

Public Works (1898) Department.

G.O., No. 90 2

DATED 14 January 1898

17/1/1898

[Despatch Abstract.]

Inver Xarivara Kundu Road, Supplemental
estimate of Rs. 2100 for constructing masonry
works on the — in the Melaka D. & sanctioned
with remarks.

140
\$

2/1/1898

15/1

Supplemental estimate of Rs. 2,100 for constructing masonry works on the —, in the Malabar district, sanctioned with remarks.

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers :—

From J. HANNAN, Esq., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Camp Coonoor, 20th October 1897, No. 576/W.

In continuation of this office endorsement, No. A./1, dated 22nd September last, on the Executive Engineer, West Coast Division's letter, No. 648/S.E., dated 18th idem, I have the honour to submit a plan and an estimate amounting to Rs. 2,050 for constructing masonry works on Tuvur-Karivarakundu road in Ernad taluk, Malabar district, and to request that you will be good enough to obtain the sanction of Government to the same as second supplemental to the estimate of Rs. 7,040 sanctioned in G.O., No. 1862 W., dated 12th July 1897.

Note by the Chief Engineer, Public Works Department.

The Chief Engineer considers that the depth of the rough stone apron of 10' culvert should be increased from $1\frac{1}{2}'$ to 2', and that the abutments and wings of 6' and 10' culverts should be given a batter. By these alterations the estimate has been raised from Rs. 2,050 to Rs. 2,100.

2. The depth of the soil in each case should have been mentioned. The thickness of foundations allowed in each case, viz., 1' for laterite and $2\frac{1}{2}'$ for loam, is sufficient.

8th January 1898.

(Signed) W. B. DEWINTON,
Ag. Chief Engineer.

ORDER—No. 90 W., dated 14th January 1898.

The estimate amounting to Rs. 2,100, as altered by the Chief Engineer for constructing masonry works on the Tuvur-Karivarakundu road, in the Malabar district, is sanctioned as supplemental to the estimates aggregating Rs. 12,190 sanctioned in G.Os., No. 1862 W., dated 12th July 1897, and No. 879 W., dated 29th March 1897.

2. There is a provision of Rs. 43,000 in the current year's budget for the road in question.

3. Attention is drawn to the Chief Engineer's note recorded above.

4. The sanction accorded in paragraph 1 has been registered as Provincial No. 76 W. of 1897-98 and classified as Communications—Original Works.

(True Extract.)

Under Secretary to Government.

To the Superintending Engineer, IV Circle, with five enclosures.
 " Examiner, Public Works Accounts.
 " Judicial Department.
 " Revenue Department.
 " Local and Municipal Department.

Exd. T. K. Narayana Aiyangar.

Papers to be read in proceedings:—

Again G.O., dated.

189 , No.

Again G.O., dated

189 , No.

Current No. 10556 of 1897, dated 20 October 1897, from The Suptg Engineer
TV Board
,, ,, , January 1898 ,, the Chief Engineer P.W.D.
,, ,, , ,, ,
JH
JK-1-98.

ORDER.

The estimate amounting to Rs 2,100, as altered by the Chief Engineer, for constructing masonry works ^{on} the Suvar Kariwara-Kunder road, in the Malabar District, is sanctioned as supplemental to the estimates aggregating Rs 12,190 sanctioned in Govt No 1862 W dated 12th July 1897 and No 879 W dated 29th March 1897.

2. There is a provision of Rs 43000 in the current year's budget for the roads in question.

3. Attention is drawn to the Chief Engineer's note recorded above.

4. The sanction accorded
in para 1 has been registered
as

as Provincial No 76 W of 1897-98
and classified as Communications
Original Works.

Cy
Maj

Note

Summary
S. W.

W. H. S. S.

This estimate which is
dealt with in the accompany-
ing technical note is recommended
for sanction

Cy
Maj

Summary
S. W.

W. H. S. S.

To
B. W. S.
The S. E. W. level with 5 under
" Texas P. W. Accts.
" Judicial Dept.
" Revenue Dept.
" L. & M. Dept.
27/1/98

2nd P. W. S.

Note by the Chief Engineer

The Chief Engineer con-
siders that the depth of the
rough stone apron of 10' culvert
should be increased from $1\frac{1}{2}$ ' to
2' and that the abutments
and wings of 6' and 10' culverts
should be given a batter.
By these alterations the
estimate has been raised
from Rs 2050 to Rs 2100.

2. The depth of the soil in
each case should have been
mentioned. This omission
should now be supplied.

The thickness of found? allowed
in each case, viz 1' for laterite
& $2\frac{1}{2}$ ' for loam is sufficient

Cy
Maj

Summary
S. E. W.

W. H. S. S.
2.1.98

Public Works Department.

Current No. 10556

Letter No. 516/W

Dated

20 October 1897

From the

Chief Engineer IV Circle.

NOTE BY TECHNICAL SECTION.

Name of work

Masonry works on Tunnar
Kariyarakundin in Small Taluk, Malabar
District,
Amount of Estimate Rs 2050.

W.
I would suggest that the
concrete foundations for the 10' culverts
should be in one block under
abutments & that instead of an
isolated block under each abutment
and flooring stone under the
cent. The discharge through the
culvert is calculated by formula
 $Q = CM^{\frac{2}{3}} = 205$ and the

dimensions are 10' x 5' (apparently, but
the height is not asked), but MFL is
not shown. Similar remarks

apply to culvert at 71st chain
as reports hydraulic details. In
report to culverts at 4th chain, then
are no hydraulic details. This may not
be necessary where the vents are the
same, but it might at least be
indicated whether the soil and the drainage
are the same. It is necessary.

The SE IV Circle, submits for the sanc-
tion of Govt. an estimate amounting
to Rs 2050, for constructing masonry
works on Tunnar Kariyarakundin road
in the Small Taluk, Malabar District,
as supplemental to the estimate, a-
mounting to Rs 7040, sanctioned in G.O.
No. 1862 W dated 12th July 1897.

The estimate provides for construct-
ing the undermentioned culverts &
road drains in places where the sur-
face drainage crosses the road.

1 Culvert at 4th chain, 2 feet span.

1 do at 46th chain, 2 do

1 do at 71st chain, 6 do

1 box culvert at 72nd chain, 9" vent, wooden

1 culvert at 96th chain, 3 feet span.

1 do at 128th chain, 10' do

1 do at 158th chain, 6 do

1 do at 173rd chain, 2 do

1 do at 185th chain, 3 do

& 9 other road drains
at various places.

Public Works (1897) Department.

CURRENT No. 10556

Order

From The Supg. Engineer
To Circle

No. 576

Dated 20th October 1897.

Received 22-10-97

Enclosures 4. 5 (1 May)

Spare copies ✓

SUBJECT.

Twar Karivarakundu Road in Ernad Taluk

Submits for sanction of Govt. plan & est. amtg. 5000 Rs. 2050 for constructing masonry works on — as 2nd Supplemental to the Estimate already sanctioned.

I am submitting
correct
10/10/97

The circle vary at sites of proposed construction. They are noted on the design against each culvert.

The side walls & returns of the culverts will be built of rough stone in mortar on concrete foundations, where no rock or hard laterite is met with & the surface of walls finished with chunnam. The vents will be covered with slab stones & the returns protected with rough stone masonry.

The platform of the 10 feet vent culvert will be of wooden planks 3" thick, carried on double iron rails placed at right angles to the stream & the sides filled with wooden board rails.

The discharges above are given & it is not possible to check whether the size of vents proposed is sufficient for the discharge, as no cross section of fall is given.

The rates are fair.

24.11.97

The estimate has been altered as ordered by W. & the total increased from Rs 2050 to Rs 2100.

20/11/97

Call attention to fact that...

26/11/97

28/11/97

29/11

to know the depth as well as the nature of the soil in each case, but this is not reported in a single instance. The Superintending Engineer forwards the Estimate without comment of any kind. It seems necessary to return the plans with reference to the above remarks.

Cost 25/11/97

The report is to be sent to the Secy. & will be written in plan & made into a map of 10' culvert 2 1/2 ft. here later on up to 10' & 6' culvert 2' ft. here

15/11/97

BACK PAPERS.

G.O.	No.	Department.	Date.
	1862 W	P. W.	12-7-97 ✓
	879 W		27-3-97 ✓

FURTHER PAPERS.

G.O.	No.	Department.	Date.

Supg. Engineer's office, 4th Circle
Camp Coonor 20 October 1897.

No. 576
W

Throu,

J. Hannan Esq
Supg. Engineer Fourth Circle
Coimbatore

S,

The Chief Engineer
P. W. D. Madras.

Sir,

64-58824.9
Cm 7262
Coimbatore 5.4.97

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ta sheet

In continuation of this office order No. A,
dated 22nd September last on the Executive
Engineer West Coast Division letter No. 648 dated
18th idem, I have the honor to submit a plan and
an estimate amounting to Rs 2050 for constructing
masonry works on Tuvur Karivara Kunda road
in Ernad Talug, Malabar District, and to re-
quest that you will be good enough to obtain
the sanction of Government to the same as second
supplemental to the Estimate of Rs 7040 sanctioned
in G. O. No. 1862 W. dated 12th July 1897.

I have the honor to be
Sir,
Your most obedient servant.

Hannan
Supg. Engineer, 4th Circle