22. Education	7,30,000	8,02,814	8,68,000	10,25,000	8,80,000	9,00,000
24. Medical	5,99,000	6,87,893	7,04,000	7,66,000	7,14,000	7,14,000
29. Superannuation	6,000	6,979	8,000	8,000	9,000	9,000
32. Miscellaneous	6,14,000	7,81,388	6,60,000	7,35,000 ¶ 5,31,000 ¶	6,62,000	8,00,000 ¶ 5,00,000
43. Irrigation and Navigation—Minor Works	..	3,699	30,000	30,000	25,000	25,000
45. Civil Works—Civil Officers	38,87,000	40,03,743	39,98,000	40,05,000	39,74,000	40,16,000
Do. Public Works Department.	70,000	87,134	79,000	1,05,000	89,000	89,000
Adjusting Heads—Mávavaram-Mutupet Railway.	..	..	2,59,000	** ..	4,92,000	** 2,66,000
Adjusting Heads—Other contributions	2,98,000	3,24,621	2,83,000	2,99,000	2,43,000	2,43,000
Total	97,88,000	1,06,25,060	1,08,89,000	118,91,000	1,11,48,000	1,21,22,000

* *Fort St. George Gazette*, Part I-A., page 98, dated 17th June 1890.
† G.O., Revenue, dated 22nd November 1890, No. 949.
‡ G.O., Revenue, No. 936, dated 19th November 1890.
§ Do. ,, 964, ,, 24th ,, ,,
‖ Refund of loans to Provincial funds.
¶ Reserve.
** G.O., Financial, No. 129, dated 18th February 1891.

Enclosure to Director General of Railways' Circular No. 2 of 1891

RATE LIST

CLASS F.

STATION MATERIALS AND FENCING

FOR 1889.

Enclosure to Director General of Railways' Circular No. 2, dated 9th February 1891.

Statement showing the average rate per ton for entire sea-freight on F Class Stores imported from England at the several ports during 1889-90.

Class of stores.	Port of Bombay.	Port of Calcutta.	Port of Kurrachee.	Port of Rangoon.	Remarks.
	s. *d.*	*s.* *d.*	*s.* *d.*	*s.* *d.*	
Class F.—Station Materials and Fencing	20 0	24 3	23 6	30 3	

SIMLA,
The 9th February 1891.

R. A. SARGEAUNT, Lieut.-Colonel, R.E.,
Officiating Director General of Railways.

RATE LIST.

CLASS OF STORES F.—STATION MATERIALS AND FENCING.

Contracted for in 1889.

Contract number and date.		Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
3082	4-12-89	Apparatus	For washing out Locomotives, to include supply of cast iron pan, and wrought iron cover, with necessary fittings complete.	12	0	0	Set.	
			Tracings for "	0	10	6	"	
3133	12-12-89	Clocks.	Station, in teak cases 4 feet long, I. S. R. pattern, dial 14 inches diameter ...	6	15	2	Each.	
2439	15-6-89		Timepieces, best movement, steel chain to fusee, with pendulum, suitable for Railway stations, platforms, and telegraph offices, in teak short drop cases, with 12" dials, covered with patent plate glass.	3	15	0	Each	The dials to be graduated to 24 hours in 2 circles.
			Additional charge on account of increased cost of new dials and the necessity for additional machinery.	2	0	0		
2439A.	"		Total cost ...	5	15	0		
2297	21-5-89	Cocks.	Iron, main, screwed, for 1½" piping with brass plugs	0	12	6	Each.	
"	"		Screw, down, ½" brass, screwed, for iron pipe	0	2	2	"	
"	"		Spring, push, ½" brass, screwed, for iron pipe	0	3	6	"	
"	"		Stop brass, screwed, for W. I. pipes ¾" diameter, known as gland stop cock...	0	2	10	"	
2114	12-3-89		Stop, cast iron, for 4" piping, with brass plugs	4	6	0	"	A suitable spanner is provided with each cock.
1841	19-1-89	Cranes water or water columns.	Pillar, 8" (5' 6" gauge) with pipes, &c., complete	45	10	0	Each.	
2194	18-4-89		Pillar, 8" with all piping, &c., complete	40	6	6	"	Fitted with valves to resist frost.

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number	Date	Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
2252	13-5-89	Cranes water or water columns—*contd.*	Pillar, 8″ diameter (5′ 6″ gauge), 7′ 6″ centre of pillar to centre of hose, complete.	46	19	6	Each.	Fitted with valve and arrangements for emptying column during frost.
3114	11-12-89		Pillar, 6″ complete, with pipes	36	10	0	,,	
2292	18-5-89	Engines, fire.	Hand power, complete with suction and delivery hose	119	15	0	Each.	
			Each engine supplied with 2 gun metal Nozzles ½ inch	...	...	...	...	
			2 Ditto ditto ditto ⅝ inch	...	...	...	...	
			1 Spreader, gun metal	...	...	...	...	
			1 Copper, branch pipe, with gun metal mounting 36″	...	...	...	...	
			1 Ditto ditto ditto 15″	...	...	...	...	
			1 Strainer, flat	...	...	...	...	
			2 pair wrenches for suction and delivery hose, shifting screw driver ...	...	...	...	...	
			300 feet hose, canvas delivery, 2¼″ internal diameter	...	...	...	...	
			26 feet of hose, leather, suction, in 4 lengths of 6′ 6″	...	...	...	...	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number	Date	Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
2533	2-7-89	Fencing; materials for.	Bases, cast iron	4	2	6	Ton.	Each weighing 20lbs. C. qr. lbs. 100 bases = 17—3—12
1858	24-1-89		Do. do.	3	12	6	,,	
2895	26-10-89		Do. do.	4	2	6	,,	
2663	16-5-89		Do. do.	3	7	6	,,	
1842	19-1-89		Bolts, eye, straining, galvanized, with nuts and washers	17	15	0	,,	
2279	17-5-89		Do. do. do.	19	5	0	,,	Weighing 3·133 lbs. each
2908	29-10-89		Do. do. do.	20	15	0	,,	
1855	24-1-89		Double stay bars, for Barb Fencing	0	5	6	Each.	
2990	12-11-89		Do. do. do.	0	6	7	,,	Estimated weight 41 lbs.
			Spare parts, consisting of flat wrought iron bars 1½ × ⅜″ × 6′ 5½″ long, bolts wrought iron ½″ with nuts, distance pieces 2¼″ long and foot plates cast iron.					

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number and date.		Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
2127	16-3-89	Fencing; materials for—*contd.*	Droppers, steel 3′ 3″ for No. 6 S. W. Gauge	13	12	6	°/₀₀	Weighing 1·56 lbs. each.
1858	24-1-89		Posts, W. iron, Intermediate	6	12	6	Ton.	Weighing 12·2 lbs. each.
2134	18-3-89		Ditto ditto	7	10	0	,,	12·2 lbs. each.
2264	16-5-89		Ditto ditto	7	5	0	,,	
2586	11-7-89		Ditto ditto	7	15	0	,,	
2894	26-10-89		Ditto ditto	8	5	0	,,	
1858	24-1-89		Posts, W. Iron stiffening	7	12	6	,,	Weighing 35·5 lbs. each.
2264	26-5-89		Ditto ditto	9	0	0	,,	35·5 lbs. each post.
2586	11-7-89		Ditto ditto	9	0	0	,,	
2894	26-10-89		Ditto ditto	9	10	0	,,	
1858	24-1-89		Pillars, cast iron, straining	4	2	6	,,	Weighing 2 cwt. 1 qr. 7 lbs. each.
2263	16-5-89		Ditto ditto	3	17	6	,,	
2895	26-10-89		Ditto ditto	4	12	6	,,	
2018	21-2-89		Pincer and Splicer (1 Pair)	1	8	0	Pair.	
3080	3-12-89		Winding strainers (1 No.)					
,,	,,		Lever Stretchers (1 No.)					
2990	12-11-89		Slotted standards, for Barb Fencing	1	8	4	Doz.	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number and date.		Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
1855	24-1-89	Fencing; materials for—*contd.*	Slotted standards for barb fencing, comprising standards C. I., crosses W. I. wedges 2¾″ × 1¼″	1	2	6	Doz.	
,,	,,		Screw Keys and spanners (combined) W. I.	0	2	3	Each.	
2990	12-11-89		Ditto ditto ditto	0	4	0	,,	
2586	11-7-89		Wedges, wrought iron	14	10	0	Ton.	
1858	24-1-89		Ditto ditto	13	10	0	,,	Weighing 5·8 oz each.
2134	18-3-89		Ditto ditto	14	0	0	,,	
2264	16-5-89		Ditto ditto	14	10	0	,,	
2894	26-10-89		Ditto ditto	15	10	0	,,	
2990	12-11-89		Winding Pillars, for barb fencing	1	6	5	,,	
1855	24-1-89		Winding Pillars, consisting of:	0	18	0	Each.	Estimated weight 131·7 lbs.
			Bolts W. I. ½″ with nuts					
			Channel iron sides 3″ × ½″					
			Cast iron stays 3½″ long					
			Ditto heads					
			Ditto straining rollers					
			Galvanised W. I. pins for ditto					
			Cast iron foot plates and crosses					

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number and date.		Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
1852	24-1-89	Fencing; materials for—*concld.*	Wire, strand, galvanized, in 450 yard coils	13	10	0	Ton.	
2129	16-3-89		Ditto ditto ditto 7 strands No. 14 S. W. G. ...	16	10	0	"	cwt. qr. lbs. 1 Coil=1 1 24.
2301	23-5-89		Ditto ditto ditto	12	17	6	"	
2616	16-7-89		Ditto ditto ditto	13	5	0	"	
2924	30-10-89		Ditto ditto ditto	14	0	0	"	
1860	24-1-89		Wire, 4 barbed, in reels of 533 yards ... ... Made of two strands of No. 12 S. W. G. galvanized steel wire, with a cluster of four barbed points fixed round one wire at every six inches.	14	17	4	"	lbs. 1 Reel=112.
2080	3-12-89		Wire, 4 barbed, in reels of 533 yards	16	11	6	"	
2288	18-5-89	Gates.	Field, wrought iron, 10 feet wide and 4′ 6″ high; with hinges suitable for fastening to posts of old iron, or rails with a suitable fastening ...	2	3	6	Each.	
3117	11-12-89	Hydrants.	Cast iron, each with hose and nozzle complete	8	10	9	Each.	Tracings and Photos, 10 shillings.
3119	"							
2291	18-5-89		Stand up, 3″ for engine shed, complete, with hose and pipe to connect on to 6″ main.	13	4	0	"	
2195	23-4-89		Stand pipe, twin, 2½″ bore, two hose connections in opposite directions ...	8	8	0	"	Ditto ditto.

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number and date.		Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
2158	22-3-89	Pipes, iron, cast.	Faucit and Spigot, 9 feet long, 6″ bore, $\frac{7}{16}$″ thick	4	6	6	Ton.	Weight of 1 pipe=280 lbs.
2344	30-5-89		Ditto ditto ditto	0	11	5	Each.	
2158	22-3-89		Faucit flanged, 9 feet long, 6″ bore, $\frac{7}{16}$″ thick, one end faucit and the other flanged.	1	2	4	"	Ditto 2¾ cwts.
2324	23-5-89		Flange and socket, 9 feet long, 6″ diameter, flange at one end and socket bored at the other.	6	15	0	Ton.	Ditto 297 lbs.
2158	22-3-89		Flange and spigot, 9 feet long, 6 inches bore, $\frac{7}{16}$″ thick	0	17	11	Each.	
2324	23-5-89		Ditto ditto ditto	5	5	0	Ton.	Ditto 266 lbs.
3109	7-12-89		Flanged both ends ditto ditto	6	15 or 16	0 2	" Each.	Ditto 269 lbs.
"	"		Ditto ditto 3″ diameter	8	5	0	Ton.	Ditto 276 lbs.
2188	15-4-90		Spigot and socket, turned and bored, 9 feet long, 6″ bore	10	7	6	"	Ditto 124 lbs.
2324	23-5-89		Ditto ditto ditto	4	5	0	"	Ditto 279 lbs.
2412	13-6-89		Ditto ditto ditto 4″ bore	4	9	6	"	Ditto 281 lbs.
				4	11	6	"	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
2158	22-3-89	Pipes, cast; connections for—	Bends, right angle, flange, and spigot, 6″ bore, $\frac{7}{16}$″ thick	8	10	0	Ton.	1 bend = 84 lbs.
2324	23-5-89		„ quarter, for flange, spigot, and socket, turned and bored	8	10	0	„	„ = 140 lbs.
				or 10	7		Each.	
2684	21-8-89		„ 90°, turned and bored, 4″ diameter	0	6	0	Piece.	„ = 67 lbs.
„	„		„ 120° ditto ditto	0	5	6	„	„ = 59 lbs.
3109	7-12-89		„ flanged at both ends, for 6″ pipes	14	12	6	Ton.	„ = 105 lbs.
„	„		„ ditto ditto 3″ „					„ = 42 lbs.
2158	22-3-89		Bolts and nuts, wrought iron, $\frac{7}{8}$″ diameter, with hexagonal heads and nuts, for flanges.	0	0	3	Each.	
2324	23-5-89		Tee pieces, for flanges, spigot, and socket, turned and bored	8	10	0	Ton.	„ = 140 lbs.
				or 10	7		Each.	
3109	7-12-89		Ditto flanged at both ends 6″	14	12	6	Ton.	„ = 146 lbs.
3109	„		Ditto ditto 3″					„ = 67 lbs.
2684	21-8-89		Ditto ditto	0	9	3	Each.	1 „ = 100 lbs.

CLASS OF STORES F.—STATION MATEIRALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
2093	5-3-89	Pipes, iron, wrought.	Gas, butt welded, in lengths of 2-6-8-10-12-13 and 14 feet, 2″ internal diameter, No. 8 S. W. G., thick.	0	0	5½	Foot.	
2261	16-5-89		Lapwelded, in lengths of 2-4-6-8-10 and 12 feet, 1½″ internal diameter, No. 7 S. W. G., thick.	0	0	4¾	„	
2261	16-5-89		Lapwelded, in lengths of 2-4-6-8-10 and 12 feet, 1½″ internal diameter, No. 9 S. W. G., thick.	0	0	1¾	„	
2059	5-3-89		Lapwelded, in lengths of 12 feet, with screwed ends and collars, 5″ internal diameter No. 5 I. W. G.	0	1	9¾	„	
2059	5-3-89		Lapwelded, in lengths of 12 feet, with screwed ends and collars, 2″ internal diameter No. 7 I. W. G., easy.	0	0	5½	„	
2187	10-4-89		Lapwelded in lengths of 12 feet, with screwed, ends and collars, 1½″ internal diameter No. 7 S. W. G., thick.	0	0	4¾	„	
2187	10-4-89		Lapwelded, in lengths of 12 feet, with screwed ends and collars, 3″ internal diameter No. 4 S. W. G., thick.	0	1	2	„	
2892	26-10-89		Lapwelded, in lengths of 15 feet, with screwed ends and collars, 2½″ internal diameter No. 5 S. W. G., thick.	0	1	0	„	
2184	5-4-89		Lapwelded, in lengths of 15 feet, with screwed ends and collars, 1¼″ internal diameter, with screwed ends and sockets.	0	0	5¼	„	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number and date.		Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
		Pipes, iron, wrought; connections for.	Bends, W. I. Gas., with sockets—					
			½″	0	0	8	Each.	
			⅝″	0	0	11	,,	
			¾″	0	0	11	,,	
			1″	0	1	3	,,	
2423	14-6-89		1⅛″	0	1	9	,,	
			1¼″	0	1	9	,,	
			1½″	0	2	3	,,	
			1⅝″	0	3	3	,,	
			1¾″	0	4	3	,,	
			2″	0	10	0	,,	
			2½″	0	16	0	,,	
			3″	0	17	0	,,	
2093	5-3-89		Bends, 90° for 2″ gas piping, 2″ internal Diameter, No. 8 S. W. G. ...	0	1	0¼	,,	
,,	,,		,, 120° ,, ,, ,, ...	0	0	9½	,,	
2059	25-2-89		,, quarter, for 4″ pipe, with screwed ends and collars	0	7	9	,,	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number and date.		Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
2059	25-2-89	Pipes, iron, wrought; connections for—*contd.*	Bends, quater, 2″ pipe, with screwed ends and collars	0	1	0½	Each.	
2184	5-4-89		,, right angle, with screwed ends and sockets	0	0	10½	,,	
,,	,,		,, 135° ,, ,, ...	0	0	10½	,,	
2261	16-5-89		,, right angle, for 1½″ pipes with sockets	0	0	8	,,	
,,	,,		,, ,, ¾″ ,, ...	0	0	3	,,	
2059	22-5-89		Cocks, stop, cast iron, for 2″ piping	0	4	3	,,	
2184	5-4-89		Connecting tubes, or long screws, with back nuts 6″	0	0	10	,,	
,,	,,		,, ,, ,, ,, 9″	0	0	10	,,	
,,	,,		,, ,, ,, ,, 12″	0	1	3	,,	
,,	,,		,, ,, ,, ,, 15″	0	1	3	,,	
2261	16-5-89		Diminishing sockets, 1½″ to ¾″ internal diameter	0	0	2¾	,,	
2423	14-6-89		Elbows, for pipes W. I. gas ½″	0	0	8	,,	
,,	,,		,, ,, ⅝″ and ¾″	0	0	10	,,	
,,	,,		,, ,, 1″	0	1	2	,,	
,,	,,		,, ,, 1⅛″ and 1¼″	0	1	9	,,	
,,	,,		,, ,, 1½″	0	2	3	,,	
,,	,,		,, ,, 1⅝″ and 1¾″	0	3	0	,,	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
2423	14-6-89	Pipes, iron, wrought; connections for—*contd.*	Elbows, for pipes W. I. gas 2″	0	3	6	Each.	
,,	,,		,, ,, 2½″	0	8	6	,,	
,,	,,		,, ,, 3″	0	14	0	,,	
2261	16-5-89		Do. for 1½″ right angle bends, with sockets	0	0	6½	,,	
,,	,,		Do. ¾″ Do. Do.	0	0	2¼	,,	
2059	25-2-89		Flanged pieces, for 4″ piping, one end flanged the other screwed, one foot long, with collars.	0	6	2	,,	
2093	5-3-89		Sockets, spare	0	0	2¾	,,	
,,	,,		T pieces, for W. I. gas pipes	0	0	10¾	,,	
			,, ,, ½″	0	0	9	,,	
			,, ,, ⅝″ and ¾″	0	1	0	,,	
			,, ,, 1″	0	1	3	,,	
			,, ,, 1¼″ and 1½″	0	1	9	,,	
2423	14-6-89		,, ,, 1½″	0	2	6	,,	
			,, ,, 1⅝″ and 1¾″	0	3	0	,,	
			,, ,, 2″	0	3	9	,,	
			,, ,, 2½″	0	9	6	,,	
			,, ,, 3″	0	16	0	,,	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number and date.		Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
		Pipes, iron, wrought; connections for—*concld.*		0	0	7	Each.	
2261	16-5-89		T pieces, for 1½″ pipes	0	0	3	,,	
			,, ¾″ ,, ...					
			T pieces, for 1¼″ pipes	0	0	10	,,	
2184	5-4-89		,, ,, 2″ ,, ...	0	0	10	,,	
2059	25-2-89		,, ,, 4″ ,, ...	0	7	1	,,	
,,	,,							
2760	18-9-89	Presses, dating.	To cut date, with type in box, complete	2	0	0	Each.	
2641	31-7-89		To ink and indent at one operation, complete, with box of type and one pint of Ink.	2	5	0	,,	
and 2844	15-10-89		Indenting, with type and box, complete	2	0	0	,,	
3121	11-12-89		To print date, with type complete	2	0	3	,,	
2004	18-2-89		Ditto	1	12	3	,,	Packing and delivery £2-6-6 for 20.
and 2475	22-6-89		Box of type for ditto	0	16	6	,,	
3081	3-12-89		Spare type in boxes for ditto	0	8	8	Set.	
,,	,,							
2475	22-6-89							

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
3125	11-12-89	Pumps.	Hand Power, double cylinder	27	8	0	Each.	Tracings and Photos £ 1-1 Lot.
2262	16-5-89	Pumps, steam.	Engine, 6 H. P. with boiler, with piping, &c., &c., complete, and 2 right angle bends, extra.	280	0	0	Each.	
			The general dimensions of the engines, boilers, and pumps, are as follows :—					
			Diameter of Cyliner, 9 inches	...	...	...	...	
			Length of stroke 10 inches	...	...	...	...	
			Diameter of boiler, 3 feet 2 inches	...	...	...	...	
			Height of boiler, 7 feet	...	...	...	...	
			Number of conical water tybes in ditto, two	...	...	...	...	
			Diameter of pump barrel, 6 inches	...	...	...	...	
			Stroke of pumps (double acting) 12″ changeable to 8″	...	...	...	...	
			Number of pumps (double acting) two	...		...	...	
			Each pump is to have 27 feet of section and 99 feet of delivery pipes, in 9 feet lengths.	...	...	...	...	
2236	16-5-89		Engine, vertical, 6. H. P. complete, general dimensions same as contract No. 2262	278	0	0	Each.	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number and date.		Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
3038	26-11-89	Pumps, steam—*contd.*	6 H. P. Engines, and Boilers, with suitable pumps for supplying water, for use of Locomotives, from wells 100′ deep.	359	15	0	Each.	
			General dimensions of Engines, Boilers and Pumps.					
			Diameter of steam cylinder, 9 inches					
			Length of stroke, 10 inches					
			Diameter of boiler, 3 feet 2 inches					
			Height of boiler, 7 feet					
			Number of conical water tubes boiler, 2					
			Diameter of pump barrel, 6 inches					
			Stroke of pumps (double acting), 12 inches changeable to 8 inches ...					
			Number of pumps (double acting), two					

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number and date.		Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
1984	15-2-89	Pumps, steam—*contd.*	One Worthington compound pressure pumping Engine, having two high pressure steam cylinders, each 12 inches in diameter, two low pressure cylinders, each 17 inches in diameter, and all of 15 inches stroke (size 12″ and 17″ × 5½″ × 15″). High lift, with locomotive type boiler, to deliver 10,000 gallons per hour through single 4″ pipe head 400 feet (or to a height of 400 feet), length of piping 16,450 feet, boiler to burn coal.	1124	17	6	Each.	
			Details of prices.					
			Pumping engine	550	0	0		
			Extra for lagging pump	40	0	0	,,	
			High class locomotive multitubular boiler	395	0	0		
			Extra for lagging boiler	15	10	0		
			Worthington boiler feed Pump (3″ × 2″ × 3″ with connections) ...	30	15	0		
			Steam connections between Boiler and Worthington compound Pressure Pump, also 18 feet of Exhaust Piping.	13	10	0		
			End feed connections and 2½″ valve	2	12	6		
			Feed water heater	67	10	0		
			Extra for packing boiler if lagged	10	0	0		
2284	18-5-89	Pumps, steam, spare parts of:	Injectors, gun metal, Gresham's patent, for pumping engine, 5″ *M*—*M* ...	5	4	6	Each.	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number and date.		Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
2989	12-11-89	Roofing, iron, complete.	Galvanized, wrought iron work, for roofing of Engine Shed, 111 feet long × 40 feet wide; and spare part of galvanized iron roofing together with all rivets, burrs, clips, &c., *viz.*	486	12	6	Shed.	Estimated weight of roof ... T. 11 c. 2 qr. 2 lbs. 27 Spare parts 13 18 3 9 25 1 1 27
,,	,,		Galvanized, wrought iron, corrugated sheets 6′ 4½″ × 2′ 6″ (centres) 5″ pitch, 1½″ deep over all, 45·9 lbs. each.	15	5	0	Ton.	Total cost of Galvanized and Ungalvanized wrought ironwork for 1 roof complete £ 680-19-7.
,,	,,		Galvanized, wrought iron, corrugated sheets 6′ 7½″ × 2′ 6″ centres, 5″ pitch, 1½″ deep over all, 47·7 lbs. each.	16	0	0	,,	
2989	...		Galvanized, wrought iron, ridge plates	22	0	0	Ton.	
			Do. do. capping	32	0	0	,,	
			Do. do. Wind Ties	13	10	0	,,	
			Do. do. Clips and sheets	0	0	2½	lb.	
			Do. do. Gutters	32	0	0	Ton.	
			Do. do. Bolts and nuts	42	0	0	,,	
			Do. do. Rivtes	0	0	3	lb.	
			Do. do Washers	0	0	3	,,	
			Do. do. Screws, cone headed	0	0	4	,,	
			Do. do. Zinc flashing	0	0	3	,,	T. c. q. lbs.
2897	28-10-89		Ungalvanized, wrought iron work, for roof of Engine Shed 111 feet long × 40 feet wide, including all bolts, nuts, washers, &c., complete, *viz.*	194	7	3	Roof.	Estimated weight of roof including service bolts and washers ... 14 13 0 22

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number and date.		Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
2897	28-10-89	Roofing, iron, complete—*contd.*	For all wrought iron, except bolts, nuts, and washers	13	0	0	Ton.	
,,	,,		Do. do. in bolts, nuts, and washers	22	0	0	,,	
3144	19-12-89	Roofing, iron, spare parts of.	Angle iron purlins	12	0	0	Ton.	
,,	,,		Bearing plates	14	10	0	,,	
,,	,,		Bolts and nuts, &c.	31	0	0	,,	
,,	,,		Forged wind ties	26	0	0	,,	
,,	,,		Flat tension bars	14	10	0	,,	
,,	,,		Gusset plates	14	10	0	,,	
2144	21-3-89		Iron, corrugated, galvanized, length 7′ 0″, to cover a width of 2′ 6″ ...	16	2	6	,,	
,,	,,		,, plain, galvainzed, 6′ × 2′ 6″	13	2	6	,,	
,,	,,		,, ridging ,, No. 18 S. W. G. after being galvanized, in lengths of 6 feet.	0	4	3	Length.	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number and date.		Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
2144	21-3-89	Roofing, iron, spare parts of—*contd.*	Rivets and washers, ¼″ diameter, length ⅜″ under head	1	5	0	cwt.	
3144	19-12-89		Rivet heads, &c.	14	10	0	Ton.	
			Service bolts, &c.	21	0	0	,,	
			Tee iron rafters, &c.	14	10	0	,,	
1901	1-2-89	Safety Appliances.	Saxby and Farmers, ground disc signals	7	0	0	Each.	
			Ditto ditto	3	4	0	,,	
			Point Indicators, fittings only	5	8	0	,,	
1881	26-1-89	Signals, Semaphore, complete.	Signals, Distant, 26 feet high from ground level to centre of spectacle, complete	19	10	0	Set.	For detail see Appendix A.
2201	27-4-89		Signals, Distant, with wrought iron double lattice standards, complete ...	17	10	0	,,	
1881	26-1-89		Do. Main, with fittings complete, 30 feet high from ground level to centre of spectacle	21	10	0	,,	Ditto ditto B.
2201	27-4-89		Signals, Station, with wrought iron double lattice standards, complete ...	17	10	0	,,	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
2873	19-10-89	Signals, Semaphore, fittings for.	Signals, Distant, complete except posts	16	10	0	Set.	The Distant, and Station Signal arms to be weighted with a cast iron balance weight fitted to the end of the arm, and so arranged that the arm will go to danger if the rod breaks.
1838	17-1-89		Ditto ditto ditto ditto	14	1	4	,,	Each set to have a Windlass instead of a Lever 60′ of ¼″ chain, 900 yards of signal wire with 36 pulley standards, 2 crossing wheels, and 40 feet of 2″ gas pipes; also spare glasses of each color and one Lense-Lamp, to burn kerosine oil.
2035	23-2-89		Ditto ditto ditto ditto	15	3	0	,,	
3115	11-12-89		Ditto ditto ditto ditto with lamps and wire, &c. ...	16	8	8	,,	The Distant, and Station Signal arms, are each to be weighted with a cast iron balance weight, fitted to the end of the arm, and so arranged that the arm will go to danger if the rod breaks.
,,	,,		Ditto ditto ditto ditto and lamps	15	6	11	,,	
,,	,,		Ditto Station, except posts, with lamps, &c.	7	7	8	,,	
,,	,,		Ditto ditto ditto ditto and lamps	6	12	5	,,	
2035	23-2-89		Ditto ditto ditto ditto ditto	6	19	0	,,	
2873	19-10-89		Ditto ditto ditto ditto ditto	6	15	0	,,	*Vide* remark against Signals Distant, contract No. 2873 above.
1838	17-1-89		Ditto ditto ditto ditto ditto	9	5	9	,,	Each set to have 2 spare glasses of each color and one spare lense. The lamps to burn kerosine oil.

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number and date.		Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
2205	27-4-89	Signals, Semaphore, spare parts of—*concld.*	Barrels or hoists, without chains	0	15	0	Each.	
,,	,,		Brackets, G. I. with bolts and nuts for stakes	0	0	5	,,	
2035	23-2-89		Ditto ditto	0	0	5½	,,	
2205	27-4-89		Lever balance, complete	0	18	6	,,	
,,	,,		Wheels, pulley, G. I. with bolts and nuts, for stakes	0	0	5	,,	
2035	23-2-89		Ditto ditto ditto	0	0	5½	,,	
1840	19-1-89	Tanks.	Water, steel, travelling, complete	46	11	6	Each.	For 8 sets tracings £5 drawing E 1980, weight of one tank, 3 tons, 9 cwt.
3112	7-12-89		Do. ditto W. I. for watering stations, and C. I. connecting pipes, with bolts and nuts	16	5	0	Tank.	£ s. d. Cost of piping with bolts and nuts 0 5 0 each.
2185	8-4-89		Water W. I. 8′ 1½″ × 8′ 1½″ × 4′ 1½″ with piping	14	16	0	Each.	
3013	...	Traversers.	Carriage, and Wagon, M. G. 25 feet length, to take Bogie vehicles ...	180	0	0	Each.	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
2873	19-10-89	Signals, Semaphore, fittings for.	Signals, Distant, complete except posts	16	10	0	Set.	The Distant, and Station Signal arms to be weighted with a cast iron balance weight fitted to the end of the arm, and so arranged that the arm will go to danger if the rod breaks.
1838	17-1-89		Ditto ditto ditto ditto	14	1	4	,,	Each set to have a Windlass instead of a Lever 60′ of ¼″ chain, 900 yards of signal wire with 36 pulley standards, 2 crossing wheels, and 40 feet of 2″ gas pipes; also spare glasses of each color and one Lense-Lamp, to burn kerosine oil.
2035	23-2-89		Ditto ditto ditto ditto	15	3	0	,,	
3115	11-12-89		Ditto ditto ditto ditto with lamps and wire, &c. ...	16	8	8	,,	The Distant, and Station Signal arms, are each to be weighted with a cast iron balance weight, fitted to the end of the arm, and so arranged that the arm will go to danger if the rod breaks.
,,	,,		Ditto ditto ditto ditto and lamps	15	6	11	,,	
,,	,,		Ditto Station, except posts, with lamps, &c.	7	7	8	,,	
,,	,,		Ditto ditto ditto ditto and lamps	6	12	5	,,	
2035	23-2-89		Ditto ditto ditto ditto ditto	6	19	0	,,	
2873	19-10-89		Ditto ditto ditto ditto ditto	6	15	0	,,	*Vide* remark against Signals Distant, contract No. 2873 above.
1838	17-1-89		Ditto ditto ditto ditto ditto	9	5	9	,,	Each set to have 2 spare glasses of each color and one spare lense. The lamps to burn kerosine oil.

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number and date.		Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
2205	27-4-89	Signals, Semaphore, spare parts of—*concld.*	Barrels or hoists, without chains	0	15	0	Each.	
,,	,,		Brackets, G. I. with bolts and nuts for stakes	0	0	5	,,	
2035	23-2-89		Ditto ditto	0	0	5½	,,	
2205	27-4-89		Lever balance, complete	0	18	6	,,	
,,	,,		Wheels, pulley, G. I. with bolts and nuts, for stakes	0	0	5	,,	
2035	23-2-89		Ditto ditto ditto	0	0	5½	,,	
1840	19-1-89	Tanks.	Water, steel, travelling, complete	46	11	6	Each.	For 8 sets tracings £5 drawing E 1980, weight of one tank, 3 tons, 9 cwt.
3112	7-12-89		Do. ditto W. I. for watering stations, and C. I. connecting pipes, with bolts and nuts	16	5	0	Tank.	£ s. d. Cost of piping with bolts and nuts 0 5 0 each.
2185	8-4-89		Water W. I. 8′ 1½″ × 8′ 1½″ × 4′ 1½″ with piping	14	16	0	Each.	
3013	...	Traversers.	Carriage, and Wagon, M. G. 25 feet length, to take Bogie vehicles ...	180	0	0	Each.	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1889.

Contract number	Contract date	Articles	Details	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
1824	11-1-89	Turn tables.	Engine, 50 feet diameter, 5′ 6″ gauge, capable of turning an engine and tender weighing 80 tons	390	0	0	Each.	With steel rails 70 lbs. per yard.
1845	19-1-89		Ditto 36 feet diameter, metre gauge, capable of turning an engine and tender weighing 38 tons	207	10	0	,,	With steel rails weighing 50 lbs. per yard.
3120	11-12-89		Ditto ditto ditto ditto	235	0	0	,,	
2303	22-5-89	Valves.	Back, pressure, for No. 5 Pulsometer	3	5	0	Each.	
2114	12-3-89		Reflux 4″, to prevent water running back (or back pressure valves) ...	3	19	0	,,	
2297	21-5-89		Sluice, for 6″ pipes. The valves to be tested to 260 lbs. per square inch	2	6	0	,,	
3138	17-12-89	Weighbridges.	Metre gauge, 25 feet platform, fitted with 41½ lb. steel rails, to weigh up to 25 tons, for Bogie stock	160	0	0	Each.	
2677	14-8-89		Wagon, complete, fitted with English and Indian weights—25 tons, 5′ 6″ gauge, platform 18 feet long, fitted with steel rails of Vignoles Section weighing 75 lbs. per yard	122	0	0	,,	
2289	18-5-89		Complete, to weigh up to 18 tons, 5′ 6″ gauge. The platforms are 16 feet long and 6 feet 6 inches wide, fitted with steel rails of Vignoles type weighing 62 lbs. per yard	112	0	0	,,	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*concld.*

Contracted for in 1889.

Contract number	Contract date	Articles	Details	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
1887	29-1-89.	Weighing Machines.	Locomotive, Erhardts patent with double dial for weighing from 16 to 35 cwt. and from 35 cwt. to 7½ tons	141	0	0	Each.	For weighing M. G. Locomotives, and the Bogies of O class Engines. They are suitable for a rail of Vignole's section weighing 41½ lbs. per yard.
2564	8-7-89		Platform, 250 kilogramme, with steel yards graduated for English and Burma weight, *viz.*, cwts. qrs. lbs. and viss	8	10	0	,,	1 Kilogramme = 2·20,462 lbs. and 1 Viss = 3·65 lbs. Tracings 10 shillings set.
			Platform, 500 kilogramme, with steel yards graduated for English and Burma weights, *viz.*, cwts. qrs. lbs. and viss	10	10	0	,,	Photos. 1 shilling each.
2290	18-5-89		Platform, (for goods) with steel yards graduated for both Indian and English weights, to weigh up to 1 ton and 28 maunds	11	10	0	,,	
,,	,,		Platform, (for luggage) with steel yards graduated for both Indian and English weights, to weigh up to 10 cwts. and 14 maunds	10	0	0	,,	
2286	18-5-89		Platform, graduated for English weights only, to weigh ½ ton	9	10	0	,,	The levers for the disengaging apparatus to be made of wrought iron.
			Platform, graduated for English weights only, to weigh 1 ton	11	0	0	,,	
3136	,,		Platform, 5 cwts. with steel yards graduated for English and Burma weights, not metric, *viz.*, cwt. qrs. lbs. and viss	8	8	0	,,	

Appendix A.

Statement showing detail of Signals, Distant, with fittings complete, as supplied under Contract No. 1881, datad 26th January 1889.

1	Lattice Iron Post, with two W. I. Bands for fixing on Base, and C. I. grate, fitted on top of Post to take finial.
1	C. I. Base in 2 pieces 5′ 8½″ long weighing 2¾ cwt. each.
1	C. I. Signal top in two pieces.
1	Cedar arm, with W. I. stiffening plate, and fish tail ends.
1	W. I. Spindle, turned, drilled and fitted for outside Arm.
1	C. I. Arm plate, fitted with W. I. washer.
1	W. I. Crank 4¼″, drilled and fitted with ⅝″ set screw.
1	Set of C. I. Front and Back specs, glazed, bored, drilled and fitted.
1	C. I. Bush for Spindle, bored and fitted with 4 hook bolts.
1	C. I. Lamp Bracket, each fitted with 4 hook bolts.
1	Single Lever Plate.
1	W. I. Lever, fitted with Shackle pin and turned pin.
1	C. I. Rod Guide.
1	26 feet W. I. Ladder.
1	W. I. Ladder Bracket, with 2⅝″ Hooks and Bolts.
2	Ladder Stays.
1	23 feet ¾″ Down Rods, fitted with 2¾″ Joints and turned Pins and 1¾″ adjusting screw.
1	C. I. 8″ Single Swivel Pulley, fitted with ⅝″ Pin and Split Pin.
1	C. I. Balance Weight for Lever Plate, with 1⅝″ set screw.
4 Feet	¼″ Signal Chain.
1	Lamp, with 1-6″ Adjustable Lens and 1-2″ Adjustable Lens.
1	Lamp Interior.

Appendix B.

Statement showing detail of Signals, Main, with fittings complete, as supplied under Contract No. 1881, dated 26th January 1889.

1	Lattice Iron Post, with 2 W. I. Bands for fixing on base, &c.
1	C. I. grate, fitted to top of post to take finial.
1	C. I. Base in 2 pieces 5′ 8½″ long weighing 2¾ cwt. each.
1	C. I. Signal top in 2 pieces.
1	Cedar Arm, with W. I. stiffening plate and plain ends.
1	W. I. Spindle, turned drilled and fitted for outside arm.
1	C. I. Arm plate, fitted with W. I. washer.
1	W. I. Crank 4¼″, drilled and fitted with ⅝″ set screw.
1	Set of C. I. Front and Back specs, glazed, bored, drilled and fitted.
1	C. I. Bush for spindle bored and fitted with 4 Hook Bolts.
1	C. I. lamp bracket, fitted each with 4 Hook Bolts.
1	Single Lever Plate.
1	W. I. Lever, fitted with Shackle pin and turned pin.
1	C. I. Rod Guide.
1	30 feet W. I. Ladder.
1	W. I. Ladder Bracket, with 2⅝″ Hooks and Bolts.
2	Ladder Stays.
1	27 feet ¾″ Down Rod, fitted with 2¾″ Joints and turned Pins, and 1¾″ adjusting screw.
1	C. I. 8″ Single Swivel Pulley fitted with ⅝″ Pin and Split Pin.
1	C. I. Balance Weight, for Lever Plate, with 1⅝″ set screw.
4 Feet	¼″ Signal Chain.
1	Lamp, with 1-6″ Adjustable Lens and 1-2″ Adjustable Lens.
1	Lamp Interior.

The Secretaries to the Governments of Madras, Bombay, Bengal, the North-Western Provinces and Oudh, and the Punjab, Public Works Department.
The Secretaries to the Chief Commissioners of the Central Provinces, Burma and Assam, Public Works Department.
The Secretaries to the Residents, Hyderabad and Mysore, Public Works Department.
The Secretaries to the Agents to the Governor General, Rajputana and Central India, and Baluchistan, Public Works Department.
The Superintendent of Port Blair and Chief Commissioner, Andaman and Nicobar Islands.
The Director General of Telegraphs.
The Director General of Military Works.
The Accountant General, Public Works Department.
The Comptroller General.
The Accountant General, Bengal.
The Consulting Engineer for Railway, Madras.
The Consulting Engineers to the Government of India for Railways, Calcutta, Lucknow and Central Division.
The Agent and General Manager, Assam Railways and Trading Company, Limited.

Copy forwarded to the Local Governments, Administrations and Officers noted in the margin for information.

R. A. SARGEAUNT, Lieut.-Colonel, R.E.,
Officiating Director General of Railways.

No. 9/15 W dy 2nd April 1891

Communicated to officers of the Public Works Department in continuation of C. O. No. 58 W d/ 7th January 1891

1 Ld/ J O.
W.

FROM

THE DIRECTOR GENERAL
OF RAILWAYS,

To

Circular No. 2.

Dated Simla, 9th February 1891.

Received

RATE LIST, CLASS F.
Station Materials and Fencing for 1889.

G. C. Press, Simla.—No. 1197 P. W. D.—20-2-91—974.

C. O. for I
Secs
Supt of Works P. C.
C. A. to Govt

[*General Distribution.*]

Circular No. 2.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

TO

THE MANAGER, NORTH WESTERN RAILWAY.
THE MANAGER, OUDH AND ROHILKHAND RAILWAY.
THE SUPERINTENDENT OF WORKS, CHAMAN EXTENSION.
THE ENGINEER-IN-CHIEF, MOGHAL SARAI-HOWRAH RAILWAY SURVEY.
THE ENGINEER-IN-CHIEF, MOGHAL SARAI-DALTONGUNGE SECTION OF THE MOGHAL SARAI-HOWRAH RAILWAY SURVEY.
THE ENGINEER-IN-CHIEF, FRONTIER RAILWAY SURVEY.
THE ENGINEER-IN-CHIEF, KASHMIR RAILWAY SURVEY.
THE ENGINEER-IN-CHIEF, ZHOB VALLEY RAILWAY SURVEY.
THE ENGINEER-IN-CHIEF, JEYPORE-CHUMBAL RAILWAY SURVEY.
THE ENGINEER-IN-CHIEF, GOONA-BINA RAILWAY SURVEY.
THE ENGINEER-IN-CHIEF, UJAIN-BHOPAL RAILWAY SURVEY.
THE PORT STOREKEEPER, STATE RAILWAY DEPARTMENT, CALCUTTA.

Rate List—Class F.—"Station Materials and Fencing" for 1889.

Simla, the 9th February 1891.

SIR,

I have the honour to forward, for information and guidance, a printed statement showing the actual English rates, *free on board* in England, for class F stores, "Station Materials and Fencing," contracted for by the Stores Department of the India Office during 1889.

2. A table giving the average rate per ton, of sea-freight for Class F stores imported from England to the several ports in India for State Railways during 1889-90 is prefixed to the Rate List.

I have the honour to be,

SIR,

Your most obedient Servant,

R. A. SARGEAUNT, Lieut.-Colonel, R.E.,
Officiating Director General of Railways.

Documents accompanying.

1. Statement showing the average rate per ton for entire sea-freight on Class F. Stores imported from England at the several ports during 1889-90.
2. Rate List—Class F.—Station Materials and Fencing for 1889.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—again the following G.O., dated 11th March 1891, No. 1691, Mis., Rev. :—

Read—the following Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), dated 2nd March 1891, No. 112 :—

MR. CLOGSTOUN.

Read—the following letter from J. H. A. TREMENHEERE, Esq., Acting Collector of the Chingleput District, to the Secretary to the Commissioner of Revenue Settlement and Director of the Department of Land Records and Agriculture, dated Saidápet, 18th February 1891, Ref. on No. 50-G.&B.-S.L.R. :—

I have the honor to forward the list of Civil Agency relief works for the Chingleput district.

2. Here is a table which will illustrate the following remarks :—

——	Minor Irrigation works.	Water-supply.	Village-site improvements.	New roads.	Remetalling existing roads and then stacking a year's metal.	Total.
	RS.	RS.	RS.	RS.	RS.	RS.
	(1)		(6)			
Saidápet	1,750	(2) 4,035	675	1,08,720	2,32,520	3,47,700
Ponnéri	2,650	(3) 25,275	3,100	1,63,220	2,07,200	4,01,445
Tiruvallúr	4,725	(4) 2,300	5,300	26,000	1,80,750	2,19,075
Chingleput	10,000	9,300	5,600	21,875	1,39,325	1,86,100
Conjeeveram	9,400	(5) 1,57,000	3,570	2,05,390	2,38,925	6,14,285
Madurántakam	9,550	10,400	5,200	91,400	1,52,100	2,68,650
Total ..	38,075	2,08,310	23,445	6,16,605	11,50,820	20,37,255

(1) Each of these figures will be increased to at least 10,000.
(2) Will rise to 10,000.
(3) Carefully prepared.
(4) Will rise to 12,000.
(5) Includes water-supply project to the town.
(6) Each figure will be raised to 5,000.

3. *Column* 1—*Minor Irrigation Works.*—Each taluk can certainly spend Rs. 10,000, so I have called for revised lists.

4. *Column* 2—*Water-supply.*—I have called for larger lists, to be revised especially for the quarters inhabited by the lower castes.

5. *Column* 3—*Village-site Improvements.*—A similar remark applies ; each taluk can well spend Rs. 5,000.

NOTE.—The amounts noted in these two columns may be spent if he desires by or under the supervision of the Sanitary Commissioner, as a sanitary expert considers that at present "money in 99 cases out of 100 is either actually squandered or is applied to comparatively useless purposes" —G.O., dated 16th January 1891, No. 79 L.

6. *Column* 4—*New Roads.*—I have struck out many ridiculous suggestions, but I am aware that the list presents a sufficiently bloated appearance, for the District Board would have no money to keep up any large additions to the present mileage. From my recent experience of the Main Division and my remembrance of the Sub-Division, I should say we do not want more than 100 miles of new road at Rs. 500 a mile (50,000) and 300 miles of village roads put in passable order at Rs. 50 a mile (15,000) : to leave a margin, I am returning the lists for revision with a limit of one lakh.

7. *Column 5—Metalling or remetalling existing roads and stacking sufficient metal for one year.*—The figures are taken from estimates prepared by the Local Fund Engineer, and concern 682 miles.

8. The totals of the list come to nearly 20½ lakhs, being sufficient to give work at 2 annas a day for 325 working days to 50,000 persons (5 per cent. of a million).

9. If a famine should break out, I think we should first exhaust all the major and minor irrigation works in the district; then metal or remetal the existing roads, many of which are in very bad order, and stack a year's metal along them; and at a later stage put in hand the new roads, and improve the village roads, village water-supply and the village-sites.

Resolution—dated 2nd March 1891, No. 112.

Submitted for the information of Government.

2. The revised lists called for in paragraph 3 of the letter are awaited.

3. The Board agrees with the Collector in his remarks in paragraph 9. A detailed list of the major and minor irrigation works which the Collector would recommend for execution in the most affected portions of the Ponnéri and Tiruvallúr taluks should be submitted without delay. It should also be stated what works the District and Taluk Boards are prepared to carry out in these taluks from the 1st April next.

(A true Copy and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

To the Secretary to Government, Revenue Department, with list, in original.
" Collector of the Chingleput District.

Order—dated 11th March 1891, No. 1691, Mis., Revenue.

Recorded with reference to G.O., dated 24th February 1891, No. 140.

2. It does not appear whether estimates are ready for any of the works entered in the list. Without estimates programmes are useless. The programme called for in paragraph 3 of the Board's Proceedings should be submitted without delay.

(True Extract.)

(Signed) C. A. GALTON,
Secretary to Government.

To the Commissioner of Revenue Settlement, Land Records and Agriculture, with list.

Read—also the following Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), dated 23rd March 1891, No. 157:—

Mr. Clogstoun.

Read—the following letter from J. H. A. TREMENHEERE, Esq., Acting Collector of the Chingleput District, to the Secretary to the Commissioner of Revenue Settlement and Director of the Department of Land Records and Agriculture, dated Saidápet, 18th March 1891, Ref. on No. 151-S.L.R. G. & B.:—

With reference to paragraph 3 of Board's Proceedings, dated 2nd March 1891, No. 112, I have the honor to submit a detailed list of the major and minor irrigation works which I would recommend for execution as they may become necessary in the most affected parts of Ponnéri and Tiruvallúr taluks, together with a statement

showing the works the District and Taluk Boards are prepared to carry out in these taluks.

2. I also enclose a list of works (major and minor irrigation) to be executed in the taluks of Saidápet,* Chingleput and Madurántakam in the portions where distress is felt.

* Minor irrigation list will follow.

Resolution—dated 23rd March 1891, No. 157.

The detailed lists will be submitted to Government in continuation of Board's Proceedings, dated 2nd March 1891, No. 112.

2. The estimated cost of the works included in the lists and the number of men for whom employment can be found on them for two months at an average wage of annas 2 per diem are as under:—

Taluks.	Cost. Rs.	Laborers. No.
Ponnéri	58,705	7,827
Tiruvallúr	46,855	6,247
Saidápet	21,736	2,898
Chingleput	19,720	2,629
Madurántakam	42,100	5,613
Total ...	1,89,116	25,214

3. The list of minor irrigation works promised for the Saidápet taluk is awaited.

4. The works for which estimates are ready should have been specified in the lists. In the list of works for the Chingleput taluk no estimate is entered against the diversion of the canal, Covelong, Sadras.

(A true Copy and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

To the Secretary to Government, Revenue Department, with list of works.

Copy to the Collector of the Chingleput District.

Order—dated 24th March 1891, No. 238, Revenue.

Miscellaneous.

Recorded.

2. The Collector should at once report for what works estimates are ready and what steps he is taking to have estimates prepared for the remainder.

3. The Public Works Department is requested to furnish information on this point as regards the Major Irrigation Works.

(True Extract.)

(Signed) C. A. GALTON,
Secretary to Government.

To the Commissioner of Revenue Settlement, Land Records and Agriculture.
" the Collector of Chingleput.
" the Public Works Department.

Esd. P. L. Pereira.

80 Copies.

Govt. of {1891} Madras.

REVENUE.

No. 903 W. dy 1st April 1891.

Issued

Recd. Encl.

G.O., 24th March 1891, No. 238.

Communicated to the Superintending Engineer V circle and to the Chief Engineer for Irrigation.

2. The Chief Engineer for Irrigation will furnish the information called for in para 3 of the Board's Proceedings to the Revenue Department.

Sd/ J. O.

S.E. V circle
Chief Engineer for Irrigation

MARCH.

Season.

Recording Board's Proceedings submitting the detailed lists of works recommended for execution in the affected taluks of the Chingleput district and requesting the Public Works Department to furnish certain information regarding Major Irrigation Works.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—again the following G.O., dated 11th March 1891, No. 1691, Mis., Rev. :—

Read—the following Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), dated 2nd March 1891, No. 112 :—

MR. CLOGSTOUN.

Read—the following letter from J. H. A. TREMENHEERE, Esq., Acting Collector of the Chingleput District, to the Secretary to the Commissioner of Revenue Settlement and Director of the Department of Land Records and Agriculture, dated Saidápet, 18th February 1891, Ref. on No. 50-G.&B.-S.L.R. :—

I have the honor to forward the list of Civil Agency relief works for the Chingleput district.

2. Here is a table which will illustrate the following remarks :—

	Minor Irrigation works.	Water-supply.	Village-site improvements.	New roads.	Remetalling existing roads and then stacking a year's metal.	Total.
	RS. (1)	RS.	RS. (6)	RS.	RS.	RS.
Saidápet	1,750	(2) 4,035	675	1,08,720	2,32,520	3,47,700
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Tiruvallúr	4,725	(4) 2,300	5,300	26,000	1,80,750	2,19,075
Chingleput	10,000	9,300	5,600	21,875	1,39,325	1,86,100
Conjeeveram	9,400	(5) 1,57,000	3,570	2,05,390	2,38,925	6,14,285
Madurántakam	9,550	10,400	5,200	91,400	1,52,100	2,68,650
Total ..	38,075	2,08,310	23,445	6,16,605	11,50,820	20,37,255

(1) Each of these figures will be increased to at least 10,000.
(2) Will rise to 10,000.
(3) Carefully prepared.
(4) Will rise to 12,000.
(5) Includes water-supply project to the town.
(6) Each figure will be raised to 5,000.

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4. *Column* 2—*Water-supply.*—I have called for larger lists, to be revised especially for the quarters inhabited by the lower castes.

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NOTE.—The amounts noted in these two columns may be spent if he desires by or under the supervision of the Sanitary Commissioner, as a sanitary expert considers that at present "money in 99 cases out of 100 is either actually squandered or is applied to comparatively useless purposes" —G.O., dated 16th January 1891, No. 79 L.

6. *Column* 4—*New Roads.*—I have struck out many ridiculous suggestions, but I am aware that the list presents a sufficiently bloated appearance, for the District Board would have no money to keep up any large additions to the present mileage. From my recent experience of the Main Division and my remembrance of the Sub-Division, I should say we do not want more than 100 miles of new road at Rs. 500 a mile (50,000) and 300 miles of village roads put in passable order at Rs. 50 a mile (15,000) : to leave a margin, I am returning the lists for revision with a limit of one lakh.

7. *Column* 5—*Metalling or remetalling existing roads and stacking sufficient metal for one year.*—The figures are taken from estimates prepared by the Local Fund Engineer, and concern 682 miles.

8. The totals of the list come to nearly 20½ lakhs, being sufficient to give work at 2 annas a day for 325 working days to 50,000 persons (5 per cent. of a million).

9. If a famine should break out, I think we should first exhaust all the major and minor irrigation works in the district; then metal or remetal the existing roads, many of which are in very bad order, and stack a year's metal along them; and at a later stage put in hand the new roads, and improve the village roads, village water-supply and the village-sites.

Resolution—dated 2nd March 1891, No. 112.

Submitted for the information of Government.

2. The revised lists called for in paragraph 3 of the letter are awaited.

3. The Board agrees with the Collector in his remarks in paragraph 9. A detailed list of the major and minor irrigation works which the Collector would recommend for execution in the most affected portions of the Ponnéri and Tiruvallúr taluks should be submitted without delay. It should also be stated what works the District and Taluk Boards are prepared to carry out in these taluks from the 1st April next.

(A true Copy and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

To the Secretary to Government, Revenue Department,
with list, in original.
„ Collector of the Chingleput District.

Order—dated 11th March 1891, No. 1691, Mis., Revenue.

Recorded with reference to G.O., dated 24th February 1891, No. 140.

2. It does not appear whether estimates are ready for any of the works entered in the list. Without estimates programmes are useless. The programme called for in paragraph 3 of the Board's Proceedings should be submitted without delay.

(True Extract.)

(Signed) C. A. GALTON,
Secretary to Government.

To the Commissioner of Revenue Settlement, Land Records and Agriculture, with list.

Read—also the following Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), dated 23rd March 1891, No. 157:—

Mr. Clogstoun.

Read—the following letter from J. H. A. TREMENHEERE, Esq., Acting Collector of the Chingleput District, to the Secretary to the Commissioner of Revenue Settlement and Director of the Department of Land Records and Agriculture, dated Saidápet, 18th March 1891, Ref. on No. 151-S.L.R. G. & B.:—

With reference to paragraph 3 of Board's Proceedings, dated 2nd March 1891, No. 112, I have the honor to submit a detailed list of the major and minor irrigation works which I would recommend for execution as they may become necessary in the most affected parts of Ponnéri and Tiruvallúr taluks, together with a statement

showing the works the District and Taluk Boards are prepared to carry out in these taluks.

2. I also enclose a list of works (major and minor irrigation) to be executed in the taluks of Saidápet,* Chingleput and Madurántakam in the portions where distress is felt.

* Minor irrigation list will follow.

Resolution—dated 23rd March 1891, No. 157.

The detailed lists will be submitted to Government in continuation of Board's Proceedings, dated 2nd March 1891, No. 112.

2. The estimated cost of the works included in the lists and the number of men for whom employment can be found on them for two months at an average wage of annas 2 per diem are as under:—

Taluks.	Cost. Rs.	Laborers, No.
Ponnéri	58,705	7,827
Tiruvallúr	46,855	6,247
Saidápet	21,736	2,898
Chingleput	19,720	2,629
Madurántakam	42,100	5,613
Total ...	1,89,116	25,214

3. The list of minor irrigation works promised for the Saidápet taluk is awaited.

4. The works for which estimates are ready should have been specified in the lists. In the list of works for the Chingleput taluk no estimate is entered against the diversion of the canal, Covelong, Sadras.

(A true Copy and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

To the Secretary to Government, Revenue Department,
with list of works.

Copy to the Collector of the Chingleput District.

Order—dated 24th March 1891, No. 238, Revenue.

Miscellaneous.

Recorded.

2. The Collector should at once report for what works estimates are ready and what steps he is taking to have estimates prepared for the remainder.

3. The Public Works Department is requested to furnish information on this point as regards the Major Irrigation Works.

(True Extract.)

(Signed) C. A. GALTON,
Secretary to Government.

To the Commissioner of Revenue Settlement, Land Records and Agriculture.
„ the Collector of Chingleput.
„ the Public Works Department.

Exd. P. L. Pereira.

80 Copies.

Govt. of {1891} Madras.

REVENUE.

Issued

Recd. *Encl.*

G.O., 24th March 1891, No. 238.

BDC 9035 Dt 1-4-91

MARCH.

Season.

Recording Board's Proceedings submitting the detailed lists of works recommended for execution in the affected taluks of the Chingleput district and requesting the Public Works Department to furnish certain information regarding Major Irrigation Works.