

- (1) பக்கங்களின் எண்ணிக்கை 12
 (2) புதுக்கித் திருப்பிய நாள் 12/89
 (3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் 16/3

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

P. W. துறை

அரசாணை எண். மு. கோப்புத் தாள் எண்.	<u>2086 W</u>	அச்சகம் பலவகை
நாள் :	<u>1. 8. 1890</u>	<u>198</u>

மடிக்கலோ கண்டபடி கையாளலோ கூடாது

1st AUGUST 1890, No. 2086 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper :—

From J. HANNAN, Esq., Superintending Engineer, II Circle, to the Chief Engineer, Public Works Department, dated 1st July 1890, No. 842 K.S.

I have the honor to submit, for your approval and sanction of Government, an estimate, amounting to Rs. 1,03,439, for metalling the road from Masulipatam to Gudivada *via* Cowntaram in the Kistna district.

2. The specification report accompanying the estimate explains the way the metal, &c., is to be laid.
3. Copy of the Board's Resolution, No. 1 of 14th instant, is enclosed.
4. The rates are fair and the estimate is recommended for sanction.

ORDER—dated 1st August 1890, No. 2086 W., Public Works.

The estimate, amounting to Rs. 1,03,439, for metalling the road from Masulipatam to Gudivada (*via* Pedana and Cowntaram) in the Kistna district, is sanctioned.

2. This sanction has been registered as Local No. 13 W. of 1890-91.

(True Extract.)

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

To the Superintending Engineer, II Circle.
„ Local and Municipal Department, with fifty-three enclosures.

Exd. J. Moses.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1890} Madras.

PUBLIC WORKS.

Dated August, 1st.

Road.

Encl.

G.O., 1st Aug. 1890, No. 2036 W.

AUGUST.

Road

Estimate amounting to Rs. 1,03,439 for
metalling the road from Masulipatam to
Gudivada, Kistna district, sanctioned.

No. 842 KP

Superintending Engineer's Office,

II CIRCLE,

Dated 1st July 1890.

From,

J. Hannan Esquire,

Superintending Engineer,

II Circle.

To,

The Chief Engineer,

P. W. Department,
Madras.

Encl. 25

1. Specification
2. Road map
3. Classified statement
4. Detailed estimate
5. Calculation sheet
6. Statement of
7. General statement
8. Road & survey
9. Plans
10. Copy of B.O.
11. Copy of B.O.

Sir,

I have the honor to submit for
your approval and sanction of Govt.,
an Estimate amounting to Rs. 1,03,439
for metalling the road from Masulipatam
to Gudivada via Bowtaram in the Kistna Dist.

2. The Specification report accom-
panying the Estimate explains the way
the metal &c. is to be laid.

3. Copy of the Board's Resolution
No. 1 of 14th Instant is enclosed.

4. The rates are fair and the
Estimate is recommended for sanction.

I have the honor to be,
Sir,
Your most Obedt. Servt.

J. Hannan

Superintending Engineer,
II Circle.

P.W. Code 6359

From
The Supt. Engineer
2nd Circle

To The Chief Engineer
P.W. Department
Madras

Dated 1st July 1890
Recd 7-7-90
10842 KP

sub 25
Road from Masali-
patam to Gudwad.
Estimate amounting
to Rs 1,03,439 for
metalling the road
for sanction

10842 KP
10842 KP

1917

Public Works Department.

Current No. 6359
Letter No. 842 K.S.
Dated 1st July 1890
From the Supt. Eng. II Circle
Sanction 10842 KP
17.7.90

NOTE OF REMARKS.

The accompanying plan
+ estimate the later approx.
quantity Rs 1,03,439 for raising
when necessary + installing
20 miles of road from
Masalipatam to Gudwad
in the Kistna Dist. -

- The estimate is divided
as follows -
- | | |
|------------------------|---------|
| (1) Earthwork | Rs 2434 |
| (2) Clay over road | 3621 |
| (3) Sand | 14404 |
| (4) Mixing + rolling | 3226 |
| (5) Swamp + humus | 3324 |
| (6) Broken stone | 52868 |
| (7) Sanding over metal | 1418 |
| (8) Watering + rolling | 3510 |
| (9) Sectioning | 47 |
| (10) Petty supervision | 2323 |
| (11) Contingencies | 2323 |
| (12) Road dams (16) | 13941 |

Total Rs 1,03,439

The top width of the
roadway is to be 16 ft
with 10 ft of metalled surface
6 inches thick, and 3 ft
of earth margin on
each side.

Where the soil is sandy
clay is to be mixed with

Sand to a depth of 6 inches
and where it is black
cotton, sand is to be mixed
as to form in each case
is hard bed for the matting.

The matting is to be blinded
with sand, 1" thick watered &
rolled -

The road damms are to be
constructed as follows -

The foundations are to
be prepared by a bed
of sand 1 1/2' deep on which
will be laid dry stone packing
9" thick with matting
6" thick blinded with
sand -

The up-stream sides of
the damms to be protected
by a retaining wall &
the down stream sides
will be provided with
apron 3 ft in width -

The mileage marked
on the longitudinal
Section is apparently
incorrect & has been
altered in pencil -

The rates for cartage
cannot be checked
as there are no corresponding
figures in the schedule -

The rates for masonry
dry stone & plastering
vary in each of the
Estimates according
to distance of cartage
& cannot be satisfactorily
compared with the
rates in the schedule.

2086
/ 4

Complete data list
are submitted for
quack Est. -

The road will cost
Rs 517 1/2 per mile including
masonry work -

The plans & Estimates
have been compared
by the President
of the Dist. Board -

C. P.
46.7.90

A/

No. 20865

20865
PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 1st August 1890

Read the following

From ^{Pavur} S. E. II Circle No 842 R.S. dt 1 July 90.

24/8
27/7/90

The estimate amounting to Rs 1,03,439 for metalling the road from Masulipatam to Gudivada - (via Pedana & Cowbaram) in the Krishna District, is sanctioned.

2. This sanction has been registered as Local No 13 W of 1890-91.

29/7/90

18.7.90

The
Supgr Engr II Circle
Local Municipal Deptl
with 53. encl. 10.

20/7/90

10/8/90

[Faint handwritten notes]

[Faint handwritten notes]

To
The Hon. Secy of the
Army
Washington
D.C.

Obs 99. VII
CS 21. VII
Hm 23. VII
W 29. VII

2086
6

6359.

Govt. of Madras.

PUBLIC WORKS.

Dated

Recd.

Encl.

G.O. 18 Aug 1890, No. 20864.

Road.

Estimate amounting
to Rs. 1,23,439 for metalling
the road from Masulipatam
to Guduvada District.

Sanctioned

10
3

29048

2/8