

(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. 380 (W) Press
Mis.

Dated 7-7-1877.

Not to be folded or roughly handled

GOVERNMENT OF MADRAS
PUBLIC WORKS DEPARTMENT.

7th July 1877, No. 380 W.

Buildings and Roads
Military Works

Read the following papers —

No 103. From the District Engineer, Nilgiris, dated 7th March 1877,
No 83

No. 103-A. Proceedings of the Madras Government in the Military Department,
dated 17th May 1877, No 2,915

From Brigadier-General H O'CONNELL, Quartermaster-General, to the Secretary
to Government, Military Department, dated Ootacamund, 30th April 1877,
No 52—3,418.

THE Commander-in-Chief having approved the estimate marginally noted,
I am directed by His
Excellency to submit it
for the consideration and
orders of Government.
2 If approved by
Government, it is re-
quested that the papers
may be forwarded to the Department Public Works for disposal.

APPROVED generally, and transferred to the Public Works Department for the
consideration and orders of Government

(True Extract)

(Signed) J. MICHAEL, Colonel,
Secy to Govt, Mily D

No 103-B. From Captain J L L MORANT, R E, District Engineer, Nilgiris,
to the Chief Engineer, Public Works Department, Buildings and Roads,
dated Ootacamund, 20th June 1877, No 232

With reference to your memorandum No 1,623 of the 15th instant, I have the
honor to resubmit the estimate, amounting to Rupees 1,060, for pulling up old frames
and runs of skittle alley, Wellington Barracks, and relaying new ones.

2 I also append a revised data for woodwork, with apologies for the delay in
its submission

No. 104.

ORDER THEREON, 7th July 1877, No. 380 W.

THE estimate of Rupees 1,060 for refitting the skittle alleys at Wellington with new timber runs is sanctioned.

Head of Service—Imperial.

Fund—Ordinary

Class—Original Works.

Main-head—Military

Sub-head—Military Buildings, accommodation for European Infantry

Work—Refitting the Skittle Alleys at Wellington.

Amount—Rupees 1,060

To be carried out by the Public Works Department.

2. The requisite funds are appropriated from the Reserve under Military for 1877-78.

3. This sanction is registered as Imperial No. 29 B of 1877-78.

(True Extract.)

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

To the District Engineer, Nilgiris
" Examiner of Public Works Accounts
" Military Department

Estimate for pulling up old Frames
and runs of Skittle Alley Wellington
Barraacks & relaying new ones.

Measure.	Contents	Particulars
No. Ments.		
L B 12.		
1 24 5.11.	122	Excavation
		left of excavation
1 24 5.11.	122	Concrete
		left of concrete.
4 6.6.5.4	3.0.8	Woodwork
10 6.5.5.4	8.4.0	Shapers to frames
10 4.4.4.3	3.4.0	Do to run
5 4.10.3.4	2.0	Do Do
5 12.10.3	12.6 0	Planks to Do
5 12.10.2	8.4.0	Do run
		Do Do
	39 8.8	Total M. of Larkwood rough Amt.
	10-3-4	Wastage
	50-0-0	left woodwork.

Abstract.

Description of work	Rate	Per Amount	Total
Excavation			
1 1/3 Cyds of earth work to be removed	4. cyd	12.	
Concrete			
122 left of Concrete	10. 100	1211 3/4	
Woodwork			
50. -- of Larkwood wrought & fitted	40. 100	2000	
200 -- of shut iron for pin plates	46 lbs	510	
2 1/2 Gross 1 1/2 inch screws	380	11 1/2	
1 1/4 -- 3 1/2 -- Do	4. 100	44	
Allow for 3 more			
Total Rupees			26415.3
			794139
			1059.13.

Specification

P.W.D.

Amount of Estimate One Thousand and fifty nine Rupees, Annas Thirteen.

1175
3094

The existing frames & runs at the Little Alley Wellington Dock are to be pulled up and new ones laid. The whole of the sleeper of frames & runs to be made in concrete. The concrete to be 1' deep to be formed of broken stone or brick to be mixed with good Chunam, to be laid in layers not exceeding 6" each layer, to be well rammed. The sleepers to be used tarred before being laid. Sleepers for frames to be not less than 5" x 4" sleepers for 12' of runs to be 5" x 4" the remaining 12 ft being 4" x 3". Planks of frames not to exceed 12" wide and not less than 3" thickness. Planks of 1st 13 ft run to be same as frame, the remaining portion not to be less than 2" thickness, the whole of the work to be well secured and bolted together. The under portion of Planks to be also tarred. The concrete to be laid level with top of sleepers.

Ootacamund 18th October 1876
21st June 1877
District Engineer

Approved

W. R. S. Colman

Commandant Wellington

By order

Major

No 873 of 4 April 1877

Letter No 83. dated 7 March 1877 from Mr. D. L. King

Data for Timber

Requirement raised was not one of wastage or reduction of Cash per Cubic foot of timber "brought and put up" but simply that after betterment in which the wastage is charged and estimated as a separate item in the estimate, instead of forming a part of the data.

2. It is not understood under what authority the Forest Dept have raised the price of Teak wood supplied to the Government works under bill No 50 per Cumbh as the second paragraph of the letter under reply states could seem to imply or if such is the case the argument used is not intelligible.

3. The Cash data according to what the District Engineer states ought to be as follows -
and Cash for Timber (Teak) in the Range. 2
and for wastage $\frac{1}{2}$ or 50 per Cumbh (200) 1
Carpentering to be in a - $\frac{1}{4}$

if the Cash is 5 Rupees a Cumbh then the loss in timber much be Cash per Cumbh. The District Engineer has been lately attending to the subject and caused his data in accordance to the local adaptation in Madras a copy of which has already been supplied to the Forest Dept for Teak wood brought and put up, showing exactly what the charges are and the actual cost of timber in the range, actual loss of such timber, and the cost of labor in working it up. What is required is not reduced rates but simply the separate figures upon which the value of so important a unit of estimate has been arrived at.

W. R. S. Colman
31.3.77

Revised Dates for the Public Works at the
 Presidency for the Carpenter's work for the
 official year of 1876-77 from 1st April 1876 to 31st March
 1877

Items	Rate	Per	Amount
No 1			
Teakwood breastsummer, beams, purlins, joists, rafters, lintels, door planks, shelf planks, brackets to the sundry framework in average for 1 cft of wrought iron put up prepared			
1 cft Teak rough.			
$\frac{3}{8}$ " Added for wastage			
$1\frac{3}{8}$ " Rough Timber of 50 cft per Ton	90	"	27 7 1/2
Nails of sorts		"	16
$\frac{1}{4}$ Sawers		"	16 3/4
$\frac{1}{2}$ Carpenter		"	39
$\frac{1}{4}$ Head Cooly		"	9
Cart hire for conveying the materials to different works under execution		"	9
Sundries for chalk, Twine & Cooly hire for raising the beams &c		"	1 1/4
Total for 1 cft Rs			3 10

By W Farewell Esq
 Chief Engineer
 Buildings & Roads Branch
 P.W.D.

Chas 160/ in Circular

No 492. of 26th July 177.
Letter to 514 dated 5. July. 1877.
and original Estimate of Rs 10/- of 1876-77.

The District Engineer attention is called to the
change made in the Est. which have quoted
under heavy wood work - wrought & put up.

The Estimate of Quantities gives 50-9-8
Cubic feet of timber and the Cubical Content
of the wood "wrought and put up" and an
addition of 12 2-4 — Cubic feet
~~as added to the estimate as wastage~~ it made
making a total of 63 Cubic feet used
in the work - no provision is taken for this
high percentage of wastage as the official
of the Engineer's valued timber as the timber
is not known, it is however ^{unusually} ~~wasteful~~
in carrying to charge for the 12 Cubic
feet of timber wasted in ~~the~~ ^{the} ~~estimate~~
50. Cubic feet of timber "wrought and
put up" at the same rate as timber
timber "wrought and put up" i.e. 4
Rs per Cubic foot since timber in
the rough is only Rs 2 Rs per Cubic
foot: and the Est. made is very evident
that the data for timber wrought
and put up requires ^{revising} ~~attention~~ as
according to the present charge the
loss is equivalent to 5/- and not 2 5/
per cent. This question should remain
in the hands of the Engineer.

Miss J. B. [illegible]

Virgiris.

My dear Ad

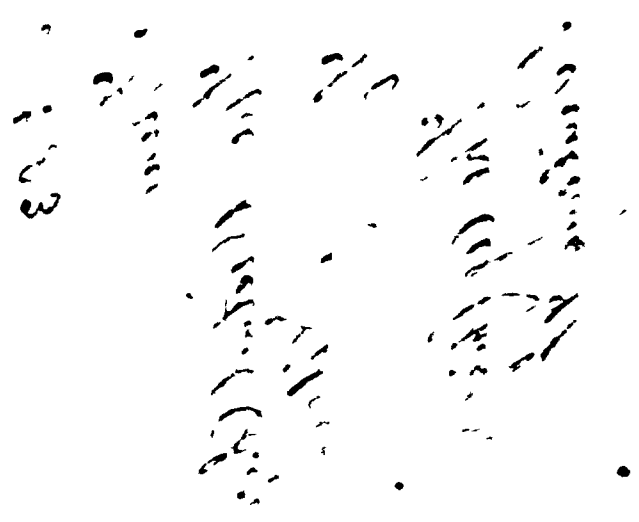
2. The method of charging
noted by you has been in force
in this District for the past
years. It appears exactly the
same as that changed in the
Measur

Madras data. The cost of ordinary untrimmed scantlings sold by the Forest Department is Rs 3 per cubic foot. Carpenters hire is usually one rupee. On the scantlings when fitted and joined together there is obviously a wastage of about $\frac{1}{3}$. Hence the cost in this way will be Rs 5 on the net measurement.

3. I have often considered the subject of the cost of timber work in this District, and am well assured it cannot be reduced. The way of charging for it may be altered, but the actual cost of doing the work cannot be changed.

4. I trust with this explanation you will kindly allow the rate to stand. In future Estimates I will alter it, if you wish; putting it in another form.

I have the honor to be,
 Your most Obedt Servant.
 J. H. Horant
 District Engineer



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J. H. Horant
District Engineer

C.E. No. 492 of 26 Feb 1877.

P.W.D.
9th 177
No 2550

Subject
Wastage of Under-
estimate required
Explanation on the

No 83
From
The District Engineer
Nilgiris
To
The District Engineer
Coimbatore
C.E. No. 843 of 4 April 1877.

407 of July 1877 No 103

No 103 A + 103 B 11/7

No 3808

Buildings & Roads
Maily works
Public Works Department

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 7th July 1877.
Read the following:—

From
The District Engineer
Nilgiris } (H.E. No. 83 of 7th March 1877)
Pro: Military Department (" " 2915th 17th May ")
The District Engineer
Nilgiris } (" " 232nd 21st June ")

The estimate of
Rs 1060 for refitting the
Skittle alleys at Irel-
lington with new timber
runs is sanctioned.

2. The requisite funds
are appropriated from
the Reserve
under military for 1877-78.

3. This sanction is registered
as Imperial No 29 B of
1877-78.

D.E. Nilgiris
R.P. Sub.
Mily Dept

Depd 14-7-77

607
4.7.77

C. J. F. 1877
Govt. of Madras
PUBLIC WORKS.

To

Dated

Issued

Recd

Encl

9/7/77
G O, *7th July* 1877, No. *380W*

Nos. 103-104.

Little Alloys at Wellin-
ton, Kilgini. Or The
estimate of Rs 1000 for
refitting with new timber
runs the —, sanctioned
& funds appropriated.

*Entered in Register
16-7-77*