

Public Works (1898) Depart.

G.O., No. 660 W

DATED 11.3.98

File

13/3/98

[Despatch Abstract.]

New road from Samayanellor to Madura. Estimate of Rs. 11,192 for constructing masonry works and graveling the —, sanctioned with remark, and the estimate of Rs. 9,520 for a bridge with the 65th mile of road No. 2 from Madura to Ramnad, ordered to be dealt with separately.

90
12

11.3.98

Government (1898) of Madras.
PUBLIC WORKS.

Spare copies

G.O., No. 660 W., 11th March 1898.

MARCH.

Estimate of Rs. 11,192, for constructing masonry works and gravelling the —, mentioned with remark; and the estimate of Rs. 9,520 for a bridge in the 65th mile of road No. 2 from Madura to Ramnad, ordered to be dealt with separately.

No. 660 W., 11TH MARCH 1898.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers:—

From Lieut.-Col. O. V. BODDY, R.E., Superintending Engineer, VI Circle, to the Chief Engineer, Public Works Department, dated Trichinopoly, 19th March 1897, No. 430 M.D.

I have the honour to forward for sanction an estimate amounting to Rs. 11,430, for the construction of masonry works and gravelling the new road from Samayanallur to Madura accompanied by a detailed report, index map, survey and level sections of road, site plans and drawings of masonry works, &c., as per enclosures noted in the margin.

- 1 Index map.
- 1 Book of detailed survey.
- 1 Tracing plan of road dam, Paravai tank.
- 2 Site surveys of " "
- 1 Tracing plan of road dam for Kondamari odai.
- 1 Site plan of road dam for Kondamari odai.
- 1 Tracing plan of road dam for Thothaneri channel.
- 1 Site plan of road dam for Thothaneri channel.
- 1 Report.
- 1 Road-metal rate book.
- 1 Estimate with abstract estimate complete.
- 1 Quarry sketch.
- 1 Statement of acres under Paravai and Velangudy tanks.
- 1 District Board Proceedings, No. 205 of 1896, dated 14th December 1896.

for a width of 10 feet, and build masonry tunnels, road dams, &c., where the road is intercepted by cross drainages, irrigation channels, &c.

3. A full account of the new road and its masonry works is given in the report accompanying the estimate. The design of the masonry works is of the ordinary type requiring no special comment. The quantity of water to be discharged through the drainage tunnels is said to be very little, but to enable a man to go through the tunnels the size of all the vents have been designed 2' x 2'.

The waterway allowed for the road dams appears to be ample.

4. The estimate is recommended for sanction. The Proceedings of the District Board, Madura, dated 14th December 1896, No. 205 of 1896, sanctioning the estimate is forwarded.

From J. TWIGG, Esq., President, District Board, Madura, to the Secretary to Government, Local and Municipal Department, dated 29th March 1897, R.C. No. 1994.

I have the honour to request that the estimate of Rs. 11,430 for the construction of masonry work on and gravelling the Madura-Samayanallur new road, forwarded through the Superintending Engineer, VI Circle, with this office No. 704, dated 21st December 1896, may be returned approved to me at an early date.

No. 660 W., 11TH MARCH 1898.

No. 470, Local and Municipal.

Transferred to the Public Works Department.

(Signed) G. S. FORBES,
Secretary to Government.

FORT ST. GEORGE,
8th April 1897.

From Lieut.-Col. O. V. BODDY, R.E., Superintending Engineer, VI Circle, to the Chief Engineer, Public Works Department, dated Trichinopoly, 27th September 1897, No. 1364 M.D.

With reference to your memo., No. 2602 C., dated 21st May 1897, I have the honour to retransmit, for sanction of Government, the estimate for the construction of masonry works and gravelling the new road from Samayanallur to Madura.

Your orders contained in the above-quoted memorandum have been given effect to. The calculations on sheet No. 2 (site plan of Paravai tank surplus channel) do not appear to be correct. The discharge over the surplus weir of the Paravai tank is calculated to be 453.60 cusecs, whereas if there is a clear overfall, it cannot be more than 274 cusecs. The error is, however, on the right side, and the design may be passed.

The discharge of the Kondamari odai (sheet No. 3) calculated from cross sections of the stream can only give a very approximate result, and I presume there is no record of the highest flood at the railway bridge, which, to be of any use, should have been observed above and below the bridge. Looking at the dimensions of the bridge, the waterway allowed for the road dam seems ample. If there is any surplus it could spill over the road without doing much harm.

Bridges at both these sites would have been better than road dams, but the cost would have been enormously increased, and for a road of this class road dams may be allowed.

The discharge over the weir of the Thothaneri tank (sheet No. 4) appears to have been over-calculated. With a head of .60, the discharge would be about 300 cusecs. The error is on the right side and the design may be passed.

The estimate is recommended for sanction.

From J. TWIGG, Esq., President, District Board, Madura, to the Secretary to Government, Local and Municipal Department, dated 4th November 1897, R.C. No. 356.

I have the honour to state that plans and estimates for the undermentioned two works were sent to the Superintending Engineer, VI Circle, for scrutiny and transmission to Government on 28th June 1897 and 21st August 1897, respectively:—

	RS.
1. Construction of masonry works on and gravelling the new road from Madura to Samayanallur	11,430
2. Construction of a bridge in the 65th mile of road No. 2, Madura to Ramnad	9,520

As the plans and estimates have not yet been returned approved, I request the favour of early orders on them. It is very important that the bridge work should be commenced immediately after the north-east monsoon is over.

No. 1162, Local and Municipal.

Transferred to the Public Works Department.

(Signed) G. S. FORBES,
Secretary to Government.
11th November 1897.

Papers to be read in Proceedings:—



189, No. 1119
189, No. , from
, "
, "

Again G.O., dated

Again G.O., dated

Current Nos:

2967, 3643, 9701
10257, 12427 of 1897,
Note by the Chief Engineer

ORDER.

Not a bill under

660 Wg 11.3.98

The Estimate amounting to Rs 11,192, as altered by the Chief Engineer, for Constructing Masonry Works and gravelling the new road from Samayanallur to Madura is Sanctioned.

2. Attention is drawn to the Chief Engineer's Note recorded above.
3. Separate orders will issue as regards the estimate of Rs 9,520 for a bridge in the 65th mile of road No. 2 from Madura to Ramnad referred to by the President, District Board, in his letter No. 356 of 1896-97, dated 4th November '97.
4. The Sanction Accorded

To the Secretary Local Department for favours of Counter initials.

Note for the Secretary no objection in this Department

11/5/98

No. 660 W., 11th MARCH 1898.

Telegram from the President, District Board, Madura, to the Secretary to Government, Local and Municipal Department, dated 10th December 1897. Estimates for masonry works Madura-Samayanallur road and bridge on Madura-Ramnad road long pending scrutiny from Public Works Department. Please obtain them and expedite Government.

No. 1305, Local and Municipal. Transferred to the Public Works Department, in continuation of endorsement No. 1162, dated 11th November 1897. 14th December 1897.

(Signed) H. TREMENHEERE, Ag. Secretary to Government.

Note by the Chief Engineer, Public Works Department.

The undersigned considers that there is no necessity for a front wall to the road dams. It has therefore been omitted and the apron in rear extended to 12 feet. The rubble 2 feet thick should be packed on end and interstices filled with clips well driven home with crowbars. The coping of the rear wall and retaining wall of apron should be cut-stone on edge in surki mortar. By these alterations the estimate has been reduced from Rs. 11,430 to Rs. 11,192 and is recommended for sanction.

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

ORDER—No. 660 W., dated 11th March 1898.

The estimate amounting to Rs. 11,192, as altered by the Chief Engineer, for constructing masonry works and gravelling the new road from Samayanallur to Madura, is sanctioned.

2. Attention is drawn to the Chief Engineer's note recorded above.
3. Separate orders will issue as regards the estimate of Rs. 9,520 for a bridge in the 65th mile of road No. 2 from Madura to Ramnad referred to by the President, District Board, in his letter No. 356 of 1896-97, dated 4th November 1897.
4. The sanction accorded in paragraph 1 has been registered as Local No. 16 W. of 1897-98.

(True Extract.)

Under Secretary to Government.

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

Exd. T. K. Narayana Aiyangar.

in Para 1 has been registered
as Local No 16 W of 1897-98

Cy
May

Srom
1.3.98

W. H. H.
J. T.
5.3.98

Note.

This estimate is dealt with
in the accompanying technical
notes

Srom
1.3.98

Cy
May

W. H. H.
J. T.
5.3.98

T.H.
B.P.H.

S. E. VI Circle (21)
L.H. Dept with S. E. Circle

Let in Sept 4/3/98.
7-3-98

108

Note by the Chief Engineer

The undersigned
Considers that there is
no necessity for a front
wall to the road dams.
It has therefore been
omitted and the Apron
in rear extended to 12'.
The rubble 2' thick should
be packed on end and
interstices filled with
clips well driven home
with crowbars. The coping
of the rear wall and
retaining wall of Apron
should be cut stone on
edge in Swicki mortar.
By these alterations
the estimate has been
~~raised~~ ^{reduced} from Rs 11,430 to
Rs 11,192 and is recommended
for Sanction.

Srom
1.3.98

W. H. H.
J. T.
5.3.98
E. W.

May

Public Works Department.

Current No. 2967
Letter No. 430 M. D.
Dated 19th March 1897.
From the Superintending Engineer
6th Circle.

NOTE BY TECHNICAL SECTION.

Name of work Constructing masonry
works and gravelling the new road
from Samayamullore to chadura.
Amount of Estimate Rs. 11,430.
as per following particulars:—

Constructing a Road dam 140 ft long.
Rs. 1105.
— do — do — 80' long = 630
— do — do — 180' — = 2220
— do — a side dam 120' — = 590.
— do — 17 tunnels of one foot
of 2x2 each (14 of which
are for Irrigation purposes and
3 for Drainage) — — — — 2225

Total Rs. 6,770
Gravelling road — — — 4,660
Total Estimate. 11,430

It is stated in the report
accompanying the Estimate that
the roads starting from chadura
and crossing the river Vaigai
have no bridges in two places.
The river is provided with a
bridge at chadura and
there

For orders.
Draft Pro.
Submitted
5/5/97

there being no line of communication connecting the main roads from one side of the river with the bridge and the roads on the opposite bank, traffic becomes impossible on the roads unconnected with the bridge when the river is in freshes.

To remove the above difficulties an Earth road was constructed in the year 1892 at a cost of Rs. 3,208 from Samayamallore to Chidambaram.

The road takes off from Road No 6 (Chidambaram to Dindigul) at its 7th mile, 2^d furlong and runs close to the northern bank of the river at an average distance of half a mile almost parallel to the Railway line touching the villages of Paravai, Vilangudi and Kurasaikolam and joins the Palamedu road.

It branches again and runs on the bank of the river and joins the fair weather road at the Railway Girdler bridge. Please see Index Map accompanying the Estimate.

The

The Earth road thus formed has a top width of 18 ft. and side slopes $1\frac{1}{2}$ to 1. It is now proposed to gravel the top surface for a width of 10 ft. and 6" thick as the road will be serviceable for traffic only during the floods in the Vaigai river and at other times the traffic can cross the river.

It is also proposed to build masonry tunnels and Road dams where the road is intercepted by cross drainages and Irrigation channels.

The absence of hydraulic details is a defect which renders it impossible to calculate whether the waterway provided at the road-dams is suitable. Longitudinal and cross sections of the ^{5 ft. deep} ~~road~~ should have been given. It scarcely suffices to state, as the Superintending Engineer does, that "the waterway appears for the road dams to be ample". Some proof that it is so should have been submitted.

It is thought that where foundations consist of 1 foot of concrete and masonry above, the

hydraulic particulars accompanying the Estimate, but the Supr. Engr. in his letter forwarding the Estimate for sanction, states that the quantity of water to be discharged through the drainage tunnels is said to be very little, but to enable a man to go through the tunnels, the size of all the vents have been designed 2' x 2'. He also states that the waterway allowed for the road dams appears

that the estimate may be sanctioned.

The tunnels and road dams are proposed to be built of brick in Chumam and planked with cement. The coping of parapets &c are to be provided with cut stone and the aprons of road dams to be built of dry rubble stone.

Nature of soil for each work is given on plan.

Rates. - The rates for masonry works are fair. For gravelling the rates cannot be checked as they are not given in the Dist. Schedule.

The estimate has been countersigned by the President, Dist. Board, but not the plans.

The Proceedings of the Dist. Board, Chidura, dated 14th December 1896 sanctioning the estimate is submitted.

At
4/5/97.

that the former might be increased and the latter reduced by one foot.

The plans must be signed by the President of the District Board.

Orders are requested as to whether the estimate should be passed in the absence of hydraulic details, for if the streams are rapid, so may the water way at the dams be insufficient, but the foundations may be considered to be shallow.

Consd
15/5/97.

The information may be called for.

15/5/97

Public Works (1897) Department.

CURRENT No. 2967

Order

From

The Sup^r Engineer
6th circle

No. 430 in D

Dated 19th March 1897

Received 22-3-97

Enclosures 15-21 (+14 Plans)

Spare copies

SUBJECT.

Road from Samaya.
- nallur to Madura.

Forwards for sanction an estimate amounting to Rs 11,430 for the construction of masonry works and gravelling the new —

For sanctioning
Consd.
23/3/97

O.L.S 64 R 20/5

FURTHER PAPER

[illegible]

OFFICE OF THE SUPERINTENDING ENGINEER,
6TH CIRCLE,

From *Subst. A. V. Boddy R.E.*
The Sperintending Engineer,
6th Circle.

To
The Chief Engineer,

P. W. J.

I have the honor to forward for

sanction are estimate amount of
ing of Rs 11,430 for the con- in

struction of masonry works
and graveling the new
road from Samayavathur
to Madurai accompanied
by a detailed report, Index
Map, Survey and level sec-
tions of Road, site plans
and drawings of masonry
works &c as per enclosure
noted in the margin.

2. An estimate amounting to \$ 3,200 for the earthwork of this road was prepared by the Engineer in 1890.

by the District Board Engineer in 1890
This estimate after scrutiny in the

P. W. D. 6th CIRCLE.

FROM
THE SUPERINTENDING ENGINEER,
6th CIRCLE.

TO
THE CHIEF ENGINEER,

NO.

Dated. }
Received. } 189 .

Enclosure.

Public works
~~Local & Munt.~~

(189) Department.
CURRENT No. *9062*
3643

SECRETARY TO GOVERNMENT
MUNICIPAL DEPARTMENT
1897-1898
MAR 18 1897
P. O. BOX 18
CHADURA

from

The Director

No 47048-4-97
~~Order~~
Transferred to the Public
Works Department.

Roc No. 1994

Dated 29th March 1897

Received *9.4.97*

Registered

Enclosures

Spare copies

K.R.
11/4/97
Fort Saint George
April 1897

Secretary of Government.

SUBJECT.

Chadura - Samayana Division
Requesting to return
approved, the estimate
for the construction of
masonry works on and
warded through the Supr?
Engr. II circle.

To
The Public Works Department.

To 30 estimate
estimate
29/4/97

O.L.S. 64 R 20/5

15/5/97

found to be rather

BACK PAPERS

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

Re No. 1994

MADURA DISTRICT BOARD OFFICE, uBP

29th March 1897.

LOCAL & MUNICIPAL DEPT.

CURRENT No. 906 L

J. J. Esquire,
President, District Board,
Madura.

From

To

The Chief Secretary to Government,
Local and Municipal Department,
Madras.

Sir,

I have the honor to request that the estimate of Rs 11,430 for the construction of masonry work on the and gravelling the Madura-Samaya matter new road, forwarded through the Superintending Engineer, III circle, with this office to 21.12.96 may be returned approved to me as an early date.

I have the honor to be
Sir
Your most obedt & afft
Sd/-
J. J. Esquire
President, District Board

29.3.97

Current No. 2967 9701Letter No. 4304 D 1364 M.D.Dated 19th Sept 1897From the Supt. Engr. H. C. C. C.

NOTE BY TECHNICAL SECTION.

Name of work... Constructing Malayaworks & travelling the new road from Samayamulla to Madura. Est R: 11,430.This estimate was reviewed in the Technical Section in note dated 4/5/97 and returned by the Chief Engineer in his No 2602 C of 21st May 1897 to the Supt. Engineer.H. C. C. C. for certain hydraulic details to determine whether the waterway provided at the road-damsis suitable; for longitudinal and cross sections of the streams; and for the construction of the plans by the President District Board.This memorandum was replied to by the Supt. Engr. H. C. C. in his letter No 1364 M.D. dated 27th Sept 1897 furnishing the necessary information called for. The hydraulic details furnished have been checked and found to be ratherW.The road dams will have water running about 3 ft. deep with a velocity of 5 or 6 c. ft. per sec. going over them. The side walls of these dams are brick in masonry, with no coping. It would be advisable to have a 9" stone or ridge coping on the downstream side at all events.The rest of the est. calls for no comment -Errom
1.2.98I can find out what these dams are to be made of. These explainTo WErrom
1.2.98

Not calculated - very much so
 in the case of the Paravai Dam
 Sheet No 2 when the discharge
 on details furnished, works
 out to 276 Cub Ft a second
 against 453.60 Cub Ft a second as
 noted - The errors, however,
 as pointed out by the Supd
 Engineer in his letter No 1364
 M.D. of 27th Sept 1897 are
 on the right side.

The Velocities of the streams run
 as high as 5 to 6 feet per second
 which points to frequent ne-
 cessity for maintaining the
 road dams during rains.

The cross sections of streams
 are in sufficient detail
 to determine data for road
 dams.

The Plans have been recom-
 mended by the President
 District Board.

10-2-11
 1. 2. 98.

There is no necessity
 for a front wall to
 the road dam.
 It can be omitted, &
 the apron can
 be extended to 12' -
 The rubble 2' thick
 should be packed in
 sand, & the interstices
 filled with chips
 well driven home with
 crow bars - The coping
 of rear wall & certain
 part of apron should
 be cut stone masonry.
 in rubble masonry -
 Estimate to be
 revised accordingly

[Signature]

T. Review est. acc. 2.2.86
 DW's instructions
 above.

DW.

S. 2298

1. 2. 98.

Public Works (1897) Department.

CURRENT No. 9701

Order

From

The Supd Engineer
 6th Circle

No. 1364 M.D.

Dated 27th September 1907.

Received

Enclosures

Spare copies

SUBJECT.

New Road from Samaya.
 - nallur to Madura.

Retransmits for sanction
 the estimates for the con-
 struction of masonry
 works and gravelling the-

J. [Signature]
 1. 2. 98.

W.

J. V. Wadley Lt Col. R.E.

Requesting the favour of early
orders on plans and estimates
for certain works, submitted
for approval through the Sup^d
Engineer, II circle.

7 10 afisele
de la poarta
antimurului

16.11.57

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

Madura District Board Office,

10. C No. 356 of 96-97

4th November 1897

From

J. Twigg Esquire,
President, District Board,
Madura.

To

The Secretary to Government,
Local and Municipal Department,
Madras.

Sir,

I have the honor to state that plans and estimates for the undermentioned 2 works were sent to the Superintending Engineer, 6th circle, for scrutiny and transmission to Government on 28-6-97 and 21-8-97 respectively:—

1. Construction of masonry works on and gravelling the new road from Madura to Samayanallur — Rs 11,430
2. Construction of a bridge in the 65th mile of Road No 2 - Madura to Rannad. — Rs 9520

As the plans and estimates have not yet been returned approved, I request the favour of early orders on them. It is very important that the bridge work should be commenced immediately after the north-east monsoon is over.

I have the honor to be
Sir
Your most obedient servt
S. Shanmugam
For President

✓ Cus 9701
with J

✓ Cus 9661
with J

Public Works
Local & Munl. (189) Department.

12427
CURRENT No. 3241 L

No 1305 of 14-12-97 8P From The President of the
- Madure.

Order

Transferred to the Public
Works Department in continuation
of Endorsement No 1162 of 11th
November 1897. CN: 11257 with J.

No. 1305

14. 12. 97

Dated 10. 12. 97.

Received 11. 12. 97

Registered 15. 12. 97

H. Remondet

Secy. Secretary to Government. Enclosures one
Spare copies.

1. 12.
13/11/97

SUBJECT.

Re. Scrutiny of estimates for
masonry works on the Madure
Sanyanath road and bridge
on the Madure Ramnad
road.

To The Public Works department.

Ans. 1
11257/97

1/3/12
19-12

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

INDIAN



TELEGRAPH

66179
Monthly Number.

Code Class.

To

(Office)

Words.

Day.

Hour.

Minute.

Official Instructions.

From

(Office)

To

(Person)

From

(Person)



Madras City Municipal Board
Local and Municipal Department

estimates for masonry works.
Madras Samayanallure road
and bridge on Madras main road
and long pending scrutiny
from public works department.
please obtain them and
expedite government

64 Word Form.

F.C.2.

Recd. from

LN.

Sent to

LN.

Hrs

Mts by

At

Hrs.

Mts by

Telegraph Master.