

- (1) பக்கங்களின் எண்ணிக்கை 32
 (2) புதுக்கித் திருப்பிய நாள் 8/88
 (3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் 10/8

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

Angirami துறை

அரசாணை எண். 2102 அச்சகம்
 மு. கோப்புத் தாள் எண். 25-8-1884 பலவகை

நாள் :

25-8-1884 188

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

ஆவண. கா-1-18,000-15-6-87.

A. Nani

25TH AUGUST 1884, No. 2102 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following letter from Colonel J. J. McLEOD INNES, V.C., R.E., Inspector-General of Military Works, to the Secretary to the Government of Madras, Public Works Department, dated Simla, 7th August 1884, No. 3908 :—

In continuation of my letter, No. 3949, dated 15th August 1883, I have the honor to forward 60 copies of each of the type estimates to accompany type plans, dummy-wagons (No. 38 A, open low-sided truck, and No. 38 B, covered goods-wagon).

ORDER—dated 25th August 1884, No. 2102 W., Public Works.

Communicated to officers concerned, in continuation of G.O., No. 2396 W., dated 27th August 1883.

(True Extract.)

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

To the Superintending Engineers, III and V Circles,
with fifteen copies of each enclosure.
" Military Department, with twenty do. do.
" Consulting Engineer for Railways.

Exd. E. Fernandez.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of 1884 Madras.

PUBLIC WORKS.

Dated August, 25th.

Recd.

Encl.

G.O., 25th Aug. 1884, No. 2102.W.

AUGUST.

Dummy-Wagons

Type estimates for—Copies of —, communicated to officers concerned.

2102
2
DUPLICATE.

ROYAL ARTILLERY.

OPEN LOW-SIDED TRUCK.

ABSTRACT.

ITEM No.	DESCRIPTION OF WORK.				QUANTITY.		RATE.	PER.	AMOUNT. Rs.	TOTAL Rs.
1	EXCAVATION	...	...	...	348	C. ft.		%		
2	CONCRETE	...	...	...	116	C. ft.		%		
3	RAMMED EARTH	...	...	...	3,060	C. ft.		%		
4	BRICKWORK	...	...	...	550	C. ft.		%		
5	METALLING	...	...	...	546	C. ft.		%		
6	DRESSED STONE	...	...	...	45	C. ft.		C. ft.		
7	TIMBER	...	...	...	82	C. ft.		C. ft.		
8	PAINTING	...	...	...	442	S. ft.		%		
9	IRONWORK	...	...	...	7 ¹⁵ / ₁₆	Cwt.		Cwt.		
TOTAL ...										
ADD CONTINGENCIES @ 5 PER CENT. ...										
GRAND TOTAL Rs. ...										

6

2102
3

ROYAL ARTILLERY.

OPEN LOW-SIDED TRUCK.

ABSTRACT.

ITEM No.	DESCRIPTION OF WORK.				QUANTITY.		RATE.	PER.	AMOUNT. Rs.	TOTAL. Rs.
1	EXCAVATION	...	...	...	348	C. ft.		%		
2	CONCRETE	...	...	...	116	C. ft.		%		
3	RAMMED EARTH	...	...	...	3,060	C. ft.		%		
4	BRICKWORK	...	...	...	550	C. ft.		%		
5	METALLING	...	...	...	546	C. ft.		%		
6	DRESSED STONE	...	...	...	45	C. ft.		C. ft.		
7	TIMBER	...	...	...	82	C. ft.		C. ft.		
8	PAINTING	...	...	...	442	S. ft.		%		
9	IRONWORK	...	...	...	7 ¹⁵ / ₁₆	Cwt.		Cwt.		
TOTAL ...										
ADD CONTINGENCIES @ 5 PER CENT. ...										
GRAND TOTAL Rs. ...										

8

OPEN LOW-SIDED TRUCK.—(Continued).

ITEM No.	DETAIL OF WORK.	No.	MEASUREMENTS.			QUANTITIES.	
			L.	B.	H.		
5	METALLING.					C. ft.	
	Top of platform	1	25' 0"	8' 6"	0' 4½"	80	
	Front ramp	1	33' 6"	20' 0"	0' 4½"	251	C. ft.
	End ramps	2	18' 6"	15' 6"	0' 4½"	215	546
							C. ft.
							546
6	DRESSED STONE.					C. ft.	
	Bedplates for Truck	4	9' 6"	1' 6"	0' 3"	14	
	Coping of platform	1	25' 0"	1' 6"	0' 4½"	14	C. ft.
	" " ends	2	15' 6"	1' 6"	0' 4½"	17	45
							C. ft.
							45
7	TIMBER FRAMED AND FIXED.					C. ft.	
	Frame of truck, long pieces	4	18' 4"	0' 4"	0' 5½"	11	
	" " end	2	9' 0"	0' 4"	0' 5½"	3	
	Sides of	2	18' 4"	0' 2"	2' 7¼"	16	
	Ends of	2	9' 0"	0' 2"	2' 0½"	19	C. ft.
	Floor of	1	18' 0"	8' 8"	0' 2½"	33	82
							C. ft.
							82
8	PAINTING.					S. ft.	
	Sides of Truck, inside and out	4	18' 4"		2' 9¾"	206	
	Ends	4	9' 0"		2' 2¼"	80	S. ft.
	Floor of truck, top	1	18' 0"	8' 8"		156	442
							S. ft.
							442
9	IRONWORK.					Weight in lbs.	
	Holding down bolts	4	2' 1½"	(¾")	Per R. ft.	1.48	13
	Add for heads and nuts	4	pairs	@	Per pair.	0.43	2
	Washers ½" thick	4	0' 3"	0' 3"	Per S. ft.	5.00	1
							16
	CARRIED OVER						

OPEN LOW-SIDED TRUCK.—(Continued).

ITEM No.	DETAIL OF WORK.	No.	MEASUREMENTS.			QUANTITIES.	
			L.	B.	H.		
9	IRONWORK.—(Continued).					lbs.	
	BROUGHT OVER	...	...	...	...	16	
	Angular straps to framing, inner	12	1' 4"	(2½" × ⅝")	5.21	83	
	Bolts for	40	0' 9"	(⅝")	1.03	31	
	Add for heads and nuts	40	pairs	@	0.27	11	
	Washers	16	No.	@	3.00	48	
	Inner vertical straps to sides of truck	5	2' 7½"	(2½" × ⅝")	5.21	68	
	" " " ends	2	2' 0"	(2½" × ⅝")	5.21	21	
	Corner horizontal straps, inside	8	2' 0"	(2½" × ⅝")	5.21	83	
	" " " " "	4	0' 7½"	(2½" × ⅝")	5.21	13	
	External plates at corners, sides	4	2' 4½"	(7½" × ½")	12.5	139	
	" " " ends	4	1' 9"	(7½" × ½")	12.5	88	
	" straps at sides	3	1' 10½"	(2½" × ⅝")	5.21	29	
	Hinges, straps with eyes	2	2' 6"	(2½" × ⅝")	5.21	26	
	" " with locking arms	2	3' 3"	(2½" × ⅝")	5.21	34	
	" " with eyes for pivot	6	0' 9"	(2½" × ⅝")	5.21	23	
	" central with eye	1	2' 3"	(2½" × ⅝")	5.21	12	
	" straps on inner side of door	3	1' 10½"	(2½" × ⅝")	5.21	29	
	Pivots of hinges	3	0' 10½"	(¾")	1.48	4	
	Add for locking pins, chains, &c.,	2	@	say	2.00	4	
	Bolts through side and end planking	94	0' 4½"	(⅝")	1.03	36	
	Add for heads and nuts	94	pairs	@	0.27	25	
	CARRIED OVER,	...	...	...	...	823	

OPEN LOW-SIDED TRUCK.—(Continued).

ITEM No.	DETAIL OF WORK.	No.	MEASUREMENTS.			QUANTITIES.	
			L.	B.	H.		
9	IRONWORK.—(Continued).					lbs.	
	BROUGHT OVER ...	...	...	...	...	823	
	Bolts through framing at hinges ...	12	0' 8"	($\frac{1}{2}$ ")	0.66	5	
	Add for heads and nuts ...	12	pairs	@	0.13	2	
	Vertical bolts through floor and framing ...	7	1' 0"	($\frac{3}{8}$ ")	1.03	7	
	" " floor ...	7	0' 5"	($\frac{3}{8}$ ")	1.03	3	
	Add for heads and nuts ...	14	pairs	@	0.27	4	
	Straps on top of planking of sides secured by screws ...	2	19' 0"	(2" $\times$ $\frac{1}{8}$ ")	0.83	32	
	" " " ends ...	2	8' 8"	(2" $\times$ $\frac{1}{8}$ ")	0.83	14	
	TOTAL IRONWORK ...					lbs. 890	Cwt. $7\frac{15}{16}$

2102

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7

ROYAL ARTILLERY.

DUMMY WAGONS FOR RAILWAY EMBARKATION PRACTICE.

OPEN LOW-SIDED TRUCK.

MEASUREMENTS AND QUANTITIES.

TO ACCOMPANY TYPE DRAWING No. 38 B.

OFFICE OF INSPR. GENERAL OF
MILITARY WORKS.

Simla, July. 1884.

G. Nathaniel, Printer, Station Press, Simla.

COVERED GOODS WAGON,—(Continued).

ITEM No.	DETAIL OF WORK.	No.	MEASUREMENTS.			QUANTITIES.		
			L.	B.	H.			
10	IRONWORK.—(Continued.)					lbs.		
	BROUGHT OVER ...	...	...	...	...	79		
	Angular straps to frame, outer ...	4	2' 3"	(2½" × ½")	R. ft. 5-21	47		
	Straps at feet of uprights ...	27	1' 1"	(1½" × ½")	3-13	92		
	" " heads of frame ...	4	2' 3"	(2½" × ½")	4-17	37		
	" to uprights at door ...	2	1' 1"	(1½" × ½")	3-13	7		
	" at heads of uprights ...	17	0' 6"	(1½" × ½")	3-13	27		
	" " and curved ribs of roof ...	14	1' 4"	(1½" × ½")	3-13	57		
	Hinges of lower door ...	2	4' 0"	(1½" × ½")	3-13	25		
	" " " ...	4	1' 0"	(1½" × ½")	3-13	13		
	" of upper door ...	2	3' 5"	(1½" × ½")	3-13	20		
	" " " ...	2	3' 9"	(1½" × ½")	3-13	23		
	" " " ...	1	2' 6"	(1½" × ½")	3-13	8		
	" " " ...	4	1' 0"	(2½" × ½")	5-21	21		
	Locking rods ...	2	2' 6"	(¾")	1-48	7		
	Hinge pivots ...	2	0' 8"	(¾")	1-48	2		
	" " " ...	4	0' 6"	(¾")	1-48	3		
	Add for pins, chains, &c. ...	...	...	...	say	5		
	Bolts through bottom frame, vertically ...	54	0' 7½"	(½")	0-66	22		
	Add for heads and nuts... ...	54	pairs	@	0-13	7		
	Bolts through bottom frame horizontally ...	40	0' 6"	(½")	1-03	21		
	Add for heads and nuts ...	40	pairs	@	0-27	11		
	Bolts through feet of uprights, corners ...	16	0' 7½"	(½")	0-66	7		
	" " others ...	38	0' 6"	(½")	0-66	13		
	" " heads of uprights & topframe ...	50	0' 6"	(½")	0-66	17		
	CARRIED OVER ...	...	...	...		571		

COVERED GOODS WAGON.—(Continued.)

ITEM No.	DETAIL OF WORK.	No.	MEASUREMENTS.			QUANTITIES.		
			L.	B.	C.H.			
10	IRONWORK.—(Continued.)					lbs.		
	BROUGHT OVER	...	...	...	...	576		
	Bolts through curved ribs of roof	28	0' 5"	($\frac{1}{2}$ ")	0·66	8		
	" baulk over door	4	1' 0"	($\frac{1}{2}$ ")	0·66	3		
	" hinges of upper door	25	0' 6"	($\frac{1}{2}$ ")	0·66	8		
	" " lower door	12	0' 5"	($\frac{1}{2}$ ")	0·66	3		
	" Rests for tethering bars	12	0' 8"	($\frac{1}{2}$ ")	0·66	5		
	Add for heads and nuts	185	pairs	@	0·13	24		
	Rests for tethering bars	4	1' 9"	(2" × 2" × 1")	6·67	47		
	Rings and bolts in bars	8	1' 3"	($\frac{1}{2}$ ")	0·66	7		
	Add for heads and nuts	8	pairs	@	0·13	1		
	TOTAL IRONWORK ...						lbs.	cwt.
							682	6 $\frac{1}{8}$

ROYAL ARTILLERY
COVERED GOODS WAGON.

ABSTRACT.

2102 7
12

Item No.	Description of Work.	Quantity.	Rate.	Per	Amount.	Total.
					Rs.	Rs.
1	Excavation	348 C. ft.		%		
2	Concrete	116 C. ft.		%		
3	Rammed earth	3,060 C. ft.		%		
4	Brickwork	552 C. ft.		%		
5	Metalling	546 C. ft.		%		
6	Dressed Stone	45 C. ft.		C. ft.		
7	Timber	107 C. ft.		C. ft.		
8	Painting	561 S. ft.		%		
9	Corrugated iron	205 S. ft.		%		
10	Ironwork	6½ cwt.		cwt.		
					TOTAL ...	
					Add Contingencies @ 5 per cent ...	
					GRAND TOTAL Rs. ...	

12

2102
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ROYAL ARTILLERY.

ALSO FOR CAVALRY

DUMMY WAGONS FOR RAILWAY EMBARKATION PRACTICE.

COVERED GOODS WAGON.

MEASUREMENTS AND QUANTITIES.

TO ACCOMPANY TYPE DRAWING No. 38 B.

OFFICE OF INSPR. GENERAL OF
MILITARY WORKS.

Simla, June 1884.

G. Nathaniel, Printer, Station Press, Simla.

8

All communications
to be addressed
to the Inspector
General of Military Works.

No. 3908

2102
14

FROM

Colonel J. J. M. Leod James V.C. R.E.,
INSPECTOR GENERAL OF MILITARY WORKS,

TO

THE

Secretary to Government of Madras
Public Works Department
Madras.

SINCE, 7th August 1884.

Sir,

In continuation of my letter No. 3949 dated 15th August 1883 I have the honor to forward 60 copies of each of the type estimates to accompany type plans, Dummy wagons, (No. 38 A Open low-sided truck, and No. 38 B. covered goods wagon.)

I have the honor to be,

Sir

Your most obedient servant

W. J. Leod Captain R.E.,

For Inspector General of Mil. Works.

15

15

G.O. 2396W 27. 8. 83

P.W. No 6779

Mr
M. H. W. H.

Received in Office
No 2102 W. 15-8-84

A

Communicated to
Officers concerned in
Continuation of G.O. No 2396W
of 27th August 1883.
27th August 1883

No 2102 W. 15-8-84

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22. 8. 84

- B. H.

To the Secretary of the V. C. Circle
with 5 copies of each Circle
with 20 copies of
Circular for the
Com. of the for the

With order

With order

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Govt. of 1884 Madras.

PUBLIC WORKS.

(167)

Dated

Recd

Encl

G.O. 25 Aug 1884, No. 2102

Draining Works

Type

Type Estimates for

Copies of - Circulated

Communicated to Officers

Concerning

71/82/6

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11/18