

Public Works (1899) Department.

G.O., No. 297 W

DATED 31 January 1899

✓

Full

3/2/99

[Despatch Abstract.]

Road from Sarugani to Devikottah

Estimate of Rs 20230 for constructing  
a ———, in the Madurai Dt., sanctioned.

100  
4 1/2  
25

Indexed. 2/2

Estimate of Rs. 28,230 for constructing a —, in the Madura district, sanctioned.

READ the following:—

2

No. 297 W., 31st JANUARY 1899.

## GOVERNMENT OF MADRAS.

## PUBLIC WORKS DEPARTMENT.

Buildings and Roads.  
Civil Works.

READ—the following paper:—

From Lieutenant-Colonel O. V. BODDY, R.E., Superintending Engineer, VI Circle, to the Chief Engineer, Public Works Department, dated Trichinopoly, 16th November 1898, No. 1546 M.D.

I have the honour to submit, for sanction of Government, an estimate amounting to Rs. 28,230 together with surveys, level sections and masonry plans, for constructing a road from Sarugani to Devikottah in the Madura district. The road runs for a length of three miles in the Ramnad zemindary and the remaining portion in the Sivaganga zemindary. Of the total amount of the estimate, Rs. 5,770 is for earthwork, Rs. 6,120 for masonry works, Rs. 15,500 for gravelling the road, and Rs. 840 for petty supervision establishment.

2. The length of the road is 8 miles 7 furlongs and 300 feet. Provision is made for gravelling this whole length for a width of 10 feet and depth 6 inches, the formation width of the road being 16 feet, with side slope  $1\frac{1}{2}$  to 1.

3. The road has been aligned so as to avoid heavy compensation on account of wet lands and houses.

4. The proposed line of road crosses 38 streams, which are mostly surplus, and supply channels as well as small irrigation channels. The District Board Engineer proposes to close ten of these channels and to irrigate the lands under them through selected channels close by; the channels thus to be closed are in the 6th, 7th and 8th miles, their numbers being 15A, 15B, 18A, 19B, 20A, 20B, 21A, 21B, 28A and 28B. The estimate, therefore, provides for 23 culverts and 5 side dams. Provision is also made for building dry stone revetment in the first mile for a length of 400 feet and also for raising the parapets of the existing culverts in the same mile. A list of all these works is shown in a statement which further gives hydraulic details, mileages and description of materials to be used; calculation sheets are also forwarded. No hydraulic details are given for tunnels over irrigation channels, but the size of vents provided for all of them,  $2' \times 2'$ , is ample and facilitates examination and the execution of repairs when needed.

5. The rates are fair and the estimate is recommended.

6. Proceedings of the Taluk Board of Ramnad and those of District Board, Madura, according sanction to the estimate, are herewith forwarded.

ORDER—No. 297 W., dated 31st January 1899.

The estimate amounting to Rs. 28,230, for constructing a road from Sarugani to Devikottah in the Madura district, is sanctioned.

2. This sanction has been registered as Local No. 33 W. of 1898-99.

(True Extract.)

(Signed) W. B. DEWINTON,  
Secretary to Government.

To the Superintending Engineer, VI Circle.  
,, Local and Municipal Department, with 16 enclosures.

Exd. T. K. Narayana Aiyangar.

*13th Nov 1898*  
*Bail W.P.*

*From the Supty Engineer, VI Circle No 1546 M.D. 16th November 1898*

38

*Note by the Chief Engineer P.W.D. 24*

Circulated to H. E. to Government

## ORDER.



*No. 297 W. of 31.1.99.*

*The estimate amounting to —*

*Rs. 28,230, for constructing a road from Sarugani to Devikottah in the Madura District is sanctioned.*

*2. Attention is drawn to the Chief Engineer's note read above.*

*2. This sanction has been registered as Local No 33 W. of 1898-99.*

A.R.

19.1.99

*May 21.1.99*

*Note. The estimate is dealt with in the accompanying technical note and the Chief Engineer's note read above.*

A.R.

*May 19.1.99.*

*To the S.E. VI Circle  
.. L & M Dept with 16 enclos*

9550

P. W. Dept.

277W

Note by the Chief Engineer P.W.D.

Submitted for the  
sanction of Government with the re-  
mark that <sup>the</sup> gravel should be laid  
in 2 layers of 3" depth.

ACK

19-1-99.

Wij

E.W.

they know this  
LNR

Current No. 950

Letter No. 1546 M. D.

Dated 16<sup>th</sup> November 1898

From the Supt. Engineer II Circle

## NOTE BY TECHNICAL SECTION.

Name of work. Constructing a Road  
from Sarangani to Devakotta,  
Madras District.

Est Rs 29,230.

There being no direct communication between these important towns the traffic has to take most circuitous routes which is found to be most inconvenient. The Devakotta Chetties, a most influential class, have frequently stipulated for a Road & have now given a cash contribution of Rs 5,000 thus proving the urgent necessity for it.

The road runs for a length of 3 miles in the Kamnada Zamin darg and the remaining portion in the Sivagangala Zamin darg. The total amount of the estimate Rs 5,770 will be expended on Earthwork, Rs 6,120 for Masonry Works, Rs 15,500 for travelling the road, and Rs 840 for petty subscription establishment.

297W

W  
In order whether depth of gravel can be reduced to 3"

ACK

14-1-99.

No. see memo of  
L. H. J.

M. L. S. S.

DW

Sanction estimate with remark that gravel should be laid in 2 layers of 3" depth

ACK

14-1-99.

The alignment of the road is shown on the Survey map and is followed, in detail, in the report accompanying the Estimate; the road is aligned to avoid heavy compensation in passing through cultivated land & houses.

The formation width of the road will be 16 feet, Slopes  $1\frac{1}{2}:1$ , and will be pavellid in a breadth of 10 feet and depth 6 inches. It is not mentioned why no metalling is allowed. A depth of 6" of gravel, it is submitted, is questionable in not being able to bind without metalling. Gravel, in itself, will soon be worked into by the traffic as it cannot, of itself, consolidate so as to be <sup>rising</sup> useful for last traffic. There would be more chance of a 3" coat of pavelling proving more useful than a 6" one.

The road crosses 38 streams mostly small, supply, and small irrigation channels. It is proposed to close 10 of these channels making due provision for irrigation.

This is curious reasoning all our roads in Madras Delta were laid with 6" gravel, in part of metal, & were very well. The 6" should be laid in 2 3" layers  
H. H. H.  
14.1.89

The Estimate provides for the construction of 23 culverts and 5 road dams.

The hydraulic calculations for culverts and road dams have been given in detail and checked with the Sections of Streams and Masonry Works provided. No hydraulic details are furnished for small culverts over irrigation channels but the type provided  $2' \times 2'$  is ample and affords facilities for examination and repair. The Estimates for Earthwork and Masonry Works have also been checked. The nature of soil & sub-soil for each work is noted in plans and general statement of details and depths of foundations regulated accordingly. The Estimate is complete in all respects.

Prices. The rates for Road <sup>Gravel</sup> ~~Work~~ & Masonry works compare favourably with the District Schedule of the Division being in most cases slightly in excess. No data has been furnished.

Proceedings of the P.W. Board of Ramnad & District Board Madurai according to sanction to Estimate are attached.

A. H.  
14.1.89

H. H. H.  
12.1.89

Public Works (1898) Department.

CURRENT No. 9550

Order

From

The Superintendent Engineer  
W. Circle

No. 1546.D.L.

Dated 16<sup>th</sup> November 1898.

Received

Enclosures

Spare copies

16. (1 book of plans & 15 sets of plans)  
12. (of which 3 are sent separately)

SUBJECT.

Road from Sangaini to  
Droikotah in Madras District

Submits for sanction and  
cost of Rs 28,230 for Con-  
struction of ———.

T. for check  
ADK  
21-11-98  
Dul

L.M. sent for c. 19.1.99 1231 98 130.1.98  
HS. 23.1.99

BACK PAPERS.

FURTHER PAPERS.

20. 1546. M.D.

Serge Inquirer office, 11 Circle,  
Washington. 16<sup>th</sup> November 1898.  
217.

From

H. Rob. C. V. Brady Esq.,  
 Superintendent Engineer  
 W. Wash

The Chief Engineer  
P. W. D.

Sir,

Leucosurus: 14.  
(Details below).

I have the honor to submit  
for sanction of Government an esti-  
-mate amounting to Rs 28,230 together  
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Sarangani to Devikottah in the Ma-  
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total amount of the estimate, Rs 5,770  
is for earthwork, Rs 6,120 for masonry  
works, Rs 15,500 for gravelling the road  
and Rs 840 for Petty Dispensation Establish-  
-ment.

Of his house on

2. The length of the road is 8 miles  
7 furlongs and 300 feet. Provision is made  
for gravelling this whole length for a  
width of 10 feet and depth 6 inches —  
the formation width of the road being  
16 feet, with side slope  $1\frac{1}{2}$  to 1.

3. The road has been aligned so as to avoid heavy compensation on account of wet lands and houses.

4. The proposed line of road crosses 38 streams, which are mostly supplies and supply channels as well as small irrigation channels. The D. H. Board Engineer proposes to close ten of these channels and to irrigate the lands under them through selected channels close by; the channels thus to be closed are in the 6<sup>th</sup>, 7<sup>th</sup> & 8<sup>th</sup> miles their numbers being 15 A, 15 B, 18 A, 19 B, 20 A, 20 B, 21 A, 21 B, 28 A and 28 B. The estimate therefore provides for 23 culverts and five side dikes. Provision is also made for building dry stone revetment in the first mile for a length of 400 feet and also for raising the parapets of the existing culverts in the same mile. A list of all these works is shown in a statement which

further gives hydraulic details, mileages and description of materials to be used. Calculation sheets are also forwarded. No hydraulic details are given for tunnels over irrigation channels, but the size of vents provided for all of these, 2' x 2, is ample and facilitates examination and the execution of repairs when needed.

5. The rates are fair and the estimate is recommended.

6. Proceedings of the Taking Board  
of Ramnad and those of District Board  
Madura, according sanction to the esti-  
-mate are herewith forwarded.

I have the honor to be  
Sir,

Tom Just obedt. Looack.

O. I. Hooley Assoc. P.E.  
Superintending Engineer  
W. C. C. C.

*Leoborus*:—

15/11/98

Ohio House on.

Enclosures: 14.

1. Report.

1. St. Board Proceedings No: 103 of 98 of 13. 6. 98.

1. Salary Board — do — 56 of 98 of 11. 7. 98.

1. Road Metal Rate Book

1. Quarry Sketch

1. File of Hydraulic calculations

1. Statement.

1. General abstract

1. Detailed Abstract Estimates for Masonry  
works.

1 — do — do — for gravelling the road.

1 — do — for earthwork.

1. Index map in tracing

1. Book containing surveys, limits and  
masonry plan &c (28 sheets)

1. Survey in the limits of Devichottah Revenue

14

&c &c Separately.

CH  
15/10/98

48

Of this house.