M.R.O. 14–5,450–22-10-25.

MADRAS RECORD OFFICE.

Government of Madras.

Revenue **DEPARTMENT.**

G.O. No.	1452	Press ~~Mis.~~
564-65 Dated	23-5-1868.	

Not to be folded or roughly handled

Proceedings of the Madras Government, Revenue Department,
23rd May 1868.

No. 564. Read the following Proceedings of the Madras Government in the Public Works Department:—

Communicating to the Board of Revenue letter from Superintending Engineer, 3rd Division, regarding certain roads in Kurnool district. } (Here enter 20th May 1868, No. 1,604.)

No. 565. ORDER THEREON, 23rd May 1868, No. 1,452.

Local Funds, No. 13.
Civil Works.

Ordered to be recorded.

(True Extract.)

(Signed) H. SEWELL,
Acting Under Secretary to Government.

Exd. S. T. Augustin.

Read the following papers:—

No. 512. From the Superintending Engineer, 3rd Division, to the Secretary to Government, Public Works Department, dated Camp at Cumbum, Kurnool District, 10th September 1867, No. 1,632.

1. With reference to G. O., No. 2,362, of the 5th ultimo, on the report of the Collector of Kurnool for the year 1866-67, and also to paragraph 2 of my letter No. 1,523, dated 23rd ultimo, I have the honor to submit the following remarks, having, within the last few days, passed along the road from Kurnool to the Nundikanama ghaut just after heavy rain had fallen on the greater part of the road, giving me a better opportunity of judging of the state of this road than Mr. Chase had.

2. Up to the 3rd milestone the road is in fair order, though a little heavy after the rain that had lately fallen. The first portion of the 4th mile was very muddy and heavy, the gravel that had been formerly used for this portion not having been good. Steps are being taken by Captain Hunter to metal this portion, a quantity of material being already collected; the latter portion of the 4th mile was in very fair order, the gravel there used being good, the 5th mile also is in good order. From the 2nd to the 5th milestone the road is chiefly over black soil.

3. The 6th mile is over hard soil, and is in good order.

4. From this to the 10th milestone, the limit of the Kurnool range, the road is for the greater part of the way over black soil; the 7th and 8th and part of the 9th miles were in fair order, but the remainder of the 9th and the whole of the 10th miles were heavy.

5. None of these miles have ever been properly metalled, having been originally formed with big stones as a pavement, covered with gravel.

6. As regards the parapet wall of the culvert near the 10th milestone, regarding which Mr. Chase writes as if the damage was very bad, and if not repaired soon might cause serious damage, I beg to say that merely the end of the parapet wall was broken off, and it would not, but for appearance sake, have mattered if it had never been mended.

7. From the 10th milestone, from which the Nundial range commences, up to the 19th milestone, the road may be said to pass over black cotton soil, a short distance only in the 15th mile being over limestone shale. No portion of this has been regularly metalled; but attempts have been at times made here and there to improve the worst parts by putting on broken stone or very small pebbles, the road has been chiefly made with round water worn stones, covered with a good coating of gravel. In the 11th mile are two culverts which have insufficient waterway, and have been badly constructed originally, they should be removed, and replaced by road dams. In the 12th mile there is insufficient waterway, and a road dam is required. In the 13th mile a culvert, which had been badly constructed, and had insufficient waterway, has fallen, and is being replaced by a road dam.

8. From the 19th to the 35th milestones the road is principally over good hard soil, and is, on the whole, in very fair order. I do not understand what Mr. Chase complains of when he says, "no where have I found the road so "bad as that part of the Kurnool and Cuddapah road which runs through the pass

"of Kalva, between about the 23rd milestone and Tamarazpully." I have inspected this road within three months of the date of Mr. Chase's report, and I must say that I think the portion between the 23rd and 28th milestones (this last is east of Tamarazpully) about the best of the whole line; the only faults I had to find were with the stones sticking up in the roadway, and which will take some time to remove, they being the stones used originally in the formation of the road and now working up; and that the stone-pavement of three road dams had not been removed, which I had ordered a long time ago. The road through this pass is no where less than six yards broad, and at the precipitous parts there are rough-stone parapet walls; any accident that would happen would be attributable, in my opinion, to bad driving. The worst miles in this portion are I consider the 29th and 30th miles, which require proper sectioning, and more attention to the clearing of the side channels and check drains.

9. From the 35th to 49th milestones the road passes over black soil; from the 35th to the 41st miles the road has been formed with waterworn stones covered with gravel; in the 37th and 41st miles there are two large nullahs requiring masonry works, the preparation of the plans, &c., for which I have ordered. In the 42nd to the 49th miles only a coating of gravel has been spread, and after rain these miles have cut into deep ruts.

10. Close to the 49th milestone the road to Cuddapah turns off, and after this nothing has been done on the Kurnool and Cumbum road between the 49th and 57th milestones beside lining out the road, constructing a few small culverts, and a little gravelling in patches, through which small breaches have been made by petty streams. Nothing has been done at the larger nullahs, &c.; in this portion twenty-two road dams are required.

11. I have instructed Mr. Supervisor Howell to submit estimates for all the masonry works required, and for metalling the road between the 35th and 57th milestones.

12. As regards paragraph 6 of Mr. Chase's report, I do not think it necessary to say much, as every one knows or ought to know that the annual maintenance grant is for repairs, and not for metalling. Between Gooty and Kurnool, and again between Kurnool and Panum, in fact over the greater part of the Kurnool district, the principal stone is limestone; there is also a good deal of quartzite, and in parts some beds or flows of trap; towards Aspery there is gneiss extremely granitic.

13. Between Gooty and Kurnool are several beds of trap, but the cost of breaking and carrying it would be so great that it would be absurd to think of using it for repairs from maintenance grant. If called upon to submit an estimate for metalling this piece of road, I would have experiments made as to the cost of breaking it, as I think it would be found that it could not be done for the amount named by Captain Hunter, viz., 8 Annas the cubic yard. I would have it laid six inches thick, without any gravel, and the cost would, I think, be about Rupees 2,500 per mile.

14. In consideration of the great rise during the last four years in the price of materials and labor from the proximity of the works of the Irrigation and Canal Company, and which rise ranges from 50 to 75 per cent., I would request that Government will allow the maintenance grant for this and the Nundial and Chagulmurry roads being increased from 100 to 150 Rupees per mile, the grants would

then stand as shown in the accompanying statement, a mistake having been made in the mileage from Kurnool to Gazoolapully, where the allowance for the Nundikanama Ghaut begins.

	Present grant.					*Proposed grant.*				
	Miles.	Rate.	Amount.	Repairs.	Petty Establishment	Miles.	Rate	Amount.	Repairs.	Petty Establishment.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Road from Kurnool to Nurnoor ...	10	100	1,000	820	180	10	150	1,500	1,320	180
Road from Nurnoor to Gazoolapully. ...	50	100	5,000	4,460	540	47	150	7,050	6,510	540
Road from Nundial to Chagulmurry. ...	36½	100	3,650	3,290	360	36½	150	5,475	5,115	360

CUMBUM TALOOK,
KURNOOL,
10th September 1868.

(Signed) A. S. MOBERLY, Major, R. E.,
Superintending Engineer, 3rd Division.

Referred to the Revenue Department, with reference to the Order of the 5th September 1867, No. 2,735.

(Signed) J. H. M. SHAW STEWART, Major, R. E.,
Under Secretary to Government.

3rd October 1867.

Referred to the Board of Revenue in continuation of the Order quoted.

(Signed) W. HUDLESTON,
Secretary to Government.

9th October 1868.

No. 513. From the Superintending Engineer, 3rd Division.
(Here enter No. 336, dated 4th May 1868.)

No. 514. From the Secretary to Government in the Revenue Department.
(Here enter No. 56, dated 7th May 1868.)

No. 515. ORDER THEREON, 20th May 1868, No. 1,604.

CIVIL WORKS, No. 57.

1. The foregoing letter from the Superintending Engineer of the 3rd Division will be communicated to the Board of Revenue, with reference to their Proceedings of the 22nd July 1867, No. 4,616.

Road from Nundial to Chagulmurry.
Do. Kurnool to Gazoolapully.
Do. do. to Nurnoor.

2. In paragraph 14 Major Moberly applies for increased maintenance grants for the roads marginally noted. The attention of that Officer will be called to the Orders of the 14th September and 20th November 1865, Nos. 2,705 and 3,506 respectively, which require that all applications for maintenance allowances shall be

accompanied by a precise specification of work to be done, together with a detailed estimate of the cost. Major Moberly will now furnish these documents, and, as the Government have no funds at their disposal for appropriation under the head of "Repairs," he will submit proposals for effecting such transfers as may be practicable in order to provide the additional funds required for the roads in question during the current year.

3. It is observed that a sum of Rupees 100 is provided for the road from Kurnool to Narnoor in the Local Fund Budget. Major Moberly will report whether this is the line referred to by him.

(True Extract.)

Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer, 3rd Division.
" Revenue Department.
" Board of Revenue.
" Controller of Public Works Accounts.

Ed. S. T. Augustin.

Proceedings 1868. Public Works Dept. No. of Govt. Order, January 1726.

Forwarded for the information of the Govt. Public Works Dept.

Dated 20th May 1868.
Received 26th May 1868.
No. 1604.

RECORDED.

Copy of letter No. dated from the Superintending Engineer, 3rd Division, to the Secretary to Government, Public Works Department.

Re. 564. 565.

in Kurnool Dist. — Estimate for 23rd January 1868 — Ordered

Re. 1452.

RECORDED.

25

23rd May/68