Revenue (1897) Department.

MISCELLANEOUS SERIES.

G.O., No. 2555

DATED 19th May 1897

[Despatch Abstract.]

Recording memo from the P.W. Deptt. forwarding a statement showing comparative cost of carriage of road materials by human agency & by bullock carts on average roads.

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

Revenue (1897) Department.

CURRENT No. 1056.

The Hon: Sir Blair Osh

GOVERNMENT OF MADRAS
14 MAY 97

From The Public Works department

In Orders.

Submitted to the Hon: Sir Blair with reference to his remark on the margin, at G.O. $\frac{245}{10\text{-}4\text{-}97}$. The Hon: member's calculations in the notes attached with this G.O. are based on the following data:—

Head load 50 lbs, daily wage 1½ as & the daily distance travelled 15 miles. The Statement forwarded by the P.W.Ds are based on the following:— Head load ½ a c: ft (40 lbs)†; daily wage 3 annas & the daily distance travelled 8 miles. The cost of carriage by human agency ~~is~~ works out disproportionately high; but famine coolies do not get more than 1 as 7 p to 1 a 9 p; and they could

No. 207

Dated 13th May 1897

Received 14.5.97

Registered 15.5.97

Enclosures Two.

Spare copies + a cutting from a local paper

SUBJECT.

Road materials

Statement showing comparative cost of carriage of —— by human agency & by bullock carts on average roads

Forwarding a ——

17.5 C 17/5/97 R 19/5/97

certainly accomplish more than 8 miles daily. The actual cost will probably be considerably less than that shown in the statement

W. S. 17

RS
17-5-97

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

Yes - Besides, where will you hire carts at 12 annas per diem to cart stones accross country? ~~Either~~ As the work being cried to human beings, about 24 lbs weight a little more seems to be the maximum that a basket will hold. This is an extremely light load - Women are employed they might use Kawadis & carry double -

WS
18/5/97

The matter may await the U.S. report called for in G.O. No 245 - of 10th April 1897.

W. S. 57

C. O. mis no. 2555 of 19th May 97.
Recorded

RS
19-5-97

Notes on data for cost of carriage of Road materials.

Col: 2 The daily distance to be travelled is now taken as 8 miles everywhere, that being ample in this hot weather, in addition to the distance relief workers have to walk from their villages.

This will be separately allowed for, and should not be taken into account in estimating comparative costs

Col: 4 I have circulated orders that 2 cft per trip per unit should be adopted as the load, which was based on some measurements & weighments made in January - but, I have since found that the average basket used on famine relief works only holds .33 cft when full, and often not more than .25 cft - so that as .2 cft per unit means 1/4 cft per woman and it is an impossible load - and I have reduced it in this table to what is possible. The weight of average road metal is 80 lbs per cft

Col: 6 This is calculated on staple food grain being 12 seers per rupee and a child's wage being half a woman's wage B class.

Col: 8 A bullock cart can generally do 12 miles per day - but as this would be nearly all cross country work, I have reduced the distance to 10 miles.

Col: 10	The usual load of broken stone and gravel is taken as 12½ lbs. but this is not always carried and for cross country work, I have allowed 10 lbs.
Col: 12	Loading & unloading done by cartmen.
Hand carts	These have been adopted in Kurnool Division where the distances to which metal has to be carted are often great.
Col: 14	Distance is the same as per human agency for the same reason.
Col: 16	The carts are built to carry 7 lbs. and do it occasionally, but I have taken 6 lbs. as the probable average load.
Col: 18.	3 Men & 3 women, load, unload and draw these carts, and do it easily. Their pay when grain is 12 seers per rupee = B class wages is 3 men at 1 — 7 = 4-9 3 women at 1 — 6 = 4-6 9-3

Col: 19

The prime cost of a hand cart is Rs. 30, and I have calculated that it will be 6 months in use, and then fetch nothing at auction, which is taking as unfavorable a view as possible.

W. Hutton
7/5/97
for Supdg. Engineer, III Circle

J.S.
7-5-97.

Data for Comparative cost of carriage of Road materials by human agency and by bullock carts on average roads - also by hand carts drawn by relief workers.

Distance carried		Human Agency.						Bullock cart.						Hand cart, drawn and loaded by 3 men and 3 women.									
Miles.	Furlongs.	Daily distance to be travelled - miles.	Number of trips per day.	Load per trip (chatti) c.ft.	Total daily load. c.ft.	Average daily pay per unit (+) Rs	A	P	Average cost per 100 c.ft. Rs	A	P	Daily distance to be travelled. miles	Number of trips.	Load per trip. c.ft.	Total daily load. c.ft.	Daily hire of cart. A	P	Cost per 100 c.ft. Rs	A	P	Daily distance to be travelled. miles	Number of trips.	Load per trip. c.ft.
1		2	3	4	5	6			7			8	9	10	11	12		13			14	15	16
0	4	8	8	.125	1	"	"	9	4	11	"	10	10	10	100	12	"	"	12	"	8	8	5
0	6	8	5	.125	.625	"	"	9	7	8	"	10	6	10	60	12	"	1	4	"	8	5	5
1	0	8	4	.125	.5	"	"	9	9	6	"	10	5	10	50	12	"	1	8	"	8	4	5
1	2	8	3	.125	.375	"	"	9	12	8	"	10	4	10	40	12	"	1	14	"	8	3	5
1	4	8	2	.125	.25	"	"	9	18	12	"	10	3	10	30	12	"	2	8	"	8	2	5
1	6	8	2	.125	.25	"	"	9	18	12	"	10	3	10	30	12	"	2	8	"	8	2	5
2	0	8	2	.125	.25	"	"	9	18	12	"	10	3	10	30	12	"	2	8	"	8	2	5

Hand cart, drawn and loaded by 3 men and 3 women.																							
Daily distance to be travelled. miles	Number of trips.	Load per trip. c.ft	Total daily load. c.ft.	Daily Cost. Average pay of 3 men + 3 women Rs	A	P	Share of Prime cost of cart. Rs	A	P	Total. Rs	A	P	Remarks										
14	15	16	17	18			19			20			21			22							
8	8	5	40	"	9	3	"	2	9	"	12	"	1	14	"								
8	5	5	25	"	9	3	"	2	9	"	12	"	3	"	"								
8	4	5	20	"	9	3	"	2	9	"	12	"	3	12	"								
8	3	5	15	"	9	3	"	2	9	"	12	"	5	"	"								
8	2	5	10	"	9	3	"	2	9	"	12	"	7	8	"								
8	2	5	10	"	9	3	"	2	9	"	12	"	7	8	"								
8	2	5	10	"	9	3	"	2	9	"	12	"	7	8	"								

For Notes see page attached

In column 2 fractions of a mile can apparently be taken to the effect the results.

It is proposed to make an allowance equal to 1/2 a mile daily average lead as 2 miles. Be [illegible] will be only of 2 miles. At the [illegible] the actuals will be [illegible] two thirds of the [illegible]

Eng 1/2

Asst for

17-5-97

W. Hutton
6/5/97
Asst. Engineer
for Supt-dg Engineer, III circle

E.S.
7.5.97.

No. 207 D

Government of Madras.

PUBLI WORKS DEPARTMENT.

Memorandum.

Dated, Ootacamund, 13th May 1897.

The statement asked for in Offic
Note No. 35 Revenue, dated 1st May 1897,
is herewith forwarded from which it will
be seen that carriage of road materials
by bullock cart is by far the cheapest
and then carriage by hand cart and
that carriage by human agency is th
most expensive

John Campbell Col. R.E.,
Secretary to Govt.

To

The Revenue Dept.
with original of
xx JSR G.O. 245 Rev. Dy 10-4-97 returned.

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4056