

In 1/400 Abobles 22. 11 35 to get on present position regarding the new third close 22 4 38 Clearly the CA. are doing everything from the to get the coaches delivered ? No need to tell quickly. he de tentre muces he arks for factor into the Mya comme will be as be entent of in later alonely to 10 1 16 Languar SI (1/2 9) Apr 16 MAT 1958

Mai considerazionea Mai sociatazione ne visa Derrori ningina sociativa concentrali Per er regione principalizza cone visa pre er regione dell'accompanione cone visa

Acceptance of the second

Face 1

LOWBON EW.

2200 April 1930.

I have the honour to scangeled; the receipt of

copies of correspondence with the High Commissioner for Transport, Kenya - Ugapda, and a copy of a letter to Mr. V. La 7. Maintee, M.P. on the subject of third class travelling conditions on the Kenya-Ugapda Dailway.

The High Commissioner, in persurem these or his letter of the 25th Marchin states that new third clean carriages were ordered as long ago as October, 1935, but this is not quite correct. In october, 1935, we received an indent for six third class caprings and five other types of carriages and vane, and we were requested to submit drawings to the Railway Administration showing the types of vehicles to supported. In January, 1936, we forwarded diagrams of the proposed vehicles and a long report dealing with the design of the new stock. In May, Jane and September, 1936, we received letters from the General Manager commenting on our proposals and, in November 1936, we sent a further long report to the General Manager dealing with the proposed modifications to our signs, but a livere fater we received a further letter submitting a new design for third class carriages. March, 1937, we again wrote to the General Manager enclosing copies of the specifications we had issued to tenderers including revised diagrams showing the arrangement or the

The Under Secretary of State, Colonial Office,

1.

/vehicles

JWS.

Therefore from the content of the co

The contractors undersee to commonce delivery in July, 1938, and to continue at the rate of two vehicles per week but we are straid that owing to materize or work the contractors will not be able to comply with the delivery promised. The comenes are of an entirely how design and involve the preparation of a number of frawings which have to be submitted to us for approval. It is in the Brawing Offices of rolling stock builders that the greatest convestion has occurred in recent months and there is doubt that debey has occurred in the completion of cont not only for ourseless but also for other buyers, due to the in lity of the making office staff to deal-groupsly with the large number of contracts which have been placed in recent years. The design for the third lass cames involves a new welded type of bogie and wellere una most the contractors earlier proposals. Three separate designs have been submitted to us for emproval and the last design received will, we hope, be approved at an early date. The firm should then be in a position to proceed with the

manufacture of the vehicles without further delay.

- the milat we will do whatever may be possible to press for early delivery, it must be recognised that if special efforts are made to expedite the delivery in the case of one contract, pelay may result in the case of other contracts which the firm may be dealing with and which include a large number to our order. It will, however, do matter in possible with regard to press.
- In the correspondence which accompanies rous letter reference is made to the massician by character at existing third class country. The new occasions will be by moder design and will be divided into three portions, one for women, one for africans and one for Asistica, and each division will have separate sutrances and levetory accommodation. The vehicles should be superior to anything now existing on the Kenya and Uganda Railway and equal in comfort to any third class coaches now running on Colphial railways.

I have the honour to be,

Your obedient Servant,

for Grown Agents.

Conting-spice of . 30. 36179/29/38 ". Jame 6, 4 ownibe Street. XSOC Business 7 4 K Sir / Sharkburgh Lamieto- D to you com of correspondence water ton a series subject of third-claus, travelling on the kenya-Tempa gail way and the onquire, with reference to per es the desposed stop the dight Commissioner whether any ste usefully be taken to accelerate 2 drafts. FURTHER ACTION to High Commissioner I'am, eta. Au albane 4 (*601-250) W1. 13852 47 10,000 6/37 T 6 (81832-250) W1. 52179-71 20,000 da/27 J

C.O.

Costley-white. 5/4.38.

38179/29/30.

Secretary of State's signature

April, 1936s

Dear Me falle

ird-olass trevelling conditions on

the postsion to that over-crowding of third-class carriages sometimes occurs on certain longdistance trains. This is due partly to the amount of personal belongings taken by natives into the compartments and partly to the impossibility of obtaining prior information as to the number of native bassenges no intend travelling; consequently, when

large numbers of passengers arrive

that Sufficient accommodation is available.

The circumstances the only alternative

To over-crowding is a limitation in the

Tune assences allowed on a train

difficulty without levelors conveniences
have and to be maintained in service to
Realize
most trained demands, but the Administration
has already placed orders for Vehicles to
replace them. Selivery of these new
vehicles, some of which were ordered as
long ago as October, 1935, has, however,
been seriously delayed and the first
instalment is unlikely to be available
until-next year. These vehicles will
contain adequate layetory accommodation:

said than some temporary ever-oromany.

until next year. These vehicles will contain edequate levetory accommodation.

I am naving inquiries made the commodation the crown agents for the Colonies as to the

pessibility

solutions, of most contains their

amenities at etations these are, of source, cardens for the use of sourcement using the averages and not for the use of the cardens. The transfer arrival of the cardens that use will largely disappear.

third-clear passencers are observed by these services are continually being reviewed and every endeavour has been made to ensure a reasonable standard of accommodation for this class of traffic. One of the continual of the complete to the fortunated with is the almost complete lack as inovieues.

of hygiene and of ordinary sanitary

behaviour

"Ther-too Wt 19032-47 td,000 0/5" IS. 406

Mr.
Ser H. Mroom
Ser G. Tomphone
Ser C. Rodenson
Ser J. Stantiscope
Norma, U.S. et S.
Pally, U.S. et S.

PURTHER ACTION.

Griff States
Sir C. States
Sir J. States
Sir

delivers of these leavelers

mith regard to the senitar amenities at atotions, these are, of course, designed for the use of acceptance with use of the atstrong and not for intruse of the atstrong arrival of the assistant during through a story of the assistant with the atstrong and the assistant with the atstrong during the assistant and the assistant are during the assistant are during the assistant and the assistant are during the assistant and the assistant are during the assistant and the assistant are during the

third-close passengers are conveyed by these services are continually being reviewed and every endeavour has been sade to ensure a reasonable attendard of decommodation for this class of traffic. One of the difficulties to be intended with is the almost complete lack is incyledge of hygiene and of ordinary sanitary.

FURTHER ACTION.

unsophisticeted type of labourer.

Let every effort is being made to
encourage distilluration, school teachers,
and others to excreme this brouble by
quitable education and instruction.

Circuly much improvement is noticeable.

Commencer with

TRANSFORT HYA-UGANDA

THE FIGH COMMISSIONER FOR TRANSPOR GOVERNMENT HOUSE. NAIROSI.

15 March, 1938.

81r.

I have the honour to acknowledge the receipt of your despatch, Transport No. 12, of the 7th of March, 1858 and to offer the following observations on the points raised by Mr. V. La T. Holleston, M.P., in repart to the conditions of third-class travelling on the Kenya and Uganda Railways:-

- Overcrowding of third-class bassengers sometimes occurs on certain long-distance trains. This is due partly to the amount of personal belongings taken by natives inso the compartments, and partly to the impossibility of obtaining prior information as to the number of native passengers who intend travelling; consequently, when large numbers turn up unexpectedly, it is sometimes impossible to make special arrangements for ensuring that sufficient accommodation is In the circumstances, the only alternative to available. overcrowding is a limitation in the number of passengers allowed on a train, a course which would cause greater hardship than some temporary overcrowdings
- A sumber of very old third-class carriages, without lavatory conveniences, have had to be maintained in service to meet traffic demands, but the Administration has already placed orders for vehicles to replace these. Delivery of these new vehicles, some of which were ordered as long ago as October, 1955, has, however, been seriously delayed, for reasons which will be understood, and the first instalment is unlikely to be wailable until next year. These vehicles

THE RIGHT HONOURABLE

W. G. A. ORMSBY CORE, W.P.
SECRETARY OF STATE FOR THE COLONISS,
DOWNING STREET, S.W.T.

will/

will contain adequate lavatory accommodation. hardly add that any steps that you may find it possible to take to ensure accelerated delivery of these vehicles and other urgently required equipment will be very greatly appreciated.

- With regard to the conitory amounties at stations, those are, of course, designed for the use of passed haing the stations, and not for the use of these pas through on treins. 960 the arrival of the additional vehicles, the necessity for the use of sayou. lateines will largely disappear?
- 5. The conditions under which third-class passengers are convered by these services are continually being reviewed, and every endeavour is being made to ensure a reasonable standard of accommodation for this class of traffic.
- One of the major difficulties to be contended with is the almost complete lack of a knowledge of hygiene and ordinary sanitary behaviour on the part of the more unsophisticated type of labourer, but every effort is made to encourage missionaries, schoolteachers and others to overcome this trouble by suitable education and instruction. already much improvement is noticeable in the standard of the third-class passenger travelling over the system.

I have the honour to be.

Your most obedient, humble servant

Brecke- Popham

39 179/13/32 Sir C. Hottomley Sir J. Shuckburgh (Signed) W . MSBY " FURTHER ACTION.

36179/38 P.Q.

C 0.

M. Paskin

Mr. Dave.

SH. Harri

Se C. Pentine

-

St. During

Paris U.S. 45.

-

I am not store that

sendition with as biggs multipled

the Henomrable Member waist on the

Kenye and Ugonda Hailways, I am

appever asking the High Commissioher

for Transport to furnish a report on

tie milities ...

CONTRACTOR

Rednesday 13pt Politicary

PURTHER ACTION.

4的以代码的15年27年27日

The same in these same and the same

HOUSE OF COMMONS

the serious programming of the third class carriages on the Kenya and Uganda overcrowding in the immediate feature; whether he is aware of the dirty and dilapidated condition of the third-class carriages, and, of the lack of a reasonable standard of sanitary and other amenities at the stopping places; and whether he will take steps to have more satisfactory conditions provided.

Rednanday 25rd February.

DRAL REDLY

the only antimation in these fronts which is how the in propagation of the state of the are in propagation of the state of

Clongrule 17/2

V-17.02

No. 38/79/30
SUBJECT CO 533/495

Kenya Uganan Railway and Harbours

belong for it aligning in regioning min but of walny

between Navobe and Nahum

Subsequent

No. 3 8 / 7 9/30
SUBJECT. CO 533/495

Kenya . Myanda Railway and Harbours

belong for a algoring in segregary made by free by

Subsequent

05065 700/13 5,000 7/46 N.M.T.

A be thansport 105 fropeant to carly and segurito early approved of propeant to realize and regards main time of ply between narrots and rature submitteer so a desirable measure to reduce answer correct working and standards to certain applacement works. These bold browners Retent

This is a proposal for extensive reconstruction work on the Railway between Rairobi and Nakuru involving in places the building of a completely new line. The groat cost approaches left a million pounds, of wilch only \$250,000 ode 25 to 1000 of 25 to 1000

The technical considerations involved cannot usefully be discussed here; nor do there appear to be any difficulties requiring consideration other than the question of the finance of the scheme. It is obviously desirable to letethe Railway go forward with proposals which will bring in increased revenue, provided only, of course, that the capital required can be If the proposed method of financing the scheme is accepted, the Colony will have to raise an extra quarter of million in addition to the proposed £1,000,000 doan, consideration of which te proceeding on 38128/38. The High Commissioner asks that approval of the present proposals should be sought from the Treasury independently of and prior to settlement of the £57 million debt question. In No.16 on 38128/38 the question of losn was referred to the Treasury with the suggestion

attacked

that it should be discussed at the same time an the Cot million debt ... The Transury almania erids aids to entere on everyon to beschote parter of a million independently of the larger has that of the proposed \$1,000,000 loant and discussion on that losh and the £5; million debt coesich is being held up until a full exposition of the High Commissioner's views on the debt question in remared. Thus it is not practicable to fall is with the High Commissioner's request for these propert proposate to be mandered fortherth in shtisipation of the settlement of the debt question. A despatch giving the High Commissioner's yless on the deat is, hereter, now shortly to be expected (see paragraph 12 of this daspatch) so no very great delay will be involved in holding these present proposels over for the moment.

Reply that the Secretary of State is prepared to give the proposals his most sympathetic consideration, but that' as they involve an addition to the loss requirements of the Colony which are to discussed with the Trassury at the same time as the for million debt, he is unable to give his medica to the proposale in anticipation of the et of the debt ofestion; explain this this discussion is awaiting the receipt of the despatch promised in paragraph 11 of this despatch; and add that the present proposals are being referred at once to the Treasury in preparation for the general discussion - and to the Treasury accordingly Marriag themand stating that the Secretary of State a planing what was approves the scheme in genem on saw to the Hitch

Clothanie

I am beginning to wonder (and so will the Preasury) whether this is the last of the Kenya loan proposal's. This one at any rate is comparati straight forward and is also urgent.

Mr. Costley-White's minute.

2. The gist of the Him Commissioner's proposal is to expend £445,969 on re-aligning and re-grading the main line between Nairobi and Nakuru, the money to be provided as follows:

Renewals rund Released material

Betterment Fund (from 1937 surplus)

Not Revenue Aggount

Loan (money to be temporarily

242,277

446,009

(There is a discrepancy of £40 here. Presumably the amount to be found from net revenue account should be reduced by that sum) .

- -3. The sconomies which will be effected by this expenditure are shown in para. 5 of the assperch. They are considerable and amount to nearly £8,000 a year irrespective of certain other siventages which are outlined in pare? 6 of the despatch .
- 4. As regards the question of making compensation to land holders detrimentally affected by the divergence of the Rellway, I think that i sealwing to the despeson we might sound a warning

As to the immediate action of cessi, in acree that the immediate may well object to rain with this better any discussions have taken place on the roy cultion test and the other lean proposals At the same lime the work roposed is urrently wanted and recommend that it sending a copy of this respect, with each res.

of the manifest advantages to be derived (here we stress the sequenced animal economies, the caving of the man, ood expenditure on the kingys violucts, and the last that there are sufficient at the constructional staff now available to do the work), the Secretary of State hopes that the Lords Commissioners will agree to his authorizing the inception of the work forthwith, the method of finance being left over for discussion at the September meeting and funds in the meantime being provided by temporary withdrawals from the Renewals Pund. Add that the Secretary of State would be grateful for an early reply.

We should, I think, also refer to the High Commissioner's opinion that it may be necessary to appoint an independent body to investigate the complaints regarding road accese, and say that the Secretary of State assumes that there will be no question of paying large sums as compensation.

- (I cannot hold out much hope that the
 Treasury will agree especially if they have seen
 to-ear's "Times"! but it is, I think, worth trying.)
- We must keep the High Commissioner informed as to the action which is being sken in als matter.

and Vallagin should see the papers on his return

At Down and So Tran Colors

At

26/0/38

2 2 Wardley (ho) (ege 1) so

who has also shown it that pater.

of them hat any comments to offer except to say that the scheme is obviously a sound one and that the scheme is obviously a sound one and that the scheme is obviously a sound one and that the scheme is obviously a sound one and that the scheme is obviously a sound one and that it is proceeded with, just a regardless of well-except that in estimating the saving well-except to the effect that in estimating the saving well-except would be effected by this re-alignment the seneral Manager appears to they omitted to take into account the rate reductions mich will be necessary owing to the shortening of the line. This is, however, a matter of very secondary importance and does not affect the principle).

When the pressure of work I have been made to do this and on mentioning it to Mr. Presstor his other day he agreed that this despatch, together with the yarious papers relating to the Bailway and lolony finances, andulu be kept for him to deal with or his grival.

In the meantime, however, I temp you should see in case you have any comments to offer.

21.3.38.

and that the S/S about formally have been justified in saking the Treasur, to accede to the request made by the H Cr:, for immediate consideration of the project. They might, or might not, have agreed; but anyhow it would have been worth trying.

at the moment, however; the position seems to me entirely different to spreak to be on the very a edge of war. If war comes-and it is more than a probability as things stand, evidently—we all those some at least of the ma, r difficulties

and dislocations which will ensue. Materials will be reserved for the purposes; Loour of be diverted to war objects; anipping will be rationed; loans will be won't strictly a dowt; reserve. Everything, everywhere, will be dominated by war requirements. In the edicumstances, it seems to me most improbable that the Treasury will agree here; and I should not send the H Cr's proposals to them, for acceptance at this juncture. If the prospects of sar recede, and we get back to a roul times again, we can no so: it is a count case, obviously, on the merips. But, as things are, I see he reason why a line which has run so ton, write this of liculer disability anguid not continue to bear it for some time longer -- lil we know better where we me, on the dominating rasue of peace or war.

The Loth: September, 1938.

for way like to severally this on the light of the changed soldered Mintern. I understand from the Chymlis Bit they do not report as unparables to prestore of owning a bon on the restor like their in found you of \$350000) though I do not many followed that the line in found you of \$350000 though I do not many followed that the line when the up to sail a former

3 booksed for Railing adversey bounced august 20th 1 20th 198

Registration directed a 30/79/19/31)

Mr. Dave.

This was discussed with the Treasury yesterday and Mr. Hale authorised me to say that Treasury approval can be assumed for the High Commissioner's proposals, including the statled rises and arrangement than in parameter 16 and 11 of Bolt.

to Mr. Hele._

10th November, 1938.

arm

4 to 4. to Surport Let Mag. 11. 17. 3

DENTERNE BROKEN STATIST

16 3 1 Put h

Clow while 24

Mr. Freeston. 10 1

Mr. Dave 11.11

Me

Sti H. Moor

Sir G. Tomlinson.

Sir C. Bottomley.

Sir J. Shuckburgh

Perms. U.S. of S. Party, U.S. of S.

Suretary of State.

DRAFT. conson.

HIGHCOMA NAIROBI.

38179/30/38. Kenya

C.D. 12110v 1/2

11.45 / 38

No. 9

Your despatch 6th August No. 106.

subject to concurrence of Government of Kenya, in addition to next Kenya loan of sum named in paragraph 11.

FURTHER ACTION.

Note of a meeting held at the Treasury on the 9th November, 1935 to consider various questions relating to Kenyal

Principal :

Mr. Freeston
Mr. Walker .
Mr. Boyse
Mr. Thomas

Golonial Office

Hr. Sale Hr. Inch Hr. Jones

E52 millione debt to Exchequer.

Mr. Pression first enquired whether the Treasury accepted the view that the Marility for this isometer.

rested on the Kenya and Uganda railway in view of the Order in Council of 1925.

Mr. Hale agreed that the claim lay primarily against the reliway and he then asked what objections there were in principle to repayment of the debt.

the Colonial Office considered that the debt should be waived. They held that on historical, economic, financial and political grounds (both as regards the territories concerned and the railway) the claim should not be pressed and it was subsequently decided that these arguments should be elaborated and forwarded officially to the Treasury for consideration and submission to higher authority.

Mr. Freeston drew attention particularly to an answer given in the House by Mr. Harcourt in 1914 (copy attached).

had been made by the High Commissioner for Transport that the railway should make a defence contribution of £500,000% to the Exchequer and that this should be regarded as in satisfaction of the debt. He felt some doubt whether this suggestion would commend itself to the Secretary of State

Mr. Hale recalled the Higerian precedent, but each that he doubted whether a defence contribution from a railway was very appropriate. Mr. Walker thought it might be possible for the Colony to mak the payment and take a corresponding receipt from the railway in respect of the railway to that the railway book over from the Colony.

Doubts were expressed as to whether the hai my could affect to may be much as El willion and Mr. Hale said that he would be prepared to recommend acceptance of an effer of £250,000 if such an effer were wide formally the was for the Colonial Office to consider whether such a payment should be directly related to the debt or in the form of an unrelated contribution to defence.

Increased borrowing powers for the Colony.

Mr. Hele agreed that the High Commission should be given authority to spend not exceeding £450,000 on re-aligning and regrading the railway between Nairobl and Nakuru. Of this mammat approximately £242,000 would be met from loan eventually, but until further loan proposals are settled the cost would be met from railway funds.

As regards the Land Bank, Mr. Freeston said that the Colonial Office felt some doubt as to the desirability of increasing the capital of the Bank in present chroumstances, and were not yet in a position to express a view as to whether the proposal to raise £250,000 for the purpose (for which powers exist) should be proceeded that

Mr. Hale said that the Treasury were ready to consider proposals for borrowing for selfliquidating purposes on their merits. His principal difficulty was 1 regard to the loan of 1750,000 which would not be of salf liquidating kind. The works proposed to be financed by this loan were of a kind that ought to be financed in the Colony's budget as extraordinary expenditure, and continued borrowing for such purposes could only lead to increasing emberrousement.

ly never contained sufficient margin to make adequate present for extraordinary expanditure. The programme submitted, he thought, could be pruned, but the Barracks and Beapting at Nairbh were really urgent, and the Mckerere endoment was a definite commitment. These tiems amount to 200,000. The agricultural and roos proposals ought probably to submitted to the These transmitted to the These transmits.

Mr. Hall suggested and Mr. Freeston agreed that the Colonial Office should inform the Treasury of the minimum amount required by Kenya at the moment by way of loan (including the £242,000 for the railway). In the meantime, apart from the railway, Mr. Hale was not in a position to commit the Treasury to approving borrowing by kenya for the purposes in guestion.

Colony's contribution to sinking funds.

Mr. Hale invited attention to the somewhat unusual wording of the Prospectus dealing with the issue of the 6. loan of 55 millions 1946/56, viz. "The principal will be payable at par on the 15th September, 1956 by a sinking fund of not less than 21% per annum". These words would lead an investor to assume that the sinking fund would be full at September 1956. He stressed the necessity for keeping faith with the investor, who would naturally rely on the published prospectus, and in addition to the general.

desirability of making full provision for sinking fun

dr. Walker held that it a Kenya cinking fund were insufficient at the time of redemption of a particular loan, the ultimate security of the investor was the general revenues and assets of senya.

Mr. Freeston offered to seek the views of the Crown Agents on the question relief by the freesers.

HOUSE OF COMMONS

Vol. 61.

23rd April, 1914. (Column 1086)

British East African Protectorate.

and on account of the Uganda Railway; if not, is
the account at the Uganda Railway; if not, is
the account at and between the taxpayer and the beneficiary
in reapect of that undertaking; what is the annual charge
upon the Consolidated or other fund for interest; is
any and, if so, what provides for a sinking pand; and has
does the account in that behalf also stand?

THE SECRETARY OF STATE FOR THE COLONIES

(Mr. Harcourt): Under the provisions of the Ugands Railway Acts, advances up to a total of £5,502,592 have been made from the Consolidated Fund for the purposes of construction and the expenditure out of these advances had amounted to a total of £5,460,294. 8s. 4d. in the period to 31st Parch.

1. Repayment of the advances from the Consolidate Continue to the honor made by instalments of annuities (communities to he honor made by instalments of E319,112 a year, for which provision is made on the Colonial Services Voice repayment has been made by British East Africa in Taspes of these advances, and no such repayment is contemptate under the Acts.

The state of the s

Meeting, (R.A.C. 24.)

Council noted the report of acti n taken on the Minutes of the last me ting, which had been circulated to them.

In connexion with Minute No. 116, Lord Francis Scott stated that he was in Encland when this Minute was passed, but had since had an opportunity of discussing the matter with the Acting Ceneral Manage and was of the opinion that it was not desirable to re-glien untreen High and Makuru, and that a regrading of the present line would result in a considerable saving in capital expenditure and loan charges.

He was also of the opinion that neavy compensation would be necessitated by the proposed re-alignment in which case the cost would be greatly increased. After discussion, Council agreed to recommend that no action be taken until representations have been received on the matter of compensation, in the light of which the question of the re-alignment between Nakuru and Gilgil could be reconsidered.

Registration directed on 38179/19/38 XUF.

W. Surridge. 11 /8/38.

Sir G. Tomii

Sir C. Bottom

Sir 1. Shuckburgi

Perms. U.S. of S.

Party. U.S. of S.

DOWNING STREET.

2 August, 1936

Dear Wardley

In Paskin's absence on bea

to a selection of the second I am sending you a copy of a further

despatch from Kenya, this time from

the High Commissioner for Transport.

regarding the expenditure of nearly

£450,000 (including £242,000 odd from loan) on realigning and regrading the

Railway between Nairobi and Nakaru/

in the of our people who normally

deal with these way

and we shall not therefore be in a position to send you an official letter

for some little time - possibly not

before the September meeting

FURTHER ACTION

In the meantime

meeting

much.

Incidentally, there are two slips in paragraph 10 of the despatch. First £449,969 in the third line should read £45,969 and, secondly, one of the items (I assume net revenue account) is £40 too

(RA) Revonige

a suring second



TRANSPORT KHNYA-UGANDA 10. 105

GOVERNMENT HOUSE,

NAIROBI. KENYA.

brh August . 1938.

Sir.

I have the honour to invite your consideration of a scheme for realigning and regreeing the main line of the Kenya and Umanda Railway between Nairobi and Nakaru, at a cost of approximately £446,000, which has been submitted to me as a desirable measure to reduce the annual cost of working these Railways and as an alternative to certain replacement works which must otherwise shortly be undertune The events which have led up to the proposal are briefly as follows: -

In the 1937 Estimates provision was made for an initial expenditure of £10,000 towards the total estimated cost of £40,000 on replacement by earthworks of certain viaducts in the Kikuyu area. In December, 1936, Sir Joseph Byrne had signified his approval of the expenditure of £1,260 on a survey to discover whether it was possible to effect a remunerative reduction in working costs by shortening the mileage between Gilgil and Nakuru, and early in 1937 it was decided that the scope of the survey should be increased in order to determine the possibility of obtaining an easier and better route which at the same time would obviate the expenditure of the £40,000 on the replacement of the Kikuyu viaducts. The surveys have now been completed, and the estimates and facts adduced by the Chief Engineer have convinced both Sir Philip Witchell and myself of the desirability of undertaking the proposed recenstruction as early as possible.

HE HIGHT HONOURABLE

CLM MACDONALD M. P.

- The Chief Engineer's report, of which copies arenclosed, demonstrates that it is possable to obtain a maximum grade of 1.18% compensated against down loads as compared with the existing maximum uncompensated grades of 2. on the Uplands-Longonot section, 1.5% on the Longonot-Waivasha weetion, and 1.5% on the Gilgil-Nakuru section. The effect of this rograding on the traffic-carrying capacity of the line to admirably illustrated by the diagram marked Sheet No.1 epposite page 7 of the report. (The diagram marked Sheet No. 2 refers to a suggested regrading for uploads, of which brief mention is made on wages 11 and 12 of the report, but to which no further reference will be made in this despatch). Nakuru, the proposed limit of the 1.18 ruling grade is of course the station where trains loaded with the combined traffic of the Kampala and Kisumu lines are made up, and it is from this point therefore that the easier grade would be most effective.
- 4. In addition to the improvements in grade, the proposals involve a shortening of the line by a little over ten miles, as shown below:-
 - 16.97 miles between Uplands and Longonot in place of 18.174 miles
 - 11.75 miles between Longonot and Naivasna in place of 8.924 miles
- 21.67 miles between Gilgil and Nakuru in place of 35.500 miles

rotal 50.37 miles in place of 60.598 miles

The preliminary estimated cost of the total scheme, which is set out at length on pages 5 and 6 or the tabulated details at the back of the report, is £445,969. Of this sum it is proposed that £65,366 should be charged to Renewals Fund.

and £25,878 recovered from released material. Peacing # £356,725 to be regarded, for the purpose of calculating the economic value of the work, as the sum on which should be paid loan charges amounting, at the rate of 6%, to an annual interest payment of £21,405. On the basis of the 1957 traffic, it is anticipated that some £23,655 will be saved in working expenses, plus an eventual reduction in loan charges on wagons and locomotives of £7,28, so that the dear annual gain which it is expected will accrue if the work is undertaken will be in the neighbourhood of £7,980. The detailed calculations on which the above figures are based are set out on pages 5 to 10 of the report, and on the page which is attached to this despatch as Appendix "A".

In addition to the financial advantages set out in the preceding paragraph, the project would render unnecessary the expenditure of £40,000 on the Kikuyu viaducts, work which must be undertaken if the present alignment is to be retained, but which will effect no improvement in running Moreover, the efficiency of the Railway is bound to be enhanced by other working improvements which have not been taken into consideration in estimating the saving of £7,980 per annua, such as the raising of the freight train speed on the Kijabe-Maguga section from 71 to 12 miles per hour, the elimination of much of the shunting which is now necessary to alter loads at "change of grade" stations, the reduction, perhaps even the complete abolition, of the remarshalling at Nairobi of through goods trains from Nakuru and beyond, the removal of the necessity for using "banking engines", and the increased load capacity, which will be equivalent to the present Nairobi-Coast loading.

7. The following extract from the minutes of the Kenya and Uganda Railway Advisory Council, to much the proposal has been referred for advice, is indicative of local opinion on the project:-

"After discussing the scheme put forward, Council agreed generally to the principle as to the desirability of undertaking the work."

The With regard to the allocation of funds, the Acting General Manager stated that the figures given were approximately correct as between the various funds and the Suggestion was that the cost chargeable to capital should come out of the next Kenya Loan, but in the scantise, subject to the approval of the Kenya Government and the Scarptary of State, should be financed from existing balances.

when the also stated that when the final estimate was substitted to Gouncil the amount allocated to the Setterment Fund would be shown in more detail and Council could then, if it so wished, recommend a reallocation.

- put forward be approved, subject to the proviso that more details of the allocation as between capital and betterment be submitted, and also recommended that the scheme with the Administration's proposals for innancing the arpenditure be forwarded to the Secretary of State as soon as possible. Council expressed the view that no more expenditure from Betterment Funds than was absolutely necessary should be incurred.
- "4. Considerable discussion then took place on the question of the Administration's liability to pay special compensation to those people affected by the removal of the railway from the proximity of their land. The Council were of the opinion subject to the verification of the legal aspect that the railway were not liable to pay such special compensation although it was agreed that some expenditure might be justified in providing adequate road access to the new alignment."
- 8. Of the land required for the new alignment, approximately 125 acres are native reserves, but a large proportion of this is on such a steep slope as to be impossible of economic cultivation. A similar area of land would be relinquished but about one-fifth of the land so released would be valualess to peasant cultivators as it would consist of banks and cuttings. It is too early

for me to state with accuracy what return would have to be made to the native reserves, but it appears probable that sufficient Crown land will be available adjoining, the reserves for the Administration to acquire and hand over acre for acre, and I have little doubt but that this problem will prove easy of settlement.

You will observe from the minutes me the Railway Advisory Council which I have quoted in paragraph 7 that consideration has been given to the question of making compensation to landholders detrimentally affected by the disersion of the Railway. I am advised that there is no legal liability to may compensation for possible reduction in land value due to the removal of the line some ten miles further away from certain farms, and the Railway Advisory Council does not recommend that any such compensation should be paid to them, though it does suggest that reasonable road access should be provided from those areas to the new station I find myself nevertheless unable to accept entirely the Council's point of view, and I am of the opinion that it may be necessary to appoint an independent body to investigate complaints when these are received, and to ascertain whether any genuine hardship is being caused. hardship can be removed by the provision of extra roads or whether some other form of compensation is equitable, must be decided on the merits of each case. Any liability in this respect, however, is not likely to be of great importance, for the traffic from the district is at present men'l and is unlikely ever to be very large, since the

major part of the area affected is pastural land.

- which has been made, and on the basis of the provisional estimate of £449,969, it is proposed that the necessary financial provision should be made in this manner:
 - (1) The additional cepital value created as a result of the constructional work to be a charge to capital account and railway loan funds. .. £242,277
 - (2) The replacement cost of non-westing assets, a.g. abandoned earthworks, to be a charge to Betterment Pund (1.e. non-capitalized)£ 79,100
 - (3) The replacement cost of wasting assets, e.g. permanent way faterisis, bringes and buildings, to be allecated as follows:-

Life-expired assets to be a charge to Renewals Fund.

Non-life-expired assets, the proportionate replacement cost in respect of the expired life to be charged to Renewals Fund, the balance being charged to net revenue account, which receives credit for the value of retrieved materials sold.

Renewals Fund
Net Revenue Account

Total

£ 65,366

These amounts will be reduced by £25,878, the value of materials released from viaduots, etc., giving a net total cost of £422,091.

I propose that the additional capital value 11. should be met by a temporary withdrawal of £242,277 from the Renewis Fund, pending the raising of a loan by the Government of Kenya, and subject of course to the concurrence of that Government. As regards the debit to Betterment Fund, in Mr. Ormsby Gore's (now Lord Harlech's) despatch, Transport No. 17 of the 18th of March, 1958, the reservation was made that the allocation of surplus balances for the year 1957 must. be regarded as provisional only pending a decision on the question of the £54 million Thessury advance. Whatever decision may ultimately be taken regarding the repayment of the original cost of the Railway (and I shall be addressing a separate despatch to you on this subject very shortly), the merits of the present proposal are so strong that, in my opinion, it should be undertaken in any eyent. I do urge you, therefore, not to allow consideration of the major question todelay the constructional work now proposed, and I trust that you will be able to persuade the Lords Commissioner's of the Treasury, in view of the profitable nature of the undertaking, to approve the release of £79,100 from the provisional appropriation of the 1937 surplus.

12. I have already mentioned the Kikuyu viaduots which will have to be replaced by earthworks in the near future if the greater scheme is not soon to be undertaken. I desire now to refer to certain other considerations which make it advisable that the work should be started as soon as possible. The regrading of the Uplands Longonot.

I have the honour to be.

Sir,

Your most obedient, humble servant,

HIGH COMMISSIONER

Ukrooke-Popham

EPLANDS - MAKURU HE-ALLOWERY SAVINOS Perking Account. Ingineering Expenses: reduced maintenance expenditure ap a result of the shortening of the life Loconet ive Banning Expenses: Maintenance of Engines and Rolling Stock: Traffie Expenses: reduced renning, etc., expenditure as a regult of the regreding and shortening of the lime, resulting in reduced train miles and ten miles Renevale contributions reduced removals contributions resulting from the shortening of the line and the elimination of viaduots; 18,040 eventual saving in respect of riserval contributions on locametives and vagous value can be bulested as a result of the reduction in train miles and ten miles. THESAL LOAR CHARG ROY REVORUE ACCOUNT. Cost of re-nitement and regredence charge to Removals Fund value of released meterial ... 3,070 64,725

Loon Cherrys - of on 2364,725

Less

Toventual reduction in least charges on lessentives and vacous which can be released in train ables and ion wiles

5,728 15,675

21.408

Not Annual Saving

2 7.900

NOTE:

These savings will assume when the locustives and wagong releases as a result of the re-alignment and regressing, can be utilized to meet increased tracked demands, thus obvieting the necessity for nequiring a corresponding number of locamotives end vagons from Capital

KENYA AND UGANDA RAILWAYS AND HARBOURS

REPORT AND ESTIMATE

ON THE REALIGNMENT AND RECRADING OF THE AIN LINE SETWEN NAIROBL AND NAKURU TO OBTAIN A RULING GRADE OF 1.185 ACAINST DOWN LOADS

ALSO

THE SHORTENING OF THE LINE BY 112 MILES

CHIEF ENGINEER'S OFFICE, K.U.R & H., NAIROBI.

The Hon. General Manager, Kenya & Uganda Railways & Harbours, Nairooi.

Sir.

I have the honour to be,

Your obedient Servant,

CHIEF ENGINEER.

8th April, 1938.

TABLE OF CONTENTS

AFFORT

TABULATED DETAILS.

ESTIMATE

KENYA AND UGANDA RAILWAYS AND HARBOURS.

REPORT

ON THE PRAIL CHARMENT AND REGRADING OF THE MAIN LINE RETWEEN NA ROBI AND MAKURU TO OBTAIN A RULING GRADE OF 1.184 AGAINST DOWN LOADS

THE SHORTENING OF THE LINE BY 118 MILES BETWEEN GILGIL AND NAKURU.

CHIEF ENGINEER'S REPORT

THE ELIMINATION OF ES UNCOUNTED TRADES
AND THE MIDSTITUTE OF LABA COMPANY OF THE MAIN OF THE MAIN INTERPRETATION OF THE SHORTENING OF THE GILGIL - NAKURU
SECTION BY 117 MILES.

History of reductions in ruling grades Coast to Nairobi.

The reduction of gradients between Mombase and Nairobi received attention as early as 190%, twenty diversions being built between 1904 and 1909 on the Mazeras. Mackinnon Road Section. The object of these reductions was to eliminate short lengths of 2% gradient and to replace them with ruling grades of 1.18% against down traffic and 1.5%

Between 1911 and 1916, and again between 1920 and 1921, twenty further eiversions and regardings were constructed between voi and makindu, and, during the relaying of the Mazens - Nairobi Section with 80 lb. rails between 1925 and 1929 the remaining heavy grades were climinated, and finally the whole Section from the Ceast to Mairobi was completed by the reconstruction of the Macupa Macupa and Changamwe and the pirel at Mile 11: In 11, nearly a hundred diversions and regardings were built at a cost of 180,600 before the Coast - Nairobi portion of the Main Line was brought to the uniform ruling grades of 1.18% and 1.5% respectively.

The economy in working due to these improvements has amply justified the expenditure on them. This is typified in the Macupa - Mazeras case, where an immediate saving of £5,000 per annum on banking engines was made. The capital cost of this particular work was £38,000.

Ruling Grades Uasin Gishu Railway.

After the decision to build the Uasin Gishu Railway on a ruling grade of list compensated, on sideration had to be given to the question as to whether the intervening section of Nairobi - Nakuru could be improved to bring it up to, at least, the capacity of the new line.

Examination of alternative easy grade route between Nairobi and Nakuru

In 1924 a reconnaissance survey was made which showed that a 1.5% line could be found to the south of the present line, via Ngong, joining in again at kijabe. This line would have been seven reported to be a comparatively cheap line to build. After consideration, it was decided that owing to the dislogation to established traffic on the present route, any line via Ngong could not be considered as a substitute line though at later additional alternative line for through goods

About this time the introduction of the Garrett engines reducing train miles by almost 50% on the Mairobi. Nahiru Section, and the question of improvements, for the moment, was dropped.

UGANDA RAILWAY.

DETAILS OF THE ASCENT AND DESCENT OF THE RIKOYU ESCAPPHENT

D (m) (m) (



Initiation of present investiga-

The time lowever is recital with the means to be atoptes to the means the first of the means the first of the means the first of the means the first that the viaducts on the present line are severely overstressed at normal speeds by the existing engines, and, in fact have a speed restriction placed on them. The estimated cost of replacing these viaducts by meansments which is considered the most economical way of dealing with them - is 240,000; of which Railway Council have already authorised an expenditure of f10,000 as a first instalment. This expenditure of f10,000 as a first instalment. This expenditure has been acrived at.

the engine loading on all sections of the Main Line indicates that the ruling grades on the Section in question should follow the ruling grades adopted below Nairobl. A careful and thorough survey has Just been completed from Uplands to Nakuru, and a recommassance survey from Nairobl to Uplands, to locate the most economic line and one that does not came; as our silvestion of existing developments. The present proposals, it is

Engine Loading Theoretically, the loads that can be hauled by a given locometry on afficient gradients vary inversely as the gradients become attacher. For grade is harr the weight of the chains and load on a grade. The state of the can be hauled at a similar speed on a 1 grade. Actually the only factor that affects this exact ratio is train resistance, the proportion being slightly decreased if mark vahicles are used to cannot the load.

on the Kenya and Uganda Railway locomotives are rated for the load they can haul at a speed of 12 m.p.h. on the 1.18% and 1.5% miling grades, but are proportionately more heavily loaded on the 2% rails per hour. If the loading for 2% grades was uniform with the 1.18% and 1.5% grades, the pry load would have tooks reduced by 30%.

Railways loading compared with uniform Youding.

These tables assume that the Kenya and Uganda

Railways loading for a 1.18% grade is the correct

Goonomic weight for 12.mme.he

	- Dan 61	Units.	55 Unit de 19
over 3.05 uncompens ted	ompansated	Tables lat	ed. Tables
over 1.5% uncommence	ompensated	985 127	Para
ever 1.5%. load 1.18% c	ompensabel c	625	46.1
Increase in load 1.5% Co	mpensated	33.	54
	1,000	38% 70%	389

of present nvestigation.

When a decision must be made as to the ultimate means to be alapted to increase the dapacity of blockeds section on the through route commands in from attributions west of Nairobi mere; the ungency of reduction now account by the fact that the visioners of present linears severely directioned at normal speeds by the existing engines, and in fact, have a speed restriction placed on them. The estimated cost of replacing these viaducts by mbankments - which is considered the most economical way of dealing with them - is £40,000, of which Railway Council have already authorised an expenditure of £10,000 as a first instalment. This expenditure has been deferred until a decision on the major issue, namely the abendonment of the whole cection, mas

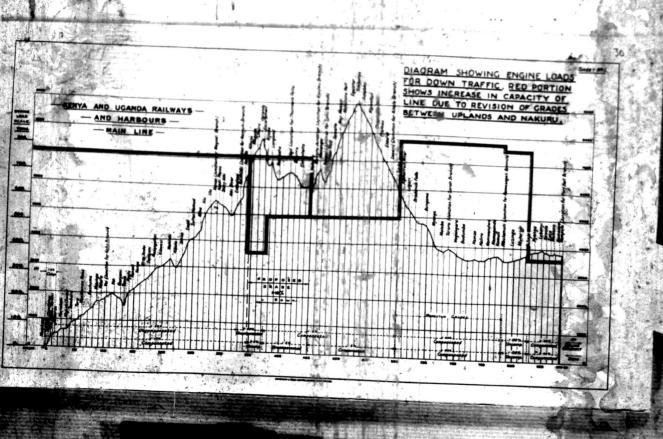
in exemination of the diagrams showing the engine loading on all sections of the Main Line indicates that the ruling grades on the Line indicates that the ruling grades on the Section in question should follow the ruling grades adopted below heirobi. A careful and therough survey has just been completed from Uplands to Makuru, and a reconnaissance survey from Mairobi to Uplands, to Louate the most economic line and one that does not called a live dislocation to existing the analysis. developments. The present preposals, is is considered, will affect this

Theoretically, the loads that can be hauled by a given locemotive on different gradients nauter by a given recembled the gradients become steeper. For example, the weight of the engine and load on a grade is hair the weight of the engine and load that can be havied at a similar speed on a 16 grade. Actually the only factor that affects this exact ratio is train resistance, the proportion being slightly decreased if more vehicles are used to

On the Kenya and Uganda Railway Locomotives are rated for the load they can haul at a speed of A2 m.p.h. on the 1.18% and 1.5% ruling grades, but are proportionately more heavily loaded on the 25 miles ber hour. If the loading for 25 grades, was miles ber hour. If the loading for 25 grades was uniform with the 1.18% and 1.5% grades, the pay load

Railways loading compared with uniform loading.
These bables assume that the Kenya and Uganda
These bables assume that the Kenya and Uganda
Railways loading for a 1.16% grade is the correct

Increase in load 1 red o	Calpu lated.	M.U.R. Tebles.	Calcu- Lated	Unita.
Increase in load 1.18% Compensated over 2.0% uncompensated Increase in load 1.18% Compensated over 1.5% uncompensated Increase 1.5% uncompensated	124%	98%	A275	102%
over 1.52 load 1.185 Compensate	61%	400	62%	102%
Over 2:0% uncompensated	33.5%	42%	33.5%	46%
amheuse seq.	68%	38%	70%	36%



entailed In present proposal. The revision of the ruling grace between all robs and Nakuru needestiates two major diversions and the minor diversion, also fourteen minor fractale. The first diversion as Section No. 1 Uplands to Longonot, the second is Longonot to Naivana, whilst the minor diversion and eight of the regrades are on the existing Gilgil - Nakuru Section.

with this section of the line, and that is the shortening of the line by rebuilding it north instead of south of Lake Elmenteita. By following, roughly, the route of the Scinters Road the line can be shortened by 112 miles, end it is strongly recommended that instead of regrading the present line, the copportunity should be seized to rebuild the line on its correct geographical alignment.

This shortening of the line has been considered any times and a suitable opportunity for pressing for it is not previously occurred. New that he case for regrading affects the issue and, on examination, the increase in treffic warrants the expenditure, the matter becomes at once

Sconomic Case.

In the calculations that follow it will be noted hat the case for radiction of grades is used on decreased train mileage. This is the main factor that is effected in any change of ruling rade. On the other hand, in the case factoring the line, the controlline factor is the reduction in ton size of the code, and consequently the calculations for the third section of these proposals - the Cilcil to Nakuru out off are an that basis.

In all these calculations bare working out of pocket costs alone are taken for running and maintenance, except where allowance is made for the reduction in contributions to the Renewal Fund. on account of abandoned or redundant assets.

The estimated cost of constructing sections 1 and 2 and regrating the remainder is 2319,365, and the estimated cost of the complete scheme Sections 1, 2 and 3 is £445,969.

TRAFFIC DATA.

1937

UP

TONS CARRIED .

MONTH.	NAIROB	- KIJABE.	KIJABE - NAKURU.		
	Nett.	Gross.	Nett.	Gross.	
January February March April May June July August September October November December	22,707 17,349 80,159 17,895 17,440 15,396 19,054 16,874 19,512 23,125 24,656 25,565	61,544 63,660 69,028 62,107 54,020 45,112 48,511 48,543 53,939 55,865 4,626 58,681	22,290 16,145 18,486 18,129 17,595 14,595 7,08 15,886 18,915 22,806 26,001 25,900	57,649 58,796 62,844 60,415 52,578 42,404 46,313 43,419 47,308 52,500 34,002 58,415	
	041,708	607,138	236,083	641,643	

WAGONS HAULED

MONTH	NAIROBI	- KIJABÉ.	KIJABE - NAKURU.		
	Empty Ur	Loaded	Units Empty Loaded.		
January February March April May June Fuly August September Gotoban Movember December	1,591 3,195 3,477 8,124 1,966 1,273 803 871 1,824 780 967 1,211	3,991 3,543 3,476 3,021 2,966 2,948 3,196 3,253 3,674 3,670 3,986 3,975	1,433 2,896 2,893 2,787 1,777 856 379 392 469 454 371 627	3,716 5,284 3,255 3,087 3,084 2,842 3,159 3,022 3,447 3,502 3,941 3,237	
	20,492	41,599	15,884	39,516	

GLICIL - NATURU SECTION .

TONE CARRIED

MORTEN.	D	ONN	UP.		
	Nett.	Gross.	Nett.	Gross.	
Jehuary February March Apr 11 May June June June June June June June June	44,366 50,186 55,107 45,703 36,532 25,032 19,610 19,241 19,346 19,023 12,791 14,394	64,390 90,835 99,210 82,924 74,613 51,751 45,497 32,624 44,759 51,149 48,693 46,775	18,096 16,002 17,965 17,618 16,853 14,834 17,806 14,973 18 9 23,091 25,547 25,516	47,105 56,698 60,568 57,277 48,752 40,678 44,387 -39,821 43,681 50,682 55,639 56,057	
	363,331	738,222	226,302	601,345	

SECTIONS NOS . 1 AND 2:

ACAINST DOWN LOADS

Traffic Figures are 1937 Actuals.

Nakura - Kijabe Sections. 1.5% Ruling Grade.

46,639 loaded units } Traffic dealt with 1937.

55,668 Units

Assuming all Garrett loads at 41 units per brain.

55,666 1,358 trains.

Alternative

762,273 gross tons of traffic was dealt with.

Again assume Carrett leads.

41 units with load will be 565 tons.

762,273 - 1,347 traine,

Average of above calculations

1,356

2.705

1,353 trains.

Eljabe - Mususm Bection. 25 Uncompensated.

1937 Traffic.

49.142 loaded units 817.301 gross tons.

57.975 Thita.

Jarrett load for 2%. 28 units weight 444 tons.

57,975 = 2,71 treins.

 $\frac{817.301}{444}$ = $\frac{3.841}{3.912}$ trains.

Aftenge - 1.956 trains.

MURLET MITTEL! Multim Orace 1.18%

Twing to the Emposability of making up the load from the married on the Kijabe - Musuga Section to the full load the section is capable of parrying, the affect is that practically the same number of trains are worked throughout the Musuga - Nairobi Section as on the preceding section, therefore the number of trains worked are 2,055.

The train miles a' present worked are:-

Nakuri - Kijabo ("6.4" miles) 1,353 x 76.67 train miles.

103,734

Kijabe - Muguga (25.06 Miles) Muguga - Nairobi (18.94 m

44.00 x 1,956

86,064

Total train miles Nakuru - Nairobi = 189,798

Train Miles run over whole Section If uniform grade of 1.18% Compensation is adopted.

Nakuru - Kijabe. Length 76.67 miles.

1.18% load 55 units of 742.5 tons

55,668 - 1,013

762,273 - 1,014 2,082

Average 1,014 trains.

Train Miles Mekuru - Nairobi.

Miles 76.67 . 44 - 1.64 - 122 -31

(Note: Line is lengthened 1.64 miles).

Train miles . 122.31 x 1.024

Plus extra Kijabe - Nairobi 2,300 unita = 43 trains

Flus extra Muguga - Nairobi 2,475 units - 46 trains.

Total on Section 122.31 x 1.084 * 124 022

124,022 44 x 43

126,785

871

Saving in train miles 15,798 126,785

63,013

As the whole of the stock has to work back again, with loads of without, the total saving in Train Miles is 2 x 57.067

Transportation and Loco costs are 2/09 per train mile.

Saving is <u>e 126.026 x 2.09</u> - £13:180

To this must be added £892 saving on Maintenance and Renewal of Viaduots less extra cost of maintaining and renewing 1.64 miles at £103 per mile. Bringing saving to 13,170 + 892. - 169 = £13,993.

Cost of Regrading only . Cost of Sections Nos.1 and 2.

£319,366

Less recovered parmament

way. = 7.539

£311,827

or strengthered at a cost of £40,000, £10,000 of which has already been voted as an instalment, so that £40,000 cam be deducted from the above, leaving £271,627.

The savings represent 4.45% on £311,827

or .

5.1% on £271,827

The saving in power is represented by at least 4 Carrett engines, which means that a reserve of Carretts, equivalent in value to some £75,000 is made available. If allowance is made for this reduction in Capital Cost, and for the consequent reduction in Renewal contribution, the saving is 8.2%.

Train Miles Makuru - Nat rob

Miles 76.67 . 44 . 1.66 . 122/31

(Note: Line is lengthened 1.64 miles).

Train miles . 122.31 x 1:084

Plus extra Kijabe - Nairobi 2,300 units + 43 trains

Flus extra Mugaga - Nairobi 2,475 units - 46 trains.

Total on Section 100 71 - 100

otel on Section 122.31 x 1.984 = 124,022

18.94 x 46 - 071

126,785

186

Sewing In train miles 189,798 126,785

63,013

As been of the stock bas to work back again, with loads or without the total saving in Train Miles is S x 69,062 and Miles.

Transportation and Loco costs are 2/09 per train mile.

Saving 1: £ 126,028 x 2.09 . £13,170

To this must be added £892 saving on Maintenance and Renewal of Viaduots less extra cost of maintenining and renewing 1.64 miles at £103 per mile. Bringing saving to 13,170 + 892 - 189

Cost of Regrading only . Cost of Sections Nos. 1 and 2.

£319,366

Less recovered permanent

way. = __7,53

£311,827

If this work is not done the viaducts must be replaced or strengthered at a cost of £40,000, £10,000 of which has already been voted as an instalment, so that £40,000 can be deducted from the above, leaving £271,827.

The savings represent 4.45% on £311,827

5:1% on £271,827

The saving in power is represented by at least 4 Carrett engines, which means that a reserve of Carretts, equivalent in value to some £75,000 is made available. If allowance is made for this reduction in Capital Cost, and for the consequent reduction in Renewal contribution, the saving is 8.2%.

Nett Togs carried over Gilgil - Nakuru Section to 1937 are

363,331 226,302

569,633 7000

Miles seved 11.74

Ton Miles saved -11.74 x 589,633

5,988,5910

Transportation and Lose but mile. CHIC. MA COMO

6.2301

Plus Engineering " (Maintenand of 11.74 miles)

7,439

MI leav

1.360 (Train Miles seved on present line)

6,079

Cost Sect : one -00-

445,969 319.567

126,602

Sevine"

4.8% of Capital Cost.

Saying on trucks

6,922,E91 ton miles.

The saving in goods shock due to a reduction of 6,922,291 ton miles from 1936 figures for ton miles per wagon per annum)

6,922,291 109.311

63 Units.

63 x 325

£20,475.

Bringing the total saving to 6.4%

FULL CASE FOR REGRADING AND BUILDING CUT-OFF

Savings.

Sections 1 and 2

£13,893 6,079

£19,972

Cost of Sections 1, 2 and 3

it way. 19.295

Less value of recovered permanent

19,295 £426,674

Direct savings on 1937 basis

. 50

Puture savings. 4 Loco.

63 trucks

£75,000 20,475

£95,475

Bringing ultimate cost to f331,199, and to the savings must be acted the annual renewal charge on Logos, and rolling stock of £3,000 + 683 - \$3,682. The maintenance of the locomotives and rolling stock is included in the main calculations.

Total saving - 23,654, which is 7.14% on Capital Cost.

Note: the deletion of the expenditure on replacements of the Viaduots of £40,000 is considered, the advantages of this scheme can be represented by 8.1% on expenditure.

TRANS PAYOURABLY EFFECTING SAVINGS, BUT NOT INCLUDED IN THE FOREGOING CALCULATIONS,

- The speed on the Kijabe Muguga Section for freight trains will be raised from 75 m.p.h. to 12 m.p.h. This must have some value.
- (b) Shunting to alter loads at "change of grade" stations.
- (c) The remarshalling of through goods from Nakuru and beyond, at Nairobl, will be reduced if not eliminated.
- It will be noted that all the calculations are based on Carrett loads. In actual practice a considerable portion of the trains are drawn by small engines singly or doubly heeded. In the former case, train miles increase considerably and in the latter, train miles increase slightly but at greater mileage costs.
- (e) There will be considerable gain on the passenger side, both in speeding up and in eliminating the use of "banking engines" and an increased load equivalent to the Nairobi - Coast loading can be hauled.
- be "special claims" to mest by way of compensation to the few people at Escalpment, Eburru and Elmenteita, who are put to expense by having the railway moved further away from them. The only compensations included in the estimates are the ordinary payments for acquisition of lead and damage to crops and property.

From the foregoing . would open that a prima facie case is proved for not only the reduction in ruling grade, but also for the shortening of the line. As regards this litter improvement the following figures are of importance:

TRAFFIC AT EBURRU AND ELMENTETTA.

779		inwards.	Cutwards	
Eburru	1 936 1 93 7	124 Tons	254 Tons 353	
Elmenteita	1936 1957	1.054 Tons 1.481 "	52. Tens	

Compensation for Disturbance When it is remembered that this district is one of the earliest to be occupied by Furopean settlement, it must be agreed that the development and consequent traffic is extreme v small. In fact it is only \$\frac{1}{2}\$% of the taiffic which will gain advantage by the reduction in the length of the line. It must be agreed that the vested interest of so small a proportion of the Railway lears same to allowed to influence the docision of this question. On the other hand some reasonable compensation may be considered as due on the basis of the reduction in the value of the land by reason of the added distance it will be from the main line.

Due weight i: assessing compensation / should be given to genuine products. As against land speculators, who are merchy activities the land until they can officed it at an "thearmed infrement" An independent valuer could easily assess the depreciation by analogy with other land at equal distances from the Railway, and in the same

At Escappment and Elmenteita there are a number of Indian dukas of wood and iron enstruction which, for little cost, could be moved to the proximity of a station on the new alignment. There is, however, a small backn factory at Escarpment that may be due some compensation, particularly if the abandoned section of the line is not turned into a road. This latter question is dealt with later.

Duration of Construction.

The estimated length of time necessary to complete these works, if undertaken, simultaneously, is two and a half years, and at least a year must elapse in preliminaries and discussions before work can begin. It therefore seems certain that before full advantage can be gained from these improvements, they will not only be warranted, but overdue.

This completes the case for the re-alignments and regrading to benefit down loads, and the case for up loads must now be considered.

Case for Up Loads.

With that in view a survey is being made from Nairobi upwards, and from an examination of the terrain it appears most probable that the line can be rebuilt to a 1.5% compensated grading, as against the prace 1.5% uncompensated and at no very great cost compared with the heavy cost of regrading the

12.

Rift Valley side of the Kikuyu escarpment against the down loads. It is however likely that no case for immediate construction will be found to exist. On the other hand it may be found that by the time the down load project has been completed the time for considering the up load will be approaching, aspecially in view of the fact that this latter construction would entail two years work at least before full advantage out do be taken of it. A further report on this question will be submitted curing the year and if the route proves feasible at reasonable cost, it may be advisable to accept it now as a policy for the future and to acquire whatever land is necessary without delay.

Railway to carry out realignments on a specified decision can be arrived at

Existing Line to be converted to Main Road.

be descent of the Kirdyu escarpment is abandoned the section Uplands - Longonot should be handed over to the Government as a substitute mean road, in place of the present descent into the Kedong Vallay.

With this in view the route was examined recently appeared to be most impressed with the lidea.

aroad would only be the second held or breakdown value of the girders of the viaduets. The treaties could be handed over at no value as the cost of the scrap steel so recovered.

The present width of the viaducts is 13.6" and this could be extended at comparatively little cost. About three cuttings would need widening, but otherwise the whole route seems an ideal proposition for a first class road.

DESCRIPTION OF THE ROUTE.

No.1. -Uplands to Longonot

This is by far the most difficult and time it is the most important and in fact is the controlling feature as it includes the elimination of the bulk of the 2% grades.

The present line swings to the south after leaving Uplands station, still climbing on maximum grade, until it reaches the saddle through which it can descend into the Riff Valley, which it then does at 2% uncompensated grade, until seven the later it reaches a shelf where the present Escarpment station is situated. This is the point from which the old incline railway, built during construction, started. From this shelf the line again descends on full grade to Kijabe, with to appear the station of the state of the line climbs to the longonot saddle.



SECTION NO. 1 .-INDEX -UPLANDS - LONGONOT SECTION METRE GAUGE SHOWING LENGTH 16-97 MILES NEW LINE SUPERIMPOSED IN RED ON OLD LINE 20025 11







The new trace rises slightly from "plands to the Lori Swamp to the lowest saddle leading to the Rift Valley, and from this saddle descends steadily to the Longonot - Higher Hill Saddle on - 1.1% compensated grade.

As will be seen from the section, the rise and fall on the new trace is less than on the present line as the latter falls lower into the Kedong Valley than is necessary, to stain the level of the Longonot saddle.

The carthworks on the new propessi, however, are very much heavier than on the old line and could not have been attempted under the ploneor conditions of original construction. Instead of viaducts heavy embankments with retaining walls and deep cuttings will be built which will prove cheaper in maintanance and equal to any increased load it may be necessary for them to carry in the future. At the same time, they will not be more expensive to build than the slight easing of the carthworks and the provision of new viscuots which would be the alternative. The carthworks on this section are estimated to cost 28,500 per mile, but the bridging is only £1,600 per mile.

Section No.2. -Longonot to Naivasha

This section is quite straightforward and consists of light earthworks only, the line being merely lengthened to get extra dayalogment to enable the introduction of the 1.18% grades.

Section No.3. -Gilgii to Nakurui The elignment of this section follows the old Scienters Road and is the obvious route to Nakuru. Why the original construction was taken to the south of Lake Elmenteita is hard to say because, with the 2% ruling gradient that was then adopted, a comparatively chear line could frave been built on the new proposed alignment, occupt for possibly a mile or so of fairly heavy work abortly after leaving Gilgil.

The present proposal has some fairly heavy work on it in order to get the easter gradients simed at. The formation will cost about £5,500 per mile.

ESTIMATES.

The estimates are propared under two

- (1) The complete recenstruction, including regrading and shortaning the line.
- (2) The complete regrading but emitting Section 3, the shortening of the line.

Also, under each main group are given the separate sections but these now sections must not be taken as estimates for carrying out that individual section by itself, they are only subdivisions of the main group estimates.

This heading only includes the write back of the cost of the preliminary survey.

Land .

gtations This includes land purchased for sections and compensations for damage, also the purchase of freehold land belonging to the American Mission at Kijabe, through which the main line would run.

forma-

The prices allowed for earthworks are based on the experience of departmental and petty contract rates and ample provision for retaining walls has been made.

The bridgework is comparatively light, the main cost being in long culverts through the very high banks on the Escarpment Section.

Attached as an appendix is the estimate of the Engineer in Chief of the Telegraph Department, for the whole scheme, but if Section 5 is not included the unit costs will go up on the remainder, as considerably loss or cit for released material.

erman ent

Permanent Way is based on a proportion of new material equal in length to the longest section, the remainder being salved material from the old line.

Plant.

This varies according to whether three or two sections are constructed, in the latter case costs being proportionately higher.

The same remarks apply as in the case of Plant. The basis for the duration of construction is two and a half years for the complete scheme, and two years if Section 3 is omitted.

RECOMMENDATION.

In conclusion it is emphasized that a sound case exists for accepting the principle of the entire scheme, and the only question to decide, is when to put it in operation.

In the opinion of the writer the figures indicate that Capital Expenditure on the work is justified now.

RATEWAYS &



KENYA AND UGANDA RAILWAYS AND HARBOURS

UP LANDS - NAKURU REALIGNMENTS.

CURVE ABSTRACT.

Section No.1. Uplands - Longonot.

Metre Gauge. Length of Section 16.97 Miles.

Degree			NEW LI	NE.		OLD L	INE.
of Curve.	Radius.	No. of each	Length in Miles.	Curvature	No. of each	Length in ' Miles.	Curvature
10-00'	5,729.6	2	.246	130-00'	1	.102	60 631
10-36	3,581.1	-		10 -00	5	.805	5°-23°
20-001	2,864.9	2	.767	810-00*		.000	92,-14
20-301	2,292.0	1	.053	70-001			
30-00'	1,910.1	13	1.152	1820-301			
30-30	1,637.3	1	.132	300-00		5	
40-00	1,132.7	5.	.736	1550-301	1	.046	90-55
40-461	1,200			. "	2	.311	780-331
50-001	1,146.3	2	.121	320-00	1		19 11
50-441	1,000.0				3	.404	1220-13
60-00!	955.4	5	.497	1570-30			100 -40
.70-001	819.02	11	1.254	4630-301			
70-10'	800.0				69	7.848	2,9680-00
80-001	710.0	1	.203	850-301			1 - 100 - 100 · 1
90-001	637.3	-1	.108	510-30		. 1	
100-001	573.7	17 2	2.718- 1	1,4350-30	.	1	
No. 15	-	1	-		\rightarrow		
TO TA	T 1	66 7	7.987 2	2,6940-30	79 9	9.517	3,249°-16'
	The second second second	400		/	1	1	

Ratio of Curve to, Total Length of Line.

47 14

RD AN

Average amount of Curvature per Mile.

158.80

178 80

Total Length of Line.

16.97 Miles

18.174 Miles

KENYA AND UGANDA RAILWAYS AND HARBOURS

UPLANDS - NAKURU REALIGNMENTS

CURVE ABSTRACT.

Section No.3. Gilgil - Nakuru.

Metre Gauge. Length of Section 21.67 Miles.

Degree			NEW L	INE.		OLD L	INE.
of Curve.	Radius.	of	Length in Miles.	Curvature	of	150	Total Gurvatura in Degrees.
1° 1°-30 2°-00	5,729.7 3,819.8 2,864.9	3 1 6	.609 .208 1.245	32°-10' 16'-30' 131°-30'	5 5	1.362 2.090	68°-01' 163°-42' 82°-05'
20 30 50 50 50 50 50 50 50 50 50 50 50 50 50	2,292.0 1,910.1 1,057.3 1,432.7	-7:	1.479	1390-001	3	.608 1.679 .115	2420-13 2420-13
5°-¢0' 6°-00'	1.146.3 955.4 819.0	7	.328 .766	3129-20' 86°-30' 242°-50' 493°-45'	6	.427 1.287	90 ⁰ +06* 334 ⁰ →13:
7°-10° 10°-00°	800 573.7	1	.258	136°-00'	6	1.186	4490-581
TOT	AL	48	7.107	1,5900-35'	34	9.518	1,531°-48'

Ratio of Curve to Total Length of Line.

32.75%

28.41%

Average amount of Ourvature per Mile.

73_30

50.20

Total Length of Line.

21.67 Miles.

33.5 Miles.

SENTA AND UGANDA RAIL-GAYS AND HARBOURS

UPTANDS - NAKURU REALIGNMENTS

GRADIENT ABSTRACT.

Section No.1. Uplands - Longonot

Metre Gauge. Length of Section 16.97 Miles.

	_				10.97	WT 768.
		NEW LI	NE.		OLD LIN	E.
Grade.	No.	Length	Percentage	No.	Length	Percentage
	each.	Miles	of total length.	of each	Miles.	of total
Level	5				MILES.	length.
0.10	1	2.333	13.6%	11	3.114	17.2%
0.19				1	.719	3.9%
201				1	.701	3.9%
0.80	2	-		1	.189	1.0%
0.37	6	10	à 1	1	.170	0.9%
0100			7	1	.182	1.0%
0.70	5.1	1			.303	1-66
100	137	14	1	1	.189	1.0%
0.76	7	.606	3.6%	1		
0.61	7		1 1	1	.075	0.4%
3.5		-276	12.66	1		
17.15	31.	1.136	6.7%	- 1	1	
1.48	3		- 1	1	303	1.6%
1-21	3	12.860	74.5%	- 1	3.1	
1.50	. /	. 1	- 1	1	-095	0.5%
gl.50;			1	1	303	1.8%
11:51	+	4		3	1.295	7.1%
1.75	- 1			I.	.265	1.5%
1,76			19	T	189	1.0%
1,77	1			1	.549	3.0%
1.80	. 15			Age of	.218	1,2%
1.83	1			1	341	1.9%
2.0				1	.899	5.0%
-			1/1/1-	11	8,071	44.65
	10	1,97	100%			1
	-JFA			1	3.17	100%
ACCOUNT .				-	- Control of the last of the l	1

Steepest Grade.

1.18 Compensated

2% Uncompensated.

Longest Length of Steepest Grade.

5.36 Miles.

1.86 Miles.

GRADIENT ABSTRACT.

Section No.2. Longonot - Naivasha.

Metre Gauge. Length of Section 11.73 Miles.

		NEW LINE.			OLD LINE		
Grade	No. of each	Length in Miles.	Percentage of total length.	No. of	Length	Percentage of total	
Level		.925	7.8%	1	. 227	2.5%	
0.68	1	. 248	2.1%	1	.208	2.3%	
0.90	-			1	.095	1:1%	
1.17				1	.322	4.5%	
1.25	1 .	10.554	90.1%	1	1.061	11.9%	
1.31	1.			1	.246	2.7%	
1.46				1	.454 1.573	5.1%	
1.48				_1	2.386	26.8%	
		11.73	100%		8.924	100%	
		11.75	100%		0.924	100%	

Steepest Grade. 1.18% Compensated.

1.50% Uncompensated.

Longest length

LINIYA AND UCANDA BALLWAYS AND BARBOURS

UPLANDS - NAKURU REALIGNMENTS.

GRADIENT ABSTRACT

Section No.5: Gilgir - Nakuru

Metre Gauge Length of Section 21.67 Miles.

						21.	67 Miles.
	-	NEW LI	NE.			OLD.	LINE.
Grade	of each.	Length in Mfles.	Percents of tota	al.	No.	Lengti	Percentage
Level	1		length	1	each.	Miles.	length.
0.04	9	2.765	. 12.79		23	7.663	22.9%
0.09					1	0.473	1.4%
					. 1	0.359	1.1%
0.18		. , .		- 1	1	0.473	1.4%
0.19	1			-	1	0.284	0.8%
0.20	1	0.251	1/19/	1	2	0.568	1.7%
0.22	1. 1	1	. 7	-1	1	0.625	1.0%
0.28		-	4		2	0,.379	1.1%
0.30				1	1.	0.625	1.9%
0.33			1.	1	1	0.473	1.4%
0.37		0.284	1.3%	100	7	190	*
0.39	Diam's	100	- 4	2	1	0.879	2.6%
0.41	1	- Project		mile	1000	0.322	0.9%
0.43	[the state of		2	0.870	2.6%
0.45	I	1 1		1	1	0.227	0.6%
0.50	1	0.170	0 44	1	1	0.416	1.2%
0.58		0.275	0.8%		4	2.064	6.2%
0.56	,	0.574	1.3%	1:	1 // 0	0.928	2.8%
0.59	12/0		2.6%	1.			. 1
0.60	* 1.	1-1-1	* b	5	. 1.	0.492	1.5%
0.63		A STATE OF THE PARTY OF THE PAR		7.4	m 1	0.322	0.9%
0,64	24		1		3	0.189	0.6%
0.66			700070		100000000000000000000000000000000000000	340	1.0%
0.69	F			13	1	208	0.6%
0.71	1 0.	719	3.3%	1	1	227	0.6%
0.72		980	4.5%	.1	1.3	398	1.2%
- 4 .		1	1.0%		1. 0	.340	1.0%

LENYA AND UCANDA RAILWAYS AND MARBOURS

UPL NDS - NAKURU REALIGNMENTS.

GRADIENT ABSTRACT

Section No.B.

Metre Gauge Length of Section 21.67 Miles.

the state of the s	-					~ 1 . (57 Miles.
		NEW I	INE.	T		OLD I	TMF
Praie	. No.	in	of tota	I-	No. of ech.	Length in Miles.	Percentage of total
Level	9	0 000	1 -		-	Males.	length.
0.04		2.765	12.7%		23	7.663	22.9%
0.09	1			-	1	0.473	1.4%
	1 .	1	-		1	0,359	1.1%
0.12				-	1	0.473	1.4%
0.19				-	1	0.284	0.8%
0.20	1	0.251	1.1%		2 .	0.558	1.7%
0.22,	1	-		1	1	0.625	1.9%
0.25		1-		1:	2	0.379	1.1%
0.28		1			.	0.625	1.9%
0.30	+ -	1 1		1	1 -	0.473	
0.33	1	0.284	1.3%		1	- Au	1.4%
0.37				1	8	0.000	
0.39	7			-9	1 1	0.879	2.6%
0.41		- Partie		md.3H	验	0.322	0.9%
0.43	***	100	A. A.	2		870	2.6%
0.45	-	1 2 1			· 100	227	0.6%
0.50	. 1	N 150		1.72		.416	1.2%
0.58		0.170	0.8%	4	2	.064	6.2%
0.56	1	0.275	1.3%	-1	a 0	.928	2.8%
0.59	1	0.574	2.6%				
0.60	1		- y b	1	. 0	.492	1.5%
0.63		in the second	- 4	-1	0	322	0.9%
			100	+	0	189	0.6%
0.64				1	0.	340	1.0%
0.66			15 1	1	0,	208	0.6%
0.69				1.	0.	227	0.6%
0.71	1	0.719	3.3%	1	1	398	1.2%
0.72	9	0.980	4.5%	TOTAL STATE	Maria Val	340	1.0%

Section No.3.

	12. 16.0	NEW LI	NE.		OLD LI	NE
Grade.	No. of each.	Length in Miles.	Percentage of total length.	No. of each.	Length in Miles.	Percentag of total length.
0.74			6	1	0.966	2.9%
0.75	1	0.513	2.4%			
0.81		* *************************************		1	0.208	0.6%
0.90	1	0.568	2.6%	. 44,		
0.95	1	0.199	0.9%			
1.00	1 /	0.189	0.9%			
1.04	.	101		1	0.398	1.2%
.05				1	0.305	019%
.08	7	1 2		1	0.473	1.4%
-15				2	-1.042	3:16-
16	1	0.568	2.5%	3	-	
.18	9	13.655	63.0%		(Care 1973)	T. CT.
.19	2	1.4		1	0.398	1.2%
36			Province.	1	0.382	1.1%
40		Y		1	0.379	1.1%
50	AP TO	No. of London		15	8.874	26.5%
ell ell		rps	100 mg	Tally Lan	part S	P. Supple
. I		1.67	100%		33.5	100%

Steepest Grade. 1.18% Compensated.

1.5% Uncompensated.

Long St length of steepest Grade

3.96 Miles.

1.53 Miles.

KENYA AND UGANDA RAILWAYS AND HARBOURS.

PRELIMINARY ESTIMATES

FOR REDUCING RULING GALDLENTS AGAINST

DOWN LOADS ON THE

NAIROHI - NAKURU SECTION

OF MAIN LINE

CHIEF ENGINEER.

MARCH, 1938

- LIST OF ESTIMATES -

General Abstra	ot of Cost	4. 2.		14	PAGE.
1,00014	co or cost	Sections Nos.1, 2 and 3 combined.)	
do.	do.	Section Io.1. (As part of above).			5 & 6
do.	do.	Coaties V	• •	- du	7 & 8
		Section No.2. (do. do.).		4	9 & 10
do.	do.	Section No.3. (do. do.			
Dist. 48	3				11 & 12
do.	do.	Sections Nos.1 and 2 combined.			
do.	do.	Section No.1. (As part of above)			13 & 14
do.	3 -				15 & 16
	do.	Section No.2. (do. do.)			4.0
	8			• •	17 & 18

KINYA AND JUGANDA RAIL AYS AND HARBOURS.

UPLANDS - NAKURU REALIGNMENTS. (THREE SECTIONS).

PRELIMINARY ESTIMATE.

GENERAL ABSTRACT OF COST OF RAILWAY.

Sections Nos.1, 2 and 3. Uplands - Nakuru.

Metre Gauge. Length of Sections 50.37 Miles.

Head of Account	Si Si	ub Head.	Mai	n Head
and Sub Head.	Cost.	Rate per Mile,	Cost.	Rate per Mile.
I. PRELIMINARY EXPENS S	.,3		3,525.9	170
Survey Expenses b. Plant. c. Establishment	3,525.9	7.0		
II. LAND.	9.330	185.23	9,350	105.23
a Earthworks	215,946		240,990	3,784.39
b. Tunnels c. Walling. d. Drains c. Clearing. f Road Diversions IV. BRIDGE ORK	19,281 3,268 1,850 645	82,79 84,88 36,79 13,81		
a. Major Bridges. b. Minor Bridges. c. Culverts	35,790 8,357	710.54 165.91	44,147	876.45
V. FINCING a. Fencing.	2,300	45.66	7,238.5	143,70
b. Boundary Posts. e Oradient Posts. d. Mile Posts. e. Level Crossings. f. Notice Boards.	502.5 46 32 4,320 38	9.98 .91 .63 .85.76	1	
VI. TELEGRAPHS a. Poles and Lines	3,777.75		4,015.25	797.15
b. Instruments II. PERMANENT WAY.	237.5	750 47.15		
1. Main Line 1. Fermanent Way 5	6,284.0 1,908.2	1,117.6	77,242.2 1	,533.5
B. Sidings	5,760 840	114.3	6	
. Points & Crossings	2,450	48.6		. 0

Carried Forward .. £386.488.85

Sections Nos.1, 2 and 3 Uplands - Nakuru.

Head of Account		Head.	Max	in Head
and Sub Head.	Cost.	Rate per Mile. £.	Cost.	Rate pe
			£. £386,488.85	£.
VIII. STATIONS & BUILDINGS.				
a. Station and Offices.	7		19,390	384.9
 b. Workshops and Stores. 	7,580	150.48		
c. Staff Quarters. d. Station Machinery.	8,360	165.97		
TX. PLANT.	3,450	68.49		
a. Engine ering.		- 1	6,300	185.01
d Carriage &	6,000	119.12		
Wagon. e Station & Office.				
X. FERRIES	300	5.95		at p
XI. ROLLING STOCK.				
II. GENERAL	3			
CHARGES:		-	30,005	595.7
. Accounts.	5,630 4,350	810.3	7 3	. 19
	2,675	53.1 47.7		
	1,200	23.8		- A
	3,750	74.4		
	TOTAL	£44:	2,183:85 8,	778.71
- 6		2 1		
Pad Coat			7	
dd Cost of si between Nairob Nakuru	x Regrades i and		and a	WII W
		/ 3	,785	
	RAND TOTAL	£445	,968.85 8,8	53.86

Sections Nos.1, 2 and 3. Uplands - Nakuru.

opiands - Nakuru.	-	*	*	
Head of Account	Sub	Head.	Ма	in Head
and Sub Head.	Cost.	Rate per Mile.	Cost.	Rate p
		£.	£,	£.
VIII. STATIONS & BUILDINGS.	Drought 1	orward	£386,488.8	5
a. Station and			19,390	384.
b. Workshops and Stores.	7,580	150.48		1
d. Staff Quarters.	8,360	165.97		
Machinery.	3,450	68.49		
a. Engineering	1	-	6,500	188.0
Construction. C. Locomotive. d Carriage &	6,000	119.12		
e. Station &		-		-
Office.	300	5.95		
XI. ROLLING STOCK.	7.1	74.		
II. GENERAL	-	-		
CHARGES. a. Direction.			30,005	595.7
c. Accounts.	15,630 4,350	810.3	-	1 1
d. Stores e. Medical. f. Native Adminis-	2,675 2,400	86.4 53.1 47.7		h = 1
tration.	1,200	23.8		4.4
Traffic.	3,750	74.4	Mar.	7
way to proper y	TOTAL	244	2,183:85 8	
			8,	778.71
0				
Add Cost of s between Nairo	x Regrades	*	A second	CFFL
Nakuru .		14	785	
	GRAND TOTAL	£445	968.85 8,	853 BB
	100			

KONYA AND OGANDA RAIL JAYS AND HARBOURS

UPLANDS - MAKURU REALIGNMENTS (THREE SECTIONS)

PRELIMINARY ESTIMATE

GINERAL ABSTRACT OF COST OF RAILWAY.

Section No.1. Uplands - Longonot.

Metre Gauge. Length of Section 16.97 Miles.

	-			-		
Head of Account			Head.	4	Me	in Head.
and Sub Head.	Cost.		Rate p	er.	Cost.	
I. PRELIMINARY EXPENSES			A	1	£.	£.
a. Survey Expenseb. Plantc. Establishment.	s. 1,187.	9	70	1	1,187.	9. 70
II. LAND	5,360		315.8		5,360	2.
III. FORMATION.	1		- 1	1	-categoria-	315.85
a. Earthworks b. Tunnels c. Walling d. Drains e. Clearing f. Road Diversions	12,500 1,650 1,100 500		736.59 97.23 64.82 29.46		45,350	8,505.11
IV. BRIDGEWORK.		0		1 8	0,668	
a Major Bridges. b. Minor Bridges c. Culverts. V. FENCING.	25,950 4,718	1	,529.16 278.02		,008	1,807.18
a. Fencing b. Boundary Posts. c. Gradient Posts d. Mile Posts e. Level Crossings f Notice Boards.	400 165 10 5 1,650 20		23.57 9.72 .59 .30 97.23		2,250	132.59
VI. TELEGRAPHS.		1			,372.75	
a Foles and Lines. b. Instruments.	1,272.75	-3	75 5.89		,572.75	80.9
VII. PERMANENT WAY.		-	7	. 26	,594.4	1 545
A. <u>Mein Line</u> . 1. Permanent Way. 2. Ballast.	18,962.45 4,011.95		17.4 36.4	7	14	1,567.1
B. Sidings. 1. Termanent Way. 2. Ballast	2,304 336	1	35.8			and the second
C. Points & Crossings.	980		19.8			

Carried Forward .. £212,783.05

Section No.1. Uplands - Longonot.

Head of account		Sub-Head.	Main Head.		
and Sub Head.	Cost.	Rate per Mile. £.	Cost.	Rate per Mile. £.	
	Brought	Forward	£212,783.05		
VIII. STATIONS & BUILDINGS.			10,860	639,95	
a. Station and Offices. b. Workshops and	3,675	216.56		4	
Stores. c. Staff Quarters. d. Station	4,015	236 59			
Machinery.	3,170	186.80	-		
IX. PLANT.			2,022	119.1	
a. Engineering. b. Construction c. Locomotive. d. Cariaso & Wagon. e. Station & Office.	2,022	119.1 -		maga attan	
X. FERRIES. XI. ROLLING STOCK		-		Con garage	
XII. GENERAL CHARGES.	9.59		10,109	595.7	
a. Direction. b. Engineering. c. Accounts. d. Stores. e. Medical. f. Native Administration. g. Loco and Traffic.	5,266 1,466 901 809 404 1,263	310.3 86.4 53.1 47.7 23.8 74.4			

TOTAL .. 2235,774.05 13,893.56

KENYA AND UGANDA RALL'AYS AND HARBOURS

UPIANDS - NAKURU REALIGNMENTS. (THREE SECTIONS).

PRELIMINARY ESTIMAT.

GENERAL ABSTRACT OF COST OF RAILWAY.

Section No.2. Longonot - Naivasha.

Metre Gauge. Length of Section 11.73 Miles.

Head of account		Sub Head	Ma	Main Head.		
and Sub Head.	Cost.	Rate per Mile.	Cost.	Rate per Mile.		
I. PRELIMINARY EXPENSES a. Survey Expensés. b. Plant.	821.1	70	821.1	70		
c. Establishment,	1,970	167.94	1,970	167.94 918.19		
a Barthworks. b. Tunnels c. Walling d. Drains e. Clearing f. Road Diversions. IV. BRIDGE/ORK.	490 450 45	41.77 21.31 3.84				
a. Major Bridges. b. Minor Bridges.	1,124	95.82	1,124	95.82		
V. FENCING. a. Fencing b. Boundary Posts. c. Gradient Posts. d. Mile Posts e. Level Crossin	117.5 6 5	10.02 -51 -42 12.79	283.5	24.16		
10 A. 2000	879.75 37.5	75 3.2	917.25	78.2		
A. Main ine 1 Permanent Way 13	,107.25 ,773.15	-,117.4 236.4	17,690.4	,508.1		
2. Ballast.	,152 168 490	98.2 14.3				

	-		State of the state			
Fred of Learning		Sub Hoed.	5	Main Head		
and Dish Road	Cost.	Rato pos Milo.	Tost	Rato p		
VIII sturios a	Pros	sht Forward	233,506	.25		
BULLDIFF			2,865	244.		
• Station and Office: • Workshop: and	1,260	107.42				
Staff Quarter . Chaff Quarter .	1.12	111.40				
Men Minery	78°	15.34				
a Engine erang b. Cora truetion c. Locomotive d. Apariage 4	1,197	. FTV.1	1,697	144.7		
Wegot o Station &	500	- 25 ₄ 8				
T. FERRIES	-					
DURAS.			6,987	595.7		
Engimering. Accounts Stores. Medical.	3,640 1,013 623 559	310.3 86.4 53.1 47.7	*	-		
Native wiminis- tration. Loss and Traffie.	279 873	23.8 74.4				
	,	POTAL	£45,055.25	3.841.03		

TELECO - BATRU AL LIGHTONT

PROLIBINARY DETUNCTO

GENERAL ABSTRUCT OF ODET OF RAILBAY

Silell - Nakuro

Hotre George Length of Section 21.67 Whice,

	T		-	
Boad of Appount	Bernander	th Road		In Wood
and they Read	Cost	Rate per	-	Pat. par
	1 .	10116		Wiles
			fre Cinn	4 - 5
I PREIDER	1			
mark.co/basia	1	1	1.546.9	***
· Survey Tapenses	1,516.9	70		
Flami.	1		•	
as cap as statent				1
II LOW.	8,000	for a grant point	me with	1
	8,000	92.29	P.000	92.29
III, FORMATION		1		
4. Daythworks	70.431	pline	#8" ATD	2.978.00
 Tumbels. 	. 0. 401	3.527:04		
d. Dreins	5,784	318.91		
e. Classins	4 128 . آمر 500	50.05		
1 Boad Myecalone.	100	23.07	- 4	
		4.61		-
17. BELLMENOPK		- 1	12.355 . 4	-6.
9. Major Bridge			AC., 2002,	570,14
D. Mintel Date America	9,740	454.00	- 4	
o. Culterts.	2,515	110.07	7	
V FENCING	1			
	1		4, 65	2277 1 1 1
b. Boundary Posts	1,900	7 97.60	7 1	
G. Gradiant towar 13	2.20	10.15	1	
v. Ello Fosta	30	1.38	*	
. Level Crossings	2.520	116.29		
. Motice Boards	13	.60	1	
VI TELEGRAPHS	4		1	
a T-1			1,725.25	79.6
b. Instruments	1,625.25	78		
	100	4.6		
VII. PERMANENT WAY	- 1	1		
A. Main Line		-	32,959.4 1	,520.9
A. FRIDEROLD TO THE	,204.3 T	2200.42	No. of Street	mark I ref
S. Ballast. S	123.1	236,42	TOW THE REAL PROPERTY.	
B. Sidings		133		
** FUITHBOOT Way	304	106.32	7 10	1
S C A POLICE AND A STORY	336	35.50	4	
C. Foints& Crossings	980	45.22	Service I	
March 1997	CONTRACTOR OF		15	

Head of Account	96	Sub Head,		Main Head		
and Sub Head.	Cost.	Rate per Mile.	Cost	Pato p		
	£.	£.	. 3	1 6		
	Brough	t Forward .	£140.199.5			
VIII. STATIONS A			5,665			
a Station and Offices b Workshops and Stores	8,645	185.06		PA: 4		
d. Staff Quarters.	2,920	134.76		1		
Rechinery.	100	4 61				
IX. PLANT.			2,564	\$10.1		
b Construction c Locomotive d Carties a	E, 582	Tiv.T		*		
9. Station & Office.	1. 1			4		
I. FERRIES.		-				
AI. ROLLING STOCK	- 4		9			
CHARGES	-					
a. Direction b. Engineering. c. Accounts. d. Stores.	6,724 1,872, 1,151	310,3 86.4 55.1	17.909	\$95.7		
f. Native Adminis- tration.	516	47.7				
g. Loco and Traffic,	1,613	23.0				
9 **		-		-		
1.0	TOTA	AL e	161,354.55	2 449		
- 100	-190		,004.00	~*************************************		

1Fat

KENYA AND UGANDA RAILWAYS AND HAPBOURS

UPLANDS - NAIVASHA REALIGNMENTS (TWO SECTIONS).

PRELIMINARY ESTIMATE

GENERAL ABSTRACT OF COST OF RAILWAY

Sections Nos.1, and 2. Uplands - Naivasha.

Metre Gauge. Length of Sections 28.70 Miles.

	-				
Head of Account and Sub Head.		ib Head.	Mad	Main Head.	
this out nead.	Cost.	Rate per Kile.	Cost.	Rate per Mile.	
I. PRELIMINARY EXPENSES.		1		€.	
a. Survey Expenses. b. Plant. c. Establishment.	2,009	70	8,009	70	
II. LAND	9,330	255.4	7,330	255.4	
III. FORMATION.	195		756,050	5,437.28	
a. Earthworks b. Tunnels c. Walling. d. Drains. e. Clearing f. Road Diversions.	139,515 T2,50b 2,140 1,350 545	4,861.15 485.54 74.56 47.04 18.99		3,437.28	
a. Major Bridges b. Minor Bridges c. Culverts. V FENCING	25,950 5,842	904.18 203.55	31,792	1,107.73	
a. Feming. b. Boundary Posts. c. Gradient Fosts. d. Mile Posts. e. Level Crossings. f. Notice Boards.	400 282.5 16 10 1,800 25	13.94 9.84 56 .35 62.71	2,583.50	88 ; 27	
A. Poles and Lines. D. Instruments. L. PERMANENT WAY.	4,282.5 137.6	4.90 4.90	4,420	154.01	
1. Permanent Way. 4	0,853 7,370.15	1,423.45	54,447	1,897.10	
Poster	3,760 864 1,600	131.01 30.10 55.76		7	
A STATE OF THE PARTY OF THE PAR	1	200.40	- 13	1.	

ad o. Account	. 8	lub Head.	1 14	iin Head.
m Head.	Cost.	Rate per	Cost.	Rate per
the state of the s	f.	Milo.		Mile.
	Downer	-	- time	E.
UTIT :mamahan	ar ough	t Forward .	. 6850,581.5	
FOILTS &		Ī		-
. Spation and	1		15,785	478.2
Offices .	4,935	171.95	и	
Workshops and Stores.		1.1.00	İ	
d. State Quarters	5,440	189.55	1	
Machinery.	3,350	1		1
	0,000	116.72		-
IX. PLANT	1	-	1.836	187.84
a. Engine cring.	4 500	-		
d. Carriage &	4,230	147.39		
WARD B				
e. Station & Office.				
	300	10.45		
I. FERIES.		-		
XI. ROLLING STOCK.	-		- 1	
XII. ŒNÆL		- 1		
CHARGES	1	- 1		
a. Direction		!	20 -555	716.20
C. Accounts	10,105	358.09	-	
a. Stores	2,170	117.77		
e. Medical. f. Native Adminis-	1,600	75.61 55.75	-	
tration.	800	27.87		
Traffic	2,500	1		*.
	~,000	87.11	1	
	TO	MAL E	202 201	-
			297,391.5 1	0,362.07
	~4		-	
add for 14 Mi	nor Regrad	00		
between Naire	Deversion			
. Nakuru,	or and	3 4	21\975)
The state of the second	Chemonia.	See The		Stand by
	GRAND TOT	AL . £3	19,366.5 11	,127,75
26% w.20		·····································	********	200

KENYA AND UGANDA RAIDIAYS AND HARBOURS

PRELIMINARY SETTINATE.

TERAL ABSTRACT OF COST OF RAILWAY.

ngonot.

Metre Gauge ath of Secti 18.97 Miles

Read of Account		Bub Head. Main Head			
and Sub Head.	Cost.	Rat	s per	Coat	Main Head.
I. PRESIMINARY			4	1	1 3
a. Survey Expense b. Plant. c. Establishment.	1,167	L	70		70
II. EAND.	9,360	3	5 ás		515.85
a Earthworks. b Tunnels. c Walling. d Drains. c Clearing. f Road Diversions	12,500 1,650 1,100 500	73	7.01 6.59 7.25 4.82 9.46	145,550	0,565.11
a. Major Bridges. b. Minor Bridges. c. Oulverts.	25,980 4,71B	1,529	-16	30,666,	1,807.18
a. Fencing b. Boundary Posts. c. Oradient Posts. d. Mile Posts. e. Level Crossings f. Notice Boards.	400 165 10 5 1,650 20	99	.57 .72 .59 .30 .23	8,250	152.59
VI. TELEGRAPHS. a. Poles and Lines. b. Instruments.	2,523	148.	50	2,623	154.57
Main Line. 1. Fermanent Way. 2. Ballast.	24,155.95	1,423.	45	32,663	1,924.75
. Sidiogs. 1. Per anent Way. 2. Ballast.	2,506.65 576	256. 147. 33.	71		
· Points & Crossings.	1,066.65	8.88	5		AI,

Section No.1. Uplands - Longonot.

Head of Account and Sub Head.	-	ib Head.	Main Head	
and Sup Read.	Cost.	Rate per Mile.	Cost.	Rate per Mile.
A. Istan	Brought	£.	E.	£.
VIII. STATIONS & BUILDINGS	Diodent	Forward	£220,101.9	
a. Station and Offices. b. Workshops and Stores.	3,675	216.66	10,860	639.9
c. Staff Quarters. d. Station Machinery.	4,015 3,170	836.59	ē.	
IX. PLANT.	3,170	186.80		
a. Engineering. b. Construction. c. Locomotive. d. Carriage & Wagon. e. Station & Office.	2,501	147.4	2,501	142_4
I. FERRIES.	37.7			b 1,
I. GENERAL CHARGES			;	
Stores. Medical.	,283	52 16 75 56	12,154	716
tration. Loce and Traffic.		88		-
	TOTAL	£2	45,616.9 14	

KENYA AND UGANDA RATURAYS AND HARBOURS

UPLANDS - NAIVASHA REALIGNMENTS. (TWO SECTIONS).

PRELIMINARY ESTIMATE.

GENERAL ABSTRACT OF COST OF RAILWAY.

Section No.2. Longonot - Naivasha.

Metre Gauge. Length of Section 11.73 Miles.

Head of Account		Sub Head.	Me	Main Head.		
and Sub Head.	Cost.	Rate pe	er Cost.			
	-		£.	£.		
I. PRELIMINARY EXPENSES.		-	821			
a. Survey Expenses	821.1		. Orași	70		
O. Fiant.	-	70	1	1		
c. Establishment.	-	-		1		
II. LAND.	1,970	167.9	4 1,970	167.94		
III. FORMATION.	100	1	No.			
a. Earthworks.	1	1	10,700	912.19		
b. Tunnels.	9,915	845 81	7			
O. Walling.	1 -	1 5 0		1		
e. Clearing	490	41.77	, -	1		
f. Road Diversions.	250	21,31		-		
	45	3.84		- 4		
IV. BRIDGEWORK.	-			1		
a. Major Bridges.			1,124	95.82		
D. Minor Bridges	-		100	1		
c. Culverts.	1,124	95.82		-9		
V. FENCING.		20.02	283.5	- '		
a. Fencing.	-		200.5	24.13		
b. Boundary Posts. c. Gradient Posts.	117.5	10		1		
d. Mila Posts	6	.51		1 .		
e. Level Crossings	5 150	.42	1			
f. Notice Boards.	. 5	12.78	1	5-00		
VI. TELEGRAPHS.	~	. +6	1 .	1		
	1		1,797,0	300 -		
a. Poles and Lines. b. Instruments.	1,759.5	150	,,.	153.2		
o. Instruments.	37.5	3.2	. **			
II. PERMANENT WAY	. 1	9				
A. Main Line.	with the Towns	1 . 4	21,784	1,857.11		
1. Fermanent West		0.00	La telepid	DA TO		
1. Permanent Jay 1 2 Ballast 2	6,697.05	1,423.44		The state of the s		
B. Sidings		256.80	and a	Was Ask and		
L. Pel manent War	050 05		THE RESERVE OF THE PARTY OF THE	The second second		
2. Ballast.	1,253.35	106.85	1	Friday P		
	E. Y	24.55				
Education a diossings.	533,35	45.47		W. 1 1 W		

Carried Forward .. 238,479

Section No.2. Longonot - Naivasha.

Head of Account and Sub Head.		Sub Head.	Main Head.	
	Cost.	Rete per	Cost.	Rate pe
	£.	£,	E.	Mile
	de la constitución de la constit		100	-
	Broug	ht Forward .	£38,749.6	
BUILDINGS.			2,865	
a. Station and			2,005	244.2
offices. b. Workshops and Stores.	1,260	167.42		
c. Staff Quarters.	1,425	121.48		134
Machinery.	180	15.34		
IX. PLANT.	· ·		0.000	
a. Engineering.	*		2,029	178.90
c. Locomotive.	1,729	147.40		
Wagon. e. Station &	-	-	1	
Office.	300	85.57		
X. FERRIES.	ES - 10		1	
XI. ROLLING STOCK.	**	- 18		
CII. GENERAL		•	-	
CHARGES			8,401	
Direction.			-,	716
- Engineering	4,130	352		
. Accounts Stores.	1,381	118		
. Medical.	887 654	75	1	
. Native Adminis-	9 0100	56		*
tration.	327	. 23	- 1	-
	1,022	87		
A PLANTAGE	, N			123
		TOTAL	251,774.6	dimen
			4.0	,413.86

	1938	
38179	CO533/495	38179
- N	Henrya - Uganda Raibway	
	Ra J. Stones and Person	
Previous	V	
Sylvanus		
. 1959		
41		
La Cartin	2/6	
Gr. Bistop	46	
198 291	19.	
Rar	4	
Reg Inclination 36	12 25)	
299	ad a	
A STATE OF THE PARTY OF THE PAR	28 Photo Carlotte Charles	-

AN Minsty 819193/28/13 Suggests that in cres states proper rates and il Deutal charges for Gunspatation of RAT stones. personal one to KOR shows he free at a point wet ZATE water ally exceeding operating coto. There is presumably us newson to raise any objection to a proposal whendy the Imperial cont will receive treatment of the same kind as the Kenya Good on the KUR The Pressury bun' rate reductions (bending settlement of be 5/2 undlin debt) is scarrety letterly to be excercised in this case; but it will be hecesary to cauself them with reference to No 10 on 381/9/16/37. When there has been some it will preormably also be necessary to refer to be High Comme for ventration of the last soutene in 2 To Freasury accordingly, & interim refly to A/M. Clake while 15/10

It is so obvious that the freezery wouldhe prepared to approve an arrangement for the
thesport of R.A.F. stores and personnel on the
K.H.B. at cost price, that I do not think they need
be consulted.

on the other hand a re by to the Air ministry that the Secretary of State agrees to Cheir entering into negotiations with the K.U.R. to this end would be tantamount to a decision in favour of the principle, and would narrow down the field of the negotiations to a discussion of the actual rates to be charged in accordance with that principle.

I am accordingly inclined to think that before agreeing to these negotiations being underthien we want first to write to the High Commissioner as in light necessaries.

19.10.1

Am comment from

your Manuel from

A.M.

How the it have discussed.

No comments.

Little Sumpert 66 (41) Som a 2 2 32.

To Att. (Mes) (Man) der ministry Lity R. M. Clorke titule St. XL Super Land B. in an 25% of nothing in Collabolite C.O.

Mr. Pauking /9/10/58

Mr.

Mr. A. J. Dane.

Sir G. Tomlinoon.

Sir J. Shu Murgh

Party U.S. of S.

Secretary of Sta

38179/38 Kenya,

DONNELS GREEK

E 2 NOV 1958 COLUMN 10 1

Bir,

fun stor to ask, the receipt

of your letter No. 810103/20/7.5 or

10th or october in which it is propose

that the Air officer Commatte Amount

be sutherised to enter into ne of tellions

with the anathernation of the hours on

Brance Ballwaye, for the Oting or reter

(and in other incidental charges)

for the transport of R.A.P. meterical

and pageon et a to point will be so me no

saterially exceed actual eperating

coats, and to request you to inform the

Air Council that he has thought it desirable in the first instance to

obtain the buervatting of the light

Commissioner for Transport upon this

proposal.

DRAFT.

THE UNDER ANCHHOLIT OF

AIR MINISTRY.

To Ha. 26. 10.38

FURTHER ACTION.

purposes of Imperial defence, I trust that you will be able to accept the Air Ministry proposal, and I repust that I may be furnished with your observations as soon as possible. I have, etc. (STROOD) MALODEM MACDONALD HOLBORN 3434

TELEPHONE TEXTS 1104 Any communications on the be addressed to :--

77800 UNDER SECRETARY OF STATE

she following numbe

819193/38/F. 3.



AIR MINISTRY

LONDON, W.C.2

October.

Sir.

I am commanded by the Air Council to acquaint you. for the information of Mr. Secretary MacDonald that as a result of discussions which have taken place between the local ministration and the Chief additor and Adviser on Expenditure to the Air Officer Commanding, Royal Air Force. Middle Bast, they have had under consideration the question of charges arising in respect of transportation of Royal Air Porce stores over the Kenya and Uganda railway systems.

Royal Air Force traffic, which flows mainly between Mombass and Nairobi is, in common with other Government traffic normally charged on the basis of public rates less 15%. On occasion, however, and where large consignments of one class of material have been involved, ad hoc arrangements have been made to apply specially reduced charges.

3. Since the cost of the Royal Air Force in East Africa is being borne by Imperial funds, and as large quantities of traffic will regularly be passing over a well-defined route. it would not seem unreasonable to ask that specially low and favourable terms should be given in respect of Royal Air Force stores. During discussion it was gathered that the Kenya Railway Administration would be prepared to make very drastic reductions in railway freight rates provided Colonial Office authority for the concession was forthcoming.

The Under Secretary of State, Colonial Office. Whitehall.

I am to state that, in view of the circumstances that freight rates for Royal Air Force material transported by rail in East Africa should be fixed at a point which will not materially exceed actual operating costs, and to request that you will be so good as to give this matter consideration with a view to authorising negotiations to proceed for the fixing of charges on this basis between the Railway Administration and the Air Officer Commanding, such authority to cover not only actual freight rates but such incidental charges as demirrage, cranage etc.

5. I am also to suggest that similar negotiations should be authorised in respect of the conveyance of Royal Air Force personnel over the railways.

I am, Sir, Your obedient Servant.

hote 1