

Public Works (1899) Department.

G.O., No. *2504 W*

DATED *21 September* 1899.

[Despatch Abstract.]

Expenditure - Sanctioning the outlay of
Rs 80 incurred by the Ex. Engr, Madras ~~on~~
in testing certain materials at the Engineering
College Laboratory.

OTHER PAPERS.							
G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

(189⁹) Department.

From

The S.E. VI Circle.

Order No: 2504 W821-9.88

Sanctioned

No. 1334 M.D.

Dated 4th September, 1899.

Received

Registered 5th September, 1899.

Enclosures { Plans ^{nil}
Others } Total. I

Spare copies

SUBJECT.

Outlay of Rs. 80 incurred by
the Executive Engineer, Madura Dn.
in testing materials at the Engi-
neering College Laboratory:-

Requesting sanction to

the---

$P_{2^2} \mid q \mid c q$

Note

In para 3 of the Chief Engineer's Memo. No. 1374C dated 5th March 1898, Suptg. Engineer was requested to forward lists of the different building materials that they would propose to have tested at the Laboratory of the Madras College of Engineering.

In Communicating this Memo. to
Executive Engineer, the Supt. Engineer,
VI Circle, Suggests to the Executive
Engineer Madras Division, the in-
clusion of Vengai wood in the list.
The Executive Engineer, under a mis-
apprehension, sent some specimens
of the wood to the Engineer in
charge ^{of W. S.} for being tested. The cost
of the test including carriage
& value of material comes to
Rs. 80, which it is proposed to sanction.

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

Engineering Laboratory

Result of tests in Bending of specimens of Vengai saplings removed from the
Sub Divisional Officer, Dindigul -

No. of Specimens	Dimensions			Weight of Specimen in lbs	Weight of Specimen in lbs	Deflection at Centre in inch	Load in tons	Product of Elasticity in tons	Breaking Load in tons	F _r Maximum Stress at extreme fibre in tons	K. Product of section in in ⁴	Remarks
1	Depth	Breadth	Length	27	49.875	66	1	490.00	2.600	4.61	573	
2	4.315	2.998	72.3125	30.5	54.672	66	2	653.6	3.575	5.993	746	
3	4.434	3.004	72.375	25	47.61	66	1	487.047	2.20	3.94	491	
4	4.400	2.854	72.25	29.5	55.45	66	1	546.0	2.730	4.906	609	
5	4.333	2.934	72.3125	27.75	51.003	66	1	589.08	1.880	3.23	402	
6	4.416	2.957	72.00	31.5	56.432	66	1	698.3	3.525	5.908	735	a bad piece of timber
	4.417	3.028	72.25									

From these results assuming 500 tons as the average value of E the deflection on a span of 18'-6" with a distributed load of 1 ton would be $8\frac{7}{8}$ inches, so that it is obvious the section of the saplings was too small.

Madras 3
6. 11. 98

4992
4992
4992

True copy /
O.V. Rammey, Asst. Secy.
Engrs Engineer, 11, Levee

Prof. Alfred Chatterton
Professor of Engineering

No. 1334 Ind.

OFFICE OF THE SUPERINTENDING ENGINEER,

6th CIRCLE,

Trichinopoly, 4 September 1899.

From

W. C. V. Boddie, R.E.
Superintending Engineer,

6th Circle.

To

The Chief Engineer,

P. W. D.

SIR,

ENCLOSURE

1 copy of the result
of test

I have the honor to bring to your notice that when circulating your Memorandum No. 1374 & dated 5 March 1898 to Executive Engineer I suggested to the Executive Engineer, Madurai Div, the inclusion in the list of material some Vengai wood such as had been used to the Post Office at Periyakulam which I had observed to have sagged considerably.

2. The Executive Engineer under a misapprehension sent specimens of the wood to the Engineering College for being tested.

3. The cost of the test including carriage and value of material is

P.W.D.
7/12/99

Rs 80, and I have the honor to request that sanction of Government may be obtained to this outlay. I forward for your information the results of the tests taken.

I have the honor to be
Sir,
Yours truly
J. V. Boddy

Superintending Engineer
W. Leitch

[Signature]
4/9/99

Public Works (1899) Department.

CURRENT No. 7312

*This is a tunnel matter.
Sanction is given
11-9-98*

From
The Superintending Engineer
W. Leitch

Memo
Order

No. 1334 M.D.

With reference to his letter No. 1334 M.D. dated 4th Sept 1898, the Supty. Engr., W. Leitch, is requested to be good enough to forward a detailed estimate for submission to Govt. The expenditure in question was quite unauthorized in the face of para 3 of Memo No. 1374 C. dated 5th March 1898.

Dated 4 September 1898.
Received
Registered } 5-9-99
Enclosures } Plans - 13
Spare copies } Others - 1

SUBJECT.

Outlay of Rs 80 incurred by the Engineer, Madras Div., in testing materials at the Engineering College Laboratory. Requesting to obtain sanction of Govt. to the

Per 11/9

To
The Supty. Engr., W. Leitch

[Signature]
W

025479 R147

BACK PAPERS.

FURTHER PAPERS.