

G.O. No 1184 W. 8. 2. 83.
 " " 722 W. 23. 3. 83.
 " 1106 W. 11. 5. 83.
 " 1138. 13. 5. 83.
 " 1756 W. 29. 7. 83.
 " 1863 W. 12. 8. 83.
 " 2119 W. 10. 9. 83.

No. 2313 Wd. 6th October 1885

Communicated to the
 Mr. I Circle

28. 1885
 30. 9. 85

Supply Engr. I Circle
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 29. 9. 83

187. Incl 84 65

Govt. of (1885) Madras.
 MARINE.

Issued

Recd. 28/9/85.

Encl.

G.O., 17th September 1885, No. 391.

No. 2313 Wd. 6th October 1885

SEPTEMBER.

Cocanada Groynes.

Communicating to the Master Attendant
 Proceedings of the Public Works department
 regarding the use of the Yerrampalem stone for
 the construction of the — instead of the concrete
 blocks which it was proposed to use.

17TH SEPTEMBER 1885, No. 391, MARINE.

GOVERNMENT OF MADRAS.

MARINE DEPARTMENT.

READ—the following paper :—

G.O., dated 10th September 1885, No. 2119 W., Public Works.

Read—the following papers :—

From the Superintending Engineer, I Circle, dated 26th August 1885, No. 1171, G.D.

With reference to G.O., No. 273, dated 29th June 1885, in the Marine department, which was communicated to me with G.O., No. 1756 W., dated 29th July 1885, in this department, I have the honor to bring to your notice that a most excellent quarry for large heavy stones has lately been opened out by this department at Yerrampolem, on the Sámalkot canal, where stones averaging one ton and weighing as much as two or three tons can be taken out without much difficulty.

2. The accompanying letter from the Executive Engineer of the Eastern Delta division explains the capabilities of this quarry, and in it he states that he is prepared to carry all the stone required for the Cocanada groynes at Rs. 6-8-0 per ton, which would be a saving of Annas 8 per ton on the concrete blocks proposed by Mr. Thorowgood, and as the specific gravity of the Yerrampolem stone is one-third greater than the concrete blocks, there can be no doubt as to the advantage of using large stones instead of concrete blocks.

3. The estimate of Rs. 6-8-0 per ton might, however, I think, be reduced; and, as the Delta works are at present at a standstill owing to the late retrenchments, if the Cocanada Harbour Groynes Committee would give us an order for the whole of the stone required for the groynes, I dare say we might be able to supply it for Rs. 5 per ton on the average.

We are now reducing our establishment, and an early reply should be sent.

From the Executive Engineer, Eastern division, Godávári district, to the Superintending Engineer, I Circle, dated 18th August 1885, No. 361.

With reference to your No. 1040 G.D., dated 11th August 1885, and its enclosure herewith returned, I have the honor to report as follows :—

1. Twelve cubic feet of Yerrampolem stone weigh about one ton (a piece of dressed stone $1' \times 1' \times \frac{1}{2}$ weighed 97 lb.).

2. From the Government order it would appear that about 1,750 tons of stone are required.

3. This quantity can be supplied from Yerrampolem, within three months of date of order, at the rate of Rs. 6-8-0 per ton. No stone to weigh less than $\frac{1}{2}$ ton, stones to average 1 ton in weight.

4. This rate to include carriage to the site of work at Cocanada on Public Works department punts, *but not unloading from the punts.*

5. If any punt is delayed more than one day of 24 hours after its arrival at the work in Cocanada, there will be an additional charge of the wages of the punts' crew for the number of days so delayed.

6. The distance of the loading place from the site of work is 32 miles, the stones would have to be conveyed on Government punts (for which we have little work now owing to stoppage of all masonry works in the Delta) as the boats belonging to the Cocanada Harbour are not fitted to carry large stones.

Order—dated 10th September 1885, No. 2119 W., Public Works.

Communicated to the Marine department with suggestion that the Cocanada Harbour Groynes Committee be instructed to arrange with the Superintending Engineer, I Circle, for the supply of stone from the new quarry at Yerrampolem.

2. Special attention is invited to the concluding sentence of paragraph 3 of the Superintending Engineer's letter.

(True Extract.)

(Signed) C. BOWEN, Major, R.E.,
Under Secy. to Govt., P.W.D.

To the Marine department.
„ Superintending Engineer, I Circle.

ORDER—dated 17th September 1885, No. 391, Marine.

Communicated to the Master Attendant in reference to his letter, No. 7335, dated 4th instant, and G.O., No. 273, dated 29th June last.

2. Captain Taylor will arrange, in communication with the Cocanada Harbour Groynes Committee, for the use of the Yerrampolem stone which is recommended by the Superintending Engineer as at once cheaper and more suitable for the work than the concrete blocks which it was proposed to use.

(True Extract.)

W. L. L. a
for Chief Secretary.

To the Master Attendant, Madras.
„ Public Works department.

Copy to the Chairman, Cocanada Harbour Groynes Committee.

Q.6. No 1138. 11.5.83.
" 722. 23.3.83.
No 2104. 11.5.83.
No 1138. 13.5.83.
No 1756. 29.7.83.
" 1863. 12.8.83.
" 2119. 10.9.83.

(18) Incl 84 65
Govt. of (1885) Madras.
MARINE.

No. 2313 Wd. 6 October 1885

Communicated to the
the S. E. I. Circle
S. E. I. Circle

~~28.1885~~
30.9.85

Issued
Recd. 28/9/85.
Encl.
G.O., 17th September 1885, No. 391.

No. 2313 Wd. 6 October 1885

SEPTEMBER.

Supply Engr. I Circle

Cocanada Groynes.
Communicating to the Master Attendant
Proceedings of the Public Works department
regarding the use of the Yerrampole stone for
the construction of the — instead of the concrete
blocks which it was proposed to use.

No. 2313 Wd. 6 October 1885

Communicated to
the Supply Engineer I Circle

13/9/85

Govt. of (1885) Madras.
MARINE.

Issued
Recd.
Encl.
G.O., 17th September 1885, No. 391.

No. 2313 Wd. 6 October 1885

SEPTEMBER.

The Supply Engr. I Circle

Cocanada Groynes.
Communicating to the Master Attendant
Proceedings of the Public Works department
regarding the use of the Yerrampole stone for
the construction of the — instead of the concrete
blocks which it was proposed to use.

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2313 May 6 October 1885

Communicated to
the Suply Engineer I Circle

134/ J.S.S.

Govt. of 1885 Madras.
MARINE.

Issued

Recd.

Encl.

G.O., 17th September 1885, No. 391.

2313 May 6 October 1885

SEPTEMBER.

Cocanada Groynes.

Communicating to the Master Attendant
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regarding the use of the Yerrampole stone for
the construction of the — instead of the concrete
blocks which it was proposed to use.

The Suply Engr. I Circle

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2313 May 6 October 1885

Communicated to the
Suply Engineer I Circle.

134/ J.S.S.
134/ A.J.F.

Govt. of 1885 Madras.
MARINE.

Issued

Recd.

Encl.

G.O., 17th September 1885, No. 391.

2313 May 6 October 1885

SEPTEMBER.

Cocanada Groynes.

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regarding the use of the Yerrampole stone for
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To

The Suply Engineer I Circle

2313

1844/9.10.1885

Govt. of 1885 Madras.
MARINE.

Communicated to
the Suply Engineer I Circle

(3d) J.S.S.

Issued

Recd.

Encl.

G.O., 17th September 1885, No. 391.

SEPTEMBER.

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Communicating to the Master Attendant
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regarding the use of the Yerrampolem stone for
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The Suply Engr. I Circle

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(True Extract.)

(Signed) C. BOWEN, Major, R.E.,
Under Secy. to Govt., P.W.D.

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„ Superintending Engineer, I Circle.

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(True Extract.)

W. WILSON,
for Chief Secretary.

To the Master Attendant, Madras.

„ Public Works department.

Copy to the Chairman, Cocanada Harbour Groynes Committee.

Exd. T. O'Connor.

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ase.

Communicated to the
Supt. Engineer I Crib.

(34) J.S.
(34) A.J.F.

Govt. of (1885) Madras.
MARINE.

Issued

Recd. Encl.

G.O., 17th September 1885, No. 391.

No 2313 May 6th October 1885

SEPTEMBER.

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Communicating to the Master Attendant
Proceedings of the Public Works Department
regarding the use of the Yerrampalem concrete
the construction of the — instead of the
blocks which it was proposed to use.

To
The Deputy Engineer I Corps

Ref.
129.9

Form No. 3.

B. hr 1706 W. 9. 7. 84
 G. to hr 246 W. 2. 2. 85-
 B. hr 178 W. 22. 1. 85-
 G. to hr 209 J. 5. 3. 83
 hr 1352 D. 5. 6. 85-
 G. to hr 1171 W. 24. 6. 85 Crud
 hr 2157 D. 2. 12. 84
 " 1949 D. 28. 5. 83-
 " 2086 D. 15. 9. 83-
 " 2088 D. 15. 9. 83-
 G. to hr 2889 W. 19. 11. 84
 hr 2087 D. 15. 9. 83-
 B. hr 2212 W. 21. 9. 83-
 hr 1428 C. 3. 1. 8. 85-
 " 2086 D. 15. 9. 83-
 B. hr 2264 W. 29. 9. 83-
 G. to 2890 W. 19. 11. 84
 " 2889 W. 19. 11. 84
 hr 707 C. 23. 9. 84
 hr 708 C. 23. 9. 84
 B. hr 3087 W. 15. 12. 8

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 30.9.85

PUBLIC WORKS DEPARTMENT, MADRAS.

From
THE CONSULTING ENGINEER
FOR RAILWAYS.

No. 279
Dated 28th } Sept 1885.
Received 28 }

No. of Enclosures. /

Subject.

Subject.
No 234 May 6-12-88
London and
Colonial Exhi-
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File with 50-11
29-9-83

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