

(1) Number of pages 44

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.**Government of Madras.***Public Works* **DEPARTMENT.**

G.O. No.	549	Press
		Mis.
Dated	6 - 8,	1877.

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

6th August 1877, No. 549 W.

Buildings and Roads.

Civil Works.

Read the following papers :—

No. 68. Proceedings, Financial Department, dated 12th April 1877, No. 1,240.

No. 68-A. Endorsement of the Under Secretary to Government, dated 18th June 1877, No. 1,275.

Proceedings of the Board of Revenue, dated 21st May 1877, No. 2,321.

Read the following letter from J. C. HUGHESDON, Esq., Acting President of the Local Fund Boards, South Arcot, to H. E. STOKES, Esq., Secretary to the Board of Revenue, dated Virdachellam, 28th April 1877, No. 18 :—

WITH reference to the Proceedings of the Board of Revenue, dated 21st ultimo, Miscellaneous No. 4,202, referring for the President's remarks Government Order in the Public Works Department, No. 554, dated 19th February last, on the subject of the contribution to be made by the Cuddalore Local Fund Board towards the protective works of the Poonair bridge, I have the honor to enclose a copy of the Circle Board's Resolution No. 11 passed at their Meeting held on the 28th ultimo.

2. It will be observed from the above resolution that the Local Fund Board have agreed to bear half the cost of the repair of the bridge, and request that the other half may be borne by Government.

3. The outlay on the work up to 31st March last, amounting to Rupees 21,050, has been debited to Local Funds; and if the Government allot the moiety of the estimate as requested, the work can be put in hand at once and carried out in the current official year.

At a meeting of the Local Fund Board, Cuddalore Circle, held at Cuddalore, on the 28th March 1877.

Read Revenue Board's Proceedings, dated 21st March 1877, Miscellaneous No. 4,202, communicating G.O. No. 554, dated 19th February 1877, Public Works Department, sanctioning, with remarks, the estimate, amounting to Rupees 44,200, for repairs and protective works to the Pooniar bridge near Munjakuppam.

11. The whole expenditure up to date on the estimate of Rupees 44,200 has been debited to Local Funds. The Local Fund Board have already requested Government to contribute a moiety of the cost of the work, and it is hoped that early and favorable orders will be passed. The Board regret that they are unable to allot funds for the completion of the work in 1877-78, although it is of great importance that the work should be completed and the bridge made safe. If the Government sanction the moiety applied for, they trust to be able to allot the funds required for the purpose.

(Signed) P. VARDACHARRY,
Vice-President.

SUBMITTED to Government with reference to foot-note, dated 7th March 1877, No. 558, to G.O., dated 19th February 1877, No. 554, Public Works Department.

2. The Board have already in the Proceedings recorded in the above order expressed the opinion that the proposal of the Local Fund Board to pay half the cost of the protective works at the Poonair bridge is fair.

(True Copies and Extract.)

(Signed) H. E. STOKES,
Secretary.

TRANSFERRED to the Public Works Department.

(Signed) J. STURROCK,
Under Secretary.

No. 68-B. From Major H. R. MEAD, R.E., District Engineer, South Arcot, to the Chief Engineer, Public Works Department, dated Cuddalore, 16th July 1877, No. 85.

In reply to your Memorandum No. 1,889, dated 10th July 1877, regarding the Pooniar bridge at Munjakuppam, I have the honor to inform you that the

One Survey. bridge is now open for traffic, and has been so since September 1875 when I took charge of the district. In November 1874 it was considered by the late Mr. Sage so unsafe that it was closed for traffic; it was in July 1875 on Major C. J. Smith's recommendation re-opened, but in September 1875 I found it again closed, but had it re-opened as soon as I had inspected it.

2. In my letter No. 168, dated 25th November 1875, printed in G.O., No. 3,423, dated 2nd December 1875, I have fully reported on this bridge, and the Chief Engineer (General Walker) in his Memorandum No. 210-A, dated 31st January 1877, agreed with my opinion and recommended that the estimate for Rupees 44,200 (which included all outlay incurred on the temporary repairs) should be sanctioned, and this was done in G.O., No. 554, dated 19th February 1877.

This estimate provided for new front and rear retaining walls (5 feet solid resting on square wells 6 feet deep) with brick-in-chunam aprons 1 foot thick resting on 1 foot of concrete with a rough stone apron beyond 4 yards in width and 2 feet thick.

Last year six arches were protected in this way; more could not be done as the Local Fund Board could not allot money for the work, and for this reason nothing has been done this season.

3. I consider these six arches as practicably safe, but for the safety of the whole bridge we require that the protective works should be carried out if not for the whole length of the bridge at least for another six arches; the following is the present state of the bed at each arch:—

1st arch to 6th.—Protected, bed nearly on level with floorings, portions of the excavation of last year's work not yet washed away, but cuts made through it.

7th arch.—Not protected, floor level with bed.

8th arch.—Do., deep bed nearly 3 feet below floor.

9th arch.—Deep bed 2 feet below floor.

10th arch.—Bed level with floor.

11th arch.—1½ feet of sand on floor.

12th to 21st arch.—From 2 to 3 feet of sand on floorings.

The sand in rear of the piers from the 17th pier to the 11th pier show signs of an oblique current towards the south.

4. I consider the above shows that protection of some sort is required for the 7th, 8th, and 9th arches, and I think it advisable that it should be carried on to the

12th arch. The probable amount required for this is Rupees 1,410 per arch, or for six arches Rupees 8,460, and if to this be added the estimated cost of the reconstruction of the parapets similar to the rest of the bridge (the former parapet for five arches was removed by Mr. Sage and has been replaced by a substantial parapet of brick-in-mud rough plastered which is perfectly serviceable) and that for repairing the cracks in bridge, it will amount to a total of Rupees 9,250. If this amount is sanctioned and the work carried out next season, I believe the safety of the bridge will be ensured.

5. Should it not be likely that this amount be available, I would strongly urge that I should be allowed to put down a rough stone apron in front and rear of the 7th, 8th, 9th, 10th, and 11th arches; the apron in front to be 12 feet in width and 2 feet deep, that in rear 24 feet wide and 3 feet deep; the cost of this would be Rupees 280 per arch, or Rupees 1,400 for the five arches proposed; to this may be added Rupees 260 for repairing the cracks in the arches, &c., making a total of Rupees 1,660.

I infinitely prefer the former and more expensive work; and, considering the manner in which the five northern arches have sunk, believe that new retaining walls are advisable for at least six more arches; should however funds not be available for this, I consider that a rough stone protection, although it will require renewal and will in future prevent wells being sunk for the foundation of a new retaining wall, better than leaving the bridge as it is at present.

6. With reference to the 2nd paragraph of your Memorandum, I can only offer an opinion, and it is this: the Pooniar bridge foundations, 3 feet solid on 6 feet wells, is similar to the ordinary bridge construction in sandy river-beds of 20 years ago, and the numerous successful bridges show that it is sufficient, provided there is no extraordinary strain. I think however experience has taught us that for the future it is not advisable to build bridges on these shallow foundation, but that, as a general rule, 5 feet solid foundations resting on 6 feet wells is ample if protected with an apron of rough stone or brick cubes. Of course neglect of the course of a river-bed above a bridge may be fatal to it, but in Indian rivers, especially in one like the Pooniar, we must be prepared for irregularities of currents and beds.

I believe that, had the river above the Pooniar bridge been attended to, and if the bridge had had a rough stone apron, no damage would have occurred in the floods of 1874.

7. With regard to regulation of the river-bed above this bridge, I regret I can do but little as the orders of the Chief Engineer for Irrigation in his Memorandum No. 3 S. A., dated 7th March 1876, printed in G.O., No. 577, dated 21st February 1877, give me instruction in paragraph 7 to endeavor to give the river a waterway of 1,200 feet. I enclose a tracing of alignment proposed.

I consider these orders do not allow my planting grass at the point marked A in the plan, and this, I believe, would tend to reduce the set on the north bank at B, which set I consider causes a cross current on the bridge; this has been much reduced by the grass I had had planted at B. The planting of the grass at A would not, in my opinion, practically reduce the waterway of the river below what it is at present, but of course it reduces the width to less than that laid down by Colonel Mullins.

How and where this width of 1,200 feet can be attained, I can give no opinion in a river like the Pooniar, the floods of which are so seldom, so sudden and of such short duration, I fear we can do but little by the action of the water to widen it out to the width required for its extreme floods.

No. 69. ORDER THEREON, 6th August 1877, No. 549 W.

In G.O., No. 554, dated 19th February 1877, the Government sanctioned an estimate, amounting to Rupees 44,200, for repairs and protective works to the Pooniar bridge at Cuddalore. This estimate includes all temporary repairs executed, and provides, throughout the whole length of the bridge, for new front and rear retaining walls 5 feet deep resting on wells 6 feet deep, with aprons and rough stone flooring. The District Engineer states in his letter above recorded that six arches have been

thus protected and are considered by him practically safe. He estimates the cost of protecting five more of the arches with a rough stone apron in front and rear at Rupees 280 per arch, or Rupees 1,400 for the five arches, and adding Rupees 260 for repairing cracks in the arches will make a total of Rupees 1,660.

2. The District Engineer is authorized to put these works in hand as early as practicable, reporting the expenditure already incurred up to 31st March last, and the further sum required during the current official year. The amount at which the estimate of Rupees 44,200 will stand in consequence of these orders should also be stated, when formal sanction will be accorded to the reduced total. The expenditure incurred up to the end of the past official year will for the present stand debited to "Local," and the sum required during the current year will be provided under Provincial. The sanction will be regarded as "Local," and the Provincial Grant taken as a contribution.

3. Adverting to paragraph 7 of the District Engineer's letter there appears to be no objection to the continuation of the nanul planting for some 700 yards up stream on the left bank above the Pooniar bridge. There is, it is thought, little room for planting at A* on the right bank; but planting up to the dotted line may be proceeded with. The dotted lines are understood to be those laid down by the Chief Engineer for Irrigation as the proper bed width and the alignment of the river.

* Vide sketch submitted with letter No. 85, dated 16th July 1877.

(True Extract.)

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

6004

GOVT.
OF MADRAS.

187

P.W.
DEPT.

EXAMINER, P. W. ACCOUNTS.

Madras,

187

OFFICE NOTE.

To
B

IN G.O. NO. 554, DATED THE 19TH
FEBRUARY 1877, THE ESTIMATE OF RS.
44,200 FOR THE REPAIRS AND PROTECT-
IVE WORKS TO THE 'POONIAR BRIDGE'
HAS BEEN CLASSED AS 'PROVINCIAL',
AND IN MEMO NO. 210.A. THEREWITH
PRINTED, IT IS STATED THAT THE ES-
TIMATE INCLUDES ALL OUTLAY HITHER-
TO INCURRED ON THE WORK. I FIND
THAT RS. 24,429-12-8 HAVE BEEN EX-
PUNGED ON THE WORK UP TO JANUARY
1877, AND THAT THIS OUTLAY HAS
HITHERTO BEEN CHARGED TO 'LOCAL',
THE WORK HAVING BEEN ENTERED AS
ITEM NO. 4 IN PART I OF THE LOCAL
FUND BUDGET OF THE CUDDALORE CIR-
CLE FOR 1876.77. IF THIS OFFICE
IS TO GIVE EFFECT TO THE G.O. IN
QUESTION IT WILL HAVE TO TRANSFER
THE OUTLAY OF RS. 24,429-12-8 FROM
LOCAL TO PROVINCIAL ON THE UNDER-
STANDING THAT BY YOUR CLASSING THE

ESTIMATE UNDER THAT HEAD, YOU ARE
PREPARED TO MEET THIS OUTLAY, WITH
AN APPROPRIATION FROM PROVINCIAL
FUNDS. IF YOU ARE NOT THUS PREPAR-
ED IT APPEARS TO ME THAT THE ESTI-
MATE WILL HAVE TO BE CLASSED UNDER
'LOCAL', OR THAT ORDERS WILL HAVE
TO BE ISSUED, DIRECTING A DIVISION
OF THE OUTLAY, BY ALLOWING THAT PRO-
TION ALREADY INCURRED OR SUCH POR-
TION AS MAY BE DETERMINED UPON TO
REMAIN UNDER LOCAL, AND BY DEBITING
FUTURE EXPENDITURE TO 'PROVINCIAL'.

17.3.1877.

L. J. C.

To C
What is the amount
of expenditure to date
on this work? *W. H.*

Sept 13

COPD. & EXD. E. H. M.

MADRAS, 23RD. JUNE 1877.

TO B.

THE OUTLAY ON THE 'POONAIR
BRIDGE' UP TO END OF APRIL 1877 IS
RS. 24,400-10-6.

2. THE ACCOUNTS FOR MAY OF THE
CUDDAPORE DIVISION IN WHICH THE
WORK IS SITUATED HAVE NOT BEEN RE-
CEIVED IN THIS OFFICE.

L. J. C.

No 1889 of 10 July 1917
Memorandum.

The District Engineer, South Arcot,
is requested to report whether the Poniar
Bridge at Munjacoopur is at present open
for traffic. If not, how much of the bridge
is considered unsafe; also what works for
the repair or protection of the bridge are
now proposed to be carried out and at what
cost.

2 As the bridge remained quite sound
for seventeen years after it was built; it
is surmised that the damage it then sus-
tained is due not to original faulty
construction but to neglect of the course
of the river above the bridge.

Sd/ E. A. Hoord Colonel R.E.
Chief Engineer P.W.D.

To The District Engineer South Arcot

P.W.D.

Memorandum.

In para 2 of the
Proceedings of the Board of
Revenue of the 12th April 1876,
No 1010, there is an allusion
to the "original faulty
construction" of the Ponnai
Bridge at Cuddalore.
This Bridge was designed
by the late General Lawford
when Civil Engineer of the
6th Division. It was built
in 1856-57 when the under-
signed was District Engineer
of South Arcot, and had
much of his personal
supervision. No accident
occurred while the bridge
was in progress. The
materials and workmanship
were both good and there
was no "faulty construction"
whatever

whatever. The foundations were nine feet below the lowest part of the bed of the river, and consisted of four feet of masonry on five feet of wells. Very many bridges including those over the Cauvery & Coleroon have foundations of the same kind. With floorings and retaining walls, these foundations have been found to answer very well. If foundations passing through the sand to hard soil, no matter at what depth, had been insisted on, no bridges would have been built, as their cost would have been prohibitive.

The Bridge after construction was frequently examined by the undersigned when District and Superintending Engineer, not from

from the roadway but from the river bed. It was not found necessary to lay out any money on the bridge itself, but from time to time a cut was made in the bed of the river, or a groin was constructed on the North bank with a view to correct the direction of the stream, and keep it as nearly as possible at right angles to the bridge. From 1857 to 1872 when the connection of the undersigned with the District ceased, the bridge was in perfectly good order, and it was not till two years after, that it was pronounced to be in danger and in need of protective works.

The estimate for repairs and

and protective works sanctioned in G. O. of the 19th February 1877 No 554, amounting to Rupees 44,200. Now the bridge, consisting of ²¹ arches of 45 feet each only 56,000 Rs. to build, and considering that it stood uninjured the floods of fifteen years, the necessity for the enormous outlay on protective works appears due not to "original faulty construction" but to subsequent neglect and mismanagement.

E A Moul Ali N. E
Chief Engineer R. P. W.

29 June 77

22.8.81. In 24.6.77

PUBLIC WORKS DEPARTMENT.

Pro: Board of Revenue No 2321 of
21st May 1877 thro' the Financial Dept.
Memo: by the Chief Engineer
Public Works Dept dated 6.28th June 1877

FOR ORDERS.

I am happy thinking that
Col. Fortin his Memo is
expressing either to some other
work or to some part of the
bridge. The bridge requiring
B. then has been the subject of
the most serious complaint
fall to the feet of my brother
a few days or weeks after
it has opened for traffic.
This is due to the fact that
it is "orig. faulty construction"
Mr. Fortin's portable can
explain matters. In the
the add. expense is entirely
by "orig. faulty construction"
as the work is to be done

The Government are
committed to a grant of
Rs 22,000 for this work from
Provincial Funds. The diversion
of so large a sum will
seriously cripple the resources
of the Department. It is submitted
for orders whether the
appropriation be at once
made or whether the application
be considered in
connection with other demands.

demands which up to
date amount to Rs 343175,
exclusive of this work the
East Coast Canal, and
the Junction Canal.

The Reserve itself
amounts to Rs 70079.

* For Incomplete works:-	Rs 39240
" Uncommenced "	282885
" Groundy Water Sup- ply Project - - -	10130
" Range Offices, Krishna District. - - -	11000
	<u>343175</u>

This is for the estimate
I believe the amount
amounts to Rs 10000

* Inclusive of Rs 60000 proposed
to be withdrawn from the grant
for certain Budget works but
exclusive of the amount set
apart for Police works.

E A Mudd (Col. R.A.)

Secretary to Govt.
29 June 77 P.M.D.

"Subsequent to the
this manuscript" as
appears Col. Fort. it
is equally hard on the
d. F. & the minister
for the short coming
of the Govt. as to the entire P.

agreed from Govt. I am
from the papers from that the Govt. in 1862
to a grant of Rs. 22000.

My instructions to the
Governor of Rs 44200. &
asked that the d. F. &
entire to the Govt. the
and. And. F. & the Govt.
I think I hear one half.
but I do not find that the
Govt. have accepted this.
as I think. My liberal
Govt. Col. F. however appears
to consider that they have
done so. Meanwhile appearing
the Govt. expenditure. already
made. viz. Rs. 24,050.
up to 31 March last. or
less than a moiety. has
been debited to the d. F.
Govt. I am doubtful whether
the Govt. can provide this
moiety of the Govt. cost
this year. If the Govt. can

be shipped. or safely
 exposed. I am so obliged
 to suspending it till funds are
 available. but I doubt
 whether this is practicable
 & I strongly represent any
 further charge. L.F.

I doubt how No. 22000
 can be taken out of the
 Service. But perhaps
 ask Fin. I make a
 special appropriation
 for this purpose to the
 L.F. But then how
 to make change.

I am by no means sure
 however that Fin. can
 do this. L.F.

Attention to the account
 I understand the bridge
 to be now unsafe &
 so it should be made
 safe - I do not gather
 from the report

FOR ORDERS.

whether it is now
 used - I do not see
 where the 22,000 is
 to come from - I do
 like to know the facts
 at present - is the bridge
 unsafe? How much is
 money to be spent?
 I do not find there is the
 proper report of the

Letter from the District Engineer,
 South Carol., No. 85, dated 16th July 1877

FOR ORDERS.

Since the draft for No. 29th June
 of the 29th June was circulated a report
 from the District Engineer dated 16th July No. 85
 showing the present
 condition of the bridge at Folsom
 and the protective works
 required, has been received
 from the District
 Engineer.

It will be observed
 that the bridge was
 reopened for traffic
 in

They have paid No. 22000
 out of it. at this time.
 I submit from this

in September 1875, also
that the estimate of
Rs 44,200 includes all
outlay incurred on tem-
porary repairs and
provides for new front
and rear retaining walls
(for the whole length of the bridge)
of 5 feet. Resting on
wells 6 feet deep, with
aprons and rough stone
flooring. The District
Engineer states that six
arches have been thus
protected and are
considered by him as
practically safe, and
he recommends that
six more arches be
similarly protected.
The cost is estimated
at

And encloses that
J. L. D. E. considers
that the rough stone
aprons costing 1660 with
the repairs costing 770
= in all 2430 will
make the 6 arches practically
secure - which will
save between 6000 -
7000 Rupees. Should
the Engineer adopt that
suggestion - believing from
the various reports that
whichever course be
adopted - the bridge will
require partly rebuilding
before long. Rs 3077

at Rs 1410 per arch or
Rs 8460 for the six,
and including some
repairs to the bridge
at Rs 9,230.

If funds for securing
the bridge in this way
are not forthcoming
the Chief Engineer
is of opinion that
rough stone aprons
should be provided.

The cost for six arches
including sandry repairs
is estimated at Rs 1660.

The remaining arches
may be left as they
are at all events for
the present.

The District Engineer
is aware of the necessity
for

for attending to the course
of the river in the
vicinity of the bridge.

Chas. M. Fall R.E.
Chief Engineer and
Supt. of Const. P.H.D.

24th July 1877.

FOR ORDER

Poonian
Bridge

To Sd.

DE' Smith Arcvt M. 55

16 July.

I have no objection to the
continuance of the channel
planting for some 200 yards
upstream on the left bank
above the Poonian bridge.

There is little
room for planting at
A on right bank, but
planting up to the dotted
line will be beneficial.

The dotted lines on the
tracing dated 7 July 77
are probably those laid
down by me as the proper
bank width & alignment
of the river.

My views are stated in
para 7 of Memo 3 S.A.
in Dms 21 Feb. 77 M. 577

W. 18/7/77
S. J.

3386

Endowment No 705 of 1 May from the Chief Sec^y Submitting Proceedings of the Bd. of Revenue No. dated 1 May 1876 thro' Financial Department.

The Chief Engineer observes that the three proposals for Protection works to the Ponnai Bridge at Cuddalore made by the late Mr. Dudge, by Major C. F. Smith, R.E. and by the present District Engineer Smith are not differ in detail only not in principle. They consist of floors or aprons under the arches, above and below them to a greater or lesser extent guarded by retaining walls on well foundations. It is in the details of these retaining walls that the proposals chiefly vary, viz from 11 to 14 and 20 feet.

In the absence of any information as to the nature of the bed of the river the Chief Engineer sees no reason why Major Meade's design should not be sufficient to secure the objects ^{very} to obviate further damage to the injured portion of the Bridge and to save the sound portions from any damage. But it would have been more satisfactory had borings been taken and sections of the river bed above and below bridge given. The cracked arches had better be rebuilt when the walkway of the bridge is increased by additional arches, which the Chief Engineer has little doubt will have to be done eventually.

Major Mead remarks in para 12 of his letter recorded with G.O No 3223 of 2 Dec 1875 that the injured portion of the Bridge might have been permanently protected for the same money that the temporary protection has cost. But

But the Chief Engineer could not deal with the 1st proposal made with letter No. 197 of 16th Dec 1874 which gave no information. The only previous report was the Range Officer's under date 6th Nov 1874 recorded with f.o. 190 of 23rd Jan 1875 - and still so meagre was that of 12th Feb 1875 that all the action for which could take was to detail an Officer to advise the D. Eng^r what to do (see f. No. 719. A. 18th March 1875). The Local Fund Board appear to have kept aloof from the subject as long as they could in hopes probably, of the work being carried out with Provincial Funds, without reference to them. Clear and definite local action has manifestly been wanting throughout.

of f.o. 10.

6th May 1876

To

The Chief Secretary.

No 1621.

G.O. No 554 of
19th Feb 1877.

The undersigned has the honor to direct attention to para 2 of order noted on the margin, and to request that the reply may be expedited.

Amount the contribution that shall be made by the Local Fund Board towards carrying out the repairs to the Poonair bridge at Buddalore

15th June 1877.

Sd/ W. Farewell Colonel
Under Secy to Govt (P.W.)

PROCEEDINGS of the MADRAS GOVERNMENT.

Boards G. R.
No 2637.

Read the following letter *Proceed.*

ings of the Board of Revenue, dated 9th April
1877, No. 5152.

Read Endorsement of the
Operating Chief Secretary to Government of
31st March 1877, No. 451, on letter from
the Acting Joint Secretary to Government
regarding contribution to be made by the Local
Fund Board towards carrying out ^{the repairs on} to the
Ponnai bridge at Cuddalore.

Forwarded to the President Local
Fund Board South Arcot with request
that he will expedite his report on
the subject.

(True Copy Extract)
[Sd.] H. S. Stokes,
Secretary

Order,

Order thereon 12 April 1877. No. 1240

Communicated to the Public
Works Department, with reference to communi-
cation from that Department, dated 22^d -
March 1877. No. 354
1

(True Report)

Wm. H. Wood
Under Secretary

The Public Works Department.

Received from the

11th 1877

721/1877

P.W.D.

13 APR 77

NO. 2264

Financial Department

Dated 12th April 1877

1877-78

Dated
Recd.

Nos.

}

187, No.

Book of 187 + 311 adms.

Memo No 16218/15 June 11

549 IV

6004

Public Works

14th August 11 1878

(11)

24th Meeting of the Local Fund Board, Cuddalore Circle, held at Cuddalore, on the 28th March 1877.

* * * * *

Read Revenue Board's proceedings dated 21st March 1877, Miscellaneous No. 4202, communicating Government Order, No. 554, dated 19th February 1877, P.W.D., sanctioning, with remarks, the Estimate amounting to Rs. 44,200 Rupees for repairs and protective works to the Ponnai Bridge near Maingakuram. The whole expenditure up to date on the estimate of Rs. 44,200 has been debited to Local Funds. The Local Fund Board have already requested Government to contribute a moiety of the cost of the work and it is hoped that early and favourable orders will be passed. The Board regret that they are unable to contribute funds for the completion of the work in 1877/78, although it is of great importance that the work should be completed and the Bridge made safe. The Government

Sanction the money applied P.W.D.
for, they trust to be able to take
the funds required for the 6004
purposes.

Signed Vardachary
Vice President L.F.B.

Encopy

Obundey
Acting President L.F.B.

L. C. B. Lynam 1878

1878

1877-1878

No. 2,321.

PROCEEDINGS OF THE BOARD OF REVENUE, dated 21st May 1877.

Read the following letter from J. C. HUGHESDON, Esq., Acting President of the Local Fund Boards, South Arcot, to H. E. STOKES, Esq., Secretary to the Board of Revenue, dated Virdachellam, 28th April 1877, No. 18:—

With reference to the Proceedings of the Board of Revenue, dated 21st ultimo, Miscellaneous No. 4,202, referring for the President's remarks Government Order in the Public Works Department, No. 554, dated 19th February last, on the subject of the contribution to be made by the Cuddalore Local Fund Board towards the protective works of the Ponnar bridge, I have the honor to enclose a copy of the Circle Board's Resolution No. 11 passed at their Meeting held on the 28th ultimo.

2. It will be observed from the above resolution that the Local Fund Board have agreed to bear half the cost of the repair of the bridge, and request that the other half may be borne by Government.

3. The outlay on the work up to 31st March last, amounting to Rupees 24,050, has been debited to Local Funds; and if the Government allot the moiety of the estimate as requested, the work can be put in hand at once and carried out in the current official year.

ENCLOSURE No. 1.—Extract from Proceedings of Local Fund Board.

SUBMITTED to Government with reference to foot-note, dated 7th March 1877, No. 558, to G.O., dated 19th February 1877, No. 554, Public Works Department.

2. The Board have already in the Proceedings recorded in the above order expressed the opinion that the proposal of the Local Fund Board to pay half the cost of the protective works at the Ponnar bridge is fair.

(A true Copy and Extract)

Secretary.

To the Chief Secretary to Government, Financial Department,
Copy to the President, Local Fund Boards, South Arcot.

157 Road.
 No. 549 W Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 15th Aug. 1877

Read the following:—

Pro: Financial Department (H.C. Dec. 1240 of 12th April 1877)
 " do do - (" - 1275 - 18th June -
 From the District Engineer } (" - 25 - 16th July -
 South Arcot }

In L.C. No. 554 dated 19th February 1877 the Government sanctioned an estimate amounting to Rs. 4,200 for repairs and protective works to the Poanias bridge at Cuddalore. This estimate includes all temporary repairs executed, and provides, throughout the whole length of the bridge, for new front and rear retaining walls of 5 feet deep

MS

11.6.18.77
 19 JUN 1877
 6004
 Received
 From General Wm. Miller Esq.
 No. 1275

1877.
 Board of Revenue,
 MADRAS.

PROCEEDINGS, 21ST MAY 1877, No. 2,321.

Copy 16/1/77

22.5.77
 19.6.77

Received June 1877

M A Y.
 No. 2,321.

Poanias Bridge—in South Arcot District.—
 Submitting to Government letter from President forwarding copy of the Cuddalore Local Fund Board's resolution agreeing to bear half the cost of the repair of the —

19. Feb 1877. No 554
 16 June " " 1621. Memo.

Memo No 1889 of 10 July 1877

10.6.1877 1002. 1884

in 29.6.77.

deep resting on wells
6 feet deep, with aprons
and rough stone flooring.
The District Engineer
states in his letter above
recorded that six arches
have been thus protected
and are considered by
him practically safe.
He estimates the cost of
protecting five more
of the arches with a
rough stone apron
in front and rear
at Rs 280 per arch or
Rs 1400 for the five
arches and adding
Rs 260 for repairing
cracks in the arches
and will make a total
of Rs 1660.

The District Engineer
is authorized to put
these works in hand

5 10
as early as practicable;
reporting the expenditure
already incurred up to
31 March last, and the
further sum required
during the current
official year. The
amount which
the estimate of Rs.
14,200 will stand
in consequence of these
works should also
be stated when
formal sanction
will be accorded to
the reduced total. The
expenditure incurred
up to the end of the
present official year
will stand debited
to "Local" and the
sum required during
the

Let the bridge
be built
and the
cost of the
bridge be
Rs 1660

the current year will
be provided under
Provincials. The can-
-tion will be regarded
as Local, and the
Provincial grant
taken as a contribution.

Referring to para
-graph of the District
Engineer's letter there
appears to be no ob-
-jection to the con-
-tinuation of the
canal planting for
some 700 yards up
stream on the left
bank above the
Duar bridge. There
is, it is thought, little
room for planting at
all on the right bank, but planting up to the
dotted line may be

vide sketch submitted with
letter no. 85 of 16 July 1877.

proceeded with. The
dotted lines are under-
-stood to be those
laid down by the
Chief Engineer for
Irrigation as the proper
bed width and the
alignment of the river.

GA 2/5

- To the D.C. South Arch - 5
- " Chief Eng for Irriga - 8
- " Engr. P. H. Aceto - 5
- " Board of Revenue - 14
- " Financial Depart - 6

Print 17
Apr 1877
for office
use

Recd. Mrs. Asst. 8-8-77
S.C. Asst. 15-8-77

14680 12/6/69

To
The N. B. Lomb Street

Dated

Issued

Recd.

Encl.

G. O., 6th Aug^t 1877, No. 549 u

Dec. 18-19

Poomiar Bridge, S. Arcot

Orders on the subject

the repairs and protection

W. K. to the —

Cont. in Pp. 2

1. *Chrysomelidae*
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