1934. Kenya

No 23326.

SUBJECT CO533/452

Reconstruction of Roads essential the

mining & Tea Industries

Previous

See 23287/14.

Subsequent

38150/1/35.

FILE C.

(1046) Wt.46003/258 8,600-2/4 N.P.Co. G.682/10 Condo

1 Governor Byrne 624 (Armal)

Salmits two applications for assistance from the 6.0 % for the recome kneeters of certain roads which we counted to the welface of the Yening Tea Industries records. that about the desired assistance not be granted 6.A. may be suthered to sanction necessary advances

The Governor enclosed two applications for loans from the Colonial Development Fund. The first is for an amount of £64,000, free of interest, for five years, thereafter at 4 per cent, repayable within 20 years, to provide for the reconstruction of reads in the mining areas.

The second application is for a loan of £35,000 on similar terms to provide for the construction of a road from Lumbwa on the Kenya-Uganda Railway to Kericho, the base of an important tea producing area.

The Executive Council recommended that, should either of the applications be refused, sanction to obtain the necessary advances from the Crown agents, pending the raising of a loan, should be sought.

The Governor hopes, however, that the applications to the Colonial advisory Development Committee will be supported. But if the applications fail, he trusts that the Secretary of State will see his way to authorise the Crown Agents to sanction advances to the necessary extent.

As recently as October we received representations from Major Ulick Alexander on behalf of the mining industries regarding the conditions of the roads in the mining area in

23287/34

the reconstruction of the Kisumu-Kakamega Boad and of parts of the Butere-Piccadilly Circus Road, the Piccadilly Circus-Kapsabet Road, and the Kisumu-Kaimosi Road, at an estimated cost of £100,000. It was explained to Major Alexander that it was out of the capacity of Kenya to provide that sum and that it was out of the question for Kenya to attempt to raise any further loans. A grant-in-aid from the Colonial Office was also out of the question.

The Governor, however, regards the development of the mining industry as of the greatest importance to the welfare of the Colony particularly at the present time in view of the serious decline in prices obtainable for the staple agricultural products. He says that it is may possible to state with certainty that the roads mentioned below which it is proposed to reconstruct are essential to the future development and progress of the industry. The Governor's proposals provide for:-

- (a) An all-weather road from Piccadilly Circus to Kisumu;
- (b) An all-weather road from Piccailly
  Circus for a distance of 7 miles
  towards Butere;
- from La gorien to Muhoru Bay in the Southerns

Tea Retates with the railway at humbra, it will be remained that special measures were necessary in February, 1963. The Governor reported that on account of the heavy rainfall, averaging

available locally, the road had been impassable for several months at a time. These difficulties led to the abandonment of the Kericho branch railway scheme. An arrengement was come to in Tea 1953 under which the Companies undertook to improve and keep the road open until the 31st of December, 1933, in return for a payment from Government of £1,700. Government hoped that the Tea Companies would be able to make this an all-weather communication between Kericho and the railway, unfortunately this hope has not been realised.

There are some 12,000 acres under tea in the district, representing a capital of £1,350,000 and the estates employ some 9,000 matives and 50 Europeans. It is estimated that the estates will export along this road some 3,000 tons of tea and import foodstuffs, factory material and other sundries to a total of \$10,000 tons during 1935.

The important questions are whether the C.D.A.C. will seem loans for these purposes free of interest for a period of five years. I should think it is very doubtful. And if the applications fail, whether the Crown agents may be authorised to advance the money required. This would seem highly improbable in view of Kenya's present financial condition.

(It should be have in mind that her have accion an application for a fee grant of \$30 500 the have an accion to the head factor, happend the sand which causing accounts the hand which causing a fee factor to the hand of the hand the the hand the factor of the hand the hand the factor of the hand the factor of the hand the hand the factor of the hand th

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### SIR JOHN CAMPBELL

I think myself that this is essentially a case in which the C.D.F. may very properly be invoked. Roads in Kenya have been a burning question for a long time. It is alleged that the native areas are not sufficiently served by roads and that the Government has put most of its expenditure into roads in the European areas. Unfortunately, there is a good deal of truth in this, and construction of roads to serve mining companies or tea plantations won't go very far to sebut the charge, even though the mining areas are definitely in the native reserves, and the roads will remain and be available for native traffic long after the mines are worked out.

Kenya has got no money available for any kind of development work, and it would be impossible to carry out works of the size contemplated with the resources available to Kenya, a loan is, I think, out of the question at present, bacquee Kenya cannot pay the interest on any loan of any size, and our whole policy is at present directed to getting Kenya's loan commitments down rather than to increasing them.

But these two roads come anto the category of works essential for developments. In the ol: days in the Gold Coast when there were no roads at all, west expense was of ed to mining companies whose properties lay only a few hundred yards from the railway lines, and that distant properties had to be extraordinarily rich before they could pay for the cost of transport over

bush tracks. In the Kavirondo area, where the mines are, soil is soft and deep afluvial, and the construction of a road is a matter of no little difficulty and expense. At the same time some kind of road that will stand up to heavy traffic is an essential requisite for extensive mining development, to which the Governor and the whole of Kenya looks forward with (prahaps unjustified confidence.

apart altogether from the mining question is the fact that the construction of a permanent ail-weather road through the area shewn in the second plan cannot fail to be of assistance to the general development of the region in question. In the second area, the southern one, it is considered that the existing track can be improved to a sufficient extent for the expenditure of some £4,000, while the Kakamega road is estimated to cost £60,000; as the Covernor points out, the Askamega road will, in addition to serving the mines, help in the development of the test industry. I have myself grave doubts as to the future of the said tee industry, since at present it is riding on the back of the International rea Restriction and were production outside kenya to be ...... it is quite likely that Kenya tem would cease to be a paying proposition. All the same, at the present time the tea industry is there and provides additional argument for the construction of the Kakamega Road .

I think then that there is a very good case from the pure development point of view for the provision of assistance to Kenya in the form which the Governor asks, which is not too grasping, as

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The C D A is likely. I think, to agree to this. rolitically, it is obviously desirable that anything which can be done here should be done to help Kenva at this very difficult time for them. One need not enlarge on that.

The Treasury are not, I should say, likely to make difficulties. They I think are beginning to appreciate the real nature of the situation; they are I think perhaps rather worried at the consequences of their rigidly orthodox financial policy in relation to Kenya ( I was called up on the 'phone , day by the Treasury and had a long talk as to this. i improved the opportunity -- making it clear of course that the views expressed were my personal views only.) and the, are beginning to get anxious as to the possible repercussions of that on the Exchequer. The, will I think be glad enough to help here. 2. Un the merits, we must assume that this road policy has been carefully worked out. Behind all hat there stand two major points, on which the DA C will proba -- I should think -- ask for some assurance from the Dept: Is the gold industry likely to be quasi-permanent? So for the tea industry, And, if not, are these roads going to be orth while, and of permanent value to the country?

The answers are perha s that we cannot as yet say, with any certainty, that the gold industry is quasi-permanent; but there is reason to think that I dieforther it may well be so. ( The sum of the thing is I gather that the geologists differ as to this; one says " secondary enrichment" only: the other " permanent mining based on reefs which will probably get richer as you exploit".) As to tea. I am considerably more hopeful than Mr: Flood. Tea control -- as rubber and tin control--will most probabl, become quasipermanent. That seems to me in the sheer nature see of things. If tea control be renewed. Kenya will get a fair deal; and with restriction hovering about 85% or so, they should do well enough. Meantime; the are parasitic -- and should frame their policy on sound lines in view of that fact. They are reaping great advantages, and should use them wisely. I would, on my present information, be disposed to be quite optimistic as to the tea industry. As to the third question -- that is for the Dept:. But there will doubtless be no difficulty in making out a thoroughly sound and convincing case that these roads will be of permanent value to Aen, a?. 5. There is one minor point which may want clearing

up. ( The interest by the way will be 32%--not 4% We might tell Ken, a that, if we have to cable as regards the other point.) The Govr: says he is asking for no free grant; he merely wants the payment of interest to be delayed for five years. The 1 04.000 application however asks for a loan " free of interest for five years". The & 30,000 application is identical as to this point. Both any " no airect grant from the Fund is required". If they really mean a free grant of the interest/for five years, they should say so; if they mean to pay the interest

Buttle people won't follow constant his invisioning I think on with affe 6 years full have on 3. 1.05

for the first five years, at some time after the expiry of that period, they should say exactly how they propose to effect that. I see that construction will take 21 months and 14 months respectively from the date of provision of the funds. My advice would be to ask for interest-free loans, in both cases, for a period of three years: -- that would cover construction and a not unreasonable " settling down" period. Interest  $3\frac{1}{2}\%$  -- the usual rate now. We could get over an obvious difficulty by sending on to the C D A C--not the despatch and cables, but -- a resume of the despatch. which would be in effect the despatch, altered on this one point.

The 22nd: December, 1934.

Shirt a madaling per there for the cours it were does to

whaped on Sief Constilled This point, yours a disses, med food toods are excellent means of moreofor

low in a birdy water area, after any then the wive a morning dense popular, as is as

the are in the so we poor 4 · Piecesing aims

WW. 74.12.14

C.D.A.C.

r put by penaing c.D.A.C's recman.

U.A. Grossmith 16.1.35.

B.U. to me on 29th Jan.

L.B. Freeston, 17,1,35, at once.

Recmds. loans of £64,000 and £35,000 for he reconstruction or roads in the gold mining and tea planting areas, and expresses hope that the two industries concerned will make some special conton. towards the cost of the roads.

Sanction loans of £64,000 and £35,000 from the U.D.F for the construction of roads in the minig and teagrowing areas.

draft tel to kenya herewith

Tel to Gur Kenya No 45

7 To Kenya 158 ( 4/0)

23326/34 Mr. Franch 23/2/37 Mr. Freeston 25 Mr Hord 25 fs Zenon 7. Mr. Parlanson Sir G. Temlinson Sir C. Bottomley I have sto to refer to form Sir J. Sauchburgh despeted to by of the 6th Permit V.S. of S Parly V.S of S of December in which for Secretary of State forwarded applications for DRAFT. loan from the Colonial Kenya epac (m)

state (m)

state (m) Serelpour tand of No 158 £64,000 and 635,000 for cont constantin in a " (N.A) and to cons Mining and her are, belignen Nors of the 19 " of Leterary which deal as follows: -"Looms of £ 64,000 and find FURTHER ACTION. of up in many much Fund Sanctional. Terms free of interest and repayment for frist fire Years, Chereafter to Bear cuterest at 32 per Cent and to be repaid with. 20 year from dan

date of advance by amounties Covering principal and Caterest Departs forward. 2. I enelose for how differention, Ofice of the memorandom Submitted to the Colonial Covalporant Adrising Committee and a copy of a live from the Committee containing Open recommendations. It wis be hoher that the Countre expensed the tipe that, in view of the benefits which the gold and Ga lidustico will derine from the new wonds, Ou frame to of kenya wie Consider the portients of the too industries concurred making directly or indirectly but specal contribution low and as cost of the wards. In Communicating this Regrestion to do for m con deration, I would wish reference to the lase to the Feering dated to 9 Eg Fatury. a con I while is enclosed.

Tionwill The A. Freesting of alon Mr. Parkinson. Sir G. Tomlinson Sir C. Bottomley. Sir J. Shuckburgh Your despetch (No 62) Permi. U.S. of S 1 6 Secenter Looms Parly. U.S. of S. Secretary of State q = £64,000 and £35,000 DRAFT. Sel. from Colonial Development Fand Panctioned. Terms Nanobi. per of cuterest and repayment for first fire years thereafter to bear interest at 32 per cent and 6 be repaid wide in 20 years from the 2 adrance 2 de annities covering Plincipal and witerest despatch foryows

Telephone No. : Wattware 1934

Any reply to this letter should be addressed to ...
THE SECRETARY.

TREASURY,
WHITEHALL, LONDON, S.W.1
and the following number quoted
S.34609/0228.



#### TREASURY CHAMBERS.

14 February, 1935.

method

Sir,

I have laid before the Lords Commissioners of His Majesty's Treasury Mr. Flood's letter of the 9th February, 1935 (23326/34), signifying Sir Philip Cunliffe-Lister's concurrence in the recommendation of the Colonial 'Development Advisory Committee, conveyed in the Secretary's .letter of the 5th instant (C.D.A.C.1680) that loans amounting to £99,000 should be made from the Colonial Development Fund to the Government of Kenya, to be applied to the construction of roads in the mining and tea-growing areas of that Colony, viz: - £64,000 for roads in the mining area and £35,000 for a road essential to the development of the Colony's tea industry, each instalment of the loans to be free of interest and repayment for the first five years thereafter to bear interest at 32 per cent per annum and to be repaid within 20 years from the date of advance by the

The Under Secretary of State, Colonial Office. method of equated annuities covering principal and interest.

I am now to request you to inform the Secretary of State that My Lords sanction loans of 264,000 and £35,000 respectively from the Colonial Development Fund in accordance with the recommendation of the Committee. They note the Committee's suggestion that the two industries concerned should make, directly or indirectly, some special contribution towards the cost of these roads, will be communicated to the Governor of the Colony for consideration.

Secretary of the Colonial Development Advisory Committee and to the Crown Agents for the Colonies.

Lam,

Sir,

Your obedient Servant,

R. V. Nind Highling

Mr. trento 6/2 Mr. Hord of w. who I the letter of DRAFT. the ca of February from the The Suy CR. Iw. Now. Clay (obte 1680). I am as to regul the the Le of the T may be more to signify their appeared of the love in accordance with the Committee's recommendation of Egg. on to the Got FURTHER ACTION. of Kenya, I he applied to the construction of roads ... the munny and ter - grown men of the

23326/37 Mr. Frento 62 Kenga Mr. Hord of Mr. Parkinson Party. U.S. of S is up to the letter of DRAFT. the 6th of February from the The Sony CR Iw Now Ctu (c) he 1680) - 1 am a. ti reguet that the Le of the The may be more to signify their approve of the love. in accordance with the Committee's recommendation 1 Eqq. or to the first FURTHER ACTION. of Keny, I he applied Chr Wash to the construction of roads in the mining and ter-grown men of that

E - The Eter coffees the high that the Got of Kung- will comide the frombly that the two midentine commends should make durty or industry, some spend contribution towards the east of their roads. The dust revenue to be desired from there understones in 1935 is estimated at & 5000 (Ten Exem Duty) and & 25000 ( Ninny Fees . Royalties) respectively !adding to anhupded that £ 57000 Esooro from motor which hunas. The servin of the loan with call for equition annual pargonds of (£ 8 boo) affers making ) in the year 1941-1955. It will be seen that an increase of during the most for you of 20 % in the wealth from to an ten escise a mining fees a royalting and of 22 % is the french of taxation of motor transport, with more than come to sever of the loan ; and sad moreses

of the order name are, in the sife 's opinion

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S. P.C.L. is meliant to regard

the import of special towards or

or unecessary, as well as

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administration improclamble the

will however communicate the

Committee's supportion to the

Committee's

DRAFT.

Sir G. Tomlinson

Sir J. Shuckburgh Permt. U.S. of S.

Parly. U.S. of S.
Secretary of State

URTHER ACTION

Communications on this subject thought be addressed to

THE SECRETURA

Lelephone Whitehart 9121



8 W.1

C.D.n.C. 1680.

5th February, 1935.

Sir,

Advisory Committee to request you to inform

Secretary Sir Philip Cunliffe Dister that, at their V5th

meeting on the 30th of anuary, they had before them an
application from the Government of Kenya for two loans from
the Colonial Development Fund - £64,000 for roads in the
mining area and £35,000 for a road essential to the
development of the Colony's tea industry. (C.D.A.C. 1661).

2. The Committee were informed that the roads are of vital importance to two of the Colony's most promising industries; but they were assured that roads of the kind proposed would, in any circumstances, be of permanent value to the Colony. In these circumstances, the Committee recommend loans of £84,000 and £35,000 for the purposes desired. They recommend that each instalment of the loans should be free of interest and repayment for the

The Under Secretary of State,

Colonial Office.

M 16 Hory ()

first five years, thereafter bear interest at 32 per cent.

per annum and be repaid within 20 years from the date of advance
by the method of equated annuities covering principal and
interest.

and tea industries will derive from the roads, the committee express the hope that the Government of Kenya will consider the possibility of the two industries concerned making directly or indirectly some special contribution towards the cost of the roads.

. A similar letter is being sent to the Treasury.

Mir.

Your obedient servant,

1

Secretary to the Committee.



### COLUNIAL DEVELOPMENT ADVISORY COMMITTEE.

Kenya: Road Construction.

I circulate, for the consideration of the Committee, an application from the Government of Kenya for two loans from the Colonial Development Fund:

- (a) £64,000 for roads in the mining areas;
- (b) £35,000 for a road essential to the development of the Colony's tea industry.

A Colonial Office memorandum is also attached and the usual Financial Summaries prefixed.

L.s. Smith.

Acting Secretary to the Committee.

Colonial Uffice.

14th January, 1955.

## PINANCIAL SUMMARY

Dependency:

Kenya.

2. Description of scheme,

Construction of roads essential to the welfare of the Mining Industry.

3. Date of commencement.

Detailed estimates will be prepared when the provision of funds is approved and construction will follow immediately after.

4. Period of scheme.

21 months from the date of provision of funds.

5 Total cost.

264, 000.

6. Allocation of cost.

Local £50,000.

Assistance desired.

LOBIN OF £64,000.

Suggested terms

Free of interest for a period of five years with interest at 3 per cent. thereafter; repayments to be made by annuities starting in the sixth year from the date of issue and terminating in the twentieth year.

9. Probable yearly amounts required.

1934/35 1935/36 1936/37 £2,000 £30,000 £32,000

#### FINANCIAL SUMMARY.

1. Dependency: Kenya.

2. Description of scheme.

Construction of a road essential to the welfare of the Tea Industry.

3. Date of commencement. Detailed estimates will be prepared when the provision of funds is approved and construction will follow immediately after.

Period of

14 months from the date of provision of funds.

5. Total cost.

£35,000.

allocation of cost.

U.K. £7,500. U.K.

Assistance desired.

loan of £35,000.

Suggested terms of loan.

Free of interest for a period of five years with interest at 32 per cent. thereafter; recomments to be made by annuities starting in the sixth year from the date of issue and terminating in the twentieth year.

Probable yearly amounts required.

1934/35 1935/36 1936/37

£2,000 £53,000 E N11

THE MEDICAL ST.

KENYA No. 627.

Government House,

Nairobi.

KENYA.

6th December, 1934.

Sir,

I have the honour to submit two application for assistance from the Calonial Tevelopment and to establish the reconstruction of partial roads which are as assistant to the welfare of the Similar and fee industries you be undertaken without delay.

As you are aware communications in the whole areas have presented a problem such has exempled my personal attention ever since it became a second trust a substantial new industry with great duture assistantial, had been established in the Colony. (and the etery, however, owing to the difficulty of determining in each directions the industry was most likely to develop, it has been impossible to frame any programme of road construction without running a grave rick that exceedings ight be dissipated on roads which might one equal to proved to be of little importance.

state with certainty that the roads on the state with certainty that the roads on the state of the centre of the state of

3. The problem of communications in the control areas was considered by the Central Roads and confficulties and on the 22nd october, when the goard unminously

TECOMMENDED THE PROPERTY OF STATE FOR THE COLUMN SECRETARY OF STATE FOR THE COLUMN SECRETARY OF STATE FOR THE COLUMN S.W.L.

- (a) constructing an all-weather road capable of carrying heavy traffic between Kisusu and Piccadilly Circus in the Kakamega District;
- (b) making up the first 7 miles of the Piccadilly Circus Butere road to the same standard as in (a), and
- (c) providing permanent bridges on the track from Lolgorien to subborn Bey in the Southern sining area.
- 4. I subsequently referred these recommendations to my executive Council, who on the 16th hovember, advised as follows:-
  - "(a) that an application should be made to the Colonial Development advisory Committee for a loan of 554,000, if possible, free of interest for the first few years for the purpose of constructing:-
    - (1) an all-weather road from Piccadilly Circus to Kisumu:
    - (2) an all-weather road from Piccadilly Circus for a distance of 7 miles towards Butere:
    - (5) Permanent bridges on the track from lolgorien to Juhoru Bay:
    - (4) That an application should at the same time be made for a loan of £55,000 on similar terms for the purpose of constructing an all-weather road from Lumbwa to Kericho, and
    - (5) that should either of the applications be refused, sanction to obtain the necessary advances from the Crown Agents pending the raising of a loan should be sought."
- 5. As may be seen from the enclosed questionnaire the first application is for a loan of £64,000 repayable within twenty years, free of interest for the first five years. Of this sum, £60,000 is required to reconstruct the Kisumm-Piccadilly Circus road and the first ? miles from Piccadilly Circus to Buters. Both these roads are in Kakamega district and provide the only means of

communication

- (a) constructing an ail-weather read capable of carrying heavy traffic between Kisumu and Piccadilly Circus in the Kakamega District;
- (b) making up the first ? miles of the Piccadilly Circus Butere road to the same standard as in (a), and
- (c) providing permanent bridges on the track from Lolgerien to autoru Bay in the Southern wining area.
- 4. I subsequently referred these recommendations to my Executive Council, who on the 16th hovember, advised as follows:
  - "(a) that an application should be made to the Colonial Development advisory Committee for a loan of 184,000, if possible, free of interest for the first few years for the purpose of constructing:
    - (1) an all-weather road from Piccadilly Circus to Kisusu:
    - (2) an all-seather road from Piccadilly Circus for a distance of P miles towards Butere:
    - (5) Permanent bridges on the track from interior to subpru lay:
  - (4) That an application should at the Same time be made for a loan of adv. 30 on stallar terms for the purpose of constructing an all-seather road from Lumbes to Lericho, and
  - (5) that should either of the applications be refraced, sanction to obtain the necessary advances from the Grown agents pending the raising of a loan should be sought."

5. As may be seen from the enclosed juestionnaire the first application is for a loan of £84,000 repayable within thenty years, free of interest for the first five years. Of this sum, £80,000 is required to reconstruct the Kisumu-scadilly Circus road and the first 7 miles from Piccadilly Circus to Butere. Both these roads are

in Kakamega district and provide the only means of

communication

communication between the mines and the railway.

The latest traffic census figures reveal the fact that even now the road between Kakamega and Piccadilly Circus carries un average of 245 vehicles per day, while on some days well over 500 vehicles have been recorded.

The balance of £4,000 is sought to provide adequate means of communication between the Lolgorian and Gori River Gold dines in the Southern Mining area and Lake Victoria Nyanza at Muhoru Bay. In this area climatic and soil conditions are not unfavourable to road construction, and the work to be done consists of the widening and realignment of an existing track and the construction of substantial low-level bridges where required.

This work is urgently needed to enable machinery and other heavy goods to be brought to the nines.

This is now a matter of extreme difficulty since the bridges on existing routes to this area are of temporary structure and unable to support heavy loads.

6. The problem in the Kakamega area is of a different nature. Owing to the unsuitable nature of the soil, the heavy rainfall and the amount of traffic which they are now required to carry, it has been found quite impossible to keep the roads in this area, which are earth roads without roundation, in good condition in all weather. During the last two years out of a total of £10,000 provided under Public Lorks
Extraordinary for roads, the sum of £5,165 has been expended on these roads in addition to the usual

provision

has, however, not been improved. The state of the roads has, however, not been improved. The stehing of earth roads in such circumstances is to all intents and purposes a waste of money. In wet weather the heavy traffic speedily reduces the surface to a quagmire, and vehicles which on a well constructed road would be able to make the double journey between Kisumu and Piccadilly Circus without difficulty in a few hours, may take as much as two days for a single journey on the road in its present state. The position is rapidly becoming worse and the only practical solution of the difficulty is to undertake the complete reconstruction of the roads as early as possible.

- 7. I regard the development of the mining industry as of the greatest importance to the welfare of this Colony, particularly at the present time in view of the serious decline in prices obtainable for the staple agricultural products. Already the industry has provided employment and opened out a field for private enterprise when agricultural conditions were unfavourable and the overseas prices of produce low. During 1935 the industry gave employment to a monthly average of 400 to 500 Europeans, and 9,000 to 10,000 non-Europeans, the total wages paid being between £110,000 and £12,000. It is believed that the total expenditure in the Kakamega area, which the propose rounds are intended to herve, was in the vicinity of £500,000 for 1935.
- stress how disastrous it would be to the Colon's interests if the development and progress of the Mining industry were kindered by the lack of

reasonable facilities for transport and communication, and since this appears inevitable unless funds can be provided to undertake the reconstruction of the roads at an early date, I trust that you may find yourself able to give the strongest possible support to the application for assistance from the C lonial Development Fund by means of a loan of the necessary funds for this purpose.

9. The subject of the second application is for the point of a 1 ab of 235,000 on a cultar terms to reconstruct a road escential to the development of another of the Colombs substitute reside today in a substitute. This road connects the large result ten estates with the railway at Lumbwa, and has been the subject of a previous despetch, no. 133 of the ford February, 1933 when your approval and sought to an error ment by which the Kenya Tea Grovers' associated and delettock the work of repairing and maintaining this condition to Government for this purpose.

It was hoped by this arrangement that the few Companies would be able with a larger staff than the Public works bepartment could employ, to make this road an all-weather communicative between Kericho and the railway. Unfortunately this hope has not been realised

Unsuitable will, heavy rainfall and the other factors which necessitate recourse to capital expenditure for the reconstruction of the roads in the Kakamega mining area, also operate in this

district, and it is now apparent that continued heavy expenditure on surface repairs is uneconomical and wasteful, and that nothin, short, if the laying down of a solid foundation will suffice to make this road passable in all vesthers.

primarily intended to remove the serious disability under which the the industry is now operating, an all weather road is also urgently needed for general administrative purposes. It is the arterial road of the South Lumbwa District and the principal approach to the Sotik and Kerich Settled areas. Coffee from the European plantations at sotik and maize and other native produce from the European addition, it is the main route to the Southern Mining Area. The greatest value of traffic is however in connection with the tea industry

The Tea Industry in the vericho district consists of nine separate estates, comprising some 12,000 acres under tea and representing a capital abordinately £1,000,000. These estates employ some 9,000 natives besides 50 Europeans and it is estimated that they will export along this road some 5,000 tens of tea and import roadstuffs, factory material, tea chests and other syndries to a retail of 10,020 tens during 1265. When the estates peach maturity it is anticipated that a much greater volume of traffic will be borne on the road than at present. In the past the road has been impassable for as long as three weeks at a time, with the result that when it has been recommed as much as half a million to of tea has been recommed as much as half a million to

badly cut up and in a dangerous condition. In the circumstances it is hardly surprises that resented applications have been made to deverment to provide more reasonable facilities for transport, and I trust therefore that in this case also the application will, a receive your approver, and support

12. The details of the proposals for reconstruction which will be undertaken when funds are available are contained in the enclosed Questionnaire. It will be seen that of the sum of 500 (no applied for, it is estimated that an expenditure of 27,500 will be indured in Great Britain.

13. In conclusion I desire To represent as strongly as possible that the early Construction of the roads to which both applications relate, is muterial to the success of the Colony's efforts to recover a tavourable balance of trade. The traffic which these roads will have to curry in connection with the development of those new industries will be so vestly in excess of the termal traffic carried in the ordinary capres of trade and conserce, for which earth and murrum roads of the normal standard of construction throughout the Colony are reasonably adequate, that the expenditure necessary for the construction as and to beyond the resources of the Colony's recurrent revenue. It therefore becomes necessary to look to some other source for the ovision of funds! This view is rully Chared by my Executive Council and you will opserve from the winutes quoted in paragraph 4 above that I have been advi: - "

advised, in the event of either of the applications being refused by the Colonial Development advisory

Committee, to seek your sanction to obtain advances of the sums required from the Crown Agents in anticipation of the raising of a loan. I sincerely hope that the occasion will not arise and that with your support assistance from the Colonial Development Fund may be forthcoming.

I have ic.,

(Sgd.) J. Byrne.
BRIGADIER-GENERAL

GOVERNOR.

Diagt.

he Granth 191/31-

MEMORANDUM.

Prom Gov. 5/12/34
Prom Gov. 5/12/34
With encls.
(Last para of despatch to be omitted.)

In his despatch of the 6th, December, 1934, the Governor of Kenya applies for two loans from the Colonial Development Fund to enable the replacement of the existing earth tracks in certain areas by all-weather roads. The areas concerned are those in which rapid development is anticipated in relation to gold mining and tea planting respectively.

The sums required are:-

- (a) £64,000 for roads in the mining areas.

  The loan to be free of interest for a period of five years, with interest at 3½ per cent. thereafter; repayments to be made by annuities starting in the sixth year from the date of insue and terminating in the twentieth year.
- (b) £35,000 for a road essential to the development of the Colony's tea industry.

  The loan to be on terms identical with those suggested in (a).

The Secretary of State agrees that it would be impossible to carry out works of the size contemplated with the resources at present available to Kenya. He is assured, however, that roads of the kind proposed will be of permanent value to the Colony, and that their construction is of vital importance to two of the Colony's most promising industries. He has, therefore, no hesitation in recommending the applications for the favourable consideration of the Colonial Davelepment Advisory Committee.

(The 4% shewn in the answer to Question 7 in both questionnaires to be amended to

mad how were

# FINANCIAL SUMMARY.

Dependency:

Renga.

Description of scheme.

Constinction of wats exacutial to the way are of the mining Industry

commencement.

As soon as approved.

White's without with he

Period of scheme:

E. 64.000

Total cost.

llocation of cost.

Local: 6.50,000

marly all expenditure will be flocal? fin U.k.

Assistance desired.

Loan of E. 64.000 Pers grant of fire.

Suggested term of loan.

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Probable yearly amounts required.

1934/35 1935/36 ubsequently-

#### NOTES.

question 2. A very brief description only of the scheme is required,

Questions 8, 6 & 7 - delete words not required.

question 8.
If a loan is not applied for, write "not applicable".

If application is being made for a loan state suggested period within which the loan should be repaid, suggested terms of repayment and whether application is made for a loan free of luterest for any period.

In the absonce of special considerations to the contrary the rate of interest usually recommended at present on loans from the Colonial Development Fund is 5%, and the method of repayment that of equated annual instalments covering principal and interest.

Question 9. Assuming that the scheme is begun on the date given in Question 5 state the estimated sums which will be required from the Fund during each financial year (ending 51st March) during the currency of the scheme.

### FINANCIA L SUMMARY.

Dependency:

Renya.

2. Description of scheme.

Construction of was executive to the weyare of the Mining Industre

5. Date of Commencement.

As soon as approved. .... months after approval.

Period of

itailes estimation wie be prepared

Total cost.

Allocation of cost.

Local: E.So, ove

OF

merly all expenditure will be /local/ fin U.S.

Assistance desired.

Loan of E. 64.000 Pres grant of Erran.

Suggested terms of loan.

tues Interest for a perior of I ? ca with Retarest at 32 % Upayments to be made of annu Streeting in the virth De date of circu and twentiell seas

Probable yearly amounts required.

1934/35 1935/36 1936/37 Subsequently-

### NOTES.

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Question 8.
If a loan is not applied for, write "not applicable".

If application is being made for a loan state suggested period within which the loan should be repaid, suggested terms of repayment and whether application is made for a loan free of interest for any period.

of interest usually recommended at present on loans from the Colonial Development Fund is 5%, and the method of repayment that of equated annual instalments covering principal and interest.

Question 9. Assuming that the scheme is begun on the date given in Question & state the estimated sums which will be required from the Fund during each financial year (ending 31st March) during the currency of the scheme. Th 191/30

## FINANCIAL SUMMARY.

Dependency:

teays.

2. Description of scheme.

Constitution of a word executivel Costface of the rea Industry

3. Date of commencement. As soon as approved.

4. Period of scheme. Between a timater will be paid when law brown of founds in appeared & creation to be for the first from the safety after

5. Total cost. make will freeze comment about the provision of for £. 27.500 £. 3500 Local:

6. Allocation of cost.

U.K. Rearly all expenditure will be [focal7 fin U.K.7

Assistance

Loan of E. JS ove Free grant of L.

Suggested terms of loan.

Free of Patous for a know of I gears Putarest at 32 % Thereafter Espayments to be made to an Marking in the Jex the year Lancie and termination twential Jean.

brushing

Probable yearly mounts required

1984/85 1935/36 1936/37 Subsequently

NOTES.

Question 2. A very brief description only of the scheme is required.

Questions 5, 6 & 7 - delete words not required.

Question 8.
If a loan is not applied for, write "not applicable".

If application is being made for a loan state suggested period within which the loan should be repaid, suggested terms of repayment and whether application is made for a loan free of interest for any period.

In the absence of special considerations to the contrary the rate of interest usually recommended at present on loans from the Colonial Development Fund is 31%, and the method of repayment that of equated annual instalments covering principal and interest.

Question 9. Assuming that the scheme is begun on the date given in question 3 state the estimated sums which will be required from the Fund during each financial year (ending 31st March) during the currency of the scheme.

Th 191/38

## FINANCIAL SUMMARY.

Dependency:

teays.

2. Description of

Constitution of a word executival of the bolfare of the rea Industry

5. commencement.

As soon as approved.

Period of

......months after approval. Detailed so makes well a proper when law as the form on the form of franch is approved to creating on many the form to command when after the sound of provision of franch.

- 5. Total cost.
- Local: £. 27.500 U.K. £. 2.500 β. Allocation

of cost.

Rearly all expenditure will be /local7 /in U.K./

desired.

Loan of E. JS 000 Free grant of S. ...

Suggested terms of loan.

tree of Interest for a perior of by tax to be mide to aunu Marking in the Six the year " and termination twential Jean.

Probable yearl

2,000 1984/35 E. 33.000 1935/36 1936/37 Subsequently

### NOTES.

Question 2. A very brief description only of the scheme is re wired.

Questions 5, 6 & 7 - delete words not required.

Question 8. If a loan is not applied for, write "not applicable".

If application is being made for a loan state suggested period within which the loan should be remaid, suggested terms of repayment and whether application is made for a loan free of interestor any period.

In the absence of special considerations to the contrary the rate of interest usually recommended at present on loans from the Colonial Development Fund is 51%, and the method of repayment that of equated annual instalments covering principal and interest.

Assuming that the scheme is begun on the date given in question 3 state the estimated sums which will be required from the Fund during each financial year (ending 31st March) during the currency of the scheme.

LAIR MAIL



GOVERNING HOUSE NATROBI

KENYA

6TH DECEMBER, 1934.

Sir,

O. REGY I have the honour to submit two applications for assistance from the Colonial Development Fund to enable the reconstruction of certain reads which are essential to the welfare of the mining and rea Industries, to be undertaken without delay.

2. As you are aware communications in the mining Areas have presented a problem which has exercised my personal attention ever since it became apparent that a substantial new industry with great future possibilities had been established in the Colony. Until lately, however, owing to the difficulty of determining in what directions the industry was most likely to develop, it has been impossible to frame any programme of road construction without running a grave risk that expenditure might be dissipated on roads which might subsequently be proved to be of little importance.

the time has now arrived when it is possible to state with certainty that the roads which it is proposed to reconstruct and which are in the centre of the area of greatest activity, as will be seen from the plan annexed hereto, are essential to the future development and progres of the mining industry.

the problem of communications in the mining Areas was considered by the Central Roads and Iraffic seard on the 22nd october, when the seard unanimously recommended that a loan should be raised to meet the cost ofi-

(a) constructing ...

THE RIGHT HONOURABLE

MAJOR SIR PHILIP GUNLIFFE-LISTER, P.C., G.B.E., M.C., M.P., SECRETARY OF STATE FOR THE COLONLES.

LONDON, S. W. I.

DOWNING STREET.

SAIR MAIL KENYA

No. 671



EC .

U. REGY

#### GOVERNMENT HOUSE NATROBI

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DOWNING STREET,

LONDON, S. W. 1.

- (a) constructing an all-weather road capable of carrying heavy traffic between Kisumu and Piccadilly Gircus in the Kakamega District;
- (b) making up the first 7 miles of the Piccadilly Gircus Butere road to the same standard as in (a), and
- (c) providing permanent bridges on the track from Lolgorien to Euheru Bay in the Southern Mining free.
- 4. I subsequently referred these recommendations to my Executive Council, who on the 16th Movember, advised as follows:-
  - \*(a) that an application should be made to the Gelevial Development Advisory Committee for a leen of 264,000, if possible, free of interest for the first few years for the purpose of constructing:-
    - (1) An all-weather road from Piccedilly Circus to Kisumus
    - (2) As all-weather road from Piccadilly Girous for a distance of 7 miles towards subsess
    - (3) Permanent bridges on the track from Lolgorien to Muharu Bay:
    - (4) That an application should at the same time be made for a loan of £35,000 on similar terms for the purpose of constructing an all-weather road from Lumbwa to Kewicho, and
    - (5) that should either of the applications be refused, maction to obtain the messeum sevenees from the cross feature panding the ruising of a loss chould be acught.
- 5. As may be seen from the successed Questionnaire the first application is for a loan of £64,000 repayable within twenty years, free of interest for the first five years. Of this sum, £60,000 is required to reconstruct the Kisumu-Piccadilly Gircus road and the first 7 miles from Piccadilly Gircus to suters. Both these roads are in Kakamega district and provide the only means of

communication between the mines and the railway.

The latest traffic census figures reveal the fact that
even now the road between Kakamega and Piccadilly
Gircus carries an average of 245 vehicles per day,
while on some days well over 300 vehicles have been
recorded.

the balance of £4,000 is sought to provide adequate means of communication between the Lolgorian and Gori River Gold Mines in the Southern Mining Area and Lake Victoria Myanza at Muhoru Bay. In this area climatic and soil conditions are not unravourable to road construction, and the work to be done consists of the sidening and realignment of an existing track and the construction of substantial low-level bridges there required.

This work is urgently needed to enable machinery and other heavy goods to be brought to the mines. This is new a matter of extreme difficulty since the heidges on existing routes to this area are of temperary structure and smable to support heavy loads.

of the problem in the Kakanega Area is of a different nature. Owing to the unsuitable nature of the soil, the heavy rainfall and the amount of traffic which they are now required to carry, it has been found quite impossible to keep the roads in this area, which are south reads without foundation, in good condition is all weather. Suring the last two years out of a total of \$10,000 provided under Public Sorke Extraordinary for reads, the sum of \$5,165 has been expended on these roads in addition to the usual

provision for maintenance. The state of the roads has, however, not been improved. The patching of earth roads in such circumstances is to all intents and purposes a waste of money. In wet weather the heavy traffic speedily reduces the surface to a quagmire, and vehicles which on a well constructed road would be able to make the double journey between Kisumu and Piccadilly Gircus without difficulty in a few hours, may take as much as two days for a single journey on the road in its present state. The position is rapidly becoming werse and the only practical solution of the difficulty is to undertake the complete reconstruction of the roads as early as possible.

- 7. I regard the development of the mining industry as of the greatest importance to the welfars of this colony, particularly at the present time in view of the serious decline in prices obtainable for the staple agricultural products. Already the industry has provided employment and opened out a field for private enterprise when agricultural conditions were unfavourable and the overseas prices of produce low. During 1933 the industry gave employment to a monthly average of 400 to 500 kuropeans, and 9,000 to 10,000 non-Europeans, the total wages paid being between £110,000 and £120,000. It is believed that the total expenditure in the kakamega area, which the proposed roads are intended to serve, was in the vicinity of £500,000 for 1933,
- 8. It is unnecessary for me therefore to stress how disastrous it would be to the Colony's interests if the development and progress of the mining industry were hindered by the lack of

reasonable ...

provision for maintenance. The state of the roads has, however, not been improved. The patching of earth roads in such circumstances is to all intents and purposes a waste of money. In wet weather the heavy traffic speedily reduces the surface to a quagmire, and vehicles which on a well constructed road would be able to make the double journey between Kisumu and Piccadilly Circus without difficulty in a few hours, may take as much as two days for a single journey on the road in its present state. The position is rapidly becoming werse and the only practical solution of the difficulty is to undertake the complete reconstruction of the roads as early as possible.

- 7. I regard the development of the mining industry as of the greatest importance to the welfare of this Jolony, particularly at the present time in view of the serious decline in prices obtainable for the staple agricultural products. Already the industry has provided employment and opened out a field for private enterprise when agricultural conditions were unfavourable and the overseas prices of produce low. During 1933 the industry gave employment to a monthly average of 400 to 500 Europeans, and 9,000 to 10,000 non-Europeans, the total wages paid being between £110,000 and £120,000. It is believed that the total expenditure in the Eukamaga area, which the proposed roads are intended to serve, was in the vicinity of £300,000 for 1933.
- S. It is unnecessary for me therefore to stress how disastrous it would be to the Colony's interests if the development and progress of the mining industry were hindered by the lack of reasonable...

reasonable facilities for transport and communication, and since this appears inevitable unless funds can be provided to undertake the reconstruction of the roads at an early date, I trust that you may find yourself able to give the strongest possible support to the application for assistance from the colonial nevelopment sund by means of a loan of the necessary funds for this purpose.

9. The subject of the second application is for the grant of a loan of £35,000 on similar terms to reconstruct a road essential to the development of another of the Colony's most promising industries. This road connects the large kericho tea estates with the railway at Lumbwa, and has been the subject of a previous despatch, No. 133 of the 23rd rebruary, 1933 when your approval was sought to an arrangement by which the kenya Tea Growers' Association undertook the work of repairing and maintaining this road: the sum of £1,700 peing handed over to the Association by Government for this purpose.

Companies would be able with a larger staff than the Public works Department could employ, to make this read an all-weather communication between meriche and the railway. Unfortunately this hope has not been realised.

Unsuitable soil, heavy rainfall and the other factors which necessitate recourse to capital expenditure for the reconstruction of the roads in the Kakamega Mining Area, also operate in this

district ...

No. 1.

district, and it is now apparent that continued heavy expenditure on surface repairs is uneconomical and wasteful, and that nothing short of the laying down or a solid foundation will surfice to make this road passable in all weathers.

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11. The Tea Industry in the Kericho district consists of sine separate estates, comprising some 12,000 acres under tea and representing a capital of These estates employ approximately £1,350,000. 9,000 natives besides 50 Europeans and it is estimated that they will export along this road some 3,000 tens of ten and import foodstuffs, factory esterial, tea chests and other sundries to a total of 10,020 tone during 1835, When the estates reach naturity it is anticipated that a much greater volume of traffic will be borne on the road than at present. In the past the road has been impassable for as long ks at a time, with the result that when respensed as much as half a million lbs. tea has been released suddenly on a road already

receive your approval and support.

12. The details of the proposals for reconstruction which will be undertaken when funds are available are contained in the enclosed questionnaire. It will be seen that of the sum of £35,000 applied for, it is estimated that an expenditure of £7,500 will be incurred in Great Eritain.

13. In conclusion I desire to represent as strongly as possible that the early construction of the roads to which both applications relate, is material to the success of the Colony's efforts to recover a favourable balance of trade. The traffic which these roads will have to carry in connection with the development of these new industries will be so vastly in excess of the normal traffic carried in the ordinary course of trade and commerce, for which earth and murrum roads of the normal standard of construction throughout the Colony are reasonably adequate, that the expenditure necessary for their construction is quite beyond the resources of the Colony's recurrent revenue. It therefore becomes necessary to look to some other source for the provision of funds. This view is fully shared by my Executive Council and you will observe from the Minutes quoted in paragraph 4 above that I have been advised, in the event of either of the applications being refused by the Colonial Bevelopment Advisory Committee, to seek your sanction to obtain advances

of the sums required from the Grown Agents in anticipation of the raising of a loan. I sincerely hope that the occasion will not arise and that with your support assistance from the Golonial Development Fund may be forthcoming.

14. In view of the fact that the industries in whose interests these applications are made will when fully developed prove very remunerative to Government in Moyalties, Excise Duty and in many forms of indirect revenue, I have not thought it right to ask for a free grant or for a grant free of interest. What I am asking for is a loan at a moderate rate of interest and for repayment of interest to be delayed for a period of 5 years, by which time the profits realized by Government from the industries should more than balance the interest and sinking fund on the loans. Should, however, assistance of the nature desired be: not forthcoming, I trust that having regard to the importance of assisting the development of the mining and tem industries, which, as I have already indicated, hold out prospects of being amongst the Gelony's most valuable assets, you will see your way to authorize the Grown Agents to sanction advances to the necessary extent.

I have the honour to be.

Your most obedient, humble bervant,

N. Fry

BRIGADIER-GENERAL.

GOVERNOR.

## TI W.I.

Description of scheme, stating its objects and advantages, together with any plan or specification that may be available.

The construction of roads to provide essential communication between mining areas and their bases as follows: -

## KAKAMBGA

Piccadilly Circus to Kisumu. Piccadilly Circus towards Butere. £10,000.

## LOTGORIEN AREA

Lolgories to Mibers Bay.

£ 4.000.

The construction of a road to provide essential all weather communication between the rapidly developing mining area centred upon the point known as Fiecacilly Circus and Kisumu, 31 miles distant. the existing track to which is entirely inadequate for the traffic using it. And also the construction the roat from the same point for seven miles towards Butere (20 miles distant) the railhest of the Yala

Butter (20 miles listant) the raille of the Vala branch railway line.

The present lack of safe allowable communication and the clays caused by the bod weather of the existing theory and safe allowed by the bod weather disorganism mining activities whereas he rapid development of this area is all important to his Colony hich will benefit directly from the mineral resources of the faction.

For the development of the soft area and lalgorism centred upon any new soft being built at Muhoru Bay by the Kenya Umand allaways and marbourped and the present scheme provides for the construction in concrete if indices on the road connection the may be read the safe the extreme east of the area-cencernes.

up on account of the mining resources is being held up on account of the lack of roads.

Maps and preliminary specifications are attached.

(2) stimuted total cost.

£64,000.

(3) Larlicet catimated date of commondement.

Detailed estimates will be prepried when provision of funds is approved and on truetion will follow immediately after

approximate estimated data of completion.

18 months from commencement or 21 non-23 from date of provision of funds.

(5). Approximate estimate of allocation o cost between

Local expenditure. Expenditure in Great Britain.

£50,60C. Bitumen, value in Great Fritain £11,000. a 2.300. Freight, etc., on last, sa: ... 500. Plant, say. Steel, say.

What circumstances have prevented and work from being put in hand before ?

Until mining developments in the archs lecuse extensive, the earth tracks of the districts were able to cope with all traffic. It is no no longer possible to maintain reasonable communication with the funds available and the Colony is not able to fin nee the present schemes from its own revenue or loan resources.

Proposed method of financing capital expenditure contemplated. State what sum, if any, is inclin respect of interest during the period of construction, not exceeding five years; the terms any loss; and the suggested method at repayment.

By direct loan from the Colonial Hevelopment Fund.
No sum is the load in respect of interest during the
period of construction. The term of the loan taked for and the suggested method of repayment area

at all tree of interest for five years, thereafter at all repsyable within 20 years; repsyments to be made by annuittee storting in the sixth year from the date of issue and terminating in the twentieth year.

(8) The adventages to be derived, and the siditional yearly not revonue estimated to be car ... result of the proposed expenditure.

The direct advantages of the school I development of the mining inquetry ... increase in output and royaltics term 1 / terrons and the indirect benefit which the prob rice is to mining incustry will confer upon to solo

(9) Have or led stimutes, " stechnical advice, ocen pro-r ?

talled ...

- A. Detailed estimates have not been propared but preliminary estimates have been drawn up by the Fublic Works Department.
- Q. (10) In what form is assistance under the Act desired ?
  - (i) In the case of a loan to be raised by a Colonial Government -

Colonial Government 
(a) Is an advance of interest, in whole or

in part, required;

- (b) Is a free grant of interest, in whole orin part, required;
- (ii) (a) Is a direct loan from the Fund required;
  - (b) Is a direct grant from the Fund required;
- A. (i) Not applicable.
  - (ii) (a) Yes.
- 4. (11) In cases in which the scheme involves the grant of assistance by the Colony to private individuals or companies what is the sccurity for advances?
- A. Not applicable.
- Q. (12) If the application is recommended by the Committee without alteration and approved by the Treasury within two months from the data on which it is due to reach the Colonial Office, what amount do you estimate will be required from the Colonial Development Fund during
  - (a) the current financial year ending 31st March next;
  - (b) the financial year ending 31st March, 1936. (c) the financial year ending 31st March, 1937.
- · (a) £2,000.
  - (b) £30,000.
  - (c) £32,000.

Detailed estimates have not been propared but proliminary estimates have been drawn up by the Fublic Works Department.

MEDING: - E

- (10) In what form is assistance under the act desired ?
  - (i) In the case of a loan to be raised by a Golonial Government (a) Is an advance of interest, in whole or in part, required:
    - (b) Is a free grant of interest, in whole or in part, required:
  - (ii) (a) Is a direct loan from the Fund required;
    - (b) Is a direct grant from the Fund required;
- (i) Not applicable.
  - (11) (a) Yes.
- (11) In cases in which the scheme involves the grant of assistance by the Colony to private individuals or companies what is the security for dvances?
- A. Not applicable.
- Q. (12) If the application is recommended by the Committee without alteration and approved by the Treasury within two months from the date on which it is due to reach the Colonial Office, what amount do you estimate will be required from the Colonial Development Fund during
  - (a) the current financial year ending 3lst Merch next;
  - the financial year ending 31st Earch, 1936.
     the financial year ending 31st Earch, 1937.
- (a) £2,000.
  - (b) £30,000.
  - (c) £32,000.

BRIDE PRELIMINARY SPECIFICATION

CO STRUCTION

OF ROADS.
KISUMU - PICCADILLY CIRCUS.
PICCADILLY CIRCUS-BUTIRE.

GENERAL. 1. If the application for a grant from the Colonial Development Fund is approved, a survey will be made and detailed estimates prepared. There drawings are referred to they are those to be executed after the survey has been made.

2. For three miles out of Risumu the existing road will have asphalt strips, in accordance with the Specification therefor, inset after regrading and reforming the surface to remove corrugations.

From three miles out of Kisumu and from Piccadilly Circus towards Butere, the general construction is an asphalt strip road in a water bound macadam road on a hand packed foundation 15 feet wide. On steep gradients and on curves of lass than 500 feet radius, of where visibility is less than 400 feet, asphalt penetration macadam will replace the water bound macadam over the whole width of road. Where the sub-grade is suitable, the hand packed foundation will be omitted and the road made up of 8" consolidated macadam in which the asphalt strips will be inset.

circular with a minimum radius of 300 reet where possible, and a maximum superelevation of 1" per foot of width.

#### FORMATION.

5. The formation will be 21 feet wide in cuttings and 25 feet wide on embankment and otherwise in accordance with the approved type sections and as described in the Public Torks Department Standing Tener 1 Specifications, Section III, Clauses 3 to 14 inclusive nd 56.

#### DRAINAGE.

6. Culverts as shown on plans will be constructed in accordance with type drawings indicated thereon. Generally they will be of concrete pipe construction but such existing corrugated from culverts, as it so indicated on the plans, will be lengthened to the full width required and completely surrounced with six incress of concrete.

1. Existing surface drains will be modified as indicated on the plans and sections in decordance with modifications to the existing road.

## HAND PACKED

6. Hand packed foundations will be 9" thick when consolidated and otherwise in accordance with Public Works Department Standing General Specification, Section III, Clauses 5, 56, 57, 58 and 62.

ASPHALT 1 ACADAN PENETRATION). 9.

9. The pregared roundation in dease to 4 inches of approved stone, clean and inclining at, broken to pass a 2%" ring and be retail a on a 1" ring, and the fragments shall be as cubical a possible. The layer will be rolled lightly until the scone commences to lock when, the layer being dry throw hout its entire depth, Spramex (penetration "100") will be youred thereon at the rate of 1 8 gallons per square yard, at 350° to 380° F, by means of hand pouri cane. Immediately after the application of Immediately after the application of shout and while it is still warm, the surface will be liked with a to 1" keystone at the rate of 1 cubic and per 50-60 square yards. The keystone will be a quarity which will not crush under the rate of 1 cubic and per 50-60 square yards. will not crueb under the roller, and small be quite dry and free from dust.

Inmediately after the application of the keystone, the surface will be thoroughly consolidated by rolling with a roller of not less than 5 tons weight. Rolling will commence longitudinally at the sides and proceed towards the grown each successive trip overlapping. Diagonal and transverse rolling will be carried out when possible on the completion of the longitudinal rolling.

excess chippings will be swept of f and a real coat of Spramex '100" applied at a temperature of 350° to 380° F. At the rate of 1 gallon to 2-3 square verds, as may be directed, according to the openness or denseness of the grouted surface. While the bitumen is still harm the surface will be binded with clean, Try, and stone to b" chippings, free from cust at the rate of 1 cubic yard to 80-100 square yards, the surface being then lightly rolled and back rolled the 64 fellowing, this being done in the bottest part of the do". being done in the nottest part of the day.

ASPHALT STRIP 12.

The sub-grade will be prepare and a layer of CONSTRUCTION macadam epread exactly as for an asphalt macadam road ON HAND PACKEDUP to a point where the surface is read for grouting. FOUNDATION, Grouting will, however, be contined t to atriba 2 feet wide equidistant from the centre line with their centres at 4 feet 9 inches apert. The successiva treatment to the strips with keystone all be exactly as specified for asphalt mecadem but for the rest of the road chippings or chipping and selected binding material, as directed, will be rolled in as for the madedam specified in paragraph 14.

> 13. The seal coat as specified for sphalt macadam will be applied to the whole of the controportion including the asphalt strips.

ASPHALT STRIP 14. FOUNDATION.

The sub-grade will be propert se for the hand CONSTRUCTION packed foundation and will be spread ith broken stone WITHOUT HAND varying in a uge from " to 2" to a casth of 3%". This SPHALT LACADAL PENETRATION). 9.

9. The prepared roumation in 4 inches of approved stone, clean aux. broken to pass a 24" ring and be retail on a l'ring, and the fragments shall be as cubical spossible. The layer will be rolled lightly until the stone commences to lock when, the layer being dry throw hout its entire depth, Spramex (penetration \*100") will be coursed thereon at the rate of 1 18 gallons per square year, at 350° to 380° F, by means of hand pouri Immediately after the application o. rout and nile it is still warm, the surface will li es with to 1" keystone at the rate of 1 cubic ra per 50-60 square yards. The keystone will be a . uality which will not crush under the roller, and small be quite dry and free from dust.

Immediately after the application of the keystone, the surface will be thoroughly consolidated by rolling with a roller of not less than a tons weight. Rolling will commence longitudinally at the sides and proceed towards the grown each successive trip overlapping. Diagonal and transverse rolling will be carried out when possible on the completion of the longitudinal rolling.

After complete consolidation has been effected excess chippings will be swept of f and a Boal coat of Spramex \*100" applied at a temperature of 3500 to 3800 of Spranex 100 applied at a temperature of 300% to 380%. It is not at 1 gallow to 2-3 square yards, as may be directed, according to the open-see of debeness of the grouted surface. While the bitumen is still warm the surface will be blinded with clean, Try, hard stone in the chippings, free from cust at the rate of 1 cubic yard to 80-100 square yards, the surface thing then highly rolled and back rolled the factorism, this hairs done in the pottern part of the day. being done in the nottest part of the

STRIP 12.

The sub-grade will be prograd CONSTRUCTION macadam spread exactly as for an aspecial mecadam road CONSTRUCTION macadam spread exactly as for an as lacked am road ON HAND PACKEDUP to a point where the surface lerged lor grouting. FOUNDATION.

Grouting will, however, be confined to stript 2 feet wide equidistant from the centre line with their centres at 4 feet 9 inches spart. The Luccessiva treatment to the stript with keystome all be exactly as specified for as half macadam but for a rest of the road chipping or chipping and selected binding material, as directed, will be rolled in as for the macadam specified in paragraph 14.

> The seal coat as specified for appealt macader. will be applied to the whole of the contr. portion including the asphalt strips.

ASPHALT STRIP 14. CIAH TUOHTIV PACKED FOUNDATION.

The sub-grade will be propert as for the hand CONSTRUCTION packed foundation and will be spread it broken stone varying in a wage from " to 2" to a cas wh of 32". This will ...

will be well rolled with a roller of not less than 8 weight uptil the stones shall have fitted themselves closely together without fracture. A binder of fine screenings of the same stone shall then be spread evenly over the course and brushed in dry, and rolling shall proceed until no more will go in. A second layer of similar thickness will be similarly rolled and blinded after which a third layer to bring the finished consolidated thickness to 8 inches will be laid. Rolling will be carried on until the whole is thoroughly compacted when blinding as before will be brushed in until no more will go in dry. Water will then be applied until the stones are saturated and the rolling continued whilst the blinding is formed into a grout by the ction of the roller and brushing and until the grout has filled all the voids.

15. After the road has dried out, two trenches will be excavated 24 inches wide and 3 inches deep, such that their centre lines are four feet nine inches apart and equidistant from the centre line of the road, care being taken that the sides of the trenches are as true and square as possible.

16. Stone broken to pass 22 arin no be retained on a 1" ring will be laid in the trenches to the thickness required to finish to the true cross section of the road after consolidation. The layer is then lightly rolled to produce a compact and true surface and suitably sized stones are inserted by hand clong the edges of the trenches and carefully wedged into place and compacted by rammer. Spremex "ICC" penetration is poured on the ballest at a temperature of 350° to 380° F., at the rate of 1'8 gallons per square yard. Immediately after grouting are to a keystone is spread at the trenches rolled to complete consolidation with a 6 ton roller.

GH our

will be well rolled with a roller of not less than 8 tons weight ustil the stones shall have filted themselves closely together without fracture. A binder of fine screenings of the same stone shall then be spread evenly ever the course and brushed in dry, and rolling shall proceed until no more will go in. A second leyer of similar thickness will be similarly rolled and blinded after which a third layer to bring the finished consolidated thickness to 8 inches will be laid. Rolling will be carried on until the whole is thoroughly compacted when blinding as before will be brushed in until no more will go in dry. Water will then be applied until the stones are saturated and the rolling continued whilst the blinding is formed into a grout by the oction of the roller and brushing and until the grout has filled all the voids.

15. After the road has dried out, two trenches will be excavated 24 inches wide and 3 inches deep, such that their centre lines are four feet nine inches apart and equidistant from the centre line of the road, care being taken that the sides of the trenches are as true and square as possible.

16. Stone broken to pass 22 from the be retained on a 1% ring will be laid in the trenches to the thickness required to finish to the true cross section of the road after consolidation. The layer 1s true lightly rolled to produce a compact and true surface and suitably sized stones are inserted by hand along the cases of the trenches and carefully weaged into 11 c and compacted by rammer. Spremex \*1((\*) penetration is poured on the ballest at a temperature of 350 to 380 fr. at the rate of 1/8 gallons per square yard. Immediately after grouting 2 to 2 keystone is spread at the rate of 1 oubic yard to 60 square yards, and the frenches rolled to complete consolidation with 1 frenches rolled.

GRE,

Sal Street

# BRIEF PRELIMINARY SPECIFICATION POR THE CONSTRUCTION OF A ROAD FROM MUHORU BAY TO LOIGORIEN.

A reconnaisance survey has been made and data obtained from which detailed drawings can be prepared for the various bridges required.

The work proposed consists of the clearing, grubbing and essential drainage to give dry weather. communication between the bridges which will be generally of the low level type submersible in flaces. They will be built with concrete piers and abutments, and with reinforced concrete slab deaks to Fublic. Works Department standard type drawings.

### CLONIAL DEVELOPMENT FUND.

### QUESTICNNAIRE.

(1) Description of scheme, stating its objects and advantagee, together with any plan or specification that may be available.

The construction of a road from Lumbua on the kenya and Uganda Reilway to Kericho, the base of an important ten producing area. This road was excluded from participation in the agreeme for Feeder Road Construction fluenced from Loan Funds in 1928 as a branch railway to Kericho was contemplated at that time. The proposal for a branch railway was, however, not proceeded with, and the present scheme will provide essential allowes the roommunication, thereby preventing the disorganisation attendant upon the congestion of states of requition attendant upon the congestion of stocks of manufactured tea on the estates and shortage of food supplies for the large number of labourers employed in the district which occurs whenever the existing road become impassable during rains.

Preliminary specification attached

(2) Estimated total cost.

£35,000,

(3) Earliest estimated date of commercement.

Detailed estimates will be prepared when the prevision of funds is approved, and construction will follow immediately after.

Approximate estimated date of completion.

12 months from commencement or 14 months from date of provision of funda.

Approximate catimate of allocations of cost between (a) Loui Lexpenditure.

a) 627,000 b) hitumes, value in Great Britain 20,000. Treight, atc. on last, asy 51,200. Plant, say

(6) What circumstances have prevented work from being put in ' and before ?

Since the scheme for a branch railwa' was abandoned the Colony has not been able to finance of my improved road construction from its own revenue or loan resources.

7) Proposed

## FRIME PENDING BY SENCIFICATION ( CONUTINUOTIEN OF ROAD (FROM LAMBUA TO M FIGHO.

GENERAL.

If the application for a grant from the Colonial Development Fund is approved, a survey will be made and detailed estimates prepared. Where drawings are referred to the are those to be executed after the survey has been made.

2. For four miles out of Lumbra the existing road will be regraded and reformed and a hand-packed stone foundation 15' wide and 9" thick, when consolidated, will be laid, on which will be formed an asphalt macadam wearing surface for the full width as hereinafter specified.

From four miles out of Lumowa the general construction will be an asphalt strip road in a water-bound macadam road on a hand-packed foundation 15 feet wide. On steer gradients and on curves of less than 500 feet radius, or where visibility is less than 400 feet, asphalt penetration micadam will replace the water-bound macadam over the whole width of road. There the sub-grade is suitable, the hand-packed foundation will be omitted and the road made up of 8" consolidated malcadam in which the asphalt strips will be inset.

Gurves will be partly transitional and partly circular with a minimum radius of 300 feet where possible, and a maximum superelevation of 1" per foot of width.

FORMATICN. . 5.

The formation will be 21 feet wide in cuttings and 25 feet wide on embankment and otherwise in accordance with the approved type sections and as described in the Fublic vorka Department Standing General Specifications, Section III, Clauses 3 to 14 inclusive and 56.

DRAINAGE.

Culverts as shown on plans will be constructed in accordance with type grawings indicated thereon. Generally they will be as concrete pipe construction but such existing corrulated iron culverts, as are so indicated on the plans, will be lengthened to the full width required and completely surrounded with six inches of concrete.

Existing surface drains will be modified as indicated on the plans and sections in accordance with the modifications to the existing road.

HAND-PACKED

. Hand-packed foundations will be 9" thick FOUNDATIONS, when consolidated and otherwise in accordance with Public orks Department Standing General Specification, Section III, Clauses 55, 56, 57, 58 and 62.

ASPHALT MACADAM (PENETRATION).

with a inches of approved stone, clean and free from dust, broken to pass a 2th ring and be retained on a 1th ring, and the fragments shall be as cubical as possible. The layer will be rolled lightly until the stone commences to lock when, the layer being dry throughout its entire depth, Spramex (penetration "100") will be poured thereon at the rate of 148 gallons per square yard, at 350 to 380° F. by means of hand pouring cans. Immediately after the application of the grout and while it is still warm, the surface will be blinded with it to 1" keystone at the rate of 1 cubic yard per 50-60 square yards. The keystone will be of a quality which will not crush under the roller, and shall be quite dry and free from dust.

10. Immediately after the application of the keystone, the surface will be thoroughly consolidated by rolling with a roller of not less than 6 tons weight. Rolling will commence longitudinally at the sides and proceed towards the crown, each successive trip overlapping. Diagonal and transverse rolling will be carried out when possible on the completion of the longitudinal rolling.

11. After complete consolidation has been effected excess chippings will be swept off and a seal coat of Spramex "100" applied at a temperature of 350° to 380° F. at the rate of 1 gallon to 2-3 square yards, as may be directed, according to the openness or denseness of the grouted surface. While the bitumen is still warm the surface will be blinded with clean, dry, hard stone i to!" chippings, free from dust at the rate of 1 cubic yard to 80-100 square yards, the surface being then lightly rolled and back rolled the day following, this being done in the hottest part of the day.

CONSTRUCTION ON HAND-PACKED FOUNDATION. 12. The sub-grade will be prepared and a layer of macadam spread exactly as for an asphalt macadam road up to the point where the surface is ready for grouting. Grouting will, however, be confined to two strips 2 feet wide equidistant from the centre line and with their centres at 4 feet 9 inches apart. The successive treatment to the strips with keystone will be exactly as specified for asphalt macadam, but for the rest of the road chippings or chipping and selected binding material, as directed, will be rolled in as for the macadam specified in paragraph 14.

ASPHALT STRIP CONSTRUCTION WITHOUT HAND-PACKED FOUNDATION. 13. The seal coat as specified for asphalt macadam will be applied to the whole of the centre portion including the asphalt strips.

14. The sub-grade will be prepared as for the hand-packed foundation and will be spread with broken stone varying in gauge from " to 2" to a depth of 31". This will be well rolled with a depth of 32". This will be well rolled with a roller of not less than 8 tons weight until the stones shall have fitted themselves closely together without fracture. A binder of fine screenings of the same stone shall then be spread evenly over the course and brushed in dry, and rolling shall proceed until no more will go in. A second layer of smilar thickness will be similarly rolled and blinded after which a third layer to bring the finished consolidated thickness to 8 inches will be laid. Rolling will be carried on until the whole is thoroughly compacted when blinding as before will be brushed in until no more will go in dry. Water will then be applied until the stones are saturated and the rolling continued whilst the blinding is formed into a grout by the action of the roller and brushing and until the grout has filled all the voids.

15. After the road has dried out, two trenches will be excavated 24 inches wide and 3 inches deep, such that their centre lines are four feet nine inches apart and equidistant from the centre line of the road, care being taken that the sides of the trenches are as true and square as possible.

16. Stone broken to pass a 2½ ring and be retained on a 1 ring will be laid in the trenches to the thickness required to finish to the true or oss section of the road after consolidation. The layer is then lightly rolled to produce a compact and true surface and suitably sized stones are inserted by hand along the edges of the trenches and carefully wedged into place and compacted by rammer. Spramex \*100° penetration is poured on the ballast at a temperature of 350° to 380° F. at the rate of 1 1/8 gallons per square yard. Immediately after grouting to ½ keystone is apread at the rate of 1 qubic yard to 60 square yards, and the trenches rolled to complete consolidation with a 6 ton roller.



