M.R.O. 1—77,006—8-6-37.

(1) Number of pages 30

(2) Date of repair 25-8-42

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 1205 Press / Mis.

128-179

Dated 10-6-1862.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 10th June 1862.

No. 178. Read the following letter from Lieutenant-Colonel S. O. E. LUDLOW, Deputy Chief Engineer, Northern Circle, to Lieutenant-Colonel W. H. HORSLEY, Secretary to Government, Public Works Department, dated Chepauk, 4th June 1862, No. 319/K 143:—

1 Letter from the District Engineer, Kurnool, No. 306, dated 12th November 1856.
1 Do. No. 743, dated 29th October 1857.
1 Do. No. 1,148, dated 19th December 1859.
1 Do. No. 66, dated 20th May 1862.
1 Estimate.
1 Report.
1 Plan.

SIR,

1. I have the honor to forward for the consideration of Government an estimate amounting to Rupees 60,000 for the construction of a second class road between Nundyall and the Cuddapah frontier at Chungulmurry, a distance of 36½ miles.

2. The Estimate for this road was originally received in the year 1857, from Major Shaw Stewart, Acting District Engineer, and its amount was then 41,000 Rupees. It was again submitted after undergoing revision in December 1859, its amount having been increased to 54,000 Rupees.

3. The project has never yet been sent up to Government, for although entered in the District Budget for 1862-63, it was struck out in the Central Office, and is consequently not provided for in the Budget for this year; but a provision of 10,000 Rupees has been made for it from the Income Tax grant, of Rupees 4 lacs given last year, which is available in the current year.

4. This road forms part of the direct line of communication from Madras through Cuddapah and Kurnool, to Hyderabad and Nagpore, and in this respect will be more valuable, whether regarded in a Military or commercial point of view. The local traffic on it will also be considerable, owing to the number of towns and large villages through or near which it passes. It is very difficult however to approximate to the present amount of traffic on the line which varies according to the season, being large during the dry months, little or more during the rains owing to the unmade state of the line. The local traffic is distributed over numerous tracks; but the line if once properly made would collect it all.

5. The country is throughout the whole distance very favorable for the construction of a road.

6. The estimate provides for a road 8 yards in width, of which 6 are to be metalled with 4½ inches of gravel. Provision is made in it for the minor masonry works; but not for bridging the large streams.

7. It will be for Government to decide whether the importance of this line, as compared with other works required elsewhere, will justify the abstraction of so large a sum as 50,000 Rupees, the balance of the estimate unprovided by the Income Tax grant, from the Reserve Fund allotted for the present year.

8. That this very important line, the chain of communication must be completed sooner or later, there can be no doubt, and the sooner it is done the more economically will it be executed; for the estimated cost of the work which has already risen from 41,000 Rupees to 60,000 Rupees is likely to amount to a still higher sum, if the work is delayed for any great length of time.

No. 179. ORDER THEREON, 10th June 1862, No. 1,305.

Before passing orders on the foregoing letter the Government wish to be furnished with a survey of the line of road referred to therein, and a sketch map of the neighbouring country. The attention of the Deputy Chief Engineer, Northern Circle, is called to paragraph 60, Chapter V of the New Public Works Code, and he is requested to conform in future to the instructions contained therein.

(Signed) W. H. HORSLEY, Lieut.-Colonel,
Secretary to Government.

No 306.

From,

Lieutenant C. R. Blagrave
District Engineer of Purnool

To.

The Chief Engineer
Department of P. W.

Sir

In addition to the 54,500 Rupees for Purnool & Mantral Cumbum Pass Road here with sent for Sanction. I have the honor to request that the Sum of Coupangs Rupees 8,000 for improving the following District Road. viz the South of this District may be Sanctioned viz. From Nundiall to Chagulmurry upto frontier of Cuddapah a distance of 40 miles at 200 Rs a mile. It is necessary that Steps should early be taken to put this track in fair order to render it passable at all seasons as the Madras & Purnool &c. Tappal has now been transfered to this line whatever improvement now required to be done will be done with the view of its being Eventually made into a 1st Class line which will be necessary when the Civil Court & Jail are transfered to Nundiall or Sirwell as it is proposed they should be, the improvement required are the repair of one or two Small Bridges

and

and causeways now existing but Considerably damaged during the late Monsoon and Construcking others where actually necessary as also improving the road in places - now all in impassable during the rains - This road passthro' or by the Cusbah Stations of Trundiall Sirsell and Chaculmunny and forms the only means of Direct Communication, in conjunctions with the Kurnool and Trundy Cummama line, between Kurnool and Cuddapah and thence to Madras; it may hereafter be extended North to Yellgode & Alcoor forming a Communication from North to South along the foot of the Nullamudda Range of Hills.
The work to be executed under the Supervision of the Officer in charge of the Southern Division of the District.

I have the honor to be
Sir
Your most obedient Sert
E. N. Maycock Lt
District Engineer of Kurnool

Kurnool District
Engineers Office
Camp at Sirsell
" November 1853

NB Total for sanction. Kurnool & Cummama Pass Road. Cos R. 54500
Improving District Road.
from Trundiall to Chaculmurry 40 miles - 8.000
Total Cost R. 62,500

E.N.M.

No 743

From,
Lieut.-Col. T.M.L. Clarke
Dy. District Engineer of Kumaon

To,
The Chief Engineer,
in the Depart.t of P. W.
Fort St. George.

Sir,

I have the honor to forward herewith reference to the scheme of roads
Enclosures
1 Survey & Estimate
1 Detailed Estimate in connection with the Sandy Canara
for Divers
1 Plan for Do Cash forwarded to you by Lieut.t Blagrave
1 Report with his letter No 306. of the 12th Nov.r
1856. I have the honor now to enclose herewith
for the Budget of 1857-58 an Estimate, accompanied
by a Survey and a Report in the prescribed form,
for a second class Road from Sundyal to the
Cuddalah frontier beyond the town of Chapul
marre.

It is scarcely possible to exaggerate the
importance of this Road, whether considered in
connection with the Sandy Canara line, — or
by itself, as a means of local communication,
and as forming part of a most important &
necessary line of through traffic. It will
supply a much wanted link in the great

Received 23rd Nov.r 1856
Copy in a letter to England
dated 10th September No. 89
of 1862.

Northern Circle
Form No. 111.3.
District Engineer
of Kilcoor &c.

To
The Chief Engineer
& Secretary to Govt.
in the Military Department
Fort St. George

Dated 12th November 1856
(22 Enclosures)

No 1718 of 1862
Respectfully forwarded
for the information of
the Most Honble
the Governor in Council
Chief Engineer

No 2971

Resolved with reference to the foregoing letter to call the
attention of the District Engineer of Kurnool to the necessity
of which he must be fully aware, of supporting all applications
for money for Road purposes, with detailed Estimates and Surveys
and also, where practicable, with traffic returns. —

R Cmte — C.E.

22nd November 1856

(Signed) C.C. Johnston Captain
Actg. S.E. Northern Circle

Chain of Communication between Madras, Nellore & Cuddapah, on the one side, - and Kurnool, Hydrabad, Bellary, with many more, on the other. As I have stated in the Report, there is at present no part of the line which could be called a road, even in the most extended sense of the word: — the Consequence being that for several Months of the year, when the Ground is soft and heavy from the Rain, traffic is completely driven off the line - As an example of this, all traffic between Madras and Kurnool or Hydrabad, comes by Bangalore and Bellary, — thus almost doubling the distance of the more direct route through Cuddapah, but actually saving time from the want of a road between Cuddapah & Rundyall - It needs scarcely point out the advantage of which the proposed road would be in a Military point of view, though it is perhaps the greatest recommendation in its favour.

I have the honor to &c

Sir

Your most obedt Servant

Lieut
Asst Dist Engineer of Ch Survey

Kurnool District
Engrs Office
Camp Drone
29th Octr 1857

No. 1148 of 1859-60

From,
Lieutenant J. Beckley,
Ag. District Engineer of Kurnool.

To,
The Deputy Chief Engineer,
Northern Circle,
Fort St. George.

Sir,

In accordance with the orders contained in your letter No. 8097 of 7th Inst. I have the honor to return the Plans & Estimates for the road from Nundyal to the Cuddapa frontier with the rates revised.

Enclosures 70

2. The increase in the rates are as follows, Earth work from 1 anna to 1 anna 4 Pice per C.yd, gravelling from 2 to 3 annas, Masonry from 1 anna to 1 anna 4 Pice per C.ft. these rates are rather higher than the existing rates, but allowance must be made for a certain rise in the price of labour when the Irrigation Company commence operations.

3. The revised Estimate Amounts to Rs. 54,000 giving an excess over the Original Estimate of Rupees 13,000.

I have the honor to be,
Sir,
Your Most Obedt. Servant,

J. Beckley
Ag. District Engineer of Kurnool

District Engrs. Office
Kurnool 19th December
1859

To Ag Dt Engr Kurnool.
No. 8097
Copy in a letter to England
No. 1143
No. 17/18/62

No 6 of 1862-63 — District Engineer's Office
Kurnool 3rd May 1862

From Captain J. Baxter
Offg District Engineer of Kurnool

To Lieutenant Colonel J. P. G. Scallon
Deputy Chief Engineer Northern Circle
Vizagapatam

Sir,

I have the honor to request that you will be pleased to move Government for the sanction to the Estimate of the Koilkuntla road with the Rates revised.

2. The principal changes in the rates are those for granelling and rough stone revetment the former has been revised from 3 to 4 annas and 4 pice to 8 annas, as though in some places gravel and stone are found near the line of road, for the greater part of the way these materials must be carted from 2 to 4 miles.

3 The experience of the small amount

To Govt No 319 of Volume 162
Copy sent as letter to England
Dated 10th September No 819 of 1862.

No 1143
From The Acting District Engineer Kurnool
To The Deputy Chief Engineer Northern Circle Vizagapatam
No 1718/62
Dated 19th December 1859
Received 5 January 1860

No 1148

Returns, with reference to the letter from Govt No 37 of 7th December 1859, the Plans & Estimates for the road from Kandaya all the Cuddapah frontier with the rates revised.

Recd

of work done on this line in 1859/60 and 1860/61 showed that the rates I have adopted would not be more than sufficient. Their sufficiency however will in great measure depend on the work being sanctioned for execution at an early date and carried out with all possible despatch, as the Irrigation Company's works in the Hunderra valley will shortly be commenced, and the competition for labor become still greater than it is now.

I have the honor to be
Sir,
Your most obedient servant
G Beatty Captain
Ag Dist Engr of Burnoo

(Public Roads) (New Work)

Abstract Estimate No. of 186.6

District. Kurnool.

Work. Constructing a Road from Nundyall to Chagal-
murry via Kerwell with masonry works thereon.

Quantities	Description of Work.	Rate. Rs.	As.	P.	Amount Rs.	Amount for each Head Rs.
183557	Cubic Yards of Earthwork lift	"	1	4	1529 6.	
8682	— Do — — Do —	"	1	6	814.	
48285	— Do — — Traveling	"	1	"	1207 1.	
1141293/4	— Do — — Carrying	"	"	3	2252.	
279	— Do — — Rough Stone	"	8	"	139.	
						30572.
	Avenue Trees — 1/2 Mile	50	"	"	—	1330.
37	Mile Stones — Ea	5	"	"	—	185.
	Drain of 3 Vents 3X3.					
2445/6	Cubic feet Stone in chunam including pointing 1/4th	"	1	6.	229.	
42	Covering Flags — Ea.	1	"	"	42.	
25 3/4	Cubic Yards Loose Stone 1/4th	"	8	"	13.	
	Contingencies. —				29.	
					313.	
17	Drains. —					5321.
	Drain of 2 Vents 3 X 3.					
2111	Cubic feet Stone in chunam including pointing 1/4th	"	1	6	198.	
	Carried Out. —				198.	37908

Plans No 3119 dated 16th June 1862.
Copy in a letter to England
dated 10th September 1862 No 289 of
1862.

K 1143
2nd Dec 1862

The Officiating District Engineer
To
The Superintending Engineer
Northern Circle
Bellary

Dated 20th Nov 1862
Received 2nd " "

Sir

Returning the Abstract Estimate for the Construction of a Road from Nundyall to Chagalmurry via Kerwell with Masonry works thereon, as requested in Memo. No 2228 dated 17th May 1862.

Quantities	Description of Work.	Rate.	Amount	Amount for each part.
	Brought over		198.	37,968.
28	Covering Flags. ——— Cu.	1 " "	28.	
17	Cubic Yards Loose Stone	" 8 "	9.	
	Contingencies		23.	
			258.	
46	Drains			11868.
	Drain of 1 Vent 3X3.			
153 1/4	Cubic feet Stone in chimney including pointing ₰ Ct.	" 16	146.	
14	Covering Flags. ——— Cu.	1 " "	14.	
9 1/4	Cubic Yards Loose Stone ₰ Cy.	" 8 "	5.	
	Contingencies.		16.	
			181.	
11	Drains			1991.
	Drain of 1 Vents 3X3			
288 9/4	Cubic feet Stone in chimney including pointing ₰ Ct.	" 16	271.	
31 56	Cubic Yards Loose Stone ₰ Cy.	" 8 "	17. 56	
	Contingencies.		35	
			379	
2	Drains			758.
	Carried Over.			52,525

Quantities	Description of Work.	Rate.	Amount	Amount for each part.
	Brought over			52,525.
	Drain of 4 Vents 5X4.			
32 1/2	Cubic feet Stone in chimney including pointing ₰ Ct.	" 16.	306.	
56	Covering Flags. ——— Cu	1 " "	56.	
53 1/3	Cubic Yards Loose Stone ₰ Cy	" 8 "	27.	
	Contingencies		38.	
			427.	
				427.
	Drain of 4 Vents 5X5.			
357 1/4	Cubic feet Stone in chimney including pointing ₰ Ct.	" 16.	333.	
56.	Covering Flags. ——— Cu	1 " "	56.	
53 1/3	Cubic Yards Loose Stone ₰ Cy	" 8 "	27.	
	Contingencies		40	
			456.	
				456.
	Drain of 5 Vents 5X4.			
357 1/4	Cubic feet Stone in chimney including pointing ₰ Ct.	" 16.	363.	
70.	Covering Flags. ——— Cu.	1 " "	70.	
67 1/2	Cubic Yards Loose Stone ₰ Cy.	" 8 "	34.	
	Contingencies.		46.	
			513.	
				513.
	Carried over.			53,921

Quantities	Description of Work.	Rate			Amount	Amount for each part
	Brought over.					5392.
	Drain of 21 vents 3 X 4.					
3175½	Cubic feet Stone in channel including pointing — ℄ Ct.	"	1	6.	298.	
56	Covering flags. — Cde	1	"	"	56.	
36⅓	Cubic Yards Loose Stone ℄ Cy.	"	8	"	17.	
	Contingencies —	"	"	"	37.	
						108.
	Drain of 3 vents 5 X 5.					
2991½	Cubic feet Stone in channel including pointing	"	1	6	281.	
42.	Covering flags. — Cde	1	"	"	42.	
40½	Cubic Yards Loose Stone ℄ Cy.	"	8	"	20.	
	Contingencies. —				36.	
						379.
	Contingencies. —					5,292.
	Grand Total Proposed. —					6,000.

R. C. Mudden Lieutenant Colonel.

Central Office of W. Pr.
Chepauk.
May 1862.

Deputy Chief Engineer N. Circle.

Forwarded No 319 of 4th June/62.
Copy in a letter to England dated 10th September No 89 of 1862.

F 1143. Enclosure
In a Letter No 319.
From
The Deputy Chief Engineer. P. Circle
To The Secretary to Govt. P. W. D. F. St. G.
Dated 4th June 1862.
Received
PWD 3778/62

Abstract Contents of the probable expenses of constructing a second class Road from Pundyall to Cuddapah frontier in the District of [illegible]
Amounting to Rupees [illegible]

Report on the Estimate

1 Estimate for constructing a second class Road from Pundyall to Cuddapah frontier. Miles 36-4-140

2 Amount of Estimate Rs (~~54000~~ 60000) ~~fifty four~~ sixty thousand, comprizing the following items

185551	Cubic yards of soft earth work at 1 anna 4 pice per C. yard	15295 ~~[illegible]~~	14	8
8692	Do of hard earth work at 1 1/2 as per cubic yard	813	15	..
49285	Do Gravelling at 4 as per C. yard	12071 ~~[illegible]~~	4	..
144129 1/4	Do Ramming at 3 Pice Do	2252	..	5
279	Do Rough stone work at 8 as 4 Pice per cubic yard	139 ~~93~~	8	..
	Avenue Trees at 50 Rupees per mile	1830	..	..
37	Milestones at 5 Rs each	185	..	..
81	Tunnels varying in size from 1 vent of 3 feet to 5 vents of 5 feet	22121 ~~22141~~ ~~11725~~	..	
	Superintendence at about 5 Rs per cent	5291 ~~2735~~ ~~2462~~	5	11
	Sundries	~~2536~~ ~~2271~~ ~~1142~~	~~5~~ ~~10~~ /	~~11~~ ~~11~~ /
	Total Estimate Rs	~~54000~~ ~~4000~~ 60000	..	..

3 The top surface of the Road is to be

5 yards in width of which 3 yards are to be metalled - The Metal to Consist of 4 inches of hard gravel. The Side Slopes of the embankments are to have a Slope of 2 to 1 the soil does not require to be turfed -

4 The large Bridges are not yet Contracted for

5 This road when Completed will form part of the direct line of Communication from Madras through Cuddapah and Kurnool to Hyderabad and Nagpore. In this respect it will be most valuable, whether regarded in a Military or a Commercial point of view. The local traffic on it will also be Considerable, as may be imagined from the Towns and large Villages through or near which it passes starting from Sundyah, a large Town and the Cusbah Station of a Taloork, situated on the line of Road from Kurnool to the Sundycanama Pass, - it passes near Canalla, - Deepagoontala, - Siwelli, the Cusbah Station of a Taloork, - Yerragoontala, - Palasagra, - Mootialpaud, - Chagulmurry the Cusbah Station of a Taloork, - and on

to the Cuddapah frontier. Throughout the whole distance the Country appears to be very favourable to the Construction of a Road, - principally Consisting of a hard red gravelly soil. It is very difficult even to approximate the present amount of traffic on the line, the amount of through traffic varies much according to the season of the year. In the dry months it is very great, while in the rainy months from the want of anything like a road, there is little or none. If the Roads were made, it would be a great thoroughfare throughout the year.

The local traffic is at present distributed over a number of tracts, all equally good, or rather equally bad; were one good road made it would receive the entire traffic of this portion of the District.

Kurnool District
Engineers Office
Camp at Yeldoor
26th October 1857
Despatched
29th October 1857.

J. S. Mackenzie Lieut.
Dy District Engr of Kurnool

W. M. Campbell Captn
Offg Agent to the Govr

Deputy Chief Engineer's Office
Chelmsford 4th June 1862.

No. 319

To
Lieut. Colonel A.O.C. Addison
Deputy Chief Engineer
Northern Circle

Sir,

I have the honor to forward for the consideration of Government an Estimate amounting to Rupees 5,000 for the construction of a Second Class Road between Kandy and the Trincomalee Frontier at Kandalapalle Fourteen miles Twenty a distance of 30½ miles. Chinguleumoy a distance of 8 miles. The Estimate for the above road is originally received from the year 1858 signed Major Skead Staff Corps & Acting Assistant Engineer. And the amount there stated Rupees

I have again submitted after consideration the Estimate for the above road for the present year 1862 for the consideration of Government for which Rupees 5,000 is required.

I have the honor to be
Sir
Your most obedient
humble Servant
Colonel R.M.K. Skead

Colonel Addison
Deputy Chief Engineer
Northern Circle

Colombo

Colombo No 319 of 4 June 62
Copy inc to letter to England
Dated 10th September No 89 of
1862

Northern Circle

No 113 Inc in letter from
the Deputy Engineer
& Assistant Colonel
29th September 1862 No 48

No. 1718/62

Report on the
Estimate for constructing
a Second Class Road
from Kandy to the
Kandalapalle frontier via
Kirwella in the District of
Kornegalle for the year 1858/59

of 10000 Rupees has been made for it from the Income Tax Grant," of Rupees 4 Lacs given last year, which is available in the current year..

4 This Road forms part of the direct line of communication from Madras through Cuddapah and Kurnool, to Hyderabad, and Seegpore, and in this respect will be more valuable whether regarded in a Military or Commercial point of view.. The local traffic on it will also be considerable owing to the number of Towns and large Villages through or near which it passes.. It is very difficult however to approximate to the present amount of traffic on the line which varies according to the season, being large during the dry months, little or none during the Rains owing to the unmade state of the line.. The local traffic is distributed over numerous tracks; but the line if once properly made would collect it all..

5 The Country is throughout the whole distance very favorable for the construction of a road..

6 The Estimate provides for a road 8 yards in width, of which 3 are to be metalled with 4½ Inches of gravel. Provision is made in it for the common masonry works; but not for Bridging the large Streams..

Ld

7 It will be for Government to decide whether the importance of this line, as compared with other works required elsewhere, will justify the abstraction of so large a sum as 37,000 Rupees the balance of the Estimate unprovided by the Income Tax Grant, from the Reserve Fund allotted for the present year.

8 That this very important line, the chain of Communication must be completed sooner or later, there can be no doubt, and the sooner it is done the more economically will it be executed, for the Estimated cost of the work which has already risen from 4,000 Rupees to 37,000 Rupees is likely to amount to a still higher sum, if the work is delayed for any great length of time..

I have the honor to be
Sir
Your Most Obedient Servant

H. Goodwin Lieut Colonel
Deputy Ch Engrs 3rd Circle..

Dpty Ch Engrs Office
Cheepauk
4th June 1862.

Copy inc: of letter to England
Dated 10th September No. 89
of 1862.

From the Dy. Ch:
Engrs. C/ 11th July/62
Cor: 2158

No. 178. 179

P.W. 1862. Department
Rec'd - 1st Div. 5th June
1718

Read
Lieut. Col. C.S.O. Chesham
Dy. Chief Engineer
Northern Circle

To
Lieut.-Col. Fr. H. Horsley
Secretary to Govt.
P.W.D.

Dated 4th
Received 5th } June 1862

Encls: 7 Plans as per Margin
No. Chief Engineer
No. 319 12-6-62

Submitting and
Estimate amounting to
Rs. for the Construction of a 2nd Class
Road between Imphal
and the Cachar Frontier at Chungkoung
in the District of
Kurnool.

With an Order
No. 1305 - 10th June.

No. 1305.

Before passing
orders on the foregoing letter
the Govt. wish to be furnished
with a Survey of the line of
road preferred to thereon
and a Sketch map of the
neighbouring country.
The attention of the Dy. Chief
Engr. N. Circle is called to
para 60 Chap. V of the new
Public Works Code, and he
is requested to conform to the
instructions contd. therein.

J. P. W.

Sheperd
13 Copies
10th June 1862

To the Dy. Ch. Engr. N. Circle Dispd. 12th