

Public Works (1894) Department.

RAILWAY BRANCH.

G.O., No. 352-3 R

DATED 14th June

[Despatch Abstract.]

Beguada-Madras Railway Survey:— Ordered

*that the progress report of the — to end of May 1894
be forwarded to the Govt of India.*

Forwarded accordingly

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.
	1019	R	16-4-90				
	72-3	R	29-1-94				
	87	R	10-2-94				
	155	R	12-3-94				
	226	R	11-4-94				
	286	R	5-5-94				

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

Enclosure No. 1 to Railway Circular No. 6 of 1890.

No. 71, dated Camp Sata, 14 miles South-South-West of Jeysalmir, the 14th February 1890.

From—The Engineer-in-Chief, Bikanir Desert Railway Survey,

To—The Director General of Railways.

1. I have the honour to report the following progress on the surveys for the month of January 1890.

2. *No. 1 Party, Delhi westwards.*—No. 1 Party under Mr. S. Brounger have reached mile 173, west of Delhi, having surveyed and levelled in detail during the month from 6 to 173 miles, equal to 111 miles, or at the mean rate of 3.6 miles daily. The route passed following towns: Surajgurh 94 mile, Chirawn 102, Bagur 110, Jhunjhun 117, Mundawa 134, Futehpur 146.

The spill waters of the Kautli Nala were crossed at 107 mile, and require approximately 1,500 lineal feet of water-way with 12 feet head-way. No sand hills basins have been crossed until the 168 mile: an improvement on last year's route which met them at mile 120.

3. *No. 2 Party from near Umarkot north-eastwards.*—No. 2 Party under Mr. L. Michel commenced the survey on 1st January at Sufi Fakir, 14 miles west of Umarkot. The progress up to 31st of January is 59 miles over a severely undulating country for 30 miles; following the valleys of the sand hills in a north-east direction. The Mungtor summit, 200 feet high, had to be reached at 20 mile before these valleys were entered. Mr. Michel's movements are greatly hampered by his having to lead out his water for 24 miles, and also to carry rations for nearly 100 men, as no large villages are met with for a length of 60 miles.

3. I was able to help his party by making arrangements with Mr. Watson, Assistant Commissioner of Umarkot, to whom my thanks are due.

4. Out of the 550 miles of survey it will be seen 223 miles have been completed, leaving a balance of 327 miles to carry out.

5. Plans and longitudinal sections have been plotted to within 15 miles of end of surveys of both parties.

• •
ALTERNATIVE FORM.
Progress report of the East Coast Railway Survey for March 1890.

REMARKS.

Enclosure No. 4 to Railway Circular No. 6 of 1890.

MU VALLEY STATE RAILWAY.

Narrative Progress Report of work done to end of January 1890.

First Division—0 to 45 miles.

Staff.	Mr. Beeston	...	...	...	Executive Engineer.	
	" Berrill	...	...	...	Assistant	(Honorary).
	" Faulkner	...	...	...	Assistant	"
	Lieut. Scudamore	...	...	...	Assistant	"

SURVEY.

It was found on closer investigation that the preliminary survey of the Myohoung Branch was not in sufficient detail to locate the line by, and as much of the country was thickly studded with pagodas, is densely populated, and the high ground practically but a neck for a considerable portion of it, it became necessary to have a proper survey made. The want of staff much retarded the work, but it has now been finished, the line located, and the plans and sections are under preparation.

About three miles from Sagaing shore northwards had also to be realigned, to get a line suitable for the river traffic. This has been done, plans and sections completed, and work is in progress.

EARTHWORK.

Was started on 1st December 1889. From the Sagaing shore to Obo (about 3 miles) about half done; about 5 miles (that is to mile 7) beyond Obo practically finished; from mile 7 to 10, about one-sixth done; and work has been started in 19th mile; 26 miles jungle clearing and service road done.

STAFF QUARTERS.

Sagaing (Obo).—Quarters for an Assistant Engineer and Upper Subordinate finished; 4 officers' quarters in hand, timber being collected.

Padoo.—One Upper Subordinate's quarters in progress. All timber at site.

Pauktan.—An Assistant Engineer's quarters in progress. All timber at site.

Work has been considerably retarded for want of staff at the commencement.

LABOUR.

Burmans	...	...	...	...	...	1,200
Natives of India	...	...	...	...	...	1,000
						<u>2,200</u>

Second Division—miles 45 to 98.

Staff.	Mr. Deuchars	...	...	...	Executive Engineer.	
	" Chadwick	...	...	...	Assistant	(Honorary).
	" O'Neill	...	...	...	Assistant	"

EARTHWORK.

About 36 miles of jungle cleared, and about 17 miles of service road made; but not continuous.

Earthwork in miles 73 to 74 and 80 to 81, half finished.

" " 51 to 52, 63 to 69 and 81 to 82, quarter finished.

" " 74 to 80, one-eighth finished.

" " 56 to 57 and 61 to 62, just started.

" " 57 to 61, 62 to 63 and 69 to 73, not started.

From mile 82 to end of division, under realignment; miles 45 to 56 (excluding 51 to 62) altered, and will have to be realigned.

STAFF QUARTERS.

Materials being collected.

LABOUR.

Burmans	...	...	...	...	...	4,000
Natives of India	...	...	...	...	...	600
						<u>4,600</u>

Third Division—miles 98 to 150.

Staff.	Mr. Newham	...	...	...	Executive Engineer.	
	" Strachey	...	...	...	Assistant	"
	" Despeissis	...	...	...	"	"
	" Roberts	...	...	...	"	"
	Lieut. Prentice	...	...	...	"	"

Work not yet commenced on this division, nearly the whole of which has been under re-alignment.

[General Distribution.]

Circular No. 6 Railway.

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

RAILWAY CONSTRUCTION.

Simla, the 9th June 1890.

Monthly Narrative Progress Reports of Railway Surveys.

Read—

Public Works Department Circular No. 7 Railway, dated 5th April 1878.

Public Works Department Circular No. 40 Railway, dated 3rd December 1879.

RESOLUTION.—In the Circulars herein read instructions were given for the submission of monthly Narrative Progress Reports, in Form A, for State Railways under construction.

2. Similar Reports have, from time to time, been submitted for Railway Surveys, but these have in many instances been either much too diffuse or so condensed as to give little idea of the actual state of progress.

3. The Government of India accordingly desires that for Railways under reconnaissance or survey a narrative report, somewhat similar to the accompanying reports of the *Bikanir Desert Railway Survey, or of the †East Coast Railway

* *Vide* enclosure No. 1.

† *Vide* enclosures Nos. 2 and 3.

‡ *Vide* enclosure No. 4.

Survey, may be submitted at the close of each month; and that for Railways partly under survey and partly under construction a monthly report somewhat similar to the enclosed report of the ‡Mu Valley State Railway should be furnished. The distribution of the Staff should in every case be shown.

ORDER.—Ordered, that this Resolution be communicated for information

The Governments of Madras, Bombay, Bengal, the North-Western Provinces and Oudh, and the Punjab.

The Chief Commissioners of the Central Provinces, Burma and Assam.

The Resident at Hyderabad.

The Agents to the Governor General for Central India, Rajputana, and Baluchistan.

The Accountant General, Public Works Department.

The Director General of Railways.

The Consulting Engineers to the Government of India for Railways, Calcutta, Central Division, and Lucknow.

and guidance to the Local Governments and Administrations and Officers noted in* the margin.

M. C. BRACKENBURY, Major, R.E.,

Under Secretary.

Documents accompanying.

1. Progress Report of the Bikanir Desert Railway Survey.

2. Progress Report of the East Coast Railway Survey.

3. Progress Report of the East Coast Railway Survey, Alternative Form.

4. Progress Report of the Mu Valley State Railway Survey.

B

Sp. 1019 R. & 16th July 190.

Comdt to Congress for
Ryo: for information and
guidance in continuation
of Peros: Sp. 354 R. dated
13th April 1898.

W. J. G.

offg. R.

Congress for Ryo:

Progress Report of the Bezwada Madras Railway Survey to the end of December 1893.

Item No.	Divisions	Length of miles	Superior Staff employed on Division	Progress of work.
1	Madras Division, Madras to Gudalur	86	Mr. Theo. Mitchell, Executive Engineer. V. Rengaswami, Temporary Engineer.	Work confined to the Madras-Cumers section 11 miles. Lines staked out and mostly levelled.
2	Melore Division, Gudalur to Angole	104	Mr. P. Duncan, Executive Engineer. J. H. Perret, Temporary Engineer.	Work started. Crossing of the Pennar River fixed and boring commenced.
3	Bezwada Division, Angole to Bezwada	83	Mr. H. J. Oddie, Executive Engineer. C. H. Bond, Temporary Engineer.	11 miles staked out and levelled.

Kattivakkam }
20th January 1894. }

Signed E. J. Shadbolt,
Engineer-in-Chief
Bezwada Madras Ry. Survey.

Bezawada Madras Railway Survey.
No 109

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From

The Engineer-in-Chief
Bezawada Madras Railway Survey.

To

The Consulting Engineer for Railways
Madras.

Dated Kattivakam the 20th January 1894.

Sir,

I have the honor to forward
herewith Progress Report of the
Bezawada Madras Railway Survey to
the end of December 1893.

I have the honor to be
Sir
Yours most obedt. servant.

E. J. Madhavan

Enclosure
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Engineer-in-Chief
Bezawada Madras Rys.

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B. No 72-3 R of 29-1-94

PUBLIC WORKS DEPARTMENT,
RAILWAY BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

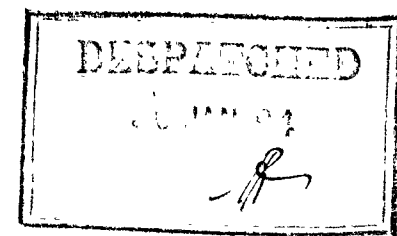
Read the following

Letter from the Engineer-
Chief, P. M. Ry. Survey.

H. E. No: 109 of 20th Jan-
uary, 1894.

Ordered that the Pro-
gress Report for the
Bennadur Madras Rail-
way Survey to the end
of December 1893, be
forwarded to the
Government of India.

H. E. No: 73 R of 29-1-94.



To
The Engineer-Chief,
P. M. Ry. S.

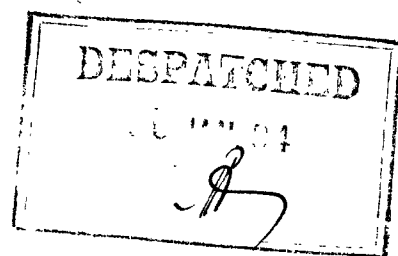
To,
The Secy. to the
Govt. of India,

Sir,
With reference to
your

your Circular No: 6 Rg, dated
9th June 1890, I am
directed to forward
herewith for the in-
formation of the Govern-
ment of India, Progress
Report of the Bernadur
Madras Railway Survey
to the end of December

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Progress Report of the Survey to the end of January 1894

Item number	Division	Length in miles	State of the work
1	No. 1. Division Madras to Gudur	86	In section, eleven miles from arrangements, finally settled.
2	No. 2 Division Gudur to Ongole	104	of Pennar River completed and fixed, four miles settled.
3	No. 3. Division Ongole to Begavada	83	Fixed and fixed, forty three and settled.

Kattivakkam
Dated 6th Feb'y '94

igned, E. J. Shadbolt
Engineer-in-Chief
Begavada Madras Ry. Survey

BEZWADA-MADRAS RAILWAY SURVEY.

No. 176

From

THE ENGINEER-IN-CHIEF,

BEZWADA-MADRAS RAILWAY SURVEY,

To

THE CONSULTING ENGINEER FOR RAILWAYS,

MADRAS.

Dated Kattivakkam, the 5th February 1894.

Sir,

I have the honor to forward herewith Progress Report of the Bezwada-Madras Railway Survey to the end of January 1894.

I have the honor to be

Sir

Your most obedient Servant

E. J. Shadball

Engineer-in-Chief

Bezwada-Madras Ry. Survey.

Enclosure
(one)

REGISTER
No. 601
FILE
No.

B

1087 R 2 10 Feb 1894

PUBLIC WORKS DEPARTMENT,
RAILWAY BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

Letter from the Engineer -
in Chief, Berwader -
Madras Railway Survey

H.E. No: 176 R 5 Feb 1894

Ordered that the Progress Report for the Berwader - Madras Railway Survey up to the end of January 1894, be forwarded to the Government of India.

H.E. No: 88 R 10-2-94

To

The Secy. to the Govt. of India, P. W. D.

Sir,

With reference to
yours



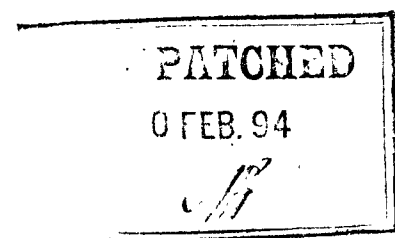
To,
The Engineer in Charge
B. M. R. S.

your Cir: No: 6 Ry, of
the June 1890, I am
directed to forward
herewith for the in-
formation of the
Government of India
Progress Report of the
Bewarad Madras Rail-
way Survey upto the
end of January 1894.

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No 87-88 R 2/10 Feb 194.

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Progress Report of the Bezvada M

dras Railway Survey to the end of February 1894.

Item No.	Divisions	Length Miles	Superior staff employed.
1	No. 1. Division ... Madras to Gudur	86	Mr. Pho. Mitchell Ex: Engrs -- V. Rungaswamy Sengar Temporary Engineer
2	No. 2. Division ... Gudur to Nellore Nellore to Ongole Total	24 80 104	Mr. P. Duncan Ex: Engrs: -- J. W. Perret Temp. Engrs:
3	No. 3 Division Ongole to Bezvada	83	Mr. H. J. Odde Ex: Engineer -- C. H. Bond. Temp. Engrs:

Progress of work.
Madras - Cunniff section (10 miles) finished and Estimates prepared. Total ranged and fixed 28 miles.
About 20 miles ranged out of which 15 have been staked out and completed.
80 miles staked out. Levelling and all other work done for 72 miles.

Dated Kattivakkam
the 6th March 1894.

/s/ E. I. Shadbolt
Engineer-in-Chief
Bezavada - Madras Ry. Survey.

BEZWADA-MADRAS RAILWAY SURVEY.

No. 275

From

THE ENGINEER-IN-CHIEF,

BEZWADA-MADRAS RAILWAY SURVEY,

To

THE CONSULTING ENGINEER FOR RAILWAYS,

MADRAS.

Dated Kattivakkam, the 6th March 1894.

Sir,

I have the honor to forward
herewith Progress Report of the
Bezavada-Madras Railway Survey
to the end of February 1894.

I have the honor to be
Sir

Your most obedt. Servant

E. J. Shadbolt

Engineer-in-Chief
Bezavada-Madras Ry. Survey

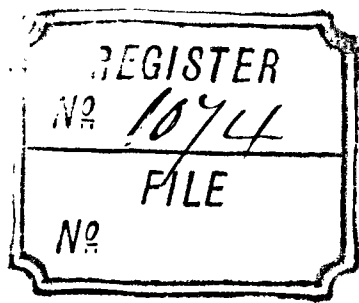
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Recd. 12/3/94
Forwarded



No 155 R of 12 March 1894.
PUBLIC WORKS DEPARTMENT,
RAILWAY BRANCH.

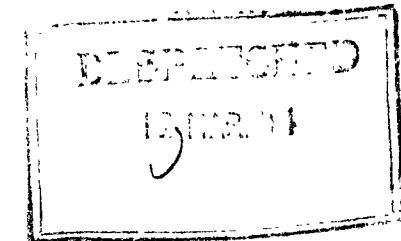
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PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

Letter from the Engr. in Ch. Begova. Ind. Rly Survey. } H.E. No. 275 of 6 March 94

Ordered that the Progress Report of the Begova - Madras Railway Survey to end of February 1894, be forwarded to the Govt. of India.



To The Engr. in Ch. to Engr. H.E. No 156 R of 12 March 94

The Secy to the Govt. of India P.Y.D.

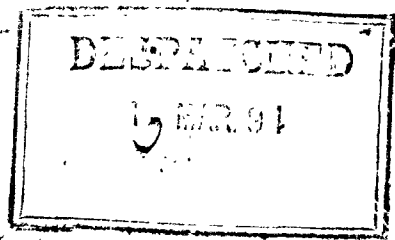
Sir,

With reference to your Circular No. 6 R dated 9th June 1890, I am directed to forward here with for the information

of the Govt. of India, Pro.
gress Report of the Mysore
Madras Railway Survey
up to the end of February
1894.

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No. 155. 56 R of 12. March 1894.

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Railway Survey

to the end of March 1894

Progress of work.

Field work completed for 61 miles. Project and estimates have been submitted for the first 10 miles forming the Madras-Tonnur section.

Field work completed for 32 miles

Field work completed for 83 miles on the main line and for 15 miles on the Guntur branch.

Summary of field work completed

	Main line	Branches	Total
No. 1. Division	61	"	61
No. 2. Division	32	"	32
No. 3. Division	83	15	98
	<u>Total</u> 176	<u>15</u>	<u>191</u>

Sgt. E. J. Shadbolt
Engineer-in-chief.
Bex. Madras. Ry. Survey.

Bexvada - Madras.

Progress Report

Divisions	Length miles	Superior staff employed.
<u>No. 1 Division</u>		Mr. T. Mitchell. Loc. Engineer
Madras to Gudur.	86	" V. Rungaswamy Iyengar.
Vallur to Kattur (branch)	10	Temp. Engineer
	<u>96</u>	
<u>No. 2. Division</u>		Mr. P. Duncan Loc. Engr.
Gudur to Vellore		" J. W. Perret Temp Engr.
(existing metre gauge)	24	
Vellore to Singaraya	55	
	<u>79</u>	
<u>No. 3 Division</u>		Mr. H. J. Oddie. Loc. Engr.
Singaraya to Bexvada	101	" C. H. Bond. Temp. Engr.
Sundur to Guntur (branch)	15	
	<u>116</u>	
<u>Summary of length</u>		
Madras to Bexvada	266	
Kattur Salt Branch	10	
Guntur Branch	15	
Total length of survey	<u>291</u>	

Kathivakuram }
4th April 1894 }

BEZWADA-MADRAS RAILWAY SURVEY.

No. 340

From

THE ENGINEER-IN-CHIEF,

BEZWADA-MADRAS RAILWAY SURVEY,

To

THE CONSULTING ENGINEER FOR RAILWAYS,

MADRAS.

Dated Kattivakkam, the 5th April 1894.

Sir,

I have the honor to forward
herewith the Progress Report of the Bezwada
- Madras Railway Survey to the end
of March 1894.

I have the honor to be

Sir

Your most obedt Servt

E. S. Madhav

Engineer-in-chief
Bezwada-Madras Railway Survey

En. one.

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B. . No 226 R of 11-4-94

PUBLIC WORKS DEPARTMENT.

RAILWAY BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

Letter from the Engineer } H.L. No. 340 of 5 April 1894
Chief Engineer, Madras Ry. S.

Ordered that the
Progress Report of the
Madras Ry Survey to end
of March 1894, be for-
warded to the Govt. of India

To the Engr. in Ch. B. Ry S.

H.L. No 227 R of 11 April 94

To the Secretary to the Govt of India
P. W. Depto.

Sir,
With reference
to your Circular No. 64,
dated 9th June 1890, I am
directed to forward here-
with for the information
of

Bezunda Madras Progress Report

Division	Length Miles	Superior staff employed
No. 1. Division Madras to Endur 86 Vikur to Kuttur (branch) 10 <u>96</u>		Mr. J. Mitchell Eng: Engineer Mr. V. Rangaswamy Sengar Temporary Engineer
No. 2. Division Endur to Kellor (existing metregang) 24 Kellor to Angole <u>72</u> <u>96</u>		Mr. P. Duncan Eng: Engineer Mr. J. W. Perrett Temp: Engineer
No. 3 Division Angole to Bezunda 84 Sundur to Guntur 15 (branch) <u>99</u>		Mr. H. J. Oddie Eng: Engineer Mr. C. H. Bond Temp: Engineer
Summary of Length		
Madras to Bezunda 266		
Kuttur Salt Branch 10		
Guntur Branch 15		
Total length of survey <u>291</u>		

Dated Kutturam
The 1st May 1894

Railway Survey
to the end of April 1894

Progress of work		
Field work completed for main line, 86 miles Project and Estimates for the Madras. Survey section, 10 miles have been submitted separately.		
Field work completed for 54 miles		
Field work completed for the whole 99 miles		
Summary of Field work completed		
	Mainline	Branches Total
No. 1. Division	86	86
No. 2. Division	54	54
No. 3. Division	84	15
	<u>224</u>	<u>15</u> <u>239</u>

(Signed) E. J. Shadbolt
Engineer-in-Chief Bezunda
Madras Railway

BEZWADA-MADRAS RAILWAY SURVEY.

No. 410

From

THE ENGINEER-IN-CHIEF,

BEZWADA-MADRAS RAILWAY SURVEY,

To

THE CONSULTING ENGINEER FOR RAILWAYS,

MADRAS.

Dated Kattivakkam, the 1st May 1894.

• Sir,

I have the honor to forward
herewith the Progress Report of the
Bezawada-Maddur Railway Survey to the
end of April 1894.

I have the honor to be
 Sir
 Your most obedt. Servant

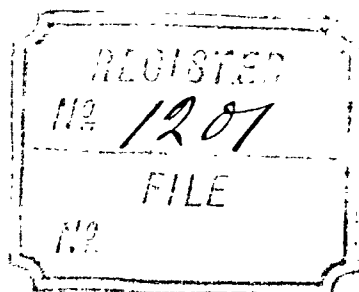
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E. J. Shadwell-

Engineer-in-Chief
Bezawada Madam Ry. Survey.

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No 286 R 2 5th May 1894.

PUBLIC WORKS DEPARTMENT,
RAILWAY BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

Letter from the Engr. } H.E. No. 410 of 1st May 94
in Chief Engineer's Memo 43 }

Ordered that the
Progress Report of the
Bengal - Madras R. & S.
to the end of April 1894,
be forwarded to the Govt.
of India. -

To
The Engr. in Ch. B. M. R. & S.

H.E. No 287 R of 5th May 94

To
The Secretary to the Govt.
of India M.O.D.

Sir. With reference to
your Circular No. 6 R,
dated 9th June 1890, I am
directed to forward herewith
for

Bezvada: Madras Progress Report

Railway Survey
to the end of May 1894

Divisions	Length miles	Superior staff employed	Progress of work
No 1. Division Madras to Gudur Vallur to Katur & branch	86 10 96	Mr. Theo. Mitchell Inc. Engineer " V. Rangaswami Iyengar Temporary Engineer	all field work having been completed during the month of May no further progress report will be submitted
Gudur to Nellore Existing metre gauge	24	no field work	
No 2. Division Nellore to Ongole	72	Mr. O. Duncan Executive Engineer " J. W. Perrett Temporary Engineer	
No 3. Division Ongole to Bezvada Sundur to Guntur (branch)	84 15 99	Mr. H. J. Oddie Executive Engineer " C. H. Bond Temporary Engineer	The staff is now collected together at Coonoor for the purpose of preparing the designs and estimates connected with the project.
Summary of Length Madras to Bezvada Katur salt branch Guntur Branch	266 10 15		
Total length of survey -	291		

Coonoor
5th June, 94 }

(Signed) E. J. Shadlock
Eng. in Chief, Bezvada -
Madras Railway Survey

BEZWADA-MADRAS RAILWAY SURVEY. ¹⁸⁹⁴
876194
As usual

No. 493.

From

THE ENGINEER-IN-CHIEF,

BEZWADA-MADRAS RAILWAY SURVEY,

To

THE CONSULTING ENGINEER FOR RAILWAYS,

MADRAS.

Coonoor
Dated ~~Kattivakkam~~ the 5th June 1894.

Sir,

I have the honor to forward
herewith the Progress Report
of the Bezwada-Madras Railway
Survey to the end of May 1894.

I have the honor to be
Sir

Your most obedt Servant

B. J. S. Madras

Engineer-in-chief
B M R Survey

Enclosure
(one)

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N. 352 R 27/14 June 1894.

PUBLIC WORKS DEPARTMENT,
RAILWAY BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

Letter from the Engr. } 148. No. 493 25 June 1894.
in Chief Secy. Genl. Ry Ry

Ordered that
the Progress Report of
the Beysada. Madras Ry
Survey to the end of May
1894, be forwarded to
the Govt. of India.

info despatched
14-6-94.
To The Engr. in Ch. N. Ry. Ry.

148. No 353 R 27/14 June 1894

To Secy. to the Govt. of India
P. W. D. Secy.

13 June
Sir, With reference to
your Circular No. 6 Rail.
way, dated 9th June 1890,
I am directed to forward
herewith, for the information
of

2220/6

of the Govt: of India, the
Progress Report of the
Bengal: Madras Railway
Survey up to the end of
May 1894.

Mr

$\frac{12}{6}$ 94

His Excellency the Governor
in information

Imp despatch to India
with 1 Encl. No-6-94.