18

(1) பக்கங்களின் எண்ணிக்கை 24

(2) புதுக்கித் திருப்பிய நாள் 1-93

(3) ஆதாரங் குறிப்பவர் சருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

P.W.D. துறை

அரசாணை எண். 3112 -13 அச்சகம்
மு. கோப்புத் தாள் எண். பலவகை

நாள் : 2. 12. 1893

199

மடிக்கவோ, கண்டபடி கையாளவோ கூடாது.

ஆவண. கா. 1—18,006—6-9-90.

3112-3/1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers :—

From S. D. PEARS, Esq., Superintendent of Works, No. I Periyár Division, to the Chief Engineer, Public Works Department, dated Thekady, 4th October 1893, No. 153 C.E.

In forwarding herewith an indent for 17,250 R. feet of steel wire rope, I have the honour to inform you that it is required for the A or ghât wire ropeway. This ropeway is in two separate sections of about equal length both driven from the same point, and the Bullivant's rope supplied for both sections in 1888 (but only brought into use in 1892) is already dangerously worn and cannot by any means be made to last after the end of the present working season. Its present condition is such that 6 out of the 26 working days of September were lost in repairing weak spots.

2. It would be desirable to entirely replace both sections of the rope, of which the lower section is nearly as much worn as the upper; but in view of the fact that the ropeway will not be required to run for more than three seasons after the present one, I propose to replace only the upper section, and by cutting out the less worn portions of the present upper section and splicing them when required into the lower section to make the latter last out its required time.

3. I do not consider that the present rope has worn well. I have therefore noted in the indent that the new rope should be one made by the same makers (Messrs. Bullivant and Co.), but on the system known as "Lang's patent lay," instead of on Messrs. Bullivant's own system. I have no personal experience of Lang's patent lay and have only the negative experience of Messrs. Bullivant's own ropes that neither of their ropes supplied to this project have worn well. But the descriptions and figures given from the experience of the Khojak wire rope inclines at pages 314 *et seq.* of volume 112 of the Proceedings of the Institute of Civil Engineers (June 1893) and the results of experiments described at pages 231 *et seq.* of volume 101 (August 1890) of the Proceedings of the Institute are all so enormously in favour of Lang's system for strength, for cheapness, and for durability that I have no hesitation in asking for it in preference to a new rope made on Messrs. Bullivant's own system.

Report to accompany indent for rolled steel joists for the Victoria Technical Institute, Madras.

The estimate sanctioned in G.O., No. 3239 W., dated 6th December 1890, will cover the cost of the joists. Joists of this description are not manufactured locally.

18th October 1893.

(Signed) H. IRWIN,
Consulting Architect to Government.

From L. L. WICKHAM, Esq., General Superintendent, Public Works Stores, to the Examiner of Public Works Accounts, dated Madras, 20th November 1893, No. 69 S.

I have the honour to forward, for transmission to Government, three indents in triplicate, the two indents, as per margin, for articles required from England for the No. I Periyár Division and a third indent for rolled steel joists required by the Consulting Architect to the Government of Madras.

Indent No. 11—
For cast steel drills of sizes.
Indent No. 12—
Bullivant's crucible steel wire rope for the A wire tramway.
For Consulting Architect's Division—
Indent No. 13—
For rolled steel joists.

From the Examiner, Public Works Accounts, dated 28th November 1893, Nos. 1975 D., 1976 D. and 1978 D.

ORDER—dated 2nd December 1893, No. 3112 W., Public Works.

The indents will be forwarded to the Home Government for compliance.

[Here enter No. 3113 W., dated 2nd December 1893.]

(True Extract.)

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

To the Superintendent of Works, Periyár Project.
" Consulting Architect to Government.
" Superintending Engineer, V Circle.
" Examiner, Public Works Accounts.

Exd. C. A. Munisawmy.
Spare Copies

3112/3/2

GENERAL.
ACCOUNT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated December, 2nd.

Recd. *Encl.*

G.O., 2nd Dec. 1893, No. 3112 W.

DECEMBER.

Indents

Three — for stores required in the Madras Presidency, ordered to be forwarded to the Home Government for compliance.

3112-3/3

PUBLIC WORKS DEPARTMENT.

General.
Account.

LETTER—from

COLONEL J. PENNYCUICK, 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 early compliance, the undermentioned three indents in duplicate for stores required in this Presidency :—

Indent No. 11.—Cast steel drills of sizes for Schram's tunnelling plant required for No. I Division, Periyár Project.
Indent No. 12.—Bullivant's crucible steel wire rope required for the A wire tramway in No. I Division, Periyár Project.
Indent No. 13.—Rolled steel joists for the Victoria Technical Institute, Consulting Architect's Division, Madras.

2. The necessary certificates by the Examiner, Public Works Accounts, showing that due provision has been made for the outlay are endorsed on the original indents.

3. I am to invite your attention to letter from the Superintendent of Works, Periyár Project, No. 153 C. E., dated 4th October 1893, embodied in the Proceedings of Government * herewith forwarded remarking on the early failure of the steel wire rope supplied by Messrs. Bullivant and Co. for the A or ghât wire ropeway in 1888, but which was brought into use only in 1892, and suggesting that the rope now indented for be made on the system known as "Lang's patent lay."

* No. 3112 W., dated 2nd December 1893.

I have the honour to be,
Sir,
Your most obedient servant,

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

FORT ST. GEORGE,
2nd December 1893.

Exd. C. A. Manisawmy.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated December, 2nd.

Recd. *Encl.*

2nd December 1893, No. 3113 W.

DECEMBER.

Indents

Forwarding, for favour of early compliance, three — for stores required in the Madras Presidency.

10152

note 3112-3/3

a separate indent is awaited for ten wire rope referred to in No 3958 C dy 23-11-93.

the samples of broken rope recently received are not connected with this indent now forwarded

Ch
30/12/93

file for C/10
10553/93

day of _____ 189

Accompaniment to Public Works Department Circular No. XV of 1882.

No. _____

3/1248
2-12-83

N ENGLAND FOR STORES required for the Public Works Department in the Presidency of Madras
he service of the Indian Government.

3/1243
b

HEREBY certify that the Stores enumerated in this Indent are absolutely required for the service
ublic Works Department for a period of _____ months, and I further certify that I have, by a
inspection of Books and Stores, satisfied myself that they comprise the least possible quantity
for the above period.

Dated this _____ day of _____ 189 ___

at _____.

Signature _____

Rank _____

1. In cases in which a personal inspection of Books and Stores cannot be made, the portion of the Certificate relating thereto should be scored through.

2. The Indent should be paged, and the signature attached to the last line of the Indent.

3. The Indent should be submitted in triplicate.

4. The quantities entered in the Indent should invariably be given in English weights and measures.

d by the Director-General of Stores in England the _____ *day of* _____ 189 .

…n Schram's Tunnelling Plant_
…t Steel drills of sizes_____
…do London Priced Invoice £-b1
…24th August 1888_____

Remainder

£ 100.

" " " " "

Add 10 per c/o for freight

Signed/ A. H. …
Supt of Works
Forging Ma…

Forgings
10th October 1893

N.B. The red ink columns to be left blank for Filling up in England.

b l b
bo " " Interesting,

3/12-B
7

b " "

bb " "

Accompaniment to Public Works Department Circular No. XV of 1882.

No._____

3112-W
2-11-93

... FOR STORES required for the Public Works Department in the Province of Madras
Presidency for the service of the Indian Government.

3123/8

I HEREBY certify that the Stores enumerated in this Indent are absolutely required for the service ... Public Works Department for a period of _____ months, and I further certify that I have, by a ...nal inspection of Books and Stores, satisfied myself that they comprise that least possible quantity ...sary for the above period.

Dated this 2nd day of December 1893

at Madras.

Signature [signature] Colonel RE

Rank Secretary to Government P. W. D.

...—1. In cases in which a personal inspection of Books and Stores cannot be made, the portion of the Certificate relating thereto should be scored through.

2. The Indent should be paged, and the signature attached to the last line of the Indent.

Received by the Director-General of Stores in England the _____ *day of* _____ 189

$1,303, for 10% [illegible]

Certificate by Superintendent

"Certified that the Stores enumerated in the Indent are absolutely required for the purposes stated, that they cannot be procured of Manufacture or from Surplus Stock in the hands of other Departments, Railways & Administrations, and that the Indent has been prepared with due regard to economy.

[signature]
General Supt. P. W.

20th November 1893.

Examiner's Certificate

"I certify that the funds to meet the outlay which, it is estimated, will be incurred in England in connection with this Indent during 18 have been provided for in the estimates to the extent of Rs. —"

Instructions

This Indent is to be filled up as practicable by the Indentor in the first instance. It will be sent to Government through the Superintendent P. W. Stores, and the Examiner will make the requisite further entries.

| | | |

Can be met from the usage, 1892-
51300 for 1893-94.

Certificate by Superintendent of P. W.

"Certified that the Stores enumerated
Indent are absolutely required, and
cannot be procured of local manufa
from Surplus Stores of other Depar
Railways and Administrations."

20th November 1893. [signature]
Superinte
P. W.

8 Sept
P. W. S. Supdt
1052/50

Examiner's Certificate.

I certify that funds to meet the
which it is estimated will be inc
England in connection with the
189 have been (will be) provide
estimate of the P. W. D. to the

Instructions.

This indent is to be filled
practicable by the Indenting Officer
insurance. He will submit it to
through the Supdt. P. W. Stores, and
who will make the requisite

Accompaniment to Public Works Department Circular No. XV of 1892.

No. _____

31123
10

NT ON ENGLAND FOR STORES required for the Public Works Department in the Presidency of Madras
for the service of the Indian Government.

I HEREBY certify that the Stores enumerated in this Indent are absolutely required for the service
e Public Works Department, ~~for a period of _____ months, and I further certify that I have, by a~~
~~nal inspection of Books and Stores, satisfied myself that they comprise the least possible quantity~~
~~sary for the above period.~~

Dated this 2nd day of December 189 3

at Madras

[signature] Colonel RE

Signature _____

Rank Secretary to Government
P. W. Department

—1. In cases in which a personal inspection of Books and Stores cannot be made, the portion of the Certificate relating thereto should be scored through.

2. The Indent should be paged, and the signature attached to the last line of the Indent.

3. The Indent should be submitted in triplicate.

4. The quantities entered in the Indent should invariably be given in English weights and measures.

~~orized by the Director-General of Stores in England the _____ day of _____ 189~~

Rolled Steel joists

Item No.	Length. Ft.	Size. Inches	Mean Dimensions of Longest Section. Inches		Country of Origin.	Import Duty. *	Rate of Exchange.	Amount of Import Duty. †
	26—0	8×4	Or—16		Germany	Nil	Nil	4
	22—0	8×4	—do—			Nil	Nil	2
3	14—0	8×4	—do—			Nil	Nil	6

Add 10 per c/o for Fr.

N.B.—The red ink columns to be left blank for filling up in England.

* Imperial, Provincial, Local, Mysore, or Berar.
† This column should be left blank if the charge is not debitable to the Imperial Revenues.

£33 13. 3

Port of landing
Madras

All these joists should be of uniform Section throughout.

3—6—9

37—

3/12-3
11

Consulting Architect
to Government

18. 10. 93.

Certified that the [illegible]
ies not grow (have ever been
Current years grant of Rs 500/-
Victoria Technical Institute
Connemara Free Library.

Secretary
& Consulting Ar

Certificate by Superinte
of Co. W. Stores

"Certified that the stores en
in the indent are absolutely re
that they cannot be procured of
manufacture or grow Surplus
other Departments, Railways &
-structions."

20th November 1893 } Lt Colonel
Govt Supt. P. W.

Examiner's Certif

"I certify that Grounds to meet
which, it is estimated, will be
in England in connection with
indent during 18 have been
provided for in the estimate
to the extent of £ —"

Instructions

This indent is to be filled in
practicable by the Indenting
in the usual manner, the
it to Government through t
-tendent, P. W. Stores, and the
who will make the requisite
entries.

No 153 E.C.

Office of Superintendent of Works
No. I Periyar Division.
The Lady
Periyar. 4th October 1893.

From,

S. D. Pears Esquire. 3112/3
Superintendent of Works No I Periyar Div.
Periyar.

To

The Chief Engineer
P.W.D. Madras.

Sir,

In forwarding herewith an indent for 17,250 R. feet of Steel wire rope, I have the honor to inform you that it is required for the A or ghaut wire-ropeway. This ropeway is in two separate sections of about equal length both driven from the same point; and the Bullivants rope supplied for both Sections in 1888 (but only brought into use in 1892.) is already dangerously worn and cannot by any means be made to last after the end of the present working season. Its present condition is such that 6 out of the 26 working days of September were lost in repairing weak spots.

2 It would be desirable to entirely replace both Sections of the rope, of which the lower Section is nearly as much worn as the

the upper; but in view of the fact that the ropeway will not be required to run for more than 3 seasons after the present one. I propose to replace only the upper section, and by cutting out the less worn portions of the present upper section and splicing them when required, into the lower Section, to make the latter last out its required time.

3. I do not consider that the present rope has worn well. I have therefore noted in the indent that the new rope should be one made by the same makers (Messrs Bullivant & Co) but on the system known as "Lang's patent lay"; instead of on Messrs Bullivants' own System. I have no personal experience of Lang's patent lay and have only the negative experience of Messrs Bullivants' own ropes that neither of their ropes supplied to this Project have worn well. But the descriptions and figures given from the experience of the Khojak wire-rope inclines at pp. 314 et seq of Vol: 112 of the Proceedings of the Institute of Civil Engineers (June 1893) and the results of experiments described at pp 231 et seq of Vol 101* of the Proceedings of the Institute, are all so enormously in

* August 18

3127/3/2

in favour of Lang's System, for strength for cheapness, and for durability, that I have no hesitation in asking for it, in preference to a new rope made on Messrs Bullivants own System.

I have the honor to be,
Sir,
Your Most obedient Servant
S. D. Evans
Superintendent of Works
No I Peruyar Division

P.W. INDENT No. 6514.

No 192
20-10-93.

The Superintendent of Works
Govt Servijan Dr
Servijan

The Chief Engineer
P.W.D
Madras

Rs 15-3-62
Encl - 1.

Dated 4th
Received 7th October 1893

Steel wire rope

Forwards herewith
an indent for
required for A.
ropeway, for reason
stated within

P.W. Stores Superintendent

J. Clarence
Superintendent

P-3

No 3351 C dated 14th October 1893

Forwarded to the General Superintendent P.W. Stores for submission of our indent in proper form.

Actg. Chief Engineer

To
The General Superintendent
P.W. Stores (through
the S.E. & Circle.

No 315 P.W. Forwarded to the General Superintendent

3123/14

P-5

Report to accompany Indent for Rolled Steel Joists for the Victoria Technical Institute Madras.

The Estimate sanctioned in G.O. No 3229 W dated 6th December 1890 will cover the cost of the Joists. Joists of this description are not manufactured locally.

Henry Irwin
Consulting architect to Govt.
18.10.93

No. 3112 Way 2-12-93

PUBLIC WORKS DEPARTMENT.

No. 69, S. P. W.

PRESIDENCY P. W. STORES,

Madras, 20th November 1893.

From

L. L. Wickham Esqre

GENERAL SUPERINTENDENT, 3112-3/13

PUBLIC WORKS STORES.

To

THE Examiner of P. W. Accounts

Chepauk,

Sir,

I have the honor to forward for transmission to Government three Indents in triplicate, the two Indents as per margin for Articles required from England for the N. Arcot Division, and a third indent for Rolled Steel Joists required by the Consulting Architect to the Government of Madras.

I have the honor to be,

Sir,

Your most Obedient Servant,

L. L. Wickham

General Supt. P. W. Stores.

Enclosures 6

2 Indents in triplicate

1 Statement

1 Report

1 Chief Engr's memo. No 3051 A. dated 14th October 1893.

Indent No 11

For Cast Steel drills of 1890-

Indent No 12

Bullivants crucible steel wire rope for the N. wire tramway.

For Consulting Architect's Indent No 13.

For Rolled Steel joists.

P. W. CURRENT No. 10152

Presidency P. W. Stores.

From

THE GENERAL SUPERINTENDENT,
PUBLIC WORKS STORES,
Madras,

To

No. _____ S.

Dated _____
Despatched _____ 189 .
Received 30-11-93

No. OF ENCLOSURES. 9 (4 indents)

Subject.

No. 3351 W dy 7-12-93
" 1414 W - 20-1-94
" 174-SW - 25-1-94
" 652-3W - 10-3-94
" 1816 C - 21-4-94
" 1976 C - 8-5-94
" 2210 C - 1-6-94
" 3351 C - 14-10-94
" 3958 C - 23-11-94

No. 3112 Way 2-12-93

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

3112-3/10

READ the following

Letter from the Supt of Works No I Periyar Ds No 153. Cl. dy 4. Oct 93.
End to _____ do _____ do _____ No 157 Cl. dy 10. Oct 93.
Report by the Consg: Architect dy 18th October 1893.
From the Genl Supt P. W. Stores No 695. dy 20th Nov 93.
From the Accountant P. W. Accounts Nos 1975 & 1976 D.
and 1978 D. dy 28th November 1893.

Resolved that the indents will be forwarded to the Home Government for compliance

To
The Supt of Works P. Roph
" Consg. Architect & Gte
" Supts. Engineer Mint
" Exr P. W. Accounts

(No. No 3113 W dy 2-12-93)

To
The Director General of Stores
India office, London

DESPATCHED
14 DEC. 93

W
7 Dec

Sir, I am directed to forward for favour of early compliance the undermentioned three indents in duplicate for stores required in this Presidency.

Indent No 11. Cast steel drills of sizes for Schram's tunnelling plant required for No

(10—2,000—11-10-93.

I Division Periyar Project.

Indent No 12. Bullivants crucible steel wire rope, required for the A wire tramway in No I Division Periyar Project.

Indent No 13 Rolled steel joists for the Victoria Technical Institute, Consulting Architect's Division, Madras.

2. The necessary Certificates by the Examiner P.W. Accounts showing that due provision has been made for the outlay are endorsed on the original indents.

3. I am to invite Your attention to letter from the Superintendent of Works Periyar Project No 153 C.E. dy 4th October 1893, embodied in the Proceedings of Government herewith forwarded, remarking on the early failure of the steel wire rope supplied

* No 3112 W dy 2-12-93

P 10

31/23/17

by Messrs Bullivant and Co for the Aworghat wire-rope way in 1888, but which was brought into use only in 1892, and suggesting that the rope now indented for be made on the system known as "Lang's patent lay."

I have &c.

W. Smith

P.W.S. Jones

DESPATCHED 1 DEC 95

Cr

C.No. 10152

Govt. of 1893 Madras.
PUBLIC WORKS.

1/12/93.

P. Dec. 1893 3112 W
3113 W

2/12 ~~Stores~~

Enclosed

3. C.2. Pl

=

Three ~~Letters~~ for
stores required in
the Madras Roads
ordered to be
forwarded to the
Home Govt. for
compliance.

— Do —

Forwarding for
favor of early compliance
three — Indents
required in the Madras
Roads.

9C
1/2
5/2