

15
DESPATCH

EAST AFR. PROT.

No. 1

6419

1908

(Subjunto.)

1908

Re Aft.

Last previous Paper.

Sends report by Advocate for another proposal for establishment of wireless telegraph line to
Kenya, & sends another number preferable to have 19 KAR areas.

(Minutes.)

Mr. Johnson

1908/5

Mr. Ellis

1. It is very provoking that they have omitted to enclose the charts referred to within & also the report by Captain Burde on the Zanzibar Point installation, we should like copies of these.

2. We have seen recently Nigerian paper in aid to you for information ^{about} to that installation, and we had better wait for a reply to the letter sent to the Lagos Committee [of competition] which the Telegraph Co. was soon

to us Committee will the proposed
establishment of a telegraphic connection
between British and German East
Africa cost us £100,750 and the
Committee (Report p. 115) found it to
desirable to know exactly what
legislation the Govt. contemplates
(see our telegram 13279)

Telexgraph. Referring to your
telegr. of 14 April & send home draft
~~and have~~ ~~and~~ ~~telegraphs~~ as soon as
possible also send charts and Bards report
referred to in your despatch No. 161.

3. It will be seen that this scheme
will cost £42,000 instead of £200
as ('wrongly') deciphered in 13279. I
am rather sceptical as to the
remunerative character of this
expenditure. Can you say whether
you are likely to have any difficulty
in inducing the Treasury to sanction
it, having regard to the other
telegraph expenditure proposed by

Before in
legislation

considered
different
modus
M

X
The
Treasury
have
agreed
the
Date
for

Governor's Office,

Mombasa,

April 10th 1908.

EAST AFRICA PROTECTORATE.

No. 181

(Incl. 2)

1641

By Lord.

*H.C.
12530*

With reference to the correspondence ending with your Lordship's telegram of the 11th instant on the subject of a wireless telegraphic connection along the coast to connect the Italian system with ours and the main home line, I have the honour to submit two reports by the Postmaster General which appear to me to make out a good case for an installation at Mombasa which will meet the wishes of the Italian Government and at the same time give us telegraphic communication with the outlying Province of Jubaland, which has long been required for political and military reasons. The reason why Mombasa would be preferable to Lamu for working a wireless system of telegraphy with Italian Somaliland and the financial aspect of the question, are fully set forth by the Postmaster General.

2. I have consulted with the Inspector General, King's African Rifles, who fully concurs with Mr. Gosling's proposals. He would, of course, prefer to have Kisimayu connected direct with Mombasa, then indirectly by a land line from Kisimayu to Shimbo, but such a direct connection might cause confusion and

would

PRINCIPAL SECRETARY OF STATE

FOR THE COLOONIES

DOWNING STREET

LONDON, S.W.

would not at present be financially defensible. Arrangements would have to be made with the Italian Government to ensure the prompt transmission of telegrams from Kisimayo to Mombasa, and it will be necessary for us to retain the right of having our own operator at Quimby when necessary. The Provincial Commissioner at Jubaland, too, will have to be provided with a confidential code. With these precautions I do not see that any difficulty need arise in connection with the transmission of telegrams to and from Kisimayo through Quimby.

5. As regards the financial aspect the Postmaster General estimates that the land line connecting Kisimayo with Quimby would cost £4,500 and the installation at Mombasa, including the services of an expert operator for a year £1,200; and that sufficient revenue should accrue to meet all charges for maintenance and depreciation. This to commence with; as traffic increases the connection should prove a paying concern, both Northwards to the Somaliland Coast and Southwards to Zanzibar, whilst the cost of the land line will be well repaid by the advantage of bringing Jubaland into telegraphic communication with Head-quarters.

4. I agree with the Postmaster General that the installation at Mombasa should be of the Helicon pattern; it will probably be worth the trouble of the Zanzibar Government to instal a similar system at Zanzibar, to connect directly with the

would not at present be financially defensible.
Arrangements would have to be made with the Italian Government to ensure the prompt transmission of telegrams from Quimbo to Kisimayu, and it will be necessary for us to retain the right of having our own operator at Quimbo with necessary. The Provincial Commissioner, Jubaland, too, will have to be provided with a confidential code. With these precautions I do not see that any difficulty need arise in connection with the transmission of telegrams to and from Kisimayu through Quimbo.

5. As regards the financial aspect the Postmaster General estimates that the land line connecting Kisimayu with Quimbo would cost £2,000 and the installation at Mombasa, including the services of an expert operator for a year £1,200; and that sufficient revenue should accrue to meet all charges for maintenance and depreciation. This to commence with; as traffic increases the connection should prove a paying concern, both Northwards to the Benadir Coast and Southwards to Zanzibar, whilst the cost of the land line will be well repaid by the advantage of bringing Jubaland into telegraphic communication with Head-quarters.

4. I agree with the Postmaster General that the installation at Mombasa should be of the Marconi system; it will probably however be while of the Italian Government to instal a similar system at Quimbo to connect with Kisimayu and

public would be by an alternative and cheap means of communication between the two ports the traffic between which is rapidly increasing.

5. If those proposals meet with Your Lordship's approval it will be necessary to procure for the alteration of the Recovery Point as you believe for the year could not support the charge.

6. Captain Salkeld reports under date the 7th ultimo that all radiotelegraphic material has been landed at Guimbo by road or sea, except one large load which seems all important material being August. He is informed that the Station at Guimbo will be ready by August next. The Emperor Navigation Company has contracted to carry all material for the Lush and Bindura Stations as far as Bindura.

I have the honour to be,
With the highest respect,

My Lord,
Your Lordship's most obedient,
Humble servant,



INCLOSURE NO. 1

Registered No. 226708
12

In Despatch No. 144 of April 1910.

C.O.
t6419

Protector General's Division, S.E.A.

Mombasa, 1910

6th April 1908.

Communication between
Kenya and Italian Territory
by wireless telegraphy.

000

Sir,

I have gone very carefully into this matter and have been in communication with the Acting Provincial Commissioner of Jubaland, at Kismayu, I have also considered the report on the Zanzibar installation which you were good enough to obtain for me and have discussed questions affecting the configuration of the Coast Line with Captain Wilson of the Protectorate a.c. "Juba" who has an excellent knowledge of the Coast between Mombasa and Kismayu. I have further discussed the proposal with the present Inspector General of the King's African Rifles whose predecessor (General Manning) strongly advocated telegraph communication with Jubaland for military reasons. In the following paragraphs I am summarising the views of the authorities mentioned together with my own opinions.

SUMMARY OF TELEGRAPH COMMUNICATION
WITH JUBALAND.

1. I would first remark that the provision of a British installation as contrast with the Italian

H.M.S. Government.

Kenya and Mombasa.

wireless service in July.

account of the pressure with of His Majesty's
Government against the Italian Administration and
for local reasons. I would remind you that the
establishment of telegraph communication with Jubaland
(Kismayu) has been strongly advocated from time to time
by local officials - this mainly on account of exigencies
of the military and political situation. It has not
hitherto been arranged owing to the difficulties
described below.

LAND LINE, OR CABLE, PRACTICALLY
OR ECONOMICALLY IMPOSSIBLE.

3. In existing circumstances it is impossible
to connect Kismayu with the ordinary telegraph system
of the Protectorate because, in the first place, the
country between Loru and Kismayu, which a land line
would have to pass through, is not effectively occupied
and there would be neither security for the line nor
safety for the telegraph officers (linemen) employed
for its maintenance. In the second place the country
along which the line would have to pass is deeply
indented by creeks and the country is one in which
any case, both the construction and subsequent main-
tenance of a telegraph line would be difficult and expen-
sive. In the third place although the Government
exchanged with Kismayu would be very impor-
tant it is certain that for the present at least it
will not be a sufficient commercial traffic to
justify the cost of commencing with the cost of
providing, guarding, and maintaining a line.
The provision of a cable would be even less ad-
visable.

financially than a land line. Its first cost would be much greater, although in the ordinary way the cost of maintenance would perhaps be less, the expense of repairing a single breakdown (involving the bringing of a Cable Ship from a distance) would probably exceed the total revenue for many years.

ACCEPTANCE OF ITALIAN PROPOSALS
RECOMMENDED.

It will be understood therefore that the granting of the Italian request for British co-operation in establishing wireless telegraphy with Jubaland will furnish a means of communication the need of which has been felt on the British side for several years past, and is in fact the only way by which telegraph communication can be economically provided. The acceptance is recommended by the Acting Provincial Commissioner in Jubaland for political reasons and by the Inspector General of the King's African Rifles on military grounds. I also recommend it as financially sound in that it would yield a satisfactory revenue provided that the British Installation is at Kismayu. The only difference of opinion I have with the authorities mentioned is that they would like to see a separate British installation at Lamayu (to work to another British installation at Lemu, or Mombasa) instead ^{of} making use of the Italian Station which I understand is to be placed at Giumbo about 11 miles north of Kismayu. If the Italian installation is utilized it will be desirable to have a land line connecting the two places. I do not think the circumstances warrant the expense of such a line.

separate British Installation: further I am inclined to think that the existence of two installations of wireless telegraphy (one Italian and the other British) within 11 Miles of each other would cause inconvenience to both parties, and that the receipt of long distance messages by a British Installation at Mombasa would be hampered by the relatively stronger signals from the Italian station at Lamu, near by. It might be possible to avoid this by "tuning" wireless frequency (which is the chief reason advanced for a separate British Installation) which might not easily be obtainable, and in any case a British Installation at Mombasa seems to be essentially in the foreground of consideration.

LOGICAL CONSIDERATIONS.

B. But whilst I consider that the proposal to connect with the Italian wireless system should be adopted, I do not favour the suggestion to place the British Installation at Lamu. I would prefer to see it at Mombasa. There are technical reasons for this which I am giving, together with other technical information, in a separate memorandum to facilitate reference to the authorities on wireless telegraphy in England. But the chief point in favour of Mombasa against Lamu is that whilst an installation at Mombasa would bring substantial financial advantages even if it were not actually self supporting from the outset, Lamu would not be likely to yield a satisfactory return for a number of years. We have to bear the fact that neither Italian or British Jubaland has a trade of a nature likely to cause the sending of any considerable number of messages, and that unless the Government

separate British Installation: further I am inclined to think that the existence of two installations of wireless telegraphy (one Italian and the other British) within 11 miles of each other would cause inconvenience to both parties and that the receipt of messages by one party through the British installation at Lamu would be hampered by the relatively stronger signals from the Italian station at Giumbo. Now by - it might be possible to avoid this by "tuning" but strict economy (which is the chief reason advanced for a separate British installation) might not easily be obtainable, and in any case a British Installation at Lamu seems to be essentially a matter for future consideration.

LAMU CONSULTATIVE.

5. But whilst I consider that the proposal to connect with the Italian wireless system should be adopted, I do not favour the suggestion to place the British Installation at Lamu. I would prefer to see it at Mombasa. There are technical reasons for this which I am giving, together with other technical information, in a separate memorandum to facilitate reference to the authorities on wireless telegraphy in England. But the chief point in favour of Mombasa against Lamu is that whilst an installation at Mombasa would bring substantial financial advantages (even if it were not actually paid supporting from the outset), Lamu would not be likely to yield a satisfactory revenue for a number of years. It has to face the fact that neither Italian or British Jubaland has a trade of a nature likely to cause the sending of any considerable number of messages. What value the Government

prepared to erect a wireless installation under conditions in which the receipts will not even pay the working expenses the idea of locating it at Lamu may be abandoned.

FINANCIAL DIMENSIONS OF MOMBASA.

6. In addition to the technical advantages of Mombasa as a site for the wireless installation there is the very important point that if we had wireless station at Mombasa we could provide for a regular telegraph traffic of wireless messages to Zanzibar and Pemba where similar installations have already been erected. The cable traffic between Zanzibar and Mombasa has practically doubled during the past three years and is now worth about £1200 per annum to the Cable Company. The rates are very high the cable charge being approximately 5d per word in addition to the land rate or "terminal". This rate is excessive and for purposes of comparison I mention that the charge for this short distance of 160 miles between Mombasa to Zanzibar is one half of that from London to New York.

PROBABLE EXPENDITURE AND REVENUE.

7. From the report of Captain Berde on the Zanzibar/Pemba Installation it would appear that the minimum cost of erecting a single wireless set at Mombasa would be £1200 including the services of the contractor's expert employees for one year. The actual cost would probably be more since greater power would no doubt be required to transmit signals over the distance of 300 miles from Mombasa to Kisumu than is essential for the 62 miles between Zanzibar and Pemba. The line from Giumbo to Kisumu has also to be considered.

Taking the fixed cost at £3000 and the working and maintenance charge per annum and allowing 10% per annum for interest and depreciation the revenue required to make the installation economically satisfactory would be:-

(a) To meet working expenses	£150
(b) Interest and depreciation	
10% on £3000	£300
	<hr/>
	£450

I think that we can safely rely upon a sufficient revenue from wireless messages exchanged with British and Italian Jubaland and Zanzibar and Zomba to meet these charges.

THE COMPETITION WITH CABLE COMPANY.

8. In connection with these proposals it has been suggested to me that the Cable Company (the Eastern Telegraph Company) might consider that it had a moral claim to be free from the competition of a Government wireless installation, and I think I should say at once that I do not share that view. In the first place wireless telegraphy is bound to affect the cable receipts sooner or later, and in this respect the Cable Companies are in the same position as any other person or Association whose business suffers from new inventions. In the second place the cable traffic between Zanzibar and Bombay which alone would be affected, is relatively only a small proportion of the Cable Companies' total business. The gross cable receipts for messages to and from Zanzibar are now approximately £1400 per annum. Of this the Zanzibar traffic (£1200) is about one half of which

it is unlikely that more than half (or £...) will be lost to the Company as a result of wireless competition. Further the number of cablegrams to and from East Africa is increasing so rapidly that even if the whole of the Zanzibar traffic were lost to the Cable Company, as the result of wireless competition, its gross receipts from all classes of cablegrams would probably be greater for the first twelve months after the provision of the wireless installation than for the year previous, i.e., the amount which would be lost to the Company be less than its normal annual increment of revenue.

CONCLUSION.

9. In conclusion I wish to say that I am of opinion that by establishing a wireless station at Mombasa we should meet the wishes of the Italian Government, and at the same time obtain an adequate revenue both for our own installation and for that of the Zanzibar Administration, whose system is now working at a loss. Even assuming that the anticipated revenue were not realised owing to competitive reductions in the cable rates this latter would confer a substantial advantage to the Commercial Community. After perusing Captain Berdo's report on the Zanzibar installation I consider that the wireless station at Mombasa could be easily worked and maintained by our present staff if a contractor's expert employee were lent for one year as in the case of Zanzibar.

I have the honour to be,

Sir,

Your obedient servant,

S. J. Coalby

Postmaster General

Laycock No 161 of 42 W 1903.

Memorandum concerning Mr. Sealing's despatch
No. 13/03, Secretariat Dispatch Paper 429/03) re
Wireless Telegraphy in and from Jubaland.

1. The Italian Government has decided to establish wireless telegraphy between certain stations in Southern Somaliland (or Jubaland), an Italian Colony also known as the Benadir Coast, situated on the East Coast of Africa to the North of the Juba River, and it is proposed that in order to afford a connection between the Colony and the outer world a wireless telegraph station should be provided at some place in British East Africa having ~~connection~~
either by cable or land line, with the International Telegraph system.

2. The Italian wireless station from which this connection is desired, and which is being equipped with special power for long distances working is situated at ~~Twante~~ on the left (or North) bank of the Juba river, some two miles from its mouth and about 11 miles to the north of the British East Africa port of Mombasa.

3. The British territory to the South of the Juba river, so far as known, is not effectively occupied. The coast line is generally low and sandy with low sand ridges inland. A range of hills extends for 60 miles to the North of Lamu with a maximum ~~height~~ ^{elevation} of about 700 feet. There is no other land of any considerable extent intervening between Jubaland and the proposed British installation. Two Sheets showing details

INCLOSURE

Despatch No. 16 of April 1st 1908.

380

Benzonium accompanying Mr. GOSLI Despatch
No. 13/08 (Secretariat Minutes April 17/08) re
Wireless Telegraphy in and from Somaliland.

The Italian Government has decided to establish wireless telegraphy between certain stations in Southern Somaliland (or Jubaland), an Italian Colony also known as the Benadir Coast, situated on the East Coast of Africa to the North of the Juba river, and it is proposed that in order to afford a connection between the Colony and the outer world a wireless telegraph station should be provided at some place in British East Africa having ~~communication~~ either by cable or land line, with the International Telegraph system.

2. The Italian wireless station from which this connection is desired, and which is being equipped with special power for long distance working is situated at Quimbo on the left (or North) bank of the Juba river some two miles from its mouth and about 11 miles to the north of the British East African port of Mombasa.

The British territory to the South of the Juba river, as far as Isuru, is not effectively occupied. The coast line is generally low and sandy with low wooded ridges inland. A range of hills extends for 60 miles to the north of Isuru with a maximum height of about 700 feet. There is no other land of any considerable ~~surface~~ extent intervening between Quimbo and the proposed British installation. Topographical details

4. The Italian Authorities have suggested that the British Installation should be at Lamu but are wrong in assuming that Lamu is the landing-place of the International Cable. Lamu which is some 150 miles from Mombasa is admittedly connected by telegraph with the International system, but the connection is made by means of a land-line extending from Mombasa (where the cable is landed) along the coast to Lamu. This land-line passes through a very difficult country and during recent years has been frequently interrupted. It has lately been partly re-constructed but is even now not working satisfactorily. From the point of view of securing continuity of communication with the cable the British wireless station would be better located at Mombasa.

5. A second reason against the placing of the British Installation at Lamu is the configuration of the coast. It will be seen from the accompanying charts that a direct line from Lamu to Gwando is entirely overland owing to the projection of Manda between the two places. Further this direct line Lamu to Kisimayn passes over the range of wooded hills already mentioned which is about 50 miles long at a maximum height of about 700 feet. This seems of importance having regard to the known difficulties of working wireless telegraphy overland and particularly over wooded hills. I understand that an installation of the Post Office failed as a result of a similar range of hills being situated between stations.

5. A third reason against the adoption of
a site for the British installation is that it is
clear from Capt. Pado's report on the wireless telegraph
between Zanzibar and Lamu that such interruptions as
are likely to occur along the coast are rather of a
mechanical than of an electrical nature. Thus Capt.
Pado states that they had to cast a new part of the
oil engine, and that defects of clockwork and of a
spring had to be made good. Further that the insulators
supplied had to be replaced No. 60. It therefore
seems desirable that the British installation should
be located somewhere where there are resources for
meeting such faults or deficiencies, and at Lamu there
is particularly nothing of this nature. Moreover Lamu
is, in a transport sense, rather cut off from the outer
world, depending as it does on the visits of steamers
which do not call with sufficient frequency to afford
a weekly mail service.

7. As compared with Lamu, Mombasa is double the
distance from Quimbo, viz., 300 miles, but a direct line
from Mombasa to Quimbo passes for most of the way over
the sea and where it touches the land it crosses only
a low coast line. Further Mombasa has considerable
resources for the making of repairs. From Mombasa,
too, communication with the wireless installations at
Zanzibar and Senna should be more easily obtainable
than from Lamu, and it is desirable to link up the
different wireless systems on the coast of East Africa.

8. In connection with the foregoing a question
arises regarding the possibility of powerplants

between stations employing different systems of wireless telegraphy. I understand that even where this is possible, there is sometimes exhibited by the engagements required by the different Wireless Telegraph Syndicates. The point is of importance in that the Italians will probably use the Marconi system whilst the Zanzibar installation is by the Lodge-Hairhead Syndicate. Captain Harde suggests that the system employed at Mombasa (or Lamu) be similar to that at Zanzibar in order to facilitate communication, but since it would appear that the difficulty of communication from either Lamu or Mombasa to Zanzibar will probably be greater than between Zanzibar and Mombasa, it seems desirable to adopt the Marconi system in order that the longer and more difficult service should have the most favourable conditions. There is, however, a further consideration bearing upon this point in that the Zanzibar and Pemba installations are already working and it would presumably be difficult to alter them, whilst in East Africa we can obtain an installation adapted to the requirements and the Italian Government would probably be willing to adjust their system to ours in order to provide for the connection with the cable which they particularly desire. The question is essentially one for experts.

9. There are convenient situations at both Mombasa and Lamu, having an elevation of about 100 feet above the sea level, upon which wireless installations could be erected. At Mombasa the available site is the highest on the island and there is no high ground immediately intervening in the direction of either

Quimbo or Zanzibar. At Lam there is high land near by, and owing directly between the most convenient site for the installation and both Zanzibar and Quimbo.

10. In addition to lines shewing the direction and distance between Quimbo and Lam and Lam and Zanzibar respectively I have enclosed upon the accompanying chart lines of direction from Mombasa to Lungwini Island, and thence to Quimbo. Lungwini Island is approximately 110 miles from Quimbo and 190 from Mombasa. There is a small port, Kinango, on the mainland, opposite the Island, where there is a Customs Station of the Protectorate. There is no European settlement at the place and such trade as exists is carried on entirely by native craft. The Custom Master takes Indian and 7 underaged Ma Quilani - each is not less than £100 per annum. Considered as a possible intermediate station in the event of direct communication between Mombasa and Quimbo being found impracticable it has the advantage of standing out from the coast so that its vicinity to both Mombasa and Quimbo would pose almost entirely over-sea. It is not altogether out of touch with civilisation and its native trade might perhaps yield a small telegraphic revenue.

General Post Office,

Mombasa

10th April 1908.

J. G. A.
POSTMASTER GENERAL

Gov

S.A.P.

391

16419

Sept 25

DRAFT telegram

Sadler
Nairobi

MINUTE

Mr Webb 16/5

Mr Ellis

11/10/16/5/

Mr Justice

Mr Agarwal

Mr. S. C. D.

Mr. H. M. A.

Mr. H. M. A.

Mr. Churchill

Port of Elgin

(Gov)
16419

Enclosed

16 May

Telex.

Referring to your telegram
aggressively, northward
14 April previous to
hereditary vice minister
introducing legislation for
genital
telegraphs and home
as soon as possible

as follows

Draft ordinance

and

charts

and Bardos report

glossary

referred to in

garrison

enclosures in your despatch

Gov

16419

161

C. rewe