

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

public works DEPARTMENT.

G.O. No.	3636	Press
		Mis.
	460-611	
Dated	19-12-18	6/11

Not to be folded or roughly handled

1

*Proceedings of the Madras Government, Public Works Department,
19th December 1864.*

No. 410. Read the following Proceedings of the Madras Government in the Military Department:—

Requesting that provision may be made in the plans and estimates called for in Proceedings No. 2,919, dated 11th September 1864, for extending the accommodation of the New Hospital for the Artillery at Bangalore, so as to permit of the whole of the Artillery sick at that station being placed in one Hospital. } (Here enter 15th December 1864, No. 4,483.)

No. 411. ORDER THEREON, 19th December 1864, No. 3,636.

Communicated to the Superintending Engineer, 5th Division, for early attention with reference to paragraph 1.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer, 5th Division.

Exd. T. O'Connor.

37

MILITARY DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following papers :—

From the Acting Controller of Military Accounts, Fort Saint George, 18th November 1864, C; to the Secretary to Government, Military Department, Fort Saint George.

I have the honor to forward, for submission to Government, correspondence as per margin, on a proposal of the Acting Examiner Medical Accounts, that the sick of the Royal Artillery at Bangalore, Secunderabad and Kamptee, should be treated in one Hospital at each Station, under the superintendence of the Senior Medical Officer.

No. 584, 11th August 1864, from Acting Examiner Medical Accounts.
No. 667, 19th September 1864, Adjutant General.
Submits letter from Dr. Inglis, C. B., Deputy Inspector General Her Majesty's British Hospitals, dated 13th September 1864.
No. 2681, 23rd August 1864, Officialing Principal Inspector Genl. Medical Dept. Submits letter of 19th idem, from Acting Inspector General of Hospitals W. MacKenzie, M. D.
No. ⁴⁶⁹ 6853, 29th October 1864, from Quarter Master General.

causes it does not appear practicable entirely to carry out Surgeon Major Mackay's proposition.

3. At Secunderabad and Kamptee local causes, which cannot at present be overcome, oppose themselves to the proposed changes.

4. At Bangalore only could measures be carried out to meet the desired end, and there only partially. Acting Inspector General of Hospitals W. MacKenzie suggests that, if the sick of the A Battery, 14th Brigade, and other Batteries located at Bangalore were placed under charge of the Senior Medical Officer, he might dispose of them in the manner best suited to the nature of their diseases in both Hospitals, thus also doing away much of the present expenditure.

5. Dr. Inglis' main objection is to the want of accommodation in the block of buildings used as a temporary Hospital, and to the inexpediency in a Sanitary point of view of locating the whole of the Artillery sick in the old Brigade Hospital.

6. Dr. MacKenzie's suggestion appears to meet this objection, on which, it is assumed that, the Quarter Master General has based his remarks. If the more serious cases only were removed to the temporary Hospital, further accommodation would not seem to be required.

7. Beyond the immediate reduction in the Hospital Establishment of one Purveyor, it is unlikely that any large saving will be effected so long as the sick are located in both Hospitals, it being necessary to keep up the Establishment of Hospital servants, however few the in-patients may be. Hence the high average at which Dr. Mackay rates each patient of the A Battery.

8. From Dr. Inglis' letter, a new Hospital would appear to be under construction at Bangalore, in which the whole of the sick of the Artillery may hereafter be accommodated.

From the Acting Examiner of Medical Accounts, Madras, 11th August 1864, No. 584; to the Acting Controller of Military Accounts, Fort Saint George.

I have the honor to bring to your notice, that it seems to me very desirable that at Bangalore, Secunderabad and Kamptee the sick of the Royal Artillery, should be all treated, if possible, in one Hospital at each Station, under the superintendence of the Senior Medical Officer.

2. At Bangalore there are the Head Quarters of the D Brigade and three Batteries, the sick of the Head Quarters and two Batteries (each belonging to different Brigades) are treated in one Hospital, but the sick of the A Battery 14th Brigade have a separate Hospital, necessitating a separate Establishment of servants, separate monthly Indents and Bills, and separate Diet Rolls, occasioning an unnecessary expenditure. Thus during the month of May last, the average daily number of sick treated in the Hospital of the A Battery 14th Brigade was only five, at an average monthly cost for each of Rupees 27-9-11, while in the Hospital of the Head Quarters of the D Brigade, including the A Battery D Brigade and A 23rd Brigade, the average daily number of sick treated was 21, at an average monthly cost per man of only Rupees 15, it is therefore evident that a saving would be effected by the sick of the A Battery 14th Brigade being treated in the larger Hospital, a further saving would be effected in the Commissariat Department, as the services of one of the two Hospital Purveyors now employed, could be dispensed with, while the necessity for double Indents and Bills would also be obviated.

3. At Secunderabad the Royal Artillery Force consists at present of Head Quarters 23rd Brigade, and five Batteries of different Brigades, there is only one monthly Bill for Hospital servants and one for monthly supplies from the Commissariat, but five separate Diet Rolls and Bills are furnished, this occasions no extra expense, but seems a very unnecessary multiplication of documents, which adds to the work of auditing and might be obviated by all the sick being under the supervision of the Senior Medical Officer.

4. The same remarks apply to the Artillery stationed at Kamptee, two Diet Rolls with Bills, and two monthly Indents are made out, occasioning some extra expense, as well as an unnecessary number of documents, if the sick are all accommodated in one building.

5. At Saint Thomas' Mount, where Batteries of different Brigades are also stationed, all are under the charge of the Surgeon Major, and only one Hospital Establishment kept up. I would suggest for the reasons above stated, that sanction be solicited for the same being carried out at other Stations. When Head Money was granted for each independent Medical charge, the suggestion now made might have been objected to as interfering with the interests of Assistant Surgeons posted to Batteries, but as that allowance has been discontinued, they would forfeit nothing by the arrangement while a saving in money and labour would be effected.

From the Adjutant General, Head Quarters, Ootacamund, 19th September 1864, No. 667; to the Controller of Military Accounts, Fort Saint George.

With reference to your letter of the 1st instant, No. 678, and its enclosures, I have the honor,

**To be returned when no longer required.* by order of the Commander-in-Chief, to forward an original letter* from Doctor Inglis, C. B., Deputy Inspector General Her Majesty's British Hospitals, giving his opinion relative to the sick of the Royal Artillery at Bangalore, Secunderabad and Kamptee, being treated in one Hospital at those Stations.

2. His Excellency concurs with Dr. Inglis.

3. The enclosures of your letter under acknowledgment are returned as requested.

From the Deputy Inspector General of Hospitals and Principal Medical Officer British Troops, Bangalore, 13th September 1864; to the Adjutant General, Head Quarters, Ootacamund.

With reference to your memorandum, No. 373, dated 9th September, calling for report on correspondence herewith returned, I have the honor to beg a reference to the concluding paragraph of my letter on the same subject of the 1st July 1863, and to state generally also for the reasons adduced by the Acting Examiner of Medical Accounts, viz., the diminution of expense as well as the avoidance of unnecessary multiplication of documents for audit, that it would be very desirable to place all the Royal Artillery at the Head Quarter Stations, enumerated, under one charge, when circumstances will admit of it. The removal of Assistant Surgeons Lewer and O'Leary, who were specially appointed by Horse Guards' Gazette to A and B Batteries 14th Brigade, to other Brigades, together with the recent change in the mode of paying Medical Officers also render the settlement of the question in the way proposed, easier of solution as affecting individual interests.

As concerns Bangalore, the only objection I can see to the carrying out the plan is the agglomeration of all the combined Artillery sick in the old Brigade Hospital, which, on Sanitary grounds, I consider ineligible in position, and as a building defective and unsuitable for Hospital purposes,

quite concurring in the estimate of its disadvantages brought to notice by Dr. Mackenzie, C. B., I consider it therefore of importance, in event of the Royal Artillery at Bangalore being included in one Medical charge, that estimated adequate temporary Hospital accommodation with a sufficiency of accessory buildings on the Race-course may be apportioned, till completion of the newly projected Hospital on that neighbourhood.

Regarding the Royal Artillery at Secunderabad, while one portion of the Force is located at Secunderabad and the other at Trimulgherry, I consider the distance between the several Batteries too great for one charge in the probable effects on discipline, Hospital economy and Medical supervision, that innovation for the present would not be desirable.

The same objection to the accumulation of the Artillery sick at Kamptee as at Secunderabad seems to exist.

From the Officiating Principal Inspector General Medical Department, Fort Saint George, 23rd August 1864, No. 2681; to the Controller of Military Accounts.

**No. 584 of 11th instant.
Herewith returned.*

I have the honor to acknowledge your letter of the 17th instant, No. 604, giving cover to a communication* from the Examiner of Medical Accounts.

2. Acting Inspector General Mackenzie being in Madras, I requested him to give me the benefit of his views regarding the question of locating of the sick of the Artillery at Bangalore, I enclose his letter.†

3. The A Battery 14th Brigade is in a portion of the new Barracks at the Race-course and has its own Hospital, but too small for the accommodation of all the sick of the Artillery. At present this Battery is in Medical charge of an Assistant Surgeon, and the Surgeon Major attached to the Artillery has no control over the Hospital.

4. Dr. Mackenzie suggests that the sick of this Battery, as well as the rest of the Artillery, be placed under the Surgeon Major, not only on the score of economy, but that it would admit of his placing the severest cases of sickness in the Hospital on the high ground, instead of as at present into one, certainly larger, but very inferior both in locality and structure.

5. In these views I fully coincide, and as Head Money for European Troops is now abolished, the question of allowances no longer exists.

6. In paragraph 3rd of Dr. Mackay's letter he suggests that all the sick of the Artillery at Secunderabad should be under the supervision of the Senior Medical Officer. This cannot be, as the B Battery 14th Brigade is stationed at Trimulgherry and the rest of the Artillery at Secunderabad, a distance of about three miles, I understand that eventually the whole of the Artillery will be moved up to Trimulgherry.

7. I believe that the distance between the different Batteries of Artillery at Kamptee renders it impossible for all the sick to be accommodated in one building.

From the Acting Inspector General of Hospitals, Madras, 19th August 1864; to the Secretary to the Principal Inspector General Medical Department.

With reference to the letters marginally noted, submitted for my opinion, and herewith returned, I have the honor to state for the information of the Officiating Principal Inspector General that, while fully concurring with the Acting Examiner of Medical Accounts in their desirableness, on the score of economy, of having the sick of the Artillery Batteries, mentioned in his letter treated in the same Hospital, the adoption of such a measure as regards the men of the A Battery 14th Brigade at Bangalore would be subjecting them to removal from a healthy situation and building to a Hospital which, from its faulty construction and very defective Sanitary requirements, has proved so detrimental to the recovery of the patient that it has been long ago condemned, I therefore consider that the change in this instance would be very objectionable.

2. The size of the block of Barracks set apart as a temporary Hospital for the use of this Battery, and the conveniences and accommodation of its out-houses are so small, that they unfortunately will not admit of the transfer thither of all the sick of the other Batteries.

3. But I conceive that if both Hospitals were placed under the charge of the Senior Medical Officer, much of the present expenditure might be curtailed. One of the Purveyors could be dispensed with, double Indents and Bills be obviated, and other economic changes introduced; while there would be the very great and desirable advantage of the better Hospital being made available for a portion of the sick, now treated in the older and objectionable building, whereby recovery of a very large proportion of the patient would certainly be more speedy, and thus a considerable saving of expense be very satisfactorily effected by the shorter detention on the sick list of so many men.

4. I presume that the recent changes in the Medical arrangements of these Batteries, have removed much of His Excellency the Commander-in-Chief's objections to the supervision of the 14th Brigade Battery being vested in the Surgeon Major of the Horse Brigade, and I would respectfully suggest that His Excellency be moved to accord his sanction to the arrangement I now beg to propose.

From the Quarter Master General, Head Quarters, Ootacamund, 29th October 1864, No. ⁴⁶⁹/₉₅₈₅; to the Controller of Military Accounts, Fort Saint George.

In reply to your letter, dated 23rd ultimo, No. 800, I have the honor, by order of His Excellency the Commander-in-Chief, to say that the union of all the Artillery sick under one management at Bangalore, is an admitted desideratum; and that the measures taken at Bangalore last year—*Vide* Proceedings of Government, No. 2919, dated 11th September 1863—were all devised to that end.

2. There is vacant space in the new Dragoon Barracks on the Race-course, but being built as Barracks, it is not adapted for the purposes contemplated. Even if the necessary temporary buildings were erected to make it so, it could only be so used until the Dragoons moved into the new Barracks, when all that had been put up for Hospital accommodation would have to be taken down.

3. Moreover, to carry out this idea, money and labor would have to be found, which would only, if found, have the effect of retarding the completion of the Barracks so many years on hand, by diminishing the labor now concentrated on them.

4. On the whole, therefore, it seems more probable that the change, instead of being economical, would prove the reverse.

5. Your enclosures are returned.

ORDER, No. 4483, 15th December 1864.

Ordered that the foregoing papers be communicated to the Department Public Works, in view to arrangements being made in the Plan and Estimates, ordered to

No. 2919, 11th September 1863

be prepared in Proceedings of Government marginally noted, for extending the accommodation of the new Hospital for the Artillery at Bangalore, to meet the recommendation made in the correspondence *viz.*, "that the whole of the Artillery sick at that Station be placed in one Hospital, and in which proposition the Commander-in-Chief concurs.

2. The arrangements proposed in paragraph 3 of Dr. Mackenzie's letter, dated 19th August 1864, submitted with the papers, can be carried into effect under His Excellency the Commander-in-Chief's orders, if considered desirable.

(True Extract.)

Shroochan

Secretary to Government.

To the Contr. of Mily. Accounts, with 6 enclosures.
 „ Public Works Dept. *Milford House Office*
 „ Adjutant General.
 „ Quarter Master General.
 „ Prinl. Inspr. Genl. Medl. Dept.
 „ Military Accountant.
 „ Examiner Pay Department.
 „ Examiner of Medical Accounts.
 Exd. J. E. Cashart.

112
My
77 *Quddapah*
My *g. Engineer's Office*
11th Decy 1863.

Thm
Lieut. Col. E. Henry R.E.
My *g. Engineer*
3rd Division

The Secretary to Government
P. H. D.

With reference to letter No. 6514 dated at
18th March 1863 from the late Chief Engineer
P. H. D. to the late Sg. Dy. Chief Engineer
White at Bangalore, under the honor he had the
honor to forward the two attachments therein call-
ed for of plans in the 3rd Division.
2. One of the attachments of the plans is the
made and maintained of Government, and
there is the plan or sketch of the road which
should be laid down. Both in repair from
Legat to the 2nd.

Sham
Edmund H. B. B. in
My *g. Engineer*
3rd Division

NOV-1863 *04.7.1863* *804705.*

26

No 1863 Depo
Pro: of Govt for Decr
Hd: 2557
The Sup: Eng: & Co.
at London

The Secy to Government
P. W. D.

Returned to the Secretary to Government
Public Works Department agreeably to his
request of the 11th January 1864.

Sup: J. Engr: Office to P. W. D.
Madras 27-January 1864

Colonel C. A. Orr R.E.
Secretary to Government P. W. D.

No 233

C. 28th Nov 1863 R. 7th Dec 1863

No 3636-9th December

116

No 1863 Depo
Pro: of Govt for Decr
Hd: 2557
The Sup: Eng: & Co.
at London

The Secretary to Govt

No 4753

Returned to the Secretary to Government
Public Works Department agreeably to his
request of the 11th January 1864.

Sup: J. Engr: Office to P. W. D.
Madras 27-January 1864

Colonel C. A. Orr R.E.
Secretary to Government P. W. D.

No 234

C. 28th Nov 1863 R. 7th Dec 1863

and states that he will for-
ward Estimates for the
Roads Commenced out of
Local funds in the Northern
part of Traveller Taluk in
view to the same being
entered in the Budget of
1864/65.

Stationed & running the roads be made and maintained by Government.

No	Name of road	Length in miles		Existing annual maintenance in pounds		Probable annual required for complete construction		Remarks
		17 Miles	2 Miles	17 Miles	2 Miles	17 Miles	2 Miles	
<u>Guddaiah District</u>								
	Guddaiah via Balpatla to Shadai	"	"	64 1/2	"	5950	"	66,554 About 40 miles complete & work in progress. 132
	do via Piler to Vellare	"	74	"	15000	"	60,456	3 bridges are now being built and the road is being metalled.
	do via Rajachote to Sengam	"	"	95	"	850	"	117,388 A new road has been opened for traffic but it is not metalled.
	do via Madanapalle to Bangalore	"	"	87	"	10,600	"	10,000 Bridges are now being built on this road.
	do via Tallapaddati to Bellary	"	"	53	"	2,600	"	74,553 About 20 miles completed, work stopped for want of funds.
	do via Divin to Narmit	"	"	40	"	5,265	"	35,406 About 20 miles complete & do do
	do via Badraite to Mellur	"	"	45	"	"	"	132,000 Suitable for carts during the dry season
	do via Vempalle to Pichavada	"	"	44	"	7,600	"	2,28000 do do
	Madanapalle via Chadi to Bellary	"	"	76	"	"	85,000	do do
	Rajachote via Saneboy to Rajampett	"	25	"	2,200	"	73,700	do do
	Rajampett to the top of the Rajin Ghat	"	"	20	"	"	78,000	do do
	Badraite via Siddamb to Datimetta	"	"	28	"	"	36,000	do do
	Divin to Paddati	"	"	12	"	"	42,000	do do
	Shimmaia to Paddati	"	"	14	"	"	24,000	do do
	Paddati to Yeraguntla	"	"	8	"	"	30,000	do do
	Yellam to Pindlin	"	"	10	"	"	5,000	do do
	Yeraguntla to the to Kodin	"	"	5	"	"	"	"
<u>Bellary District</u>								
	Trunk Road No 11 from Goodain to Bodrapedroog	7 3/4	"	97 1/2	"	35,000	"	"
	Road from Bodrapedroog to Sorabondah	11	"	1100	"	3000	"	Road in good order, but all the large rivers are unbridged
	do Anantapur to Kodin	13	"	1200	"	"	"	In good order and bridged
	do Bellary to Sareikale	15	"	"	"	25,000	"	do but unbridged
	do Sorangul to Ramandrag	20	"	10,000	"	60,000	"	"
	do Bellary to Hampasagar	15	"	"	"	"	"	"
	do do to Gortly Frontier	"	25	"	260	102,200	"	An estimate for Rs 1,02,200 has been forwarded for sanction.
	do do to Guddiah do	"	74	"	74	"	"	work in progress.

3 Division

Statement showing the roads to be made and maintained by Government.

Name of road		Length in miles		Estimated annual maintenance in Rupees		Probable amount required for completion			Remarks
1st class	2nd class	1st class	2nd class	1st class	2nd class	3rd class			
9	Road from Bellary to Madararam	"	45	"	"	"	40,000	"	Roads in good order but, bridged
10	do Allin to Aupany and Admy	"	25	"	"	"	10,000	"	
11	do Kooty to Annaghery	"	7	"	"	"	2,000	"	
12	do do to Karmud Frithin	"	7	"	"	"	4,000	"	
13	do do to Mysore do	"	100	"	"	"	400,000	"	
14	do Chidareddy to Dorra Bondab	"	14	"	"	"	"	"	This road will be completed during this official year. The sum of Rs. 14000 annual maintenance is required to keep the road in repair in view of the pathway traders.
15	Hospett to Harpanahally and Mysore Frithin near Harpanah	"	60	"	"	"	50,000	"	
16	Pamandray Chid road	"	5	"	"	"	"	"	The great roads are in good order but require Rs 1000 per mile annually to keep the roads in repair. This has hitherto been supplied from Local Funds.
17	Hospett do do	"	15	"	"	"	"	"	
18	Nagalapur do do	"	7	"	"	"	4,000	"	In good order and bridge requires Rs 100 annually per mile, this also has been supplied from Local Funds.
19	Road from Kooty to Daroji	"	8	"	"	"	"	"	
20	Sholing 1st class road to the limits of the Taluk of Maddur and Bangalore in Mysore	"	9 1/2	"	"	"	9350	"	An estimate of Rs 9350 has been sanctioned by Government. Rs 800 dated 11 May 1862.
21	Pampani to Hallahy Goddard, Koodligher and Harpanahally	"	30	"	"	"	456,600	"	
Narmit District									
1	Road from Narmit via Mandair to the Co. dapat Frithin	"	85	"	"	"	400,000	"	* Portion of Rs 6000 sanctioned on the 10th February 1855. * 4.9 miles completed with the exception of few tunnels and 14 miles in progress. Bridges and cuttings also for at least six miles are not included which would amount to about 40,000 Rupees. * 1 mile and 45 yards completed, no estimate yet sanctioned for the other 19 miles. The Thambadda and Krishna Cuttings will probably cost Rupees 100,000. * 55 miles metalled and finished, the bridging of the first 20 miles (Narmit to the damir) is now in progress. 2 canals have been the bridge have yet to be estimated for, so that the cost of completing the bridge after May, next will be about Rs 28,000. * The road is complete with the exception of bridges, which will cost about 20,000 Rupees.
2	Road from Narmit towards Secunderabad	"	20	"	"	"	20,000	"	
3	Road from Narmit to Aupany on the high road to Bellary	"	55	"	"	"	"	"	
4	Road from Narmit towards Jooty on the high road to Bangalore	"	55	"	"	"	"	"	

3 Division

Statement showing the roads the made and maintained by Government.

No	Name of road	Length in miles			Estimated annual maintenance funds			Probable amount required for complete construction			Remarks
		1 st class	2 nd class	3 rd class	1 st class	2 nd class	3 rd class	1 st class	2 nd class	3 rd class	
5	Road from Paruro via Ateneo and the Santa Catalina Pass to Oaxaca at the Mexican Frontier on the direct road to Guatimala	100			2200			150000			* \$700 and 1500 sanctioned on the 3 rd Decr. 1856 and 27 th Nov. 1862 respectively. * The cost of bridging this road is not included and will probably amount to \$100000 more about 16 miles of the road have been completed and 34 miles in progress.
6	Road from Nandualpi to Guatimala at the Mexican Frontier	69			11350			10000			* Portion of \$6000 sanctioned on the 16 th February 1856 - 1500 Amount sanctioned on 27 th Nov. 1862 - 6600 do do 11 th July 1864 - 3200 Total 11300 * The cost of bridging this road is not included and will probably amount to \$100000 more. In other respects the road has been completed.
7	Road from Anapaya to Palcomate and from there towards Guatimala	25			2500						* Road completed but 4 bridges are much needed which would cost at least 25000 Pesos.

Uddapah
Supt. of Eng'g Office
11 July 1863.

Deputy
Supt. of Eng'g Office
3 Division

Encls. 2 of 1 piece
 letter from the ship of
 the quiver 3 & 4
 dated 11 July 1863.

of
 the ship of the quiver
 dated 11 July 1863.

July 20 1863

William & Mary, the
 first of the first and
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3rd Division List of Minor Roads to be made and maintained from Local Funds.

256

No.	Name of Road	Length in Miles			Lying in several miles	Probable amount required for complete construction	Remarks.
		1 st class	2 nd class	3 rd class			
Quedapah District							
1	Nazipettipia Perumala to Gumburra	42	"	"	"	84,000	The local funds in this District do not amount to Rupees 4000, the Annual Discretionary Allowance of Rupees 10,000 is spent solely on District Roads, some of which have of late years been very much improved, but a much larger expenditure is required to open out the District. With the exception of N.Y. the road from Pulihedla to Khadri, all the roads in this List are practicable for wheeled conveyances during the dry months, but few of them are so during the monsoon.
2	Perumala to Bogalasa hohah	"	"	15	"	"	
3	Perumala to Badnail	"	21	"	"	31,500	
4	Badnail to Kollam	"	"	20	"	20,000	
5	Paddatipia Nandiallampett to Kollam road	22	"	"	"	44,000	
6	Nannamadu to Kollam	"	"	10	"	10,000	
7	Paddatipia to Namalapur	"	12	"	"	12,500	
8	Quedapah to Ch. hohah	11	"	"	"	22,000	
9	Pulihedla to Khadri	"	24	"	"	24,000	
10	Pulihedla to Kollam Junction	"	"	14	"	14,000	
11	Khadri to Mahomedabad	"	"	16	"	16,000	
12	Khadri to Razachoti	44	"	"	"	88,000	
13	Razachoti to Thimpalle	"	"	35	"	35,000	
14	Achampett to Tangatur	"	"	8	"	8,000	
15	Tangatur to Chidambur	"	11	"	"	16,500	
16	Chidambur to Nadin	16	"	"	"	32,000	
17	Nadambur to Tangatur	"	8	"	"	12,000	
18	Madanapalle via Volpadi to P. hohah	34	"	"	"	68,000	
19	P. hohah to Nagapalla Pass	17	"	"	"	34,000	
20	Gurramkurda to Volpadi	"	12	"	"	12,000	
21	Gurramkurda to Nalnadada	"	16	"	"	24,000	
22	Nalnadada to Volpadi	"	18	"	"	27,000	
23	Nannamadu to Suddam	"	"	23	"	15,000	
24	Nannamadu to Chinnappa Suddam	"	10	"	"	10,000	
25	Nannamadu to Nottanotta	"	"	10	"	"	

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No annual maintenance allowance

List of Minor Roads to be made and maintained from Local Funds.

No.	Name of roads	Length in Miles							Remarks.
		1st class	2nd class	3rd class	4th class	5th class	6th class	7th class	

Bellary District

1	Road from Dargie to Kumpili	"	"	18	"	"	5000	Road in good order but unbudgeted	These roads are opened for Cart traffic from Dargie and Bellary. Funds can be kept in good order from the same funds as in disposal
2	do do Dargie to Kumpili	"	"	16	"	"	3000		
3	do do Kumpili to do	"	"	10	"	"	4000		
4	do do Kumpili to Koppet	"	"	7	"	"	"	Road in good order	
5	do do do to Papinaili	"	"	5	"	"	"	do do	
6	do do Koppet to Nodlighe	"	"	24	"	"	4000	Road in good order but unbudgeted	
7	do do do to Kumpili	"	"	5	"	"	3000		
8	do do Kumpili to Koppet	"	"	10	"	"	5000		
9	do do Koppet to Kumpili	"	"	16	"	"	4000		
10	do do do to Kumpili	"	"	20	"	"	6000		
11	do do do to Kumpili	"	"	28	"	"	10000		
12	do do Kumpili to Koppet	"	"	35	"	"	5000	Road good as far as Koppet. Beyond that very bad	
13	do do Kumpili to Koppet	"	"	35	"	"	39910	In course of construction from Local Funds, a great part of the road through black cotton soil.	
14	do do Kumpili to Koppet	"	"	38	"	"	40000		

Kannur District

1	Road from Pappal via Kumpili Pass to Bannampalle and Nandiath	40	"	"	"	"	145000	"	3 miles of this road nearly completed
2	Road from Pappal via Kumpili Pass to Dargie	30	"	"	"	"	4500	"	These roads are more liable to be impassable after rain
3	do do Dargie to Kumpili	15	"	"	"	"	24000	"	
4	do do Kumpili to Dargie	14	"	"	"	"	21000	"	

List of Minor Roads to be made and maintained from Local Funds.

No.	Name of Road	Length in Miles			Width in Feet			Remarks.
		1 st class	2 nd class	3 rd class	1 st class	2 nd class	3 rd class	
5	Road from Noidguntla to Hanagampalle	"	4	"	"	13.500	"	These roads assume track impassable after rain
6	do do to Madadapahy	"	15	"	"	22.500	"	
	do do to Sandial	"	21	"	"	31.500	"	

Madadapahy
Suptg. Engrs Office
11th July 1863.

W. S. S. S.

Lt. Col. R. B.

Suptg. Engineer 3rd Division

The following is a list of the
 names of the persons who
 have been admitted to the
 membership of the Society
 since the last meeting.
 The names are given in
 alphabetical order.

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 since the last meeting.

5 th Division. N.W.											
Statement of the Roads to be made and maintained from the Local Funds.											
Vide Deputy Chief Engineer's Recordings No 192 of the 20 March 1863.											
Name of Roads.	Length in Miles.			Existing amount.			Notable amount required for complete construction.			Remarks.	
	1 st class.	2 nd class.	3 rd class.	1 st class.	2 nd class.	3 rd class.	1 st class.	2 nd class.	3 rd class.	Explanatory of present condition of roads, or progress made towards completion of construction.	
South Arcot?											
Brought over to	44	196		4200	6750	2070	5070	5070			
Road from Tirukkalur to Gingee		28						14000		Not commenced.	25/2
ditto ditto to Yellavanasur		15						7500		ditto	
ditto ditto to Simmankalai (in 3 Rys)	10			1000							
ditto Yellavanasur to Aspanur					500						
ditto from Vidachellum to Shittagudi		20						2000		Will be completed in 1863/64	
ditto ditto & branch to the Vellar		2			200						
ditto ditto & do to Strimustiram		10						5000		Not commenced.	
ditto from Vidachellum to Chundurpet.	14			2000							
ditto from ditto & branch to Yellavanasur		11						5500		Not commenced.	
ditto from ditto to Shettiatop		16			2000						
ditto Chitamburam to Manargudi		15			1500						
ditto ditto to Pphonagiri		10			500						
ditto ditto to Natarajapuram		5			500						
ditto ditto to Killay		5			500						
ditto Manargudi to Nemampuligum		5			200						
ditto ditto to Kundamanyal		3			300						
ditto ditto to Sunk Road Rog		10						1000		In progress.	
ditto Yeilur to Chittitangal		11						930		Will be completed in 1863/64.	
ditto Viranam tank bank to Chittamburam by Puthur		9									
ditto Vellar Annai kat to Manargudi		10			400						
Brought over to	65	382		7200	14130		3070	586720			

5th Division. D.P.W.
 Statement of the Roads to be made and maintained from the Local Funds.
 Vide Deputy Chief Engineer's Recordings No 192 of the 20 March 1883.

No.	Name of Roads.	Length in Miles.			Estimated amount		Rebate amount			Remarks.
		1 st class	2 nd class	3 rd class	1 st class	2 nd class	1 st class	2 nd class	3 rd class	
	South Arcot?									
15	Brought over to	68.382			20014.30		307086.20			
18	Sundry branch Roads		53 1/2		5000					
53		68	143 1/2		20019.70		307086.20			
	Salem.									
1	Salem and Simpatir (via the Manjivari pass, Arur, and Otangiri)	68								Gravelled throughout and partially bridged.
2	Darampuri and Penaguram	26			500					Partially gravelled and bridged
3	Adamankotta & Mallapuram (Railway Station)		11 1/4		500					do do
4	Yekkad (Sherry Hills) & Mallapuram (Railway Station)		28 1/2		1400					do do
5	Usur and Denkanikotta	16			800					do do
6	Usur and Bagalur	8			300					do do
7	Usur and Talli	16			125					do do
8	Madagiri and Kelamangalam		8 1/2		500					do do
9	Denkanikotta and Rayakotta	21								do do
10	Denkanikotta and Kelamangalam	8								do do
11	Denkanikotta and Malai Kiljading	8			250					do do
12	Denkanikotta and Talli	12								
13	Krishnagiri & Samalpatti (Railway Station) via Mattur	17			690					
	Carried over to	200	39 1/4		5465					

5th Division. D.P.W.
 Statement of the Roads to be made and maintained from the Local Funds.
 Vide Deputy Chief Engineer's Proceedings No 192 of the 20th March 1863.

Sl. No.	Name of Roads.	Length in Miles.			Existing Annual Grants			Notable amount required for complete construction			Remarks. Explanatory of present condition of roads, or progress made towards completion of construction
		1st Class	2nd Class	3rd Class	1st Class	2nd Class	3rd Class	1st Class	2nd Class	3rd Class	
	South Arcot										
	Brought over Rs. 200										
14	Krishnageri and Rayakotta	17						900			Gravelled throughout and partially bridged
15	Seerpalur and Mangayam	22						500			Partially gravelled - Unbridged
16	Seerpalur and Sengarapetta	15						500			do partially bridged
17	Sengarapetta and Otangeri	6									do do do
18	Arur and Morapur (Railway Station)	9						500			do do do
19	Arur and Pertamalai	7									Ungravelled & Unbridged
20	Arur and Kottapatti	25									do ditto
21	Arur and Darampuri	19									Partially gravelled, Unbridged
22	Yeramattar and Otangeri	20									do do do
23	Pellipatti and Sentalapadi	10									do do do
24	Darampuri and Palkode	4									Gravelled throughout, Unbridged
25	Darampuri and Anasagarani	25									do do
26	Palkode and Penagaram	20									Partially gravelled do
27	Omalar and Mecheri	9						1000	9000		Under construction, trace completed
28	Salem & Nangavalli (via Saruman - galam)	17								20000	ditto ditto
29	Attur and Rasipur	32						750			Gravelled throughout, partially bridged
30	Rasipur and Munchavadi	2									ditto unbridged
31	Rasipur and Vaircondom	22							11000		Partially gravelled, partially bridged
32	Namakkal and Paramatti	11						530			Gravelled throughout, do
33	Namakkal and Patayengarapetta	11						2500	8500		Under construction; about 5 miles traced
34	Namakkal and Magonur	11						250			Gravelled throughout, partially bridged
	Carried over Rs.	151	85 1/2					12915	28500	20000	

Statement of the Roads to be made and maintained from the Local Funds.
 5th Division. D.P.W.
 Vide Deputy Chief Engineer's Proceedings No 192 of the 20th March 1863.

No.	Name of Roads.	Length in Miles.			Existing annual Maintenance.			Notable amount required for complete construction.			Remarks. Explanatory of present condition of roads, or progress made towards completion of construction.
		1st Class.	2nd Class.	3rd Class.	1st Class.	2nd Class.	3rd Class.	1st Class.	2nd Class.	3rd Class.	
	South Arcot.										
	Brought over to	1,57	85 1/4					12,915	28,500	20,000	
35	Paramatti and Richengode	17	...								Gravelled throughout partly bridged.
36	Paramatti and Velur	3	...				750	1500			Partially gravelled ditto
37	Saderpoliam and Velur	12	...				600	6000			ditto
38	Velur and Mogamur	11	...				500	5500			ditto
39	Mogamur and Valiapatti	10	...				600	5000			ditto
40	Sinkaguridrug & Pallipaliam	12	...								Gravelled throughout ditto
41	Astampatti and Suramangalam	3	...				500	6000			ditto unbridged
		519	85 1/4					75,265	52,500	20,000	

Superintending Engineer's Office
 Salem 2nd October 1863.

N.B.
 a. Road, requiring a maintenance allowance of Rs. 50 per mile.
 b. do requiring a ditto ditto of Rs. 100 per mile.
 c. do which did not be maintained.
 Amounts available for Expenditure 1863/64.
 In South Arcot Rs. 53,000
 " Salem 21,500

Asw. Williams Lieut Col. R. E.
 Superintending Engineer 5th Division

3^d Division.
Enclosure in a letter
12⁹⁵⁰ dated 20th / 13
From

The Suprdy Engineer
3^d Division.

To W 8986/00

The Secretary to
Government
P. W. Dept.

Statement of Roads to
be maintained from the
Local Funds.

5th Division D. & W.
Salem District.

Statement shewing the Roads to be made, and ~~maintained~~ by Government. - Vide Chief Engineer's No 6154 of the 18th March 1863.

No	Name of Road	Length in miles.			Existing annual maintenance frank.	Probable amount required for complete construction.					Remarks Explanatory of present condition of road, or of progress made towards completion of construction.		
		1 st Class	2 nd Class	3 rd Class		1 st Class	2 nd Class	3 rd Class	4 th Class	5 th Class			
		1	2	3	4	5	6	7	8	9	10	11	12
1	Trunk Road No. I, from Attipilli on the Mysore frontier to the fourth mile beyond Vanerimbadi Madras wards	72	.	.	17264	.	.	.	.	.	.	.	Metalled and bridged throughout.
2	Trunk Road No. V, from Bavani on the Kaveri river to Vanerimbadi	.	120	.	12000	.	.	.	.	.	.	.	Metalled throughout and partially bridged.
3	Salem and Trichinopoly, from Salem to Valiapatti on the Trichinopoly frontier	42	.	.	10000	.	.	.	.	.	.	.	Metalled and bridged throughout.
4	Salem and Coimbatore, from Salem to Talavasal on the South Arcot frontier	.	42	.	6300	.	.	.	20000	.	.	.	Metalled throughout and partially bridged.
5	Salem and Coimbatore, from Salem to Enkagiridrug on Trunk Road No. V	.	24	.	1050	.	.	.	.	.	.	.	Metalled throughout and partially bridged.
6	Salem Town and Railway Station (at Sriramangalam)	3 1/2	.	.	675	.	.	.	.	.	.	.	Metalled and bridged throughout.
7	Salem and Onaluv (on Trunk Road No. V)	.	10	.	900	.	.	.	.	.	.	.	Metalled throughout and partially bridged.
8	Salem and Bangalore, from Aramankotta on Trunk Road No. V to Udipi on Trunk Road No. I	.	54	.	4050	.	.	.	6000	.	.	.	Gravelled and bridged throughout.
9	Piripatur and Malapadi (on Trunk Road No. I)	.	16	.	4800	.	.	.	.	.	.	.	Metalled throughout and partially bridged.
		117 1/2	266	.	27939	39100	.	26000	.	.	.	.	

5th Division D. P. W.
Salem District.

Statement showing the Roads to be made, and maintained by Government. Vide Chief Engineer's No. 6154 of the 18th March 1863.

No.	Name of Road	Length in miles.					Existing annual maintenance grant.			Probable amount required for complete construction.			Remarks Explanatory of present condition of road, or of progress made towards completion of construction.
		1 st Class.	2 nd Class.	3 rd Class.	4 th Class.	5 th Class.	1 st Class.	2 nd Class.	3 rd Class.	1 st Class.	2 nd Class.	3 rd Class.	
		1	2	3	4	5	6	7	8	9	10	11	12
10	Madajeri and Bangalore (from Armoont Depot near Udipi to Attipelli on Trunk Road No. I.)	117½	266	.	27939	29100	.	.	.	26000	.	.	
		.	.	6	.	.	.	.	.	.	1800	.	Partially gravelled and bridged.
11+7	Darampuri Masba and Morapuri (Railway Station)	.	16	.	.	800	.	.	.	.	.	.	Gravelled and bridged throughout.
12+7	Darampuri (Masba) and Kistnaji (Masba)	.	27	.	.	.	.	.	.	5000	.	.	Gravelled throughout, unbridged.
13+a	Otangi (Masba) and Samalpatti (Railway Station)	.	5	.	.	.	.	.	.	2500	.	.	
14	Namakhal (Masba) and Senthajiriching (Railway Station)	.	28	.	.	.	.	.	.	25000	.	.	A mere track for 20 miles, 8 miles nearly completed and in good order.
15	Yerkad and Salem	.	.	11½	.	.	600	.	.	.	1750	.	These two are mere bullock roads: the second of the two is not yet opened for traffic.
16	Yerkad (Cheeray Hills) and Attur (Railway Station)	.	.	8½	.	.	.	.	.	.	.	.	
		117½	342	26	27939	29900	600	.	.	58,500	3,550	.	

+ a. Roads requiring a maintenance allowance of Rs. 50 per mile = 5 miles in all.
+ b. Roads requiring a maintenance allowance of Rs. 100 per mile = 79½ miles in all.

11 On the completion of the Branch Railway between Tirupattur and Bangalore, the allowance of Trunk Road No. I can at once be reduced from Rs. 17264 to Rs. 8700., and that of the Tirupattur and Malapadi road from Rs. 4800 to Rs. 1600. These reductions will make a total saving on the present annual outlay for the maintenance of Govt. roads

Superintg. Engr's Office 5th Div.
Salem 2nd October 1863.

W. B. Atkins
Superintending Engineer 5th Div.

To, The Secretary to Government
P. W. Dept.
Madras

W. B.

Statement showing the Roads to be made, and maintained by Government. - Vide Chief Engineer's No. 6154 of the 18th March 1863.

No.	Name of Road	Length in miles.			Existing annual maintenance		Probable amount required for complete construction.				Remarks
		1 st Class.	2 nd Class.	3 rd Class.	1 st Class.	2 nd Class.	3 rd Class.	1 st Class.	2 nd Class.	3 rd Class.	
		3	4	5	6	7	8	9	10	11	12

Roads of Rs. 11764. On the other hand Rs. 7400 are required for the roads marked in this list. Of these roads Nos. 12, 13, and 14 have heretofore been roughly maintained from the local funds: but considering the insufficiency of the local funds to meet the wants of the District, and the importance of these three roads, I think that they ought to be maintained by Government.

The allowance now made for No. 11 should be doubled.

An allowance for No. 16, on its completion, has been promised by the Government (see Proceedings No. 1752 of the 21st July 1862)

Statement shewing the
Roads to be made and
maintained by Government.

Recd. 17/10/83
Dated 2nd 3 October 1863.

To, The Secretary to Government
P. W. Dept.

The Superintg. Engineer
5th Division

Enclosure in a letter
From

5th Division P. W. Bangalore Cantonment.

Statement shewing the Roads to be made and maintained by Government. Vide Chief Engineer's
No. 6154 of the 18th March 1863.

No.	Name of Road.	Length in miles.	Existing annual maintenance funds.	Estimated annual maintenance funds required for complete construction.	Remarks.
1		1 1/2	Rs. 100	Rs. 100	Explanation of present condition of road, or of progress made towards completion of construction.

An additional grant will be
hereafter required on the
completion of the new Barracks.

Cantonment roads 22 . . . 6000 . . .

Amount of grant
to be made
by Government

Superintending Engineer's Office
5th Div. Salem 2 October 1863

To the Secretary to Govt.
P. W. Dept.
Madras.

513
No. 6154
Superintending Engineer's Office
5th Div.

437

1850

1250

1500

2800

2500

Exchequer

Henry

The Exchequer

of the Exchequer

of the Exchequer

Exchequer

Dated 2nd

3 October 1851

17950

*Statement showing the
debt to be made and
maintained by Exchequer*

1850

1850

1850

5th Division D.P.W.
South Arcot District.

556

Statement shewing the Roads to be made and maintained by Government. Vide Chief Engineer's No. 6154 of the 18th March 1863.

No.	Name of Road	Length in miles.			Existing annual maintain. and grants.			Probable amount required for complete construction.			Remarks
		1 st Class.	2 nd Class.	3 rd Class.	1 st Class.	2 nd Class.	3 rd Class.	1 st Class.	2 nd Class.	3 rd Class.	
1	Trunk Road No. 8 from Acherwank to the Vellar River.	91	"	"	18200	"	"	134852	"	"	The amount required for completing this road, is that sanctioned for bridges over the Ponaiyar, Mala-tav and the Gadilam.
2	Trunk Road No. 9 from Paprum. - pet to the Lower Coleroon Annicut.	62	"	"	6200	"	"	99890	"	"	Ditto Ditto for bridges over the Ponaiyar, Gadilam Peria Chengal Oday and Chinnu Chengal Oday and for metalling the road.
3	Road from Cuddalore to the Salem frontier by Virdachellum.	68	"	"	7900	"	"	26393	"	"	Ditto Ditto for bridge over the Manimuttan-nadi near Virdachellum and for completing the bridges now in progress.
4	Road from Pindivanam to Cuddalore by Mylam.	29	"	"	5800	"	"	"	"	"	The traffic on this road is 450 Carts a day and the allowance has been therefore raised from 150 to 200 Rs. per mile by order of Government No. 224 of the 2 nd October 1862.
5	ditto from Cuddalore to Chellam. - brum.	28	"	"	2800	"	"	35020	"	"	For the bridge over the Vellair.
6	Road from Merkanam to Chengam. - mah and Salem Frontier.	88	"	"	8800	"	"	24,500	"	"	For completing the metalling from Merkanam to Pindivanam in progress, and for completing the road from Chengam to the Salem frontier.
7	Road from Cuddalore to Trunk Road No. 8 by Punrooty.	28	"	"	1,200	"	"	"	"	"	
8	Road from Porto Novo to Trunk Road No. 9 to the Vellar.	16	"	"	3200	"	"	"	"	"	
9	Road from Ulindurpet to Kalla. - Kurichi and to the Salem Frontier.	37	"	"	3700	"	"	20400	"	"	For bridges and tunnels proposed to be built.
		182	265	"	30,200	30,600	"	234,742	106,313	"	

Superintending Engineer's Office
5th Div. Salem 2nd October 1863

For The Secretary to Government
D.P.W. Dept.

W. H. Atkins Lt. Col. R.E.
Superintending Engineer 5th Division.

No 172
Richard D. Engle
Office Beggarah
17th February 1868.

Know
Major J. C. Anderson R.E.
District Engineer R.E.

To
Lieut. Col. L. E. Snow R.E.
Depy Chief Engineer R.E.
Chifouk

Sir,

Referring to your Memo
as per Margin requesting my opinion
as to the description of roads in the
District which should be made
and maintained by Government,
I have the honor to inform you, in a
first place that there can be no
doubt as to propriety of classing
the following as imperial lines
of road -

Road from Masulipatam to
Beggarah and Nizam's frontier 40 Miles
No 6 Trunk Road from Nellore
frontier to Quater, Beggarah
and Ellore - 80 Miles
No 7 Trunk Road from Nellore
frontier to Pondich in the Nizam's
60 Miles

There is only one line of Commu-
nication besides the above, which
I would propose to class as a
Government road, namely that

Will be a letter

Station

The Deputy Engineer

S. S. Division

Dr. The Secretary to

1773986/62 Government
S. M. Dept.

Out 2
3 October 1868

12955

Statement showing the
Roads to be made and
maintained by Government

from Quinter to the ~~Frontier~~ ^(62 miles) ^{460 hours}
 via ~~Vinaconda~~ ^{per annum}. At present the traffic
 along this road is not of much importance,
 but as the resources of the ~~Vinaconda~~
 and ~~Turnool~~ districts become developed
 it is to be anticipated that a considerable
 trade will spring up between them.
 3. All the other roads may, I think,
 with advantage be classed as local.
 As none of them serve to form com-
 munication between large or important
 villages in this and adjoining districts.
 4. An exception might perhaps
 be made in favor of roads designed
 to facilitate access to the Salt Coats
 but the only two roads in this district ^{from Jakob to}
 which come under this description ^{Chua Gungam}
 are almost equally necessary for ^{from Panchid}
 local traffic <sup>to Guadalupe &
Pantunilly.</sup>

5. The following are the principal
 lines of communication which I
 would propose to keep up by the
 local funds.

- Road from Quinter to Mazampatan 50 miles
- Branch road. Mulucuri to
- Rapetla and Spurfallen 13 miles
- do to Enallou Mazampatan 8 miles
- Canal
- Road from Quinter to Pedaguralla and Limericotta 55 miles
- Coast Road - Chua Gungam Rapetla Vallatir 52 miles

Road from Jakob to Chind Gungam 10 miles
 " Peritil to Guadalupe 40 1/2 miles
 " Pantunilly -
 " Guadalupe to Panchid 8 miles
 " Guadalupe to Kumbhapat 14 1/2 miles
 " Mazampatan to Pantunilly 96 miles
 " Mazampatan to Vallatir and Vellatir 22 miles

I have the honor to be,
 Sir,
 Your Most Obedt Servt
 J. C. Anderson Major R.E.
 District Engineer Madras

J.C.

Resubmitted to Government.
 with reference to Memo No 157
 dated 29 July 1883. from the Secretary

J. C. Anderson Major R.E.
 Supp Engr
 2 Dura

Sup Engr's Office
 20 Dec Mazampatan
 6 October 1883

No 714

District Engineer's Office
Camp Atkinson 8th April 1863

613

From

Captain. A. S. Proberly &c
Sgt. District Engineer's Office

To
Lieutenant Colonel S. S. S. &c
Deputy Chief Engineer &c

Sir

With reference to your Memo 8132
of the 10th February forwarding letter from the Chief
Engineer 85405 of 3rd January 1863, I have the
honor to submit a Statement of the roads that
I considered should be made and maintained
by Government; the delay has been caused by
the Collector, to whom I referred the statement,
having only returned it this day.

I have the honor to be
Yours most Obedt Servt

A. S. Proberly Capt
Sgt District Engineer's Office

Resubmitted to Govt with
reference to Memo No 157 dated 29th
July 1863. from the Secretary to Govt

Superintendent of the
Naval Stores 6th October 1863
Superintendent of the
Naval Stores &c

Received
The District Engineer
No 173
Dated 17th February 1863
No 4116/13

Transmitting the
opinion as to the
condition of roads
in the District
which are in the
hands and maintenance
of Govt and by Govt
funds

Nellor
 Collector's Office
 11th August 1863.

No. 232.

From J. W. B. Dykes Esq.
 Collector of Nellore
 To Captain A. S. Moberly R.E.
 Resident Engineer 1st Class
 Madras

Sir

With reference to your letter No 57 dated
 7th instant, I have the honor to annex a Memo
 showing the amount of Local Funds avail-
 able on the 1st May 1863, and the probable
 sum realizable in 1863-64.

I have &c

Signed J. W. B. Dykes
 Collector.

Balance on the 1 st May 1863.	4385-9-2
Amount credited to Local Funds from the Pond funds in 1863-64	5500-0-0
Probable income expected in 1863-64	10000-0-0
Total Rs	19885-9-2

Nellore }
 13th August 1863. } 1 True Copy
 1 Signed A. S. Moberly, Captain
 Res. Eng. 1st Class Madras
 (True Copy)
 J. W. B. Dykes Esq. R.E.
 Chief Engineer &c &c

N^o 110

From

The 208th Regt

Recd

Dated 8th June 1863

Recd 13

July 10 - do -

1863 9774 11 6/13

Madras,

Aug 7/14

Submits a statement
 of the roads that he
 considers should be
 made and
 maintained by
 Government

Statement Showing the Minor or District Roads which it is considered should be made and kept in repair entirely from Local Fund. Revenue.

No.	Names of Roads.	Length in miles			Existing Annual Maintenance Grants			Probable Annual required for complete construction			Remarks.
		1st Class	2nd Class	3rd Class	1st Class	2nd Class	3rd Class	1st Class	2nd Class	3rd Class	
1	Bellore and Todaru Road	"	"	17	"	"	"	"	"	17000	Earth work nearly complete for the first 10 miles. a few minor masonry works constructed. Not in progress.
2	Tangaru and Kaligum Road	"	"	19	"	"	"	"	"	50550	About 1/3 of the earth work done, no masonry works constructed the rest of the line traced and side channels cut. Not in progress.
3	Estkapully, Ullur & Kaligum Road	"	"	29	"	"	"	"	"	77160	This road has not been commenced.
4	Bellore and Gangapattam Road	"	"	16	"	"	"	"	"	35500	Masonry works have been built as far as Pinner and the earth work carried on the same distance.
5	Razapolam and Ullur Road	"	"	11	"	"	"	"	"	29270	On this road the estimating had been estimated 24 miles and will expect be completed in two or three months.
6	Ullur and Ramapattam Road	"	"	3	"	"	"	"	"	"	Complete including installing & masonry works. The road is in excellent order.
7	Pingaray Kovah, Kovahur and Ponnalur Roads.	"	"	40	"	"	"	"	"	16000	The miles of earth work & embankment between the Trunk Road and at Pingaray Kovah and Kovahur completed. No other work done. Not in progress.
	Grand Total.	"	"	165	"	"	"	"	"	160000	

7172

673

60 1/2

Statement Showing the Minor or District Roads which it is considered should be made and kept in repair entirely from Local Fund. Return.

Nº 11.

No.	Names of Roads.	Length in miles			Existing Annual Maintenance Grants.			Probable Annual required for complete construction.			Remarks.
		1st Class	2nd Class	3rd Class	1st Class	2nd Class	3rd Class	1st Class	2nd Class	3rd Class	
	Brought forward.	"	"	165	"	"	"	"	"	619082	
8	Tydapur to Todairu Road.	"	"	16	"	"	"	"	"	42572	Gravel and side channels cut for about half the distance.
	Total.	"	"	181	"	"	"	"	"	661654	

Nellone
13th August 1863

Supr Engineer's Office
Sd/- Mr. S. P. S. S. S.
1st October 1863.

A. S. M. S. S. S.
Executive Engineer Sd/- 1863.

J. S. S. S. S.
Superintendent
Sd/-

71
693

693

House of Reps. Eugene
W. & Co.
to Secretary of War.
2nd

Wash. D. C. October 1859
Recd

Q. H. 2116/63

No 11.

Statement showing the
sum or profits made when
it is considered about the
made and kept in my hands
entirely from 1850-1859.
J. H. 2116/63

256

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4

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1724

Statement Showing the Roads to be made and maintained by Government in the Madras District

No. 1

No.	Names of Road.	Length in Miles			Existing Annual Maintenance			Probable Annual Cost for Complete Construction		
		1st Class	2nd Class	3rd Class	1st Class	2nd Class	3rd Class	1st Class	2nd Class	3rd Class
1	Trunk Road No. 6 from Arum- bank to Cover 115 Miles	"	79	"	"	17362	"			
1	Trunk Road No. 6 from Pim- meray back under to the 36 Mile Stone	"	3	"	"	1300	"			
	Trunk Road No. 6 from Cover to Ongole from the 115 to 185 Miles	"	70	"	"	7600	"			
	Trunk Road No. 6 Continuation from Ongole to Sukab	"	"	21	"	"	"			
		"	173	"	"	25162	"		34006	
2	Trunk Road No. 7 from Madragunta River to Chappurapad	"	29	"	"	2840	"		14450	
3	Road from the Dorival Pass to Kistnapatnam	"	69 1/2	"	"	5600	"		92891	
4	Road from the foot of the Redpur Ghāt to Gudur	"	"	31	"	"	3100			
5	Road from Ongole to Cumbum	"	"	7 1/2	"	"	1220			
	Carried over	"	27 1/2	104 1/2	"	34602	7320		46877	30056

Remarks
Explanatory of present Condition of Roads or progress made towards Completion of Construction.

From the 34th mile to the 115th mile embankment, metalling and all masonry works completed except bridges for the Surrananki and Purnan Rivers and some Road Agents on 49 miles. From the 115th mile the Road is passable in all weather as far as the Piddara River. From thence to the 129th mile the Road is passable at all times except during floods as the masonry works are not completed nor is the graveling finished. From the 129th to the 135th miles the Road may be considered as complete; after this are three miles comprising the Purnanur Valley on which no work has yet been done and which is only passable during the dry season. The next three miles are completed; the 142nd to 144th miles require some summs and graveling. From the 145th to 185th miles most of the smaller masonry works are completed; the bridges over the Purnan, Pallan & Purna Rivers and the larger gullies not yet commenced. Beyond the 185th mile no work has been done.

Embankments for a distance of 7 miles thrown up and principal higher masonry works constructed but no metalling done. From 8th to 29th miles inclusive embankments and metalling completed and about 1/3 the masonry work done. None of the bridges on this Road yet commenced excepting bridge across the Moosagunda River where it strikes off from the Road No. 7. The first 5 miles have been completed and most of the masonry works between the Purnan, Ghāt and Kistnapatnam are finished. Metalling on the Kistnapatnam Road has been extended until the remaining portion left in repair.

Work has been done as far as the Vindatageri River including masonry works and this portion of about 6 miles is now complete. A portion of road on the West side of the River has been commenced.

Now more half of the Road is metalled, a few minor masonry works built but none of the bridges.
Rt. sanctioned by Govt. No. 193 dated 10th Feb. 1863

Statement Showing the Roads to be made and maintained by Government in the Nellore District

No.	Names of Road.	Length in Pints			Existing Annual Maintenance fund			Probable Annual Cost for Completion		
		1 st Class	2 nd Class	3 rd Class	1 st Class	2 nd Class	3 rd Class	1 st Class	2 nd Class	3 rd Class
	Brought forward—	"	27 1/2	104 1/2	"	34,602	7320	"	448107	208143
6	Kota and Dugurayyattam Road	"	"	25	"	"	"	"	2397	111
	Total.	"	27 1/2	129 1/2	"	34602	7320	"	448107	208254

Kelore

13th August 1863

Superintendent's office
22nd Dec. 1863
6th Feb 1864
11th March 1864

The whole distance of road is open to traffic, as where road drains or bridges are not yet built the ground has been sloped. Materials have been collected for carrying on the works. The road will be completed in 1860/61.

Nellore
13th August 1860.

A. S. Mobery Esq.
Executive Engineer & Class A.D.C.

Superintendent's Office
22nd Dec. 1860
B. C. Roberts
Superintendent

J. C. Anderson Esq.
Superintendent
D. M.

N^o 116

Wazulika tana
4th May 1863

To Major J. C. Anderson R.E.
Superintending Engineer 2^d Division
Belgaum 837

Sir,

1. In reply to your letter of the 4th ultimo No 1400, I have the honor to inform you that the probable balance of Local funds remaining on the 1st Instant is Rs 18219. as detailed in the margin. The actual Collections under that head during the Official year 1862/63 cannot be given until the accounts for last month have been closed.

With reference to the Budget Estimate for 1863/64 already forwarded by me to the Accountant General, a sum of Rs 24,500. including a portion of the above balance will be available for expenditure during the current year. As you will be pleased to limit your estimates to that extent for works to be executed out of the Local funds.

I have &c.

Signed E. B. Fords
Acting Collector.

(True copy)

J. W. Anderson R.E.
Super Engineer D.D.

Balance of Local funds up to the end of the Official year 1862/63 { 44867-8-5
Probable Collections in 1862/63 39877-3-4
Total: Rs 84744-11-9
Amount Expenditure in 1862/63 66525-3-7
Balance on the 1st May 1863 18219-8-2

From the 1st July 1863
to the 31st Dec 1863
Dated 6 Dec 1863
Recd
J. W. Anderson R.E.
Super Engineer D.D.

N^o 116/63

Statement showing the funds to be made and maintained by Government in the Belgaum District.

Branch from Pongma and in the valley Road at Hunsarupale by Belluncoudak and Kura & Kichia at Amaravati.	"	28	"	"	"	"	32984	"	a Village track.
Branch from Chul to Ching Gungam road at Hunsarupale to Kachin	"	12	"	"	"	"	14136	"	Do.
* Road from Pongma to Gudmaga and Pamari	32 1/2	"	"	"	"	"	65000 7389 57611	"	Being raised and partially bridged
Do from Guntur to Rugga the Pongma the Kachin road	"	25	"	"	"	"	29482 105	"	a Village track excepting for a distance of 2 miles from Rugga the which has been raised and bridged
and thence to Kichia at the bar towards Marsapata -	"	"	"	"	"	"	11809	"	
Do from Mungala to Marsapata on the Mungala Channel	"	8	"	"	"	"	9424	"	a Village track -
* Do from Pafella over the swamp in that neighbourhood to Pochur -	"	14	"	"	"	"	16492	"	Impassable for about 3 months in the Year -
Branch from the Guntur and Pongma * Road at Marsar via Japuramoor to Ena -	"	9	"	"	"	"	10602 1000 9602	"	Some improvement is now being effected to this line

Sam'l. L. C. C.
The Geo. W. W. W.

to the Geo. W. W. W.

(H. 1116/63)

Pat. H. 1116/63

Re: 11

No. 2

Statement of the

Board of Directors, Chicago

to the Geo. W. W. W.

to the Geo. W. W. W.

to the Geo. W. W. W.

to the Geo. W. W. W.

to the Geo. W. W. W.

Statement showing the trunk or Imperial Lines in the New India District. Called for by the Engineer in No. 143 dated 27th March 1863.

920

No.	Name of Road	Length in Miles			Existing Annual Maintenance Grants.			Probable Amount required for complete construction			Remarks on explanation of present condition of road & of progress made towards completion of construction.
		1 st class	2 ^d class	3 ^d class	1 st class	2 ^d class	3 ^d class	1 st class	2 ^d class	3 ^d class	
No. 6	Trunk Road from Kelore Frontier to Gunter Bezgarah and Ellore.		80	"	"	"	"	274560 31 st March 1863. 9166 285396			A portion of the road from Setauagum & Gunter (10 miles) is now being repaired and partial repairs have been completed. It is from Bezgarah to Channarayana the remainder of the road is in very bad order. It is possible in rainy weather. The communication is partly obstructed by the water communication from Bezgarah to Ellore. An estimate is under preparation for 11 miles of the road from Gunter to Bezgarah.
No. 7	Trunk Road from Kelore Frontier to Madigul in the District.		60	"	"	"	"	8000 27 th March 1863. 220920 52334 178586			In good order but not bridged for 30 miles and being gradually improved for the remainder.
	Dist Roads & Cuts. Road from Nizami Frontier to Bezgarah.		73	"	"	"	"	9600 27 th March 1863. 212785 105665 163121			From Nizami Frontier to Nampalau (6 1/2 miles) in excellent order. Road from Nampalau to Bezgarah (8 1/2 miles) under improvement.
	Continuation of No. 2 to Masulipatam.			43	"	"	"	6300 117765			This portion of the road passes thro black soil & is nearly the whole distance and can only be made by means of the maintenance allowance. A tolerable dry weather communication. This estimate is not recommended for sanction.
	Road from Gunter to the Turnool frontier via Ninnasoda.		62	"	"	"	"	301924			This road is a natural track. It is proposed to improve it and an estimate is now under preparation.

Dist Engineer's Office Madras
Bezgarah in April 1863

Approved Major R. B.
Dist Engineer Madras

Superintendent
Madras District

Major R. B.
Dist Engineer Madras

10 of 1863
of Govt of India
703986

From
The Supg Engineer
5th Divⁿ

The Secretary to
Government

Dated 2nd October
1863

Et. No. 950

Forwarding
our statements in
connection with the
roads to be main-
tained by Govern-
ment from the
cal funds

3636-9th December

No. 235

2.28.1863

Lev.

3636

Communicated to
the Supg Engr. 5th Divⁿ for
early attention with re-
ference to para 1 -

Chepauk
19th Decr 1863

U.S.

To the Sup Engr
5th Divⁿ 19th Decr
P.O. 22nd

1517
P.W. 1861. Do part
Proc. of Govt. for Regular
No 240

No of Govt. in
the Army & Navy

Redd 1861
(Redd 1861) Dec 1/86
104488

Requesting that
provision may be made
in the plans & estimates
called for in Pro. No. 2919
of Sept. 1864. for extending
the accommodation of the
New Hospital for the Artillery
at Bangalore, so as to per-
mit of the whole of the
Artillery sick at that
station being placed
in one hospital -

2626-195 Dec 1/86
William O'Connell

2626-195