

(1) Number of pages. _____

(2) Date of repair. _____

(3) Initials of the Referencer. _____

MADRAS RECORD OFFICE

Government of Madras

Public Works

DEPARTMENT

G.O. No.	1876A	Press
B.P. No.		Mis.
4017 4018		
Dated	24 7	1873

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
24th July 1873.*

No. 401A. Read the following letter from Lieutenant Colonel R. A. ROBERTS, R.E., District Engineer, Madura, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Camp at Kodicanal, 29th May 1873, No. 715.—

I HAVE the honour to submit, for the sanction of Government, the three estimates named in the margin for such works connected with the Paumben Channel as require to be executed exclusively from an allotment to be provided for under the head "Tools and Plant, Provincial"

Three Estimates	RS
A—Estimate for annual allotment required to maintain Tools and Plant at Paumben	1,300
B—Estimate for new Plant required to make good deficiencies in order to maintain Paumben Channel for present traffic	3,500
C—Estimate for special repairs to Plant in addition to what is allowed in the estimate for maintaining Paumben Channel	550
Total .	5,350

2. I take the opportunity to state briefly the nature and description of the services included in the three estimates above mentioned—

(a)—The estimate of Rs. 1,300 provides for making current repairs throughout the official year to mud and stone boats, canoes, hand dredge machinery, jumpers, anchors, wheel-barrows, rope, machines, etc., in order to render them fit for channel service.

(b.)—The remaining two estimates of Rupees 3,500 and 550 for new Plant and special repairs to the stone boat, respectively, are required, owing to the Plant having from age deteriorated past all repairs, or beyond the ordinary maintenance repairs.

3. I may mention here that none of the Plant was new when purchased for the Government, and that for many years an annual grant of Rupees 1,680 was allotted for the repair of Tools and Plant. At the time, however, of the financial crisis, this allotment appears to have been stopped, and has not been granted since.

4. As the works enumerated in the three estimates in question are urgently necessary for the efficient working of the channel, I have the honour to request that the Government will be pleased to allot the necessary funds under the head "Tools and Plant, Provincial," in order to enable me to commence with the works as soon as possible.

No. 401B.

ORDER THEREON, 24th July 1873, No. 1,876-A.

ACCOUNT, No. 24A.

THE District Engineer's letter does not sufficiently point out the alternative nature of the three estimates submitted

with it. That of Rupees 1,300 provides for—

	RS
1. Annual Repairs to two mud boats	300
2. Do. to one stone boat	200
3. Do. to two canoes	40
4. Do. to Superintendent's boat	46
5. Do. to hand dredge machinery	480

Proceedings of the Madras Government, Public Works Department,
24th July 1873.

6	Annual Repairs to jumpers for blasting	..	..	..	..	RS
7	Do to anchors	..	..	..	..	50
8	Do to sundry tools	..	..	..	..	90
						94
	Total Annual Repair allotment	..				1,300

That of Rupees 3,500 provides for—

Fifteen new wrought-iron dredge buckets	..	..	1,100
Two new mud boats	..	..	2,600
One new boat for Superintendent of Works	..	..	370
	Total		4,070
Less Items 1 and 4 and part of 5 of first estimate			570
	Net Balance		3,500

That of Rupees 550 provides for—

Special Repairs to stone boat	..	..	750
Less Item No 2 of first estimate	..	..	200
	Net Balance		550

What is wanted therefore for the current year is an allotment of Rupees 4,070 for New Work under Tools and Plant, and allotments of Rupees 750 and 530, respectively, for special and ordinary repairs under the same heading, which sums His Excellency the Governor in Council is pleased to allot from the Provincial assignment for the purpose. And in order that the improved Plant may be maintained efficiently hereafter, he directs that a sum of Rupees 1,300, for repair of Tools and Plant at Paumben, be entered in future Provincial Budgets, although it does not appear from the records that any such separate assignment, as that of Rupees 1,680 alluded to by the District Engineer, was habitually made in former times.

(True Extract.)

Colonel, R.E.,
Secretary to Government

To the District Engineer, Madura
,, Officiating Controller of Public Works Accounts.
,, Financial Department.
,, Accountant-General.

Exd W. H. French.
Spare Copies.

No 715 District Engineers Office
Camp Redicanel 29 May 1873

From
Lieut. Colonel R. A. Roberts R.E.
District Engineer of Madura

To
Colonel G. W. Walker R.E.
Secretary to Government P.W.D.

Enclosures 3.

3. Estimates

Sir

A Estimate for annual

allotment required to

maintain Tools & Plant

at Paumben Rs 1300.

B. Estimate for

new Plant required

to make good deficiencies

in order to such works connected with the Paumben

maintain Paumben

channel for present

traffic Rs 3500—

C. Estimate for exclusively from an allotment to be

special repairs to

Plant, in addition provided for, under the Head Tools

to what is allowed

in the Estimate & Plant Provincial.

for maintaining

Paumben Channel

(Rupees— 550
5350)

I have the honor to submit for the sanction of Government the three Estimates named in the margin for such works connected with the Paumben Channel as require to be executed. I take the opportunity to state briefly the nature and description of the services included in the three Estimates above mentioned. The Estimate of Rupees 1300 provides for making current repairs

throughout the official year, to mend
and Stone Boats, Canoes, Hand Dredge
Machinery, Jumps, Anchors, Wheel
Barrows, Rope, Machines &c, in
order to render them fit for Channel
Service.

b. The remaining two Estimates
of Rupees 3,500 & 550, for new Plant
and special repairs to the Stone
Boat, respectively, are required,
owing to the Plant having from
age deteriorated past all
repairs, or beyond the ordinary
maintenance repairs.

3. I may mention here that
none of the Plant was new when
purchased for the Government, and
that for many years an annual
grant of Rupees 1680 was allotted for
the repair of Tools & Plant. At the
time, however, of the financial crisis,
this allotment appears to have
been stopped, and has not been
granted

granted since.

4. As the works enumerated in
the 3 Estimates in question are
urgently necessary for the
efficient working of the Channel,
I have the honor to request
that the Government will be pleased
to allot the necessary funds under
the Head "Tools and ~~Plant~~ Provin-
-cial, in order to enable me to con-
-mence with the works as soon as
possible.

I have the honor to be
Sir

Your most obedient servant
Richard Robert Lieut. Col. R.E.
District Engineer of
Madras

with { 8 for ea
6 for ea
unmarked

Paumotu
 April 8th 1873 }
 J. Blanderson Supervisor
 in charge of Operations Paumotu
 P. M. Nelson Lieut Col R
 District Engineer Madras -

Riaz Mohd Liantt Colliery
Division Engineer Madurai -

Received of J. C. Smith
\$18.75 July 23, 1876

of "Blood Criminals" for the

of New Plant required for making good deficiencies in present Plant
to maintain Saumben channel for present Traffic

Description	Rate	Per	Amount	Amount of each part
making 15 New Wrought iron Buckets for Dredge with shoes complete				
Labor				
with { 8 for each bucket 6 for each pair of shoes } - - - - -	at	" 9 "	each	118 2 "
unmanned - - - - -	at	" 5 "	"	65 10 "
allow boys - - - - -	at	" 2 6 "	"	32 13 "
for drilling holes { 9 holes 3 for each bucket } - - - - -	at	" 5 "	"	126 9 "
Total labor - - - - -				343 2 "

Materials				
of sheet iron (28 sheets each 5' x 2' x $\frac{3}{8}$ ") - - - - -	at	12 "	" cwt	442 " "
of bar iron 3" x 1 $\frac{1}{2}$ " for shoes - - - - -	at	12 "	" "	109 8 "
of round iron $\frac{3}{4}$ " diameter (bucket rivets) at 12 " " "				24 " "
of Do Do 1" Do (shoe rivets) at 12 " " "				9 " "
of iron 4" x $\frac{1}{2}$ " for bucket mouth - - - - -	at	12 "	" "	15 " "
lamp of steel 1 $\frac{1}{2}$ " x $\frac{1}{2}$ " for Do Do - - - - -	at	6 "	" Solam	18 " "
bags of charcoal - - - - -	at	" 9 "	sack	112 8 "
Bags of paddy husk - - - - -	at	" 1 "	bag	6 4 "

Total Materials - - - - -				736 4 "
Contingencies wear & tear of tools &c - - - - -				20 10 "
Total for making 15 New wrought iron Buckets for Dredge				1100 " "
Making 2 New Mud Boats each 46' length, 9 $\frac{1}{2}$ ' breadth of beam, and 5' depth at center				

Labor				
Carpenters - - - - -	at	" 9 "	each	175 8 "
Do - - - - -	at	" 6 "	"	46 2 "
Caulkers - - - - -	at	" 8 "	"	32 8 "
Coolies - - - - -	at	" 4 "	"	81 8 "
Total labor - - - - -				335 10 "

Materials				
Gun and stern posts - - - - -	at	7 8 "	each	15 " "
Rib pieces - - - - -	at	1 10 "	"	107 4 "
Large Elbow ribs - - - - -	at	2 "	"	8 " "
Small Do Do - - - - -	at	" 6 "	"	3 " "
Whenee planks - - - - -	at	24 "	"	576 " "
Pieces of Palmyrahs - - - - -	at	3 " "	"	18 " "
Solams of iron rivets, clamps & nails - - - - -	at	2 12 "	Solam	104 8 "
Do of Iron work for rudder fittings - - - - -	at	3 " "	"	10 8 "
Do of Coconut husk - - - - -	at	" 12 "	"	6 " "
Do of Oakum - - - - -	at	2 4 "	"	5 10 "
Carried over - - - - -				853 14 "

Quantities	Description	Rate	Per	Amount	Amount of each part
Making 2 New Mud-boats continued					
	Brought forward				1100 "
	Labor		brought forward		
	Materials continued		brought forward		
2	Solam of quilt cotton		at 6 " "	Solam	3 " "
12	Do of Dammer		at 1 12 " "		21 " "
27 1/2	Measures of Lamp oil		at " 12 " Measure		20 10 "
3,000	Caulkers nails		at " 3 " 100		5 10 "
	Total Materials				964 2 "
	Contingencies oil, & other appliances for bending planks at stern and stern, and shelter while constructing to Workmen				60 4 "
	Total for 1 Mud boat				1300 " "
2	Mud boats as per above		at 1300 " " each		2600 " "
Constructing New Boat for Officer in charge of Operations to be propelled by Oars & Sails of Dimensions Length 20', Breadth of beam 4', and centre depth 2'-6"					
	Labor				
150	Carpenters		at " 2 " each		84 6 "
20	Caulkers		at " 8 " "		10 " "
85	Coolies assisting above		at " 4 " "		21 4 "
	Total Labor				115 10 "
	Materials				
56	Blue apple trees for ribs &c		at " 5 4 each		19 5 4
2	Large Do Do Do for Stern & Stern posts		at " 8 " "		1 " "
9	Yentack planks		at " 7 " "		63 " "
6	Solams of iron rivets, clamps & nails (1st sort)		at 3 8 " Solam		21 " "
2 3/4	Do of Brag work to rudder, tiller, & 4 rollers		at 8 " " "		22 " "
1	Pinnai tree for Masts &c		at 8 " " tree		8 " "
3/4	Solams of bakum		at 2 4 " Solam		1 11 "
3/4	Do of quilt cotton		at 6 " " "		4 8 "
3	Do of Dammer		at 1 12 " "		5 4 "
7	Measures of Lamp oil		at " 12 " Measure		5 4 "
4	Squares of Blue painting		at 3 12 " Square		15 " "
20	Pieces of Country sail cloth		at 2 8 " piece		50 " "
10	Solam of superior quality rope		at 2 4 " Solam		22 8 "
	Total materials				237 8 4
	Sundries iron work fittings to Masts &c &c				16 13 8
	Total for Boat for officer in charge				370 " "
	Grand Total New Plant to required (carried over)				4070 " "

Total New Plant required - - - - - Brought forward - 4070 " "

Deduct Amounts Maintenance Estimate as follows

From Amount for repairs to Hand Dredge Machinery 224 " "

" Amount for Do to Two Mud boats - - - 300 " " "

Amount for Do to Boat for Officer in charge 46 " " "

Total Deductions - - - 570 " "

Balance Amount requiring sanction for New Plant beyond Maintenance Estimated Amount - - 3500 " "

Paumben
April 8th 1873

J. Sanderson Supervisor
In charge of Operⁿ Paumben

Wm. J. Roberts Lieut. Col. R.E.
District Engineer of Madras

Estimate of Annual Allotment required to maintain Tools and Plant at Pampoen under the head of Tools and Plant repairs

Quantities	Description	Rate Per	Amount of each	Amount of each	Remarks
------------	-------------	----------	----------------	----------------	---------

Caulking repairs to Mud boats

Labor

65	caulkers	8	each	32 8	
15	carpenters for minor repairs	9		135	
25	coolies assisting aboves	4		100	
Total labor				47 8	

Materials

8	Tolams of cocoanut husk	12	Tolam	6 11	
2 1/2	do Oakum	24	do	5 10	
1/2	do cotton (gusseted)	6	do	3	
12	do Hammer	12	do	2 1	
27 1/2	Measures lamp oil	12	Measure	20 10	
3000	caulkers nails	3		100	
10	Tolams nails, rivets, and clamps				
	for minor repairs	2	12 Tolam	27 8	

Total materials

89 6

Contingencies pieces of plankings &c.

13 7

9 11

24 3 6

3 14 6

Amount over

Total labor

26 11

25 Boatswains

Estimate of New Plant required to
make good deficiencies in order to
maintain Pampoen channel
for present traffic

Estimate by 64

Amount of Plant 3,500 - - -

P. M. 3417/73.

Brought forward _____ 12 " 4.586 " " " "

3/4 Mangoe plants repairs to shoot 3.82. Planted 21000

12 Sacks of charcoal _____ " 9 " Sack 12.00

6 Bags of Paddy husk _____ " 1 " Bag 6.00

Total materials _____ 21 12.00

Contingencies _____ 4.90

Total current repairs to _____

Dredge machinery for one month _____ 40.00

12 months current repairs to _____

Hand Dredge machinery 40.00 months 480.00

Repairing jumpers _____

Labor _____

20 Smiths _____ " 8 " Each 10.00

20 Hammermen _____ " 5 " Each 6.40

20 Bellows boys _____ " 2.60 3.20

Total labor _____ 19 6.40

Materials

7/8 bush of iron of various descriptions _____

(rod and bar) _____ 12 " bush 10.80

1 Ton of flat bar steel _____ 6.00

20 Sacks of charcoal _____ " 9 " Sack 11.40

10 Bags paddy husk _____ " 1 " Bag 10.00

Total materials _____ 28 6.00

Contingencies _____ 2.40

Total Repairing jumpers _____ 50.00

Repairing anchors _____

Labor _____

25 Smiths _____ " 8 " Each 12.80

25 Hammermen _____ " 5 " Each 7.50

Brought forward _____

Materials

3 1/4 bush of iron of various description _____

(rod and bar) _____ 12 " bush 39.00

37 1/2 Sacks charcoal _____ " 9 " Sack 21.16

18 3/4 Bags paddy husk _____ " 1 " Bag 1.29

Total materials _____ 61 4.3

Contingencies _____ 4.83

Total Repairing Anchors _____ 90.00

Repairs to General Tools _____

Wheel harrows, rope, machines _____ 1.94

Crabbers, Hammers &c. _____

Total Repairs Tools & Plant _____ 1300.00

Paumotu

10th May 1873

Blankenship. Supervisor

Incharge of ops. Paumotu

Richd. M. St. Lient Coll R.E.

District Engineer of Madras.

417

R.R.D.

No 57

No 1876 A.

Prov. of the Madras Govt.

Read the following:-

From the St. Eng. Madras (P.R. No 715 of 29 May/73)

The District En-
gineer's letter does
not sufficiently
point out the
alternative nature
of the three esti-
mates submitted
with it. That of

Estimate No 80

Estimate of Annual

Expenditure required

to maintain the

Plant at Pambur

under the head of

Tools and Plant Repairs

Rs 423 July 1873 to 1874

Estimated Receipts 1800-1801

P. No. 3417/73.

Rs 1300 provides for

1. Annual Repairs to 2 Mud Boats - Rs 300
2. ———— 1 Stone Boat - " 200
3. ———— 2 Canoes ———— " 40
4. ———— Superintendent's Boat " 46
5. ———— Hand Dredge Machinery " 480
6. ———— Jumpers for Blasting " 50
7. ———— Anchors ———— " 90
8. ———— Sundry Tools ———— " 94

Total. Annual Repair allotment - Rs 1300

That of Rs 3500 provides for

- 15 New wrought Iron Dredge Buckets Rs 1100
- 2 New Mud Boats ———— " 2600
- 1 New Boat for Superintendent of Docks " 300

Total Rs 4000

Less Items 1 and 4 and part of 5 of 1st Estimate " 500

Net Balance Rs 3500

That of Rs 500 provides for

- Special Repairs to Stone Boat ———— Rs 450
- Less Item No. 2 of 1st Estimate ———— " 200

Net Balance Rs 500

What is wanted therefore for the current year is, an allotment of Rs 4000 for new work under Tools and Plant, and allotments of Rs 450 and Rs 500 respectively for Special and Ordinary Repairs under the same heading, which sums His Excellency the Governor in Council is pleased to allot from the Provincial assignment for the purpose. And in order that the improved Plant may be maintained efficiently hereafter,

Sept. 11 1878

PUBLIC WORKS.

he directs that a sum
of Rs 1300 for Repair
of Tools and Plant at
Pamben be entered
in future Provincial
Budgets; although
it does not appear
from the records the
any such separate
assignment as that
of Rs 1680, alluded to

To The District Engineer
(Madras)

Date

Recd.

File 63

G.O. 24 July 1878

No. 401 A & 401 B

by the District En-
gineer was habitually
made in former
times.

Pamben Channel.

Passing orders in letter
from the D. Engr., Madras,
submitting estimates for
certain works in the
Pamben channel &
applying for funds
for the works.

ENR

To The D. Engr. Madras
+ .. Controller

A B
401-401

Copy despatched - 22 July 1878
10/24/78
11/8/78