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MADRAS RECORD OFFICE.

Government of Madras.

Public works **DEPARTMENT.**

G.O. No. 2945	Press Mis.
176-77	
Dated 9. 12	1862.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
9th December 1862.*

No. 176. Read the following letter from Lieutenant-Colonel S. O. E. LUDLOW, R. E., Deputy Chief Engineer, Northern Circle, to Colonel W. I. BIRDWOOD, R. E., Secretary to Government, Public Works Department, dated Chepauk, 20th November 1862, No. 479:—

SIR,

1 Letter from the Acting District Engineer of Ganjam, No. 177, dated 8th September 1862.
1 Do. No. 230, dated 30th October 1862.
1 Do. from the Collector of Ganjam, No. 130, dated 10th September 1862.
1 Sketch Map.
1 Estimate.
1 Specification Report.
1 Plan.
1 Survey.

1. I have the honor to forward for submission to Government plans and estimates amounting in the aggregate to Rupees 38,740, for constructing a road from Alikam to Heeramundalum, in the Ganjam District, with the necessary masonry works thereon complete.

2. From the sketch map herewith forwarded, it will be observed that, the proposed road will run on the west side of, and almost parallel with the Vunshadara river, passing through Moolagavulsa, crossing the road from Bomally to Jagganutpore (at present under construction) till it reaches the town of Heeramundalum, where it will meet the existing Buttely road. The whole distance from Alikam to Heeramundalum is 21 miles and 890 yards.

3. A road at present exists between Calingapatam and the Omravelly Salt Pans, and the town of Alikam which crosses Trunk Road No. VI, at a place called Byrey. The proposed road is intended to carry on this line of communication from the port, through the interior, which is represented to be very rich and fertile, to meet the Buttely road at Heeramundalum: thus completing the communication from the coast to the interior.

4. The traffic between Calingapatam and Heeramundalum is said to be greatly retarded by the want of a good road, and the necessity that now exists for twice crossing that large and unbridged river called the "Vunshadara." The country between Heeramundalum and Alikam is represented to be very swampy and the Principal Assistant Collector reports that in May last he was upwards of eight hours, after the last year's rains had terminated, in getting from Chicacole to Poorshottapur, a distance of some 15 miles. The country is reported to be all but impassable, even for foot passengers, except in the middle of the dry season, and for at least seven months in the year the rich tract of country south of Heeramundalum is said to be left without any means of communication with the port and the Salt Pans.

5. The advantages to be gained by the construction of this road, are, the additional facilities that it would afford for bringing the produce of the interior including cotton down to the coast and for the conveyance of Salt inland as well as for the passage of troops when necessary to the Hill Districts and through them to the Military Station of Nagpore.

6. The traffic taken during the month of March last, between Heeramundalum and Buttely, amounted to 624 carts and 115 pack bullocks daily, and the goods carried by these have to be transported across the Vunshadara river at two places. In moderate floods carts are passed over lashed to canoes. In high floods the passage for carts is stopped altogether for days.

7. In conclusion, I would take the liberty of bringing to the notice of Government that, the Kimedy Estate has borne the cost of construction of this line of road as far as its limits, and in view to the thorough utilization of what has already been done, the State should, I consider, contribute its just share; the work being one that will prove eventually profitable both to the Government and the Estate; but as Mr. Forbes, the Collector, remarks "in far the greater ratio to the former."

Order of Government, No. 238, dated 28th September 1859, Public Works Department.

Order of Government, No. 137, dated 19th January 1860, Public Works Department.

Proceedings of the Madras Government, Public Works Department,
9th December 1862.

8. The estimates have been examined and are correct, the aggregate amount, however, viz., Rupees 38,740, is large, considering that it is for only 21½ miles of road; but this may be accounted for by the swampy nature of the country through which it will have to pass, I beg, therefore, to recommend the work for sanction and entry in the Budget of 1863-64, and that the subject may be removed from the list of orders of Government remaining unanswered by my Department.

No. 177.

ORDER THEREON, 9th December 1862, No. 2,915.

1. The estimate of Rupees (38,740) thirty-eight thousand seven hundred and forty, submitted with the foregoing letter, for the construction of a first class District road from Alikam to Heeramundalum in the Ganjam District, is sanctioned for entry in the Budget of 1863-64.
2. The removal of this subject from the return of the Government Orders remaining unanswered by the Deputy Chief Engineer, Northern Circle, is authorized as requested.

(Signed.) W. I. BIRDWOOD, Colonel, R. E.,
Secretary to Government.

Public Roads—

32
New Works

Abstract Estimate No. 1 of 1862/63

Ganjam District

Work Constructing a Road from Alikam on Road from Chitradah to Gaurak and Calujapataw to Heeramundalum connecting line from there to Bultit and Gunapooram Length 21½ miles and 890 yards.

Quantity	Description of work.	Rate	Amount	Total
126588	Earth work ————— per cu yd	10	659322	
29647	Metalling ————— per sq yd	6	11170	
6700	Gravel ————— per cu yd	3	20100	
67314	Gravel Churning Single ————— per 1000 sq ft	4	269256	
21	Stone ————— each	2	42	
	Contingencies ————— @ present	10	198515	
	Compensation for Exam laud		3275	
				24250

1 Timber Bridge of 4 Bays of 12 ft

238	Plank each over 12 ft x 6 ft x 1 1/2 in	1	33712	
227	Plank stone in Chumau ————— per cu yd	1	8	
272	Plastering Chumau ————— per sq yd	1	4138	
12	Plaster ————— each	7	84	
720	Square feet plastering ————— per sq ft	1	180	
185	Running feet hand Rails ————— per ft	1	468	
4	Mounds of Iron Nails ————— per lb	3	8	
600	Cyds Earth work ————— per cu yd	10	314	
	Contingencies ————— @ present	10	743	
	Total Estimate for one		836	

1 Timber Bridge of 3 Bays of 12 ft

211	Plank each over 12 ft x 6 ft x 1 1/2 in	1	32112	
207	Cyds Rough stone in Chumau ————— per cu yd	1	8	
247	Square Plastering Chumau ————— per sq yd	1	37	
	Carried Over		33942	
			35813	25880

Brought over 355 18 7 25050
 7 Beams ————— each ————— 100
 500 Square feet Plastering ————— 100
 154 Running feet hand rails ————— 38 5
 390 Cords Earth work ————— 20 5
 3 Hauls of Iron rails ————— 10 5
 Contingencies ————— 10 5
 Total Estimate Rupees ————— 880

1 Timber bridge of 2 spans of 25 ft
 Span each over pillars: 15 ft
 1400 Cords Rough stone in Chumam ————— 1 5 240 12 5
 10 Squares Plastering Chumam ————— 1 8 24
 6 Beams ————— each ————— 10
 384 Square feet Plastering ————— 10 96
 124 Running feet hand rails ————— 31
 2 Hauls of Iron rails ————— 10 5
 400 Cords Earth work ————— 20 5
 Contingencies ————— 10 5
 Total Estimate Rupees ————— 510

4 Timber Bridges of 1 Bay of 15 ft
 Span over pillars: 8 ft 5 in. 7 ft 5 in.
 and 8 ft.
 152 Cords Rough stone in Chumam ————— 1 5 228 12 9
 12 1/2 Squares Plastering Chumam ————— 1 8 18 12
 3 Beams ————— each ————— 10
 228 Square feet Plastering ————— 10 228
 104 Running feet hand rails ————— 26
 12 Hauls of Iron rails ————— 10 5
 400 Cords Earth work ————— 20 5
 Contingencies ————— 10 5
 Total Estimate for one Bridge ————— 1120
 Total Estimate Rupees for 4 Bridges ————— 4480
 Carried over —————

Brought over 27950
 7 Channels of one vent of 7 ft span
 364 Cords Rough stone in Chumam ————— 1 8 36 14 3
 1000 Cords Brick in Chumam ————— 2 1 6 52 2 3
 5 Squares Plastering Chumam ————— 1 8 18
 17 1/2 Cords Rough stone ————— 1 8 11 1 6
 1 Cribbing ————— each ————— 6
 100 Cords Earth work ————— 20 5
 172 Cords Turfing ————— 3
 Contingencies ————— 10 5
 Total Estimate for one Tunnel ————— 162
 ditto — ditto for 7 Tunnels ————— 1134

22 Tunnels of 1 vent of 6 ft span
 147 Cords Rough stone in Chumam ————— 1 8 36 5 4
 1000 Cords Brick in Chumam ————— 2 1 6 52 6 7
 4 1/2 Squares Plastering Chumam ————— 1 8 6 12
 12 1/2 Cords Earth work ————— 10 11 10 8
 1 Cribbing ————— each ————— 5
 172 Cords Turfing ————— 3
 Contingencies ————— 10 5
 Total Estimate Rupees for one Tunnel ————— 122
 Total — ditto for 23 Tunnels ————— 2806

22 Tunnels of one vent of 3 ft span
 31 1/2 Cords Brick work in Chumam ————— 2 1 6 65 9 8
 4 Squares Plastering Chumam ————— 1 8 6
 1 Cribbing ————— each ————— 3
 100 Cords Earth work ————— 20 5
 180 Cords Turfing ————— 3
 Contingencies ————— 10 5
 Total Estimate Rupees for Tunnel ————— 93
 Total Estimate Rupees for 22 Tunnels ————— 2046
 Carried over ————— 35226

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C. P. Thiriot
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Northern Circle Office
Cherpank 20th November 1862

N^o 479

From,

Lieutenant Colonel J. O. E. Lullow R. E.
Deputy Chief Engineer N. C.

To,

Colonel W. J. Birdwood R. E.
Secretary to Government P. W. D.

Sir,

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Cherpank 20th November 1862

1/263/62

From

Mr. Deputy Chief Engineer

(Enclosed)

Mr. Deputy Chief Engineer

Mr. Birdwood R. E.

Cherpank 20th November 1862

Public Works

Cherpank 20th November 1862

— Mr. Deputy Chief Engineer

from Mr. Birdwood R. E.

Cherpank 20th November 1862

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N. B. Office
Chepauk
30th Nov. 1862

J. R. M. D. R. E.

Deputy Chief Engineer N. B.

To
Colonel H. J. Birdwood R. E.
Secretary to Government. P. M. S.

E. R. H. R. E.

No. 28th of Aug 1859. 173
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 19th Aug 1860 - 99-100.
 No. 2945.

19th 1862
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