11416

Govt. of {18 } Madras.

PUBLIC WORKS.

Dated 6/12/90

Read. / Encl.

G.O., 4th Dec 1890 No. 1936/1937 R

Nellore-Guntur and Madras-Gudur Surveys

100/v. 90/ Ordered that the particulars as to the actual composition of the sums of Rs 20000 and Rs 12,155 respectively sanctioned for the —— be forwarded to the Govt: of India.

Nellore-Guntur and Madras-Gudur Surveys

Forwarding particulars as to the actual composition of the sums of Rs 20,000 & Rs 12,155 respectively sanctioned for the ——.

E.2.C/4/12/90

4TH DECEMBER 1890, No. 1936 R., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Railway.

Read the following papers:—

From the Officiating Under-Secretary to the Government of India, Public Works Department (Railway Construction), to the Joint Secretary to the Government of Madras, Public Works Department, Railway Branch, dated Simla, 10th October 1890, No. 932 R.C.

I am directed to acknowledge the receipt of your No. 1328 R., dated 6th September 1890, forwarding a copy of the Proceedings of the Government of Madras regarding an extension of the Nellore-Guntúr Railway survey, so as to include a direct line to Madras, at a cost of Rs. 12,155, in addition to the sum of Rs. 20,000 already sanctioned by the Government of Madras—*vide* your No. 176 R., dated 4th February 1890.

2. In reply, I am to say that, as the cost of the survey seems somewhat low compared to what similar surveys elsewhere have cost, the Government of India will be glad to be furnished, for its own information, with particulars as to the actual composition of this sum of Rs. 12,155, and also of the sum of Rs. 20,000 previously granted, and as to the salaries and allowances of any establishment—supervising or otherwise—employed on the survey or on the preparation of the project and estimates, though not charged to the work; as well as with a list of the instruments used whether charged to this estimate or not.

No. 4382 C.

Referred to the Consulting Engineer for Railways for compliance.

(Signed) T. GRACEY, Lieut.-Colonel, R.E.,
Offg. Joint Secy. to Govt., P.W.D.,
Railway Branch.

28th October 1890.

From the Consulting Engineer for Railways, dated Madras, 28th November 1890, No. 851.

From the Acting Agent and Manager, Madras Railway Company, to the Consulting Engineer for Railways, dated Madras, 26th November 1890, No. 6630/1229.

[Your No. 980, dated 30th October 1890.]

In compliance with your request for particulars of the actual composition of the sums of, respectively, Rs. 12,155 and Rs. 20,000 sanctioned for surveys between Madras and Bezváda, I have the honor to enclose, for your information, copy of a report from the Chief Engineer.

ENCLOSURES.

From the Chief Engineer, Madras Railway Company, to the Acting Agent and Manager, dated Madras, 20th November 1890, No. 1486.

Nellore-Guntúr and Madras-Gúdúr Surveys.

[Your endorsement No. 6630/8570, of 3rd instant, on Consulting Engineer's letter No. 980, of 30th October 1890, forwarding copy of letter from the Government of India embodied in G.O., No. 4382 C., of 28th October 1890.]

I have the pleasure to forward two statements giving particulars as to the actual composition of the sums of Rs. 20,000 and Rs. 12,155 sanctioned by Government for the Nellore-Guntúr and Madras-Gúdúr surveys, respectively.

2. In the remarks column are entered particulars and amount of the Deputy Chief Engineer's salary which was not charged to the work as it was arranged, when originally framing the estimate, that the cost of supervision and reconnoissance by this officer should not be charged to the survey but only the amount representing his travelling allowance for the period during which he was absent on the survey.

3. A list of the instruments, &c. (with their book value), used on the survey is also attached and it was considered advisable not to burden the survey with the cost of these items, as they formed part of the company's stock in hand.

4. The accounts of the Nellore-Guntúr survey cannot be closed until the compensation for trees felled and damage sustained by crops during the survey has been disbursed; and statements of these particulars have not yet been received from the Collectors of the Nellore and Kistna districts.

NELLORE-GUNTUR SURVEY.

STATEMENT showing details of the expenditure incurred on different sub-heads of the Accounts in connection with the Nellore-Guntúr Survey.

Particulars.	Cash.	Stores.	Amount.	Total.	Remarks.
CONSTRUCTION ACCOUNTS.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	
I. Preliminary Expenses.					
Survey Expenses.					
Maps	371 2 0	..	371 2 0		
Section and drawing paper, survey books.	439 4 4	..	439 4 4		
Stationery, &c.	..	87 10 3	87 10 3		
Masonry and wooden pegs ..	1,198 4 8	..	1,198 4 8		
Clearing jungle	1,740 0 0	..	1,740 0 0		
Carts hired for carrying tents and survey materials, &c.	703 8 6	..	703 8 6		
Boats hired for carrying tents and survey materials, &c.	181 0 0	..	181 0 0		
Repairs to tents and other materials required for the survey.	227 15 10	187 4 6	415 4 4		
Railway charges for tents and other stores, also tickets for Engineers and other subordinates and lascars, &c.	1,070 7 7	..	1,070 7 7		
Premium paid on treasury bills.	50 14 0	..	50 14 0		
Total ..	5,982 8 11	274 14 9	6,257 7 8	6,257 7 8	
Plant.					
Tents	1,200 0 0	..	1,200 0 0		
Surveying instruments consisting of levelling staffs and other stores, tools, &c.	..	593 0 0	593 0 0		
Ponies	240 0 0	..	240 0 0		
Total ..	1,440 0 0	593 0 0	2,033 0 0	2,033 0 0	
Establishment including salaries, allowances and contingencies.					
Mr. H. C. West, Deputy Chief Engineer, allowance.	1,183 0 0	..	1,183 0 0		
Mr. H. J. Parsons, Assistant Engineer, salary and allowances	2,871 3 3	..	2,871 3 3		
Mr. E. W. Stoney, Acting Deputy Chief Engineer, special allowance.	761 0 11	..	761 0 11		
Mr. J. M. Ewing, Reserve Engineer, 3rd and 4th Divisions, South-West Line, allowance.	264 4 7	..	264 4 7		
Mr. J. E. Dalgairns, Engineering Assistant, salary and allowance.	1,613 9 9	..	1,613 9 9		
Mr. C. Davaroya Pillai, Surveyor, salary and allowance	873 5 9	..	873 5 9		

Items not charged in the accounts.

	RS.
Deputy Chief Engineer's salary from 13th February to 30th Sept. 1890, at Rs. 1,163-10-2 per mensem ..	8,810
Levels, theodolites and drawing instruments, &c., lent to the survey as per list	705
Total ..	9,515

Statement showing details of the expenditure incurred on different sub-heads, &c.—*cont.*

Particulars.	Cash.	Stores.	Amount.	Total.	Remarks.
Establishment including salaries, allowances and contingencies—cont.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	*Credits.*
One writer, salary and allowance.	401 0 0	..	401 0 0		The following credits will be given during the current month:—
Wages to Survey lascars ..	1,451 5 4	..	1,451 5 4		
Contingent expenses ..	86 3 6	..	86 3 6		
	9,505 1 1	..	9,505 1 1	9,505 1 1	One-third value of tents transferred to Madras-Gúdúr survey .. .. RS. 400
Total ..	16,927 10 0	867 14 9	17,795 8 9	17,795 8 9	
Balance available to meet compensation for trees felled and crops damaged and Draftsmen's salaries in preparation of plans.	..	..	..	2,204 7 3	One-third value of ranging rods, survey plants, &c. .. 198
					Total .. 598
Total ..	..	..	..	20,000 0 0	

MADRAS,
19th November 1890.

(Signed) H. R. P. CARTER,
Chief Engineer.

(Signed) F. H. TREVITHICK,
Acting Agent and Manager.

MADRAS-GUDUR SURVEY.

STATEMENT showing detail estimate of expenditure chargeable to the different sub-heads of the Accounts in connection with the Madras-Gúdúr Survey.

Particulars.	Amount.	Total.	Remarks.
CONSTRUCTION ACCOUNTS.	RS.	RS.	
I. Preliminary Expenses.			
Survey Expenses.			
Maps	377		
Cart hire for carrying tents and other survey materials, &c.	650		
Clearing jungle	1,071		
Masonry pegs	2,300		
Wooden do. bamboos, &c.	1,000		
Sundry stores	150		
Miscellaneous expenses	402		
		5,950	
Plant.			
One-third value of tents transferred from Nellore-Guntúr survey	400		
Tools, plant, &c., including one-third value (viz., Rs. 198) of survey plant transferred from Nellore-Guntúr survey	498		
		898	The levels, theodolites and other materials lent to the Nellore-Guntúr survey are also used on this survey.
Establishment including salaries, allowances and contingencies.			
Mr. H. C. West, Deputy Chief Engineer, allowance.	573		
Mr. E. W. Stoney, Acting Deputy Chief Engineer, allowance	97		

Statement showing detail estimate of expenditure chargeable to the different sub-heads, &c.—*cont.*

Particulars.	Amount.	Total.	Remarks.
Establishment including salaries, allowances and contingencies—cont.	RS.	RS.	*Items not charged in the Accounts.*
Mr. H. J. Parsons, Engineer in charge, salary and allowance	1,552		Deputy Chief Engineer's salary for 26 days in October at Rs. 1,163-10-2 per mensem—Rs 975-15-3.
Mr. J. E. Dalgairns, Engineering Assistant, salary and allowance	1,060		
C. Davaroya Pillai, Surveyer, salary and allowance	409		
Mr. C. H. R. Mortin, Surveyor, salary and allowance	364		
One writer, salary and allowance	197		
Wages to Survey lascars	950		
Contingent expenses	105		
		5,307	
Total ...	...	12,155	

(Signed) H. R. P. CARTER,
Chief Engineer.

MADRAS,
19th November 1890.

(Signed) F. H. TREVITHICK,
Acting Agent and Manager.

LIST of stores issued for Nellore-Guntúr Survey without value between January and August 1890.

Description.	Quantity. NO.	Value. RS.	A.	P.
Levels	3	300	0	0
Theodolites	2	260	0	0
Surveying chains	1	6	0	0
Arrows	12	1	8	0
Mathematical instruments	1	16	0	0
Leather tapes	2	8	0	0
Brass plumb, Bobs	2	2	0	0
Ruler, parallel, brass	1	6	0	0
Straight edge, steel	1	1	4	0
T. square, wooden	1	0	9	9
Squares, set	2	0	8	0
Curves, Radii, in a case	1	20	0	0
Protractor, circular	1	6	0	0
Weights, paper, lead	6	1	3	0
Press, copying, wooden	1	0	8	0
Scales, boxwood, in leather case	1	0	7	0
Chest, stationery	1	7	8	0
Revolver, Colt's	1	15	0	0
Pouches, leather	3	3	15	0
Hammer, sledge, with handle	1	1	0	0
Do. hand	1	0	7	0
Muskets, with bayonets	3	34	8	0
Crowbars	2	1	0	0
Table, in four parts	2	8	0	0
Chairs, camp, rattan	2	4	0	0
Total ...		705	5	9

(Signed) H. R. P. CARTER,
Chief Engineer.

MADRAS,
20th November 1890.

(Signed) F. H. TREVITHICK,
Acting Agent and Manager.

Submitted to Government, with reference to Public Works Department endorsement No. 4382 C., dated 28th October 1890 (herewith returned).

2. The details of expenditure on the Nellore-Guntúr survey are given and it will be seen that the cheapness of the survey is entirely due to the fact that only a trifling charge for supervising and office establishment has been debited against it. The supervising and office establishment of the Madras Railway appear to have been sufficient to cope with the work of the survey in addition to their regular duties with very little outside assistance.

ORDER—dated 4th December 1890, No. 1936 R., Public Works.

Ordered to be forwarded to the Government of India, with reference to its letter No. 932 R.C., dated 10th October 1890.

(Here enter No. 1937 R., dated 4th December 1890.)

(True Extract.)

(Signed) T. GRACEY, Lieut.-Colonel, R.E.,
Offg. Joint Secy. to Govt., P.W.D.,
Railway Branch.

To the Consulting Engineer for Railways.
" Examiner, Guaranteed Railway Accounts.
" " Public Works Accounts.
" Financial Department.

ENDORSEMENT—dated 4th December 1890, No. 1937 R., Public Works.

Forwarded.

(By Order.)

Lieut.-Colonel, R.E.,
Offg. Joint Secy. to Govt., P.W.D.,
Railway Branch.

Exd. T. K. Narayana Aiyangar.
Spare Copies

RAILWAY.

Govt. of {1890} Madras.

PUBLIC WORKS.

Dated December, 4th.

Recd. *Encl.*

G.O., 4th Dec. 1890, Nos. 1936 R., 1937 R.

DECEMBER.

Nellore-Guntur and Madras-Gudur Surveys

Forwarding particulars as to the actual composition of the sums of Rs. 20,000 and Rs. 12,155 respectively sanctioned for the —.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

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Read the following papers:—

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2. In reply, I am to say that, as the cost of the survey seems somewhat low compared to what similar surveys elsewhere have cost, the Government of India will be glad to be furnished, for its own information, with particulars as to the actual composition of this sum of Rs. 12,155, and also of the sum of Rs. 20,000 previously granted, and as to the salaries and allowances of any establishment—supervising or otherwise—employed on the survey or on the preparation of the project and estimates, though not charged to the work; as well as with a list of the instruments used whether charged to this estimate or not.

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28th October 1890.

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NELLORE-GUNTUR SURVEY.

STATEMENT showing details of the expenditure incurred on different sub-heads of the Accounts in connection with the Nellore-Guntúr Survey.

Particulars.	Cash.	Stores.	Amount.	Total.	Remarks.
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Masonry and wooden pegs ..	1,198 4 8	..	1,198 4 8		
Clearing jungle	1,740 0 0	..	1,740 0 0		
Carts hired for carrying tents and survey materials, &c.	703 8 6	..	703 8 6		
Boats hired for carrying tents and survey materials, &c.	181 0 0	..	181 0 0		
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Railway charges for tents and other stores, also tickets for Engineers and other subordinates and lascars, &c.	1,070 7 7	..	1,070 7 7		
Premium paid on treasury bills.	50 14 0	..	50 14 0		
Total ..	5,982 8 11	274 14 9	6,257 7 8	6,257 7 8	
Plant.					
Tents	1,200 0 0	..	1,200 0 0		
Surveying instruments consisting of levelling staffs and other stores, tools, &c.	..	593 0 0	593 0 0		
Ponies	240 0 0	..	240 0 0		
Total ..	1,440 0 0	593 0 0	2,033 0 0	2,033 0 0	
Establishment including salaries, allowances and contingencies.					
Mr. H. C. West, Deputy Chief Engineer, allowance.	1,183 0 0	..	1,183 0 0		
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Mr. E. W. Stoney, Acting Deputy Chief Engineer, special allowance,	761 0 11	..	761 0 11		
Mr. J. M. Ewing, Reserve Engineer, 3rd and 4th Divisions, South-West Line, allowance.	264 4 7	..	264 4 7		
Mr. J. E. Dalgairns, Engineering Assistant, salary and allowance.	1,613 9 9	..	1,613 9 9		
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Items not charged in the accounts.

	RS.
Deputy Chief Engineer's salary from 13th February to 30th Sept. 1890, at Rs. 1,163-10-2 per mensem ..	8,810
Levels, theodolites and drawing instruments, &c., lent to the survey as per list	705
Total ..	9,515

Statement showing details of the expenditure incurred on different sub-heads, &c.—*cont.*

Particulars.	Cash.	Stores.	Amount.	Total.	Remarks.
Establishment including salaries, allowances and contingencies—cont.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	*Credits.*
One writer, salary and allowance.	401 0 0	..	401 0 0		The following credits will be given during the current month:—
Wages to Survey lascars ..	1,451 5 4	..	1,451 5 4		
Contingent expenses ..	86 3 6	..	86 3 6		One-third value of tents transferred to Madras-Gúdúr survey .. .. RS. 400
	9,505 1 1	..	9,505 1 1	9,505 1 1	
Total ..	16,927 10 0	867 14 9	17,795 8 9	17,795 8 9	One-third value of ranging rods, survey plants, &c. .. 198
Balance available to meet compensation for trees felled and crops damaged and Draftsmen's salaries in preparation of plans.	..	..	..	2,204 7 3	Total .. 598
Total ..	..	..	..	20,000 0 0	

MADRAS,
19th November 1890.

(Signed) H. R. P. CARTER,
Chief Engineer.

(Signed) F. H. TREVITHICK,
Acting Agent and Manager.

MADRAS-GUDUR SURVEY.

STATEMENT showing detail estimate of expenditure chargeable to the different sub-heads of the Accounts in connection with the Madras-Gúdúr Survey.

Particulars.	Amount.	Total.	Remarks.
CONSTRUCTION ACCOUNTS.	RS.	RS.	
I. Preliminary Expenses.			
Survey Expenses.			
Maps	377		
Cart hire for carrying tents and other survey materials, &c.	650		
Clearing jungle	1,071		
Masonry pegs	2,300		
Wooden do. bamboos, &c.	1,000		
Sundry stores	150		
Miscellaneous expenses	402		
		5,950	
Plant.			
One-third value of tents transferred from Nellore-Guntúr survey	400		
Tools, plant, &c., including one-third value (viz., Rs. 198) of survey plant transferred from Nellore-Guntúr survey	498		
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Particulars.	Amount.	Total.	Remarks.
Establishment including salaries, allowances and contingencies—cont.	RS.	RS.	*Items not charged in the Accounts.*
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One writer, salary and allowance	197		
Wages to Survey lascars	950		
Contingent expenses	105		
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Total ...	...	12,155	

(Signed) H. R. P. CARTER,
Chief Engineer.

MADRAS,
19th November 1890.

(Signed) F. H. TREVITHICK,
Acting Agent and Manager.

LIST of stores issued for Nellore-Guntúr Survey without value between January and August 1890.

Description.	Quantity.	Value.		
	NO.	RS.	A.	P.
Levels	3	300	0	0
Theodolites	2	260	0	0
Surveying chains	1	6	0	0
Arrows	12	1	8	0
Mathematical instruments	1	16	0	0
Leather tapes	2	8	0	0
Brass plumb, Bobs	2	2	0	0
Ruler, parallel, brass	1	6	0	0
Straight edge, steel	1	1	4	0
T. square, wooden	1	0	9	9
Squares, set	2	0	8	0
Curves, Radii, in a case	1	20	0	0
Protractor, circular	1	6	0	0
Weights, paper, lead	6	1	3	0
Press, copying, wooden	1	0	8	0
Scales, boxwood, in leather case	1	0	7	0
Chest, stationery	1	7	8	0
Revolver, Colt's	1	15	0	0
Pouches, leather	3	3	15	0
Hammer, sledge, with handle	1	1	0	0
Do. hand	1	0	7	0
Muskets, with bayonets	3	34	8	0
Crowbars	2	1	0	0
Table, in four parts	2	8	0	0
Chairs, camp, rattan	2	4	0	0
Total ...		705	5	9

(Signed) H. R. P. CARTER,
Chief Engineer.

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Acting Agent and Manager.

Submitted to Government, with reference to Public Works Department endorsement No. 4382 C., dated 28th October 1890 (herewith returned).

2. The details of expenditure on the Nellore-Guntúr survey are given and it will be seen that the cheapness of the survey is entirely due to the fact that only a trifling charge for supervising and office establishment has been debited against it. The supervising and office establishment of the Madras Railway appear to have been sufficient to cope with the work of the survey in addition to their regular duties with very little outside assistance.

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(Here enter No. 1937 R., dated 4th December 1890.)

(True Extract,)

Major, R.E.,
Under-Secy. to Govt., P.W.D.,
Railway Branch.

To the Consulting Engineer for Railways.
" Examiner, Guaranteed Railway Accounts.
" " Public Works Accounts.
" Financial Department.

Exd. T. K. Narayana Aiyangar.
Spare Copies

RAILWAY.

Govt. of {1890} Madras.

PUBLIC WORKS.

Dated December, 4th.

Recd. *Encl.*

G.O., 4th Dec. 1890, No. 1936 R.

DECEMBER.

Nellore-Guntur and Madras-Gudur Surveys

Ordered that the particulars as to the actual composition of the sums of Rs. 20,000 and Rs. 12,155 respectively sanctioned for the — be forwarded to the Government of India.

No. 952 R. C.

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

RAILWAY Construction.

All communications should be addressed to the Secretary.

To

The Joint Secretary to the Government of Madras

(Railway Branch), Public Works Department.

Simla, the 10 October 1890.

Sir,

I am directed to acknowledge the receipt of your No 1328 R dated 6 September 1890, forwarding a Copy of the Proceedings of the Government of Madras regarding an extension of the Nellore-Guntur Railway Survey, so as to include a direct line to Madras, at a cost of Rs 12,155 in addition to the sum of Rs 20,00 already sanctioned by the Government of Madras vide your No 176 R. dated 4 February 1890.

2. In reply I am to say that as the cost of the Survey seems somewhat low compared to what similar Surveys elsewhere have cost the Government of India will be glad to be furnished, for its own information, with particulars as to the actual Composition of this sum of Rs 12,155/, and also of the sum of Rs 20,000/

Junior

previously granted, and as to the salaries and allowances of any establishment, superintending or otherwise, employed on the survey or on the preparation of the project and estimates though not charged to the work; as well as with a list of the instruments used whether charged to this estimate or not.

I have the honour to be,
Sir,
Your Most Obedient Servant,

T. D. Hobart

Offg Under Secretary.

Documents accompanying

Rs. 175.176 Rs 4.2.0
" 1327.28 Rs 6.4.0

No. 4382. Cdy 28 October 90

Referred to the Consulting Engineer for Railways for compliance.—

Macy Actg Secy: Rly
Offg Jt Secy: to Govt. P.W.D. Rly: Branch

Ld. 28/10/90

27/10

(No. II.)
No. 6630
1229

MADRAS RAILWAY.

AGENT AND MANAGER'S OFFICE,

Madras, 26th November 1890

From

The Ag. Agent and Manager.

To

The Consulting Engineer for Railways.

SIR,

Your No 980 dated 30th October 1890

In compliance with your request for particulars of the actual composition of the sums of respectively Rs 12,155 and Rs 20,000 sanctioned for Surveys between Madras and Bezwada I have the honour to enclose for your information copy of a report from the Chief Engineer.

I have the honour to be
Sir
Your most Obedient Servant

Actg. Agent & Manager.

REGISTER
No. 410
FILE
No.

En 4.

85
P10 11416/90

MADRAS RAILWAY.

From

The Agent and Manager.

To

The Consulting Engineer
for Railways.

Dated 26 November 1890

Recd.

No. 6630/1289

Particulars of the actual Composition of the sums sanctioned for the Nellore-Gunter and Madras-Gudur Surveys

No. 1486.

Madras Railway Company
Chief Engineer's Office
Madras 20th November 1890.

The Actg Agent and Manager

Dear Sir,

Nellore-Gunter and Madras-Gudur Surveys

Your endorsement No. 6630/8570 of 3d instant on Consulting Engineer's letter No. 980 of 30th October 1890 forwarding copy of letter from the Government of India embodied in G.O. No. 4382C of 28th October 1890.

1. I have the pleasure to forward 2 statements giving particulars as to the actual composition of the sums of Rs 20,000 and Rs 12,155 sanctioned by Government for the Nellore-Gunter and Madras-Gudur Surveys respectively.

2. In the remarks columns are entered particulars and amounts of

of the Deputy Chief Engineer's salary which was not charged to the work as it was arranged when originally framing the estmiate, that the cost of supervision and reconnoissance by this officer, should not be charged to the survey but only the amount representing his travelling allowance for the period during which he was absent on the survey.

3. A list of the instruments &c (with their book value) used on the survey is also attached - and it was considered advisable not to burden the survey with the cost of these items, as they formed part of the Company's stock in hand.

4. The accounts of the Kellore Guntur survey cannot be closed until the compensation for trees felled, and damage sustained by crops, during the survey has been

been disbursed. and statements of
these particulars have not yet been
received from the Collectors of the Nellore
and Kristna Districts.

Yours faithfully
(Sd) H. K. P. Carter
Chief Engineer

/True Copy/

H. Leonhirdt
Ag Agent & Manager

Statement showing details of the Expenditure incurred on different Sub heads of the Accounts in Connection with the Nellore-Guntur Survey

Particulars	Cash	Stores	Amount	Total	Remarks
Construction Accounts					
I Preliminary Expenses					
Survey Expenses					
Maps	371 2 -	- - -	371 2 -		
Section & Drawing paper, Survey Books &c	439 4 4	- - -	439 4 4		
Stationery &c	- - -	87 10 3	87 10 3		
Masonry & wooden Pegs	1198 4 8	- - -	1198 4 8		
Clearing Jungle	1740 - -	- - -	1740 - -		
Carts hired for Carrying Tents & Survey Materials &c	703 8 6	- - -	703 8 6		
Boats ___do___do___	181 - -	- - -	181 - -		
Repairs to Tents & other materials required for the Survey	227 15 10	187 4 6	415 4 4		
Railway charges for Tents and other Stores also Tickets for Engineers & other Subordinates & Lascars &c	1070 7 7	- - -	1070 7 7		
Premium paid on Treasury Bills	50 14 -	- - -	50 14 -		
Rs	5982 8 11	274 14 9	6257 7 8	6257 7 8	
Plant					
Tents	1200 - -	- - -	1200 - -		
Surveying Instruments consisting of Levelling staffs & other stores, Tools &c	- - -	593 - -	593 - -		
Ponies	240 - -	- - -	240 - -		
Rs	1440 - -	593 - -	2033 - -	2033 - -	
			carried over	8290 7 8	

Particulars	Cash	Stores	Amount	Total	Remarks
			Brought over	8290 7 8	
Establishment including Salaries allowances and Contingencies					**Items not charged in the accounts**
Mr. H. C. Best by Chief Engr Allowance	1183 - -		1183 - -		By chief Engineers Salary from 13th Feby to 30th September /90 at Rs 1163-10-2 per Mensem Rs 8810-0-0
" H. J. Parsons Aplt Engr Salary & Allowance	2871 3 3		2871 3 3		Levels Theodolites & drawing instruments & sent to the Survey as Estab Rs 705-0-0
" E. W. Stoney Ag: by Ch: Engr Special Allowance	761 - 11		761 - 11		
" J. M. Ewing Res: Engineer 3rd & 4th Divs: S. R. Line Allowance	2644 7		2644 7		**Total Rupees 9515-0-0**
" J. E. Dalgairns Engg: Aplt Salary & allowance	1613 9 9		1613 9 9		**Credits**
" C Davaroja Pillay Surveyor Salary & allowance	873 5 9		873 5 9		The following Credits will be given during the current month
One Writer do	401 - -		401 - -		1/3 Value of Tents transferred to Madras - Gudur Survey Rs 400-0-0
Wages to Survey Lascars	1451 5 4		1451 5 4		1/3 Value of Ranging rods, Survey Plants &c R 198-0-0
Contingent Expenses	86 3 6		86 3 6		
Rs	9505 1 1		9505 1 1	9505 1 1	**Total Rupees 598-0-0**
Total Rupees	16927 10 -	867 14 9	17795 8 9	17795 8 9	
Balance available to meet Compensation for trees felled & Crops damaged & Draftsmens Salaries in preparation of plans				22047 3	
			Total Rupees	20000 - -	

Madras Railway
Chief Engrs office
Madras 19th Nov/90

J. H. Dalrymple
A.g. Agent & Manager

H. C. Best
Chief Engineer

List of Stores issued for Nellore Guntur Survey without value between January and August 1890.

Description	Quantity	Value
Levels	No 3	300 " "
Theodolites	" 2	260 " "
Surveying chains	" 1	6 " "
Arrows	" 12	1 8 "
Mathamatical Instrument	" 1	16 " "
Leather tapes	" 2	8 " "
Brass Plumb Bobs	" 2	2 " "
Ruler Parallel Brass	" 1	6 " "
Straight edge Steel	" 1	1 4 "
I. Square wooden	" 1	" 9 9
Squares Set	" 2	" 8 "
Curves Radii in a case	" 1	20 " "
Protractor Circular	" 1	6 " "
Weights Paper lead	" 6	1 3 "
Press copying wooden	" 1	" 8 "
Scales Boxwood in leathercase	" 1	" 7 "
Chest Stationery	" 1	7 8 "
Revolver Colts	" 1	15 " "
Pouches leather	" 3	3 15 "
Hammer Sledge with handle	" 1	1 " "
do Hand	" 1	" 7 "
Muskets with bayonets	" 3	34 8 "
Crowbars	" 2	1 " "
Table in 4 parts	" 2	8 " "
Chairs camp Rattan	" 2	4 " "
Total Rupees		705 5 9

Madras Railway
Chief Engineer's Office
Madras 20th November 90

J. H. Crawford
Ag: Agent & Manager

H. W. Cartes
Chief Engineer.

Statement showing detail Estimate of Expenditure in Connection with the Madras Gudur Survey

Madras Gudur Survey
Chargeable to the different Sub heads of the Accounts

Particulars	Amount			Total		
Construction Accounts						
I Preliminary Expenses						
Survey Expenses						
Maps	377	-	-			
Cart hire for Carrying Tents & other Survey Materials &c	650	-	-			
Clearing Jungle	1071	-	-			
Masonry Pegs	2300	-	-			
Wooden Pegs, Bamboos &c	1000	-	-			
Sundry Stores	150	-	-			
Miscellaneous Expenses	402	-	-	5950	-	-
Plant						
1/3 value of Tents transferred from Nellore Guntur Survey	400	-	-			
Tools, plant &c including 1/3 value (viz Rs 1498) of Survey plant transferred from Nellore Guntur Survey	498	-	-	898	-	-
Establishment including salaries allowances and Contingencies						
Mr A. C. Wesb Dy Chief Engineer Allowance	573	-	-			
" E. W. Stoney Ag: Dy Chief Engineer Allowance	97	-	-			
" A. J. Parsons Engr: in charge Salary & Allowance	1552	-	-			
Carried over	2222	-	-	6848	-	-

The Levels Theodolites & other Materials lent to the Nellore-Guntur Survey are also used on this Survey

Items not charged in the accounts

Dy: Chief Engineer's Salary for 26 days in October at Rs 1163-10-2 per mensem Rs 975-15-3

Particulars	Amount		Total	
Brought over	2222	- -	6848	- -
Establishment &c (Contd)				
Mr. J. C. Dalgairns Engg: Asstt				
Saldry & allowance	1060	- -		
C. Davarbya Pillay Surveyor				
Saldry & allowance	409	- -		
Mr. C. A. R. Morkin Surveyor				
Salary & allowance	364	- -		
One Writer do	197	- -		
Wages to Survey Lascars	950	- -		
Contingent Expenses	105	- -	5307	- -
Total Rupees			12,155	- -

Madras Railway
Chief Engrs offic
Madras 9th Nov/90

Ag: Agent & Manager

K K P Carter
Chief Engineer

Form No. 2.

PUBLIC WORKS DEPARTMENT.

OFFICE OF CONSULTING ENGINEER FOR RAILWAYS,

Madras, 28th November 1890.

Letter No: 6630/1229, dated 26th November, from the Agent and Manager, Madras Railway, and enclosures.

12

No. 851.

SUBMITTED _____ to _____ Government, with reference to P.W.D. endorsement No: 4382 C, dated 28th October 1890 (herewith returned).

2. The details of expenditures on the Nellore-Gudur Survey are given and it will be seen that the cheapness of the survey is entirely due to the fact that only a tripling charge for supervising and office establishment has been debited against it. The supervising and office establishment of the Madras Railway appears to have been

sufficient to cope with the work of the survey in addition to their regular duties with very little outside assistance.

R.B.G. Shelley Captain R.E.
In Off. Consy. Engr. for Rys.
H.Q.

Form No. 3.

No. 1936 R Dy 4th Dec/90.

H.S. 2/12/90
Ordered to be forwarded to the Govt. of India with reference to its letter No. 932 R.C. dated 10th October 1890.-

H.E. No. 1937 R Dy 4th Dec. 90
Forwarded.

Dy
Off: R

No 4716 dy 17.11.90
" 4304 dy 23.10.90.
" 3622 dy 4.9.90
" 1062 dy 2.10.89.

Issued
17/12

A 17/12

To
The Consulting Engr for Rys.
" Govt Rly Circle
" do. P. W. Circle.

From
THE CONSULTING ENGINEER
FOR RAILWAYS,
MADRAS.

No. 851

Dated 28th November 1890.
Received

No. of Enclosures.

Subject.

Particulars of the actual Composition of the sums sanctioned for the surveys between Madras and Bezwada by the Madras Railway, for transmission to the Govt. of India

A

No. 1936. 37 R Dy 4th Dec/90.

P.W. Cir. 11416