

- (1) பக்கங்களின் எண்ணிக்கை 22
 (2) புதுக்கித் திருப்பிய நாள் 20.90
 (3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் 6-2

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

PWD துறை

117

அரசாணை எண். மு. கோப்புத் தாள் எண்.	3075, 76, +77	அச்சகம் பலவகை
(3075-76-77)		
நாள் :	16- 11- 1891	198 X

மடிக்கவேண்டியபடி கையாளவோ கூடாது

11 Sheet

2

16TH NOVEMBER 1891, No. 3075 W., PUBLIC WORKS.

3075-26-77
1

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers:—

From Major D. McNEIL CAMPBELL, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department (through the Examiner, Public Works Accounts), dated Chepāk, 11th November 1891, No. 528 W.

With reference to G.O., No. 849 I., dated 30th October 1891, I have the honour to forward an indent on the Director-General of Stores in England for a steam dredger with duplicate buckets required for the Periyār Project works.

Office-note from the Examiner, Public Works Accounts, dated Madras, 14th November 1891, No. 7045/153.

The accompanying letter from the Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, No. 528 W., dated 11th November 1891, with an indent (No. 17 of 10th November 1891) for English stores for transmission to the Secretary of State is forwarded for necessary action.

2. I certify that funds to meet the estimated outlay in England in connection with this indent during the year 1891-92 have been provided by the Local Government to the extent of £1,148-8-0 in the estimate of the Public Works Department for that year.

ORDER—dated 16th November 1891, No. 3075 W., Public Works.

Ordered that the indent be forwarded to the Director-General of Stores for compliance.

(Here enter No. 3076 W., dated 16th November 1891.)

(True Extract.)

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

To the Superintendent of Works, Periyār Project.
" Superintending Engineer, V Circle.
" Examiner, Public Works Accounts.

Exd. C. A. Munisawmy.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of {1891} Madras.
PUBLIC WORKS.

Dated November, 16th.

Recd.

Encl.

G.O., 16th Nov. 1891, No. 3075 W.

NOVEMBER.

Indent

An — for a steam dredger with duplicate buckets required for the Periyár Project, ordered to be forwarded to the Director - General of Stores for compliance.

16TH NOVEMBER 1891, No. 3076 W., PUBLIC WORKS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

LETTER—from

COLONEL J. PENNYQUICK, R.E.,
*Secretary to the Government of Madras,
Public Works Department,*

To

THE DIRECTOR-GENERAL OF STORES,
INDIA OFFICE,
LONDON.

SIR,

I am directed to forward, for favour of very early compliance, an emergent indent for a steam dredger with duplicate buckets required for the Periyár Project.

2. The necessary certificate by the Examiner of Public Works Accounts is embodied in the Proceedings of this Government forwarded herewith.

[Here enter No. 3077 W., dated 16th November 1891.]

I have the honour to be,

Sir,

Your most obedient servant,

(Signed) J. PENNYQUICK, Colonel, R.E.,
Secretary to Govt., P.W.D.

FORT ST. GEORGE,
16th November 1891.

ENDORSEMENT—dated 16th November 1891, No. 3077 W., Public Works.

Copy of the above, with copy of the indent, forwarded to the Government of India, Public Works Department.

(By Order.)

Colonel, R.E.,
Secretary to Govt., P.W.D.

Exd. C. A. Munisawmy.
Spare Copies

GENERAL.
ACCOUNT.

Gobt. of {1891} Madras.
PUBLIC WORKS.

Dated November, 16th.

Recd.

Encl.

16th Nov. 1891, Nos. 3076,
3077 W.

NOVEMBER.

Indent

Forwarding copy of — with Proceedings
thereon for a steam dredger with duplicate
buckets required for the Periyár Project.

ESTIMATE FORM.—Abstract.

Quan- tity.	Description of Work.	Rate.	Per	Amount	TOTAL.
1	2	3	4	5	6
		RS.		RS.	RS.
	<i>Estimate for Purchasing a Steam dredger</i>				
	<i>Gul</i>				
1	Dredger complete with engine Boiler, Crane Foundation, Buckets holding down bolts 4c B size			8700	
1	Duplicate Bucket			900	
	Carriage and fitting at 20 per cent 2000				
Grand Total of Estimate Rs.					11600

3075-76-77
4

STATION *Periyar*
Dated *24th October* 1891.

40,000—23-8-90.

25/10/91

S. D. V. Rao
Executive Engineer.
N.I. Periyar D.

CIRCLE— *Pernay*
DIVISION— *Nº I Pernay*
DISTRICT—
TALUK (OR ESTATE IN CASE OF ESTATE WORKS)—

ESTIMATE FORM.—Abstract.

Financial Head— *49 Capital expenditure on P.W. not charged against*
Budget Head— *Revenue.*

Departmental Head— *III Tools and Plant*

Main Head— *(12) Miscellaneous*

Sub-Head—

Project of which the work forms part— *Pernay*

Section—
Name of Work— *Estimate for purchasing a Steam Dredger*

Amount of Estimate, Rs.— *11600*

To be carried out by—

REFERENCES.

Stores manufactured in Europe but purchased in India under
-graph 3 of Government of India Resolution No 185 of 10th January 1893-

Item No.	Description or class of Stores.	No. or quantity	Actual cost in India.		Estimated cost if obtained through India Office.		Remarks
			average price or rate	Incidental charges, Total cost	average price or rate.	Incidental charges, Total cost	
1	Dredger complete with engine boiler, crane, foundation, Buckets, holding down bolts ½ B. size	1	8700	2000			To work in water up to maximum depth of 60'
2	Duplicate Bucket—	1	900	11600			
				11600			
				9280			
				10440			

3075-76-77
5

Pernay 24th October 1891-

S. D. P.
Secretary
No. 1. Pernay

Emergency
No. 528.W.

SUPERINTENDING ENGINEER'S OFFICE,
V Circle, Madras,
Chennai, 17th November 1891.

From

Major D. M. Neil Campbell. R.E.

SUPERINTENDING ENGINEER, V CIRCLE,

To

THE *Chief Engineer*

P.W. Department

Thro. the Examiner P.W. Accounts.

SIR,

*2075-76-77
6*

Enclosures.

With reference to G.O. No. 8491
1 Statement } returned dated 30th October 1891, I have the honor
1 Estimate }
1 Indent in triplicate to forward an Indent on the Director General
of Stores in England for a steam Dredger
with duplicate buckets required for the
Periyar Project Works.

I have the honor to be

Sir

Your Most Obedient Servant

D. M. Neil Campbell Major R.E.
Superintending Engineer
V Circle

From *Amalgamated*
THE SUPERINTENDING ENGINEER,
V CIRCLE,

To
THE *Chief Engineer*
P. W. Department.
Mrs. Examiner P. W. Dept.

Dated 11 } *November* 1891.
Recd.

ENCLOSURES. 3

P. W. 2005/91
12005

13/11

No. 5-2877.

Steam Dredger with
duplex buckets.

Forwards an indent
for — required for
the Periyar Project
works.

P. W. CURRENT No. 12005
(C. No. 153.)

1891.
EXAMINER, P. W. ACCOUNTS.

Madras, *14 November* 1891.

OFFICE NOTE No. *2045*
153

To E. W.

Enclosed (in 2005/91)
Recd. 16.11.91

THE accompanying letter from the Superintending Engineer, 5th Circle, to the Chief Engineer, P. W. Department, No. *528 W*, dated *11 November* 1891, with an Indent (No. *17* of *10 November* 1891) for English Stores for transmission to the Secretary of State, is forwarded for necessary action.

2. I certify that funds to meet the estimated outlay in England in connection with this Indent during the year 1891-92 *have been* provided by the ^{Local Government} ~~Government of India~~ to the extent of *£1148-8-0* in the estimate of the P. W. Department for that year.

2025-26-27
7

Madras

For offy C. S.

14/11

14/11

Enclosures. 5

30TH OCTOBER 1891, No. 849 I., PUBLIC WORKS.

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

Irrigation.

READ—the following paper:—

From S. D. PEARS, Esq., Executive Engineer, No. I Periyár division, to the Chief Engineer, Public Works Department, dated Periyár, 24th October 1891, No. 157 C.E.

I have the honour to submit an estimate, for the sanction of Government, for a steam dredger to replace the sand pump which, as you are aware, has failed to fulfil its promise. There appear * to be four sizes of Priestman's steam dredger, of which the smallest is advertised to be capable of lifting 200 tons per day of 10 hours. Assuming the progress of main dam at 7,500 cubic feet per day of 8 hours, the amount of sand required will be $\frac{7,500}{4} = 1,875$ cubic feet, or about 125 tons. The smallest size would therefore be sufficient if it realised the advertisement; but for the following reasons it seems highly improbable that the advertisement will be anywhere near realised:—

- (a) The advertisement probably refers to work on dry land,
- (b) It assumes a perfectly full bucket each time,
- (c) It assumes continuous work, and
- (d) It is calculated on a uniform lift not exceeding 20 feet.

Whereas (a) we shall have to work in water, (b) the buckets will not as a rule come up more than two-thirds full, (c) work is sure to be delayed occasionally by want of barges to carry the sand away, and (d) the lift will increase as the water rises, and unless large sand beds are discovered in some tributary (which they have not yet been) it will ultimately be necessary to dredge beyond the Muliar river in 60 to 80 feet of water.

In addition to these reasons allowance has to be made for the difference between a 10 hours and an 8 hours a day, and a manufacturer's estimate must always be largely discounted as being based on the most favorable possible circumstances. And finally to prevent possibility of a stoppage of the whole work it will be always necessary to keep a considerable reserve stock of sand in case of accidents and to have some reserve power wherewith to replenish this stock when it has been drawn upon. For these reasons I think it would be advisable to procure the next larger size which is advertised to raise 400 tons in 10 hours and which with a moderate allowance for each of the foregoing considerations would secure not more than a fair margin over actual requirements. The difference in cost between the two sizes would be a little over Rs. 2,000. I would request that very early steps may be taken to procure the dredger, as the present arrangements for dredging are totally inadequate for the most moderate progress on the work.

Note by the Chief Engineer, Public Works Department.

The sand pump has been found to work very unsatisfactorily owing mainly to the coarseness of the sand which causes the pump to choke constantly and the estimate now submitted has been prepared in accordance with the instructions of the undersigned.

2. It is not desirable to purchase the dredger locally, as it is improbable that any firm will have one in stock, so that in all probability it will not be ready for use much before the end of the present season.

3. It is considered that an emergent indent should be forwarded to the India office.

4. The sand is now being obtained by means of Bell's dredgers worked by hand, which is not only tedious and expensive but occupies a number of cranes and barges which can ill be spared from other work.

5. A million and a-half of cubic feet of sand has to be obtained, so the cost of the dredger will soon be repaid.

28th October 1891.

(Signed) J. PENNYCUICK, Colonel, R.E.,
Chief Engineer, P.W.D.

ORDER—dated 30th October 1891, No. 849 I., Public Works.

The Superintending Engineer, V Circle, will arrange for the submission of a special indent on the Home Government for the required dredger. The matter should be treated as emergent.

(True Extract.)

(Signed) J. PENNYCUICK, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, V Circle, with two enclosures.
„ Superintendent of Works, Periyár Project.

E. d. C. A. Munisawmy.
Spare Copies

3025-26-77
9

IRRIGATION.

Govt. of {1891} Madras.
PUBLIC WORKS.

Dated October, 30th.

Recd.

Encl.

G.O., 30th Oct. 1891, No. 849 I.

OCTOBER.

Steam Dredger

Directing the Superintending Engineer,
V Circle, to arrange for the submission of a
special indent on the Home Government for
a — for the Periyár project works.

Mr. 3075 W d/ 16th Nov/91 *Genl Secy*
PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following

From the S.E.V Circle No. 528 W d/ 11 Nov 1891
" Exar. P.W. A cts. No. 7045¹⁵³ d/ 14 Nov 1891

Ordered that the
indent be forwarded to
the Director General of
Stores for compliance.

To The Suptd of Works. P. Project
" S.E. V circle
" Exar. P.W. a cts.

H.E. No. 3076 W d/ 16th Nov/91

26/11

To The Director General of Stores,
India office,
London.

Sir,
I am directed to
forward, for favour of,
very early compliance,
an emergent indent
for a Steam dredger with
duplicate buckets re-
quired for the Periyar
Project.

2. The necessary Certificate by the Examiner of P. W. Accounts is embodied in the Proceedings of this Govt. forwarded herewith.

W. P.
19/4/91
I have etc.

Endorsement. H. E. No. 307 P.W.D. 16th Nov/91

Copy of the above, with copy of the indent, forwarded to the Govt. of India P. W. D.

D. S.
11/11/91

W. P.
16.11.91

3025-76-77
11

CN^o 12005

Govt. of 1891

PUBLIC WORKS.

19/11

16. XI 91 30750
76
27

Indent

Acc — for a steam
dredger with duplicate
buckets required
for the Peruvian Project
ordered to be
forwarded to the S.G.
of Stores for compliance

Forwarding ^{from} ^{very}
said compliance and
indent for
a steam dredger
with duplicate buckets
required for the Peruvian
Project

500

1/5

21/2

20/2

recd. the 19/11/91

(11)

~~Forwarding copy of
Proceedings with indent
on the 26/11/91~~

~~for a steam dredger
with duplicate buckets
req^d for the Peruvian
Project~~

Forwarding copy of indent
with Pro. thereon, on the
for a steam dredger
with duplicate buckets
req^d for the Peruvian
Project

26/11/91
V. 19/11/91