38022CO533/464 38022 Sisal Fromstry Decorticating Machinery R.297 21/7 A 29 y 22 1935 M. Paskin. Rigy 23 m. Caine R.309 m: Stoulde 13/7 122y Sui g. Compbell 23.7.36. R 208 Sui C. Botton ley. 24.7 1. luster 24 / 1937 25 6/8 2.8 mistour dale 1670 -13/8 m rank 5 14-3(54) 24 17/4 Sin C Botta PALL GOLDEN R297. (Kin) (1s) (Riskon) (An) (Kin) (An) * K.209 m: Stogustu hi Parkin m: Stochdale N. Stripedale 7/5 m: Flood 1 R297 8/S 297 Sir, Hampbell. Mulaskin 1/1

H y drawtie Flood Capt: Mangnall came in to see me on April. 2nd and he then reported that the new model of his

> sisal decorticating machine was apparently giving satisfactory results in Kenya as he had been asked to replace the two earlier machines supplied (one in Kenya and one in Uganda) with new models.

> He said that he would require financial assistance from the Colonial Development Fund in orde to do this, and I asked him to write in on the matter The attached letter, dated April 4th, came

in during my absence on leave. In this, Cant.

Mangnalliasks for further financial assistance on the lines set out in the concluding sentence of para 7 · / C of the memorandum attached to C.D.A.C. 1705. It might be assumed, I should think, that if the owners of the estates where the earlier machines were installed have asked for them to be replaced by new models, they are satisfied with the per formance of the new model, but before going to the

> C.D.A.C. it might be advisable to telegraph to Kenya asking for a report on the new model erected at Tave The question as to whether the machine is successful

for not has to be decided by the S. of S., and I assume that the C.D.A.C. may wish to have this decision given before they consider further financial assistance and for the conversion of the first grant on to a loan basis with the added £5,000 oneloan now

15th April, 1936.

applied for.

made of slepped to Kenya. They peril uncute factory. It was then propored to produce a new model. to replace them o the C.D. . advanced pro 000 ft. one stacking the positions of the advice were very briefly that if the markins was not a surger . in 18 months the advance was to be a free grant. No 37 in 38022/35 If it was successful then the advance was to be a low repayable as to principal o interest by agreeled annules beginning after two years. The 18 months runs from the first payment which was made you 15 June 1935 pass last sentence of No. 36 on 38022/35) 30 5/2 this has lap to 15 Dec next to prove theilf a success or not. The last metalment of the grant was to be paid when the machine began worth. This was reported in Vani of this year of payment was not if the (16, 76 When the application and submitted to the C.D. A. C. it was said that if the new model was an augustiful success Capt . Mangnall Clought he would get the money! a replace the other two defections ones on the shough . orders but if not be might have to apply finan low of a Juda & 5,000. This to his how done He does not say what terms he contemplates but I suppose it would be like the list say \$ 1000 permarker at once \$ 1000 on aliquent 8 \$ 500 on news that they were working ! love to be fee of interest for 2 years . we must obviously be able to any whether the first one is a commercial success or not before we can go to the C. D. a. C. and the only way to set the inf: required is from Kenya. a year ago Kenya; was not very helpful as they said they had no may who will give a cound opinion [NOT in 38022/ Since then there is the new marking said at worth for 3 months 8 much more doing with digal generally. If the other ties ealales want the new three It is peobably all nost but we cultivary. They might ask for your machines on the ground that they will get them for nothing and that they are a letter, article than the one that doesn't world. I don't think it likely but they might.

See agreement at

per draft herewith and perhaps to Stockball would raply saying that we should like an official application addressed to the U.S. of Severe the fullest of possible us to what the frime have said . Japace I am ful up a duffer of an Ciple maynell . Infurpolation Sin J. Campbell is dury I likely to be as for some time. Detin seems obvious fut you show see the deaple . I gotter that Capt Hangarello from in 88to passed. The Core may were may the ances a coloring there was 2 Tel to gov. Kenya 3 Tobast Mangaelles 28Apt .36

So I think the only thing to do is to consult Kening and

AD toenler (H)

We can only want for a asply from Kang 6 (2) before or ear consider whether this application should be to the DAC Me meeting win more is on may 27 " - see extension of loan for sisal decorpicating machinery tening to the braced by his mail and the second of the sec Was day bear thork - ac now reflecte Tall of Gasa N=127 9 = 19 MAY 1936 DESTROYED LABERT STATUFERNIO Boginge Allog Co. 2777 5ansdittel4. Governor territoritid. -414 lo 2 report being formerded by ein mail of the Mangnail. ---------------------- 13th.May,1936. Transmits copies of letter and cable received asking for indigntion of progress in the matter and requests some idea of the position within the next 2 or 5 days. M Strudile You left the originals will me: Habit our No. 10. he are late for the C.D. a. C. this month of that means to end of June. That wont be in time. we might get urgeney pleaded however.

Acknowledges No.9 with thanks. Governor tel.No.127.----- 16th.May, 1936. No.12 and recommends submission of the application to the C.D.A.C. provided that the resulting grant is used primarily to improve model on lines agreed between the Hydraulic Engineering Co. and the Manager of Taveta. Mama Leverth. It will be a baco (Barra 16 The Aydragica Engineering to cons 21 May 36 Hanster Nos. 670 Reparate out ple 9 Coverno Cho. 242. Her lo 2; transmitte capy of terror on the new muchines in operation on the Tavete Estata supports appliation Parkher assistance to Capt. Mangnati on the condition set out in No. 15. R208/2 8,18:11 20 Hydraulic Engineering Co. ---- 25th. May, 1936. No. 18 ansd; details modifications that will be made in the new machines. ON 19×20 Com Com Forpica

The work on the work in

Cuiprone Machine at Paveta

) To Sov. Kenja, Tel. lis. 120 cons. 15/5/36

wheele that the the to Considerate Conference ! 231 - C.D.A.C. 1988. ------5th. June, 1936. that the marking to capelle of Praphred to recommend further loan of £1,000 towards the completion of the first machine, subject to such becoming a commercial vaccio arrengements being made by the Co. with Mr.Bibby and L Menta as would prevent any action by them jeopardising the confirmament the successful development of the mechine. PINIDA are resterdaced. M. Stork del This is really fueller than I expected the Commettee 26/0/36 to go. The fault was that Capt. Hungaill was pursualed into building three muchines if he spect only made one Sin C. Bottonly regarded it as in experiment there wanted he no trouble. The Citie \$20 this all fore them & Capt. Hangnell as a result of us having made three and permised attended. He says the mechine is really better than a certain out tim he was find will proceedings and in the report would show because the tests are not any case could not get paid. He got a further gra conclusive & actual performance is better (e.g. it finance alterations in one machine if the other two jones has there 45 bucked in 10 faired & M- Stockdale would not press him. The one is now working and the We want machines at once ! Gapt grandly will send has in a mamo Mangnall asks for \$6000 for the purpose of the report of I gave him a copy). a) Putting in further improvements in 6) Remodelling the other time, to include all Commettee naturally say they want touch assisting the two consessions of rachines similal they Know what the new model well do all that in claim They would wright protest up \$ 1000 to your improvements regulate to We 25 Mengnell: tel. 25th No. 21 ensd; will streng C.O. as requested 1) Tepperalin as to the sharpy of ALL MONOR CONTRACTOR y) assurance that Billy & New York want spoil things by takes setun I think get from the Gov. There he lots of people who will advise

Kenya has been a five bit moult offer Time for cont their many set is those Gragins machine but futhis wise of \$ 1000, but I feel this - My myante if it idoes with it is hand to reduce costs & improve outputing and they ought to have taken more interest Thous he given some infralin fing som in in it and sent people to make full tests or @ his of the theretical relia fith made a thill reports not the very short sketchy triels recorded in m wind he judiped his liking the nick . the enclosure to the despatch. (It Marighall gave us much more elemenating figures]. I think we should say so ? last Kenya for full reports by in engineer and in agricultural officer. ask C.a. for a report on the Co. Sin C. Bottomly Copy of our day of letter to so to C.D.a.C. a copy of CD a. C. letters the inclased & the chep. The with action as proposed and count suggest that Bopt mangrill be inforted 4. Hydraulie Engineering Co - 11 June, 1986. of the desir of the country to be seened I aranito memorandum in report received from Gov in accellance lowneds the importment of the one Nº19 on machine, I necessary thotographs. water in we proded that they are satisfied with the property from -25 Mangraid Coloneal dansport is considered The copy of memo in 24, requests action be taken wally to make the market - all as som - fraible. discusped & compile with other and of their war in the same was a 345 of cores regarding conferm between the The state of the s Margarell & Come decenticalis come for they all with for an emperie of the mornadure and only be continplated of aurquel; could be made of the Confront with Men Bible Backer to private my action , of their property the many & denlopment of the washing in greating This assures that the Company out of 100 trains leaves this can be regarded as 7 % letter

Fa Shrikdole you should see. ? action as proposed West 10 6 26 stace

- 510 --- 11 June, 1936

2 June, 730.

you alout see this a copy of the

memo must clearly go to Kenya, and one should

. The figure in the mine of No 26 da not

aguar last. Marquell sayon to get 13.87 % month file and the figures in the short pare of to called

bellin dones report give 84 las as apparent 77 Cons

debute aformation regarding the dander of the Appendix tongues of or, 4 you say Hangoull gets &4 against 77 that is This Stone Patify au Cake amillo full claims. ? Wait for Kenne's refly The last page range that if he hast diet ! To No 29. with only one of the three machines then the other two will deseen upon him and the whole entryme will stop. As he also says the attentions will or stande enable him to collar the market whey can't they so alead Si J. Campbell without relying in bout funds? Capt Mangnall called - on his way to Lords I have added an acknow genert 9 including and bewailed his fate. He says that if the manager a copy of the mame by Cape Hangmall in the deap. to Kenya of the estate had only said " it's a good machine But I think you should see find in case you wish and with a few alterations will deliver the goods", to make any comment. all would be well. . He tells me Kenya have deputed a Racheray engineer to see the machine but some one has broken I agree with action personnel. the main driving chain and a test can't be some till new links graine from Remolds, (why they dient ham dashirdele several apare links () Pont time) If It is consist to down with to the the 27 30 Aydmaki Engr. (20,25) - 16 JUN 1936. cays le is . He is included to be fitter about the C.D. a. C. and 1 to him he had so well and for animation wall 28 to b. Rato (10 2. 23) bond - coas - 16 JUN 1936 to the the citie his with stated there is adminthe original great the will write about it mal 24 to Kenya, 424 (m/cs 17, 20, 23 +) Pennelly I could the present - Her Z with a try fir me a some die to po though . Me can agent regard. 1 6 6 6 ab. visit has from the Kin I and expected In Storedale

Ref. W 27; Counter of June 20 July 1936 Frankish pool of the Con, as revealed by the section of the CDA Cordinal be du setter. en u v gra fulla Lions for in tanata madeira miges. reconsidered, a that assistince should be gented to extent of reflacing machines 0 regime fulle conso. It has have orange to This is all very importments. de aquies so product and approved he does not say anything about mi Bish i Ta Rodra

mi Bish i Ta Rodra

from a free of the state of th conception with the And the second s A COAS DE LEGICA DE LA COAS DE LA Jacob Marie Les 14. CO.A.C. Was to place to the control of the Company was a service of and the second second The first said the formation and SUBJECT DE COMPANY will be the law is the wastern for a fifth of the same of the mis while is an engage The Electrical Control fullatur wiles key inflow it! new to a fact file to As thered in the court, there is on prisole company from

CARC. Ken Gioviais E4, 20 and him offend and troop on war and the and the Tone in the selections of happy all, whose contany land be weline will a wither Wit. por a los of aroney lite the affair, ray, that it is the Commentar Offer is not sufficient to keeps 9 Min 12 Passin's Legi seine going till thing get other fur all the east till faires orders, shirt he confidently extrects, me you and the digram. an due to departs when he I agree. The Commis decision was Inthink quite. Campbelle State sound; it was certainly arrived at after a full discussion; under do not think there is any chance whatever of its being revised. and of put the state of the you tony 'as desired you The test tong is shown in the Horse

Mr. Grossmith. Ref No. 33; hopes to obtain the assistance of Sir. W. Load, President of the Tanganyika Sisal Growers Recirculated in accordance with Sir C. Bottomiey' Assoon, now in England; requests short interview on the 11th. August; to discuss points raised in 33. minute of the 12.8.36. opposite. I'm uper agai copy with 27.8.36. MR Mangnale 870 Jel 6. 5, 36 36. Su C Bottomley The is wo have from Tax to - his that there is no prospect of a report from Kenya. argainin about the laids regular on (1) more information as to the market (2) Information as to the Company of small stand (3) Satisfactory anungements will never Bill 9 Nanje Kalidas: 5 with last actions all & (2) in available in the Ca: letter (3) the Frenklimmer There is the report in (Sel) That it it not got very for and the coming letter to remarke (3) seems without in view of what tage Hagmald has soon 3 3 the Co D. R. O for action day to be understand report is not to be expected in your of a health (dis land prisoner de m pome of the heading) but andies a copy of (32) 000 small substance Ca letter (31) and very we understand the as I have indicated at to

better que à espera en Grown Agents. --- minute. ---- 28.10.36 . I from city hangeall's own faints out that under the agreement it will soon be necessary to decide whether the machine has proved successrul, and enquires whether enquiry on this point has yet been made. repertete buriness good Of come water good to done white recovered by desiron on on been, " wit be an opportion of of explaining the board won orally, by is as there Sif. Complete is about to become to the Office I done the bain to ace an Sraf. Cus 28/8/36 acone chine has seeved who co sould, as there hob to a far a by Captain "Ingmall's late " 1 1 SEP 1936 ser ? Mich Wirst Shin, so ointin, out the H d mts il t en al les o..

Mr. Paskin,

I agree with the action proposed.

The position in regard to the Mangnell fibre

fibre decorticator is briefly as follows :-

the defects of the earlier model would be rectified.

These earlier models showed that a fibre of high quality was being prepared, that the percentage outturn of fibre was higher than in the machines in use in East Africa, but that the rate of daily output was low. Cer

tain mechanical modifications were seen to be desirable and the replacement of the driving ropes necessary

In the new model, the driving ropes were replaced
by chains and modifications of the feed table were made

The shape of the entrances to the sputching drums was

In the new model it was contemplated that some of

also modified. The results of these changes, as far, as is known at present, indicate that the anticipated appealing up of production has not been achieved to the extent contemplated, and that the change in the form of the sautching arums has brought about certain difficulties in the atesdy feed of the leaves through the drums Alfibre of high quality is prepared by the machine, and the percentage recovery of fibre from the leaves is good the daily output is, however, still below requirement and the difficulties of feeding into the drums to unlikely to be maked unless there is a reversion to the

The above language is probably foolish from an angineering point of view, but it is the best I can do.

The position may be summarised:

the intake. Whoshadman

earlier form of drum which provides a rounded face at

- . The output per working day is still too low to be
- 2. There is clogging at the intake of each firum.
- 3. This clogging may result in the breaking of the

driving

driving chains of the achinery. believe; actually happened). F. h. Shiredule 9.11.36. No raply received to (29) 9 mg hat for the first factor of the form 40 MINUTE RY MR. STOCKED PLEY DATED 19 34 41 CD. 9. 2 (2090) Le advance of £3,000 % le trente au fregrant and also recommende the tregman from of £ should be converted into a free grant . a Similar a - office 3-ft & 2,12 CH Francis (A) Vacapu 1/43 sail.

States that the decortibator is not improrking order and that apparently as the manufacturers are unable to obtain further finance from the CDF, they have dropped all interest in the mathine. mr Dun We show have to write to Kenya When we fat hearing appearal of the recommend in No 43. (v. No. 28 m 180/6/34) 9 The openhanity might be like to Cas the frame & confirming 38024/31) of the someth unde by wid Motochdale on the M. Parken tox december. Thuis that the deall's will do soting are But see in stiget accordingto. To Kenya - 80 - (Ge and to 40) (44 aund TREASURY (5 34609/0126/2) UK Dokana - Comf (3) originally authorised as loans into fee of the Down to and in the facilities There added an confirmition despoted in regard to No 44.

5802736 Packin 29 Sir G. Tomlinson Sir C. Bollomley Sir J. Shuckburgh 2x Jany (53) Permt. U.S. of S. Parly. U.S. of S. Gentlemen . Secretary of State. Vanet to refer to form Communication of the 25th of Orbburg Reference O/Kanya Lo, Out 6 Crifore for Chat he has Clarket adecision with regard to the achievement of the Sioal decorticating Tuashine Franchactured of the Hydraulie Eaguring Co. LD, and Clas afor that decision, the Kord Commissioner of Ch theamy have Sauctined the Conversion of the chance of Lovo made to the Company in 1905 with a free grand Their Consthips have also aprend the advance of I To made to the Company

38022/36 Kenya - 1935 Ohnw be liented Undark In the Tolling Concella , reference Mr. Grossmith 4/1/37Mr. Parkin 29/1. 1. canhed to som atter Downing Street. of the 23 w of frame 1932, Sir C. Parkinson. Sir G. Tomlinson. Referen There For January, 1937. Sir C. Bottomlev. Sir J. Shuckburgh. The freemy of Kenya and Permt. U.S. of S. Parly. U.S. of S. I have etc. to refer to my de Crupan lave bu Secretary of State. cupous accordingly. Gra-DRAFT. the Mangaell Decorticator and to inform 9 la televant companies an earlier for Jon aformation you that Captain Mangagll stated at an CONFIDENTIAL (5 Tinterview at the Colonial Office on the Litet December that he had made arrengeme With the egent of Mr. Monji Keliden in .. (Signed) J. E. W. FLOOD Uganda mand with Mr. Bibby in Kenya, to refund 22,500 in respect of the two Bisul decerticatory of (14) bout) which Weredeurelied to them on the understanding that payments should be made at oix-monthly intervels aproad FURTHER ACTION over live years. It was understood that Captain Mangnall had offered the same terms to Major Grogan but that these had not been accepted.

which was submitted to the Colonial Development Advisory Committee at a meeting on the 25th of November. The Dommittee noted with regret that the machine had not proved successful, and in the circumstances, agreed that there was no alternative to authorising the conversion of the losm of 15,000 advanced to the Hydraulia Meering Company in 1935, into a free grant. Elso recommended that the sum of

Sir G. Tomlinson, Sir C. Bottomlev. Sir 1. Shuckburel Permt. U.S. of S. Parly. U.S. of S. Secretary of State. With reference to the Agreemen datio Un 20 a of hime 1938 between to Keddantie Enjurering Congra the Courses on belong the MY M. Kung Varia sto to Coffee for all he as leseast a decision in read to the actionent of the sural decentrality anding amplicat a lea Azeenen and and FURTHER ACTION

full bregades as a fue glant . If hor also been afreed that the alvance of Lyon Enole (the Confan in fill algo to paparage as a fee fraget . The Source of bourge and the Azertanti are Morry Cinjamo Scenning & (Signed) J. E. W. FLOOD

full be regarded as a fu quel. M. ho, also been april that the alrane of 2 700 Enove the Conformation of famous a present former a Feel ave be informed Acendus 3" Same (Signed) J. E. W. FLOOD

THE SECRETARY.

ACCOUNTS DEPARTMEN

TREASURY.

WHITEHALL, LONDON, S.W.1.

and the following number quoted:

s.34609/0226/2.

Sir.

TREASURY CHAMBERS:

December, 1936

31 DEC 1936 C. O. REGY

43. His Majesty's Treasury Mr. Flood's letter of the lath

I have laid before the Lords Commissioners of

instant, 58022/36, signifying Mr. Ormsby Gore's concurrence in the recommendations of the Colonial Development Advisory Committee, honveyed in the Secretary's letter of the 1st instant, that certain advances that have been made from the Colonial Development Fund to the Government of Kenya for the construction, installation and working in Kenya of a new type of sisal decorticator, should now be treated as free grants.

In reply Lam to request you to inform

Mr. Secretary Ormsby Gore that, in the circumstances explained; My Lords sanction the conversion of the following advances, which were originally authorized as loans, into free grants viz:-

The Under Secretary of State. Colonial-Office

RES

GOVERNMENT HOUSE NAIROBI.

KENYA

NOVEMBER, 1936.

KENYA

No. 586

honour to acknowledge the receip your despatch No. 424 of the 18th June, requesting that further reports on the working of the Hangnall decorticator at the Taveta Patate and on the prospects of its commercial success, it cortain alterati were parried out, might be furnished by all Engis and an agreen tural officer competent to form op in these points.

On the rece into of your despatch, were made for inspection of the machine by the Chief Machanical Engineer of the Kenya & Uganda Railway and by an agricultural Officer. The machine, however, was out of action and could not be run until certain spares were received from England. Since it was essential, for the purjose of supplying the informati desired by the Colonial Development Advisory Committee, to observe the decorticator in action, the arrival of these spares was awaited.

it how appears if rom information given by the Manager of the Tayeta Estates, that nothing has been done to the decorticator since its Final breakdown early this year. He adder Apparently as the manufacturers are unable to obtain further finance rom the Colonial Development rund, they have dropped

SECRETARY OF STATE FOR THE COLOUIES.

LONDON.

all interest in decorticating machinery and do not intend making any replacements of broken parts, etc."

This machine is the only "improved" Mangnall decortication in the country.

4. In the circumstances, it will be appreciated that it is not possible to furnish the reports desired. In view of the statements quoted in paragraph 3 above, it might be advisable that Capt. Mangnall should not be furnished with a copy of this despatch.

I have the honour to be,

Your most obedient, humble servan

GOVERNORS.

gyyyyd Nagal

The state of the s

Jownin, Street,

Jecember, 1930.

Sir C. Parkinson. Sir G. Tomlinson

Sir,

I am etc. to refer to the letter from/Colonial Development

Advisory Committee of the 1st December

(1.0.A.C.2090) regarding the advances

made to the Hydraulic Engineering

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

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

SECRETARY TREASURY.

Company Limited in connection with the construction of a new type of sigal Adecorticator, und to request that the

Mords Commissioners of the Treesury may be moved to senation the conversion

of the last of 1700 made to the lompany in 1932 into a free grant in accordance

with the Committee's recommendation. It will be observed that the Committeesalso agreed that the

subsequent advance of \$3,000 to the Company should be treated as a

reference to the 6th and 18th paragraphs of the Memorandum submitted to the 3.3...3. Under to ask that Their Lordships may be moved to approve the treatment of this alvance as a

iree grantal

I am, etc.

(Agos) f. E. W. Flood

For he planguefus we ned

Mr. Caine,

Mr. Flood, has seen

Captain Mangnall was in Lordon to-day and he came in to see me in order to let me know that he had made arrangements with the agent of Nanji Kalidas in Uganda, and with Mr. Bibby in Kenya, to refund £2,500 in respect of the two sisal decorticators (first model) which were supplied to them - paymentarito be made at six monthly intervals spread ever 5 years. He had offered the same terms to Major Grogan but these had not been accepted, and there as attallitalk of litigation in respect of the machine (second model) supplied for use on Taveta Estate . As fan be fre O.D.A. C. ndyonce is concerned, deptain Manghall sand that he regretted that he would have to sak for bille to be written of I gathered that the Chester Hydraulid Company mes the process of reconstruction but that it would weather the atorm. WALL expanditure on the developmen Maranald slass ascorticator would be writt it molproposed to contemplate contain a wither long The same of the sa he machine the area will pand to the contain half-dult seems to be sent rident that he would be able to nell further mabilines consider this third, model and the fittle but a thirty of the (This I thought was either expensive ophimism or delusion). Capt. Mangnal Casked in the photographs which he supplied for the meeting of the Pia, G. Fould, he repurned to him. While blom have this matter considered.

F.1. Blitable

Are the planage of we are new

Mr. Caine

Mr. Flood, has zen

Captain Mangnall was in Lonkonto-day and he came in to see me in order to let me know that he had made arrangements with the agent of Nanji Kalidas in Uganda, and with Mr. Bibby in Kenya, to refund £2,500 in respect of the two sisal decorticators (first model) which were supplied to them - payments to be made at six monthly untervals spread over 5 years. He had offered the same terms to Wallor Grogen but these had not been accepted, and there at attill rialk of litigation in respect or the machine (second model) supplied for use on Taveta Estate. As Tan ag the O.D.A. C. Havence is concerned. Captain Wanghall send that he regrettled that he would have to ask for this to he written off I gethered that the Chester Hydraidic Company was in process of recons tion but that it/would weather the atorm. WALL axeded fure on the development of the Namenall sieml decortion for would be written ore in purposed to contemplate certain suither chappen ie obcining and infantories a next thirther holosist the alse i unabeting) Contain Mendial second be den finant that he would be able to sell Turther medilines of this third model and the first pour a work arrisings (This in thought was alther expessive only minm or delusion). Capt. Mangrall asked 111 the photographs which he supplied for the meeting of the D.D.A. C. could be returned to him, lil

F. M. Glindole

have this matter considered.

Communications on this subject should be addressed to

THE SECRETARY.

Telephone: WHITERALL 9191,

REC

COLONIAL OFFICE,

DOWNING STREET,

S.W.1.

lst December, 1936.

COLONIAL DEVELOPMENT ADVISORY COMMITTEE

C.D.A.C. 2090.

I am directed by the Colonial Development

Advisory Committee to request, you to inform

Mr. Sporetary Ormsby Gore that, at their 93rd meeting

on the 25th November, they had before them a memorandum

by the Colonial Office (C.D.A.C.2088) setting out the

position with regard to the construction, installation and working in Kenya of the type of sign decorticator towards which grants of assistance from the Colonisi Development Fund have been made, as shown the the papers

The Committee note with regret that the machine has not proved successful, and in the circumstance agree that there is no alternative to suithout the advance of \$23,000 made in accordance with the

cecommendation of the Committee at their 76th meeting on the 27th Penruary 1938, to be treated as a free gran

mentioned in the margin.

THE UNDER SECRETARY OF STATE.

POOLONIAL PREIDE

C.D.A.C. 2088.

COLONIAL DEVELOPMENT ADVISORY COMMITTEE.

Kenya.

Sisal Decorticating Machinery

With reference to the papers noted in the margin, I circulate for consideration a Colonial Office Memorandum setting out the position in regard to the construction, installation and working in Kenyo of a new type of shall decorticator.

It will be observed that, subject to an observations which the Committee way have to offer, the Sedretary of State feels that there is no alternative to his decising that, for the purposes of the Agreement between the Hydraulic Engineering Company and the Grount-Agents for the Colonies, the muchine has not proved auccential, and to his requesting the Treasury to sutherlies the advance of 23,000 for he treated as a free grant:

The Committee are also snyited to honeir in a proposal, that the original load of Fich should wise be recipied.

CAINE.

Secretary to the compittee.

COLONIAL OFFICE

16th November, 1936.

SISAL DECORTICATING MACHINERY

The Mangnall Decorticator.

- 1. At their 46th Meeting, on the 2nd of March, 1932 the Committee recommended a free grant of £500 and a loan of £700 for 5 years free of interest, to finance the construction of a new type of sisal decorticator by the Hydraulic Engineering Company Limited.
- 2. The recommendation was approved and as a result of the experimental machine constructed, orders were subsequently placed by sisal producers in Kenya for three commercial machines. These machines were duly delivered and installed but owing to certain mechanical defects they failed to give satisfaction and in 1935 the Company was threatened with litigation by the purchasers of the machines which had proved faulty.
- 3. The Company was confident that the defects were remediable but it was unable to find the finance necessary to enable the defective machines to be replaced by new models from which the defects had been eliminated. The cost of replacing the three machines was estimated at £7,000 and the Company applied for a loan of this amount. The matter was discussed with Captain Mangnall who ultimate expressed the view that, if a single new model were constructed and proved to be an unqualified success, the Company would find it possible to finance the two further machines required for replacement on the atrength of orders received from new purchasers.

4. At their 76th Meeting on the 27th of February.
1985 the Committee recommended a free grant of 63,900, for
the purpose of constructing one new machine, on the
following conditions:-

The loan to be free of interest for two years, bearing interest at four per cent., thereafter, and repayable by squated annuities spread over the third to the eighth years (or earlier at the company's option). If the new machine is not successful, the loan to be converted into a free grant of capital. The loan to be granted on condition that the owners of the defective machines will agree to stay a their claims against Capital to owners, until such time as the new machine when they wantle such time as the low machine what they wantle such time as the low machine what they made and tosted in bank arrica.

- 5. The Company was able to obtaining content of two of the owners concerned (Rajor Grogan and Mar (Raby); but, owing to his absence in India the consent of the third owner (Mr. Nanji Kaledas Mehta), could not be obtained, and with the concurrence of Sir Basil Blackett it was agreed that the stipulation as regards the third owner should be waived.
- 6. In due course, the conditions governing the advance were embodied in an Agreement between the Hydraulic Engineering Company and the Crown Agents for the Colonies dated th. 20th of June, 1935, which provided intevallating

All within a period of cinnien salendar months in the ine agt. of payment of in 1988 in a fallent of the avence the machine in the proved to be underwhill in achievement in the purpose for mirah it is designed, the archies will be repried, not be a lean, but as a free grant. The question whether the manifest in the successful or not for the universe statistic and it is designed by with a short of particular secretary of sales or the calculation of the calculation o

September, 1935, and was put into competed by the light

the Taveta Estate. The cost of constructing, transporting and installing this machine and maintaining it in working order was reported by the Company to have been considerably in excess of the £3,000 advanced to them. Moreover, when the machine was put into operation it immediately became obvious that certain improvements were still required. Nevertheless the Taveta machine produced quite promising results and from time to time it was inspected by representatives of Mar. Bibby and Mr. Mehta.

threstoped with legal proposedings by Mr. Nehta unless allipment by the middle of charges of a new decorticipal for himself by the middle of charges of a new decorticipal for himself by the descrive machine applied to him, oping be guardated; The Company was not in a profit of the descrive machine applied to himself of comply with this demand; and objustice in hybridisation of the grant of a further loan of selection of which without we for the purpose of incorporating in the fivel machine; in himself and the purpose of incorporating in the fivel machine; the pulse two machine, with new machines in plicit the necessary modifications of the "Javata" machine would be likehypited modifications of the "Javata" machine would be likehypited.

Miss, application has considered by the complete at their sort accepting of the 27th of any. As in shelf at their sort accepting of the 27th of any. As in shelf all their sort acceptance of the received from the Covernor of Kenya. It appeared that the new model in operation and raves a difficultion of the countered in success that the particulation for any expensitive of the two tother machine. Their the objection possibilities of the Taveta model and Deen 1.

mulohatrated.

demonstrated. They intimated, however, that they would be prepared to recommend a grant of a further £1,000 towards the final improvement of the Taveta machine: provided

- (a) that satisfactory reports were furnished as to the prospects of the success of the machine from the technical and commercial points of view including its prospects of being able successfully to compete with similar machines of derman or other manufacture;
- (b) that the notation tree found be assured than the standing of the company was such that it was worthy off further support; and
- that arrangements were made by the Company with the Lambar of the Market of the Machine. Jeopard sine the machine.
- This recommendation was communicated to the Company; and also to the Governor or Kenya who mand difference to arrange for further reports on the working or the machine, and on the proposition of the bommercial slopes; if the proposed afterstinic whice carried out, to be furnished as adon de possible by an emplished and an agricultural officer competent to total operations on these points. The dovernor real also furnished with a copy of a membrandum proposed by the Company in which the previous and in which the view was expressed that sufficient which the view was expressed that sufficient (if altered as was proposed or the access or the membrands as was proposed to proceed immediately with their being assisted to proceed immediately with

the building of the two further machines.

- il. A further appeal by the Company dated the 20th of July, together with information as to the financial standing of the Company has been communicated to the Committee in Colonial Office letter of the 11th of September, (C.D.A.C. 2038).
- 12. No further report as to the working of the machine has yet been received from the Governor owing, it is understood, to the machine having been put out of action by the breaking of the driving chain.
- 13. The period of 18 months referred to in the Clause of the Agreement quoted in paragraph 6 above will expire on the 21st of December. It will accordingly shortly be necessary, for the purposes of that Clause, for a decision to be taken on the question whether the machine has proved to be successful in the achievement of the purpose for which it is designed."
- 14. As to this, it can be said that there is evidence that the machine is capable of producing a fibre of high quality and that the percentage recovery of fibre from the leaves is good. On the other hand the deily output so far attained has been too low to be economical. It has been claimed by the Company that, in this respect, the unsaidefactory results are partly attributable to the fact that the oil engine installed by the Tayeta estate was unreliable and exceedingly variable in its output; and that if an engine were installed which can be relied upon to give even output continuously, the denorticator would have no difficulty in dealing with the extra quantity of leaves

to produce greater output of fibre per day than can be produced by Corona machines.

- 15. On the other hand they are also partly attributable to clogging at the intake of the drums, caused by faults in the reeding mechanism, which however the Company claim to be remediable by a companatively simple modification of the design.
- The author of the Report which was furnished by the Governor in his despatch of the 14th of May (which was before the Committee at their meeting on the 27th. May) stated that he was not competent to express and opinion on the question whether the modifications which it was proposed to make in the machine were likely to produce the anticipated regults; whether the machine, when so improved would be causale of the contemplated output; and whether it would be likely to stand the atrain to which it would be subjected when working to full capacity. Owing to the breakdown referred to in paragraph 12-above, there has been no opportunity of Jobtaining a report by at offices competent to form and publican on these points. Horeiver there seems reason, think that the plought at the inteke of the drain her a largely responsible for the breaking of the drivi chain.
- 17. The Company is not able, without financial assistance, to undertake the necessary alterations to the machines the Committee is not prepared to recommend in grant for this purpose intil it has received further reports which, in present diremstances, are not obtainable;

and it is not possible to say finally that the machine has been proved to be successful for the purpose for which it has been designed until these improvements have been / carried out and until the improved machine has been fully tested under normal working conditions with an efficient engine of adequate power.

Is. There is therefore a complete deadlock and, subject to any observations which the Committee may have to office, the Secretary of State fields that there is no literature to his deficient that there is no literature to his deficient that there is no literature to his deficient that for the purposes of the Clands quoted in successful for the purpose for which it has been proved successful for the purpose for which it has been proved successful for the purpose for which it has been proved successful for the purpose for which it has been proved successful for the purpose for which it has been proved successful for the purpose for which it has been proved successful for the requestion the Treasury to authorize the advance of £3,000 to be treated as a free in grant. In these circumstances the Secretary of State going ders that the Company (and the Government of Kenya) and also so the Treasury that the proposes by respondence to the Committee, he proposes by respondence to the freezery that this sum should also now any proposes the proposes by the proposes the proposes by the proposes by the proposes by the proposes the

COLORIAL OFFICE,

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SISAL DECORTICATING MACHINERY.

The Mangnall Decorticator

10 on 18016/32.

At their 46th Meeting, on the 2nd of March 1932
the Committee recommended a free grant of £500 and a from
of £700 for 5 years free of interest, to finance the
construction of a new type of sixal decorticator by the
Hydraulic Engines ing Company Limited.

2. The recommendation was approved and as a result

of the experimental machine constructed, orders were subsequently placed by steal producers in Kenya for three commercial machines. These machines were duly delivered and installed but owing to centain mechanical 38022/35 defects they failed to give astisfaction and in 1935 the company was threatened with litigation by the nurchasers

of the machines which had proved faulty.

The Company was confident that the defects were remediable but it was unable to find the finance necessary to enable the defective machines to be replaced by new models from which the defects had been eliminated. The cost of replacing the three machines was ekilmuted at 17000 and the Company applied for a lond by this emount. The matter was discussed with Captain Hanghall who ultitate expressed the view that, if a single new model were the constructed and proved to be an unqualified success, the Company would find it nessable to finance the two further machines required for efficiement on the strength of orders

received from new purchasers.

8 on 38022/35. 4. At their 76th Meeting on the 27th of February, 1935
the Committee recommended a free grant of £3000, for the
purpose of constructing one new machine on the following
conditions:-

The loan to be free of interest for two years, bearing interest at four per cent., thereafter, and repayable by equated annuities spread over the third to the eighth years (or earlier at the company's option). If the new machine is not successful, the loan to be converted into a free grant of capital. The loan to be granted on condition that the owners of the defective machines will agree to stay their claims against Captain Mangnally company, until such time as the new machines has been made and tested in East Africa.

- 5. The Company was able to obtain the consent of two of the owners concerned (Major Grogan and Mr. Bibby); but owing to his abance in India the consent of the third owner (Mr. Nanji Kaledas Menta). Could not be obtained, and with the concurrence of the Basil Blackett it was agreed that the stipulation as regards the third owner should be waived.
- (In due course, the conditions governing the advance were embodied in an Agreement between the Hydraulic Engineering Company and the drawn Agents for the Colonies dated the 20th of June, 1935, which provided; inter size that

"If within a period of eighteen calendar mon after the date of payment of the first instalment of the dayance the machine has not proved to be successful in besided to be successful in achievement of the purpose for which it is designed, the advance will be regarded, not as a loan; but as a free prant. The question whether the machine is successful or not for the purposes of this condition shall be decided by His Majesty's Principal Secretary of State for the Colonies, whose decision shall be finel."

7. An improved machine was shipped to Kenya in
September, 1935, and was put into commercial production
at the Taveta Estate. The cost of constructing,
transporting and installing this machine and maintaining
it in working order was reported by the Company to

THE PARTY OF THE

(See encl. to No.37 38022/35)\$ { have been considerably in excess of the £5,000 advanced to them. Moreover, when the machine was put into operation it immediately became obvious that terrain improvements and simplifications were required.

Nevertheless the Taveta machine produced quite promising results and from time to time it was inspected by representatives of Mr. Bibby and Mr. Mehta.

- In May 1936, the Company reported that it was threatened with legal proceedings by Mr. Mehta unless shipment by the middle of August of a new describence. In place of the defective machine supplied to him, could be guaranteed. The Company was not in a position to comply with this demand and submitted an application for the grant of a further loan of 26,000, of which al,000 was for the purpose of incorporating in the Tayeta machine the dimprovements which experience had shown to be necessary, and as 5,000 was the submitted cost of replacing the other two machines with new machines in which the "Tayeta"
- o This application was considered by the committee at their 89th meeting on the 27th of May. The in the light of reports received from the Governor of Lenyh, it spread that the new model in operation at Tayeta could not yet be regarded as a proved commercial success, the committee saw no justification for any expenditure on the replacement of the two other machines until the practical possibilities of the Tayeta model had been fully demonstrated. They intimated, however, that they would be prepared to recommend a grant of a further £1;000 towards the final improvement of the Tayeta machine: provided

(b) that the Committee could be assured that the standing of the Company was such that to was worthy of further support; and

(c) that arrangements were made by the Company with Mr. Fibby and Mr. Mahta to prevent any action by them juopardiging the successful development of the machine.

Company, and also to the Governor of Kenya who was requested to arrange for further reports on the working of the machine, and on the prospects of its commercial success if the proposed siterations were carried out, to be furnished as soon as possible by an Engineer and an assignificant officer/competent to form opinions on these points. The powernor was also furnished with a copy of a memorandum prepared by the Company in which the pravious reports received from the Governor of Kenya were analysed, and in which the yiew was expressed that sufficient evidence as to the prospects of the success of the machine (if altered as wes proposed) was sinearly available to justify their being assisted to proceed immediabely with the prilating of the two further

(1). A further appeal by the Company dated the 20th of July, together with information as to the financial

(32)

nachines.

(27) (29)

(24)

- Committee in Commany has been communicated to the Committee in Comman Office letter New 38023/36 of the lith of September. (CAAC 2018)
- nachine has yet been received from the Governor owing, it is understood, to the machine having been put out of action by the breaking of the driving chain.
- 73. The period of 18 months referred to in the Clause of the Agreement quoted in paragraph & above will expire on the 21st of December. It will accordingly shortly be nacessary, for the purposes of that Clause, for a secision to be taken on the question whether "the machine has proved to be successful in the achievement of the purpose for which it is designed,"
- evidence that the machine is capable of producing a Tibre of high quality and that the percentage recovery of fibre from the leaves is good. On the other hand the daily output so far attained has been too low to be becomminated in the susatisfactory results are partly attributable to the fact that the oil engine installed by the Taveta estate was unreliable and exceedingly variable. In this capable output, and that if an engine were installed which gan be relied upon to give even output, continuously, the decorticator would have no difficulty in dealing with the extra quantity of leaves i produce greater output of fibre par day than can be produced by Corona mathines.

24)

15. On the other hand they are also partly

attributable to clogging at the intake of the druma, caused
by faults in the feeding mechanism, which however the

comparative. simple modification of the design.

16. The author of the Report which was furnished by the Governor in his hespatch of the 14th of May (which was before the Committee at their meeting on the 2 wth of Max) stated that he was not competent to express an opinion on the question whether the modifications which it was proposed to make in the machine were likely to. produce the anticipated results; whether the macnine, when so improved, would be capable of the contemplated output, and whether it would be likely to stand the" greater strain to which it would be subjected when working to full capacity. Owing to the breakdown referred to in paragraph 12 above, there has been no opportunity of obtaining a report by an officer competent to form an opinion on these points. Moreover there

seems reason to think that the clogging at the intake of the drums, silargely responsible for the breaking of the driving chain.

17. The Company is not able, without financial assistance, to undertake the necessary alterations/to the machine; the Committee is not prepared to recommend a grant for this purpose until it has received furthe reports which, in present circumstances, are not obtainable; and it is not possible to say finally tha the machine has been proved to be successful for th purpose for which it has been designed until these improvements have been carried out and until the improved machine has been fully tested under normal working conditions with an efficient engine of adequate power.

18. There is therefore a complete deallock and, subject to any observations which the Committee may have

offer, the Secretary of State feels that there is no alternative to his deciding that, for the purposes of the Clause quoted in paragraph 3 above, the machine has not been proved efficessful for the purpose for which it has been designed, and to his requesting the Treasury to authorise the advance of £3,000 to be treated as a free grant. In these circumstances the Secretary of State considers that the company (and the Government of Kenya) should also be relieved of the liability to repay the loan of £700 referred to in paragraph 1 gboys and, subject to the concurrence of the Committee, he proposes to recommend to the Treasury that this sum should also how be regarded as a free grant.

East African Deportment,



with reference to Gallantal Office continents.

2.5) Letter No. 380E2/36 of the lift are are of the lift are are of the lift are are found to be supported by the lift of the lift are are replaced by the lift of the lift are are replaced to be a supported by the lift of the lift are are are supported by the lift of the lift are the arrestment of the lift of the arrestment of the lift of the arrestment of the lift of the lif

improved type of machine for the describe thins of piech in a continuous piech in a cont

(ighted wine 1935), the machine interroved spockers.
We also be grad to know whether emuliated, that or
ightelng made with a view to a action of the

pefter the dite of payment of the first institute th

communice ted in due bourse.

Crown Agents Office at the Control of the Control o

38022/36. Ċ. O. Mr. 8/00 3 29:8 Sir C. Bottomley Sir J. Shuckburgh. Sir. Permt. U.S. of S. Parly. U.S. of S. Secretary of State. letter of the strong June (reference in connecton with deporticator, and to regigent you to toroity the CiD.A.C. that the ranga lipon which boay want prapered to recommend further apaintance wer duly communicated to the Hydran FURTHER ACTIO

Engineering Company Tymited. copy of the letter sout to the Company is enclosed herewith wh together with a copy of Captain

Mangnall's reply.

بالمصادر فالالالاند

Aregistered by wheredown and of themany are understood to amount to enproximate

Sir C. Parkifison. £25,000. Sir G: Tomlinson The Company are reputed Sir C. Bottomlev.

owners of large works and foundry in Sir. J. Shackburgh. ester, employ about 100 hands and are

Secretary of State held in good repute. The financial

> position of the Company is believed tothe favourable and they are considered rollable for their ordinary engagements. The Company have mot infrequently aupplica to the Crown Agenta mana creep

edulateran formarible Colonier rument Reilways and w evolt that they have supplied

dertain machinery in connexion with the datublishment of a factory for a Siss Softening Flant for Kenya a loan for

widt hearbeen made from the Con P to the Ker-a Government for re-loan to-

Mr. McCrae Committee's recommendation was subject

FURTHER ACTION

DRAFT

such arrangements being made by the

Hydraulic Engineering Company with Mr. Bibby and Mr. Mehta as would prevent any action by them jeopardising the successful dayslopment of the machine in operation at Tavets. As regards this point it is understood from Captain Mangnall that the Company is still negotiating with Mr. Bibby and Mr. Mehta.

Sir G. Tomlinson. Sir Q. Bottomley. 24.7 Sir J. Shuckburgh.

A Permi. U.S; of S. 24/7 Parky U.S. of S. Secretary of State.

for a further loan of £6,000. understand your letter to mean that s

osuzz/36 Kenya..

loan of el.000 for the purpose of effecting the necessary improvements in

Oto. for We Paskin's signature.

have opened your letter of the

explained the serious consequences

to your Company of the recommendation

of the C.D.A.C. on your applicati

20th of July in which you have

In Flood's absence on leave

Dear Capt Magnall

the Tayetg machine would not be aufficient to keef your company going,

and that the provision of woney to start on the building of two new

machines for the Masumal and Ziwa

Estated is the only means of tiding

your Company over until you can

secure other orders (noselhit in connection with the armament programme

FURTHER ACTION

I am asked to say that the authorities here are very doubtful whether any useful purpose would be served by referring your application to the Committee again at this stage. The Committee went into the whole matter most carefully at their. last meeting and they quite definitely came to the conclusion that they upuld not be justified in recommending a loan of such a substantial amount as £5,000 for the building of new machines until the ofcessary alterstions have been made in the weth machine and the practical possibilities of hat imachine have/been fully demonstratedy Two understand this to mean that they would want evidence of it a actual performance under rking donuli one with a reliable prime ven of adequate power. Mr. Gray a Taport is year encouraging wallunble ashewidence which mby applatithe Committee in coming to the conclusion and they would be justified in recommending a loan of cl. doc for the improvement of the toyets machine. It howover thought unlikely that the committee would consider either it, or your deductions from the Kenya report, as a satisfactory substitute

The Sir C. Parkinson ... X Sir 1. Shuckburgh. Permt. U.S. of 5. Parly. U.S. of S Secretary of States DRAFT. of your Company of As to this, while th FURTHER ACTION

for the practical tests under full

working conditions which they have

further assistance for the building

After from this the only

new factor which could becbrought befor

the Committee at this stage is your 1

Statement as to the financial doaltion

Committee would, he doubt reel the

greatest sympathy with the Company in

the troubles especially in view of th

karge sums which the Company has

devoted to the development for this

machinery, it is doubtful whether the

in recommending a loan intion they did

not record as justified on other !

grounds, mathly with the object of

Committee would feel

stipulated as a prerequisite of

of two new machinen.

C. O. Company having to close down might it's financial difficulties. As regards the conceiv@ably be of more direct concern point that, if the withholding of this loan to the W.O. or the Admiralty. involved the disappearance of your Company. Sir, C. Parkinson and that, if faced by this the result might be to deprive this country of Str C. Hollomler Shuckburgh possibality, one or other of those the opportunity to enter the market for this Departments might perhaps be prepared. type of warningry will would probably be held Party. U.S. 67 5. Secretary of State. tent so Tar as the C.D.A.Q. 18 concarned the to expedite the placing or orders in doney altendy leavanced would not be wested since the order to keep you going. plane of the machinery could no doubt be sold to As your letter was marked "persona" developed wo have not fett justified in mentioning apletted by some other company. I am afraid that this may seem a rather Land o anyone to either of those Departments (indeed without further wiew to take But I must auk you to diffiguration we do not know which would be believe that it is not due to any want of sympathy the sour Company, in what, I trust, wro purely likely to be concerned). But it has emporury difficulties. It merely represents locurred to us that it might perhaps an abtempt to envisage the view that the Committee be worth your while to get into touch with would feel outliged to take of the functions as someone there and explain your Taid down land limited by the law. differentition. PURTHER ACTION. Prom the apoint of view it bee occurred to As regards the first stage of the us. Thom what you pave said as to the possibility programme envisaged by the C.D.A.C., viz., of your obtaining orders in connection with the the provision of £1,000 for the improvement armament programme, that the possiblity of your of the machinery at Taveta, we will Сомрану

willingly do anything in our power to expedite
a decision. But I understand from a note made by
Flood after four call here on the 10th of July,
that the further reports which have been called
for from Kenya are likely to bedelayed owing
to the main driving chain having been broken.

ALL COMMUNICATIONS TO BE ADDRESSED TO THE COMPANY

CONTRACTORS TO
THE ADMIRALTY, WAR OFFICE,
INDIA OFFICE.
CROWN AGENTS FOR THE COLONIES,
MAD FOREIGN GOVERNMENTS

COOLS ABC STEDITION

The Hydraulic Engineering Company 2nd

LONDON OFFICE
TRAFALGAR HOUSE, WATERLOO PLAGE,
PALL MALL, S.W.1
"ECEPHUME WHITHALL #384

Branch ExJunga



hester 20th July 1936.

ARH/

REFERENCES ...-

Personal.

Dear Mr. Flood,
Sisal Machinery Development in Sast Africa.

The Committee's decision given in your letter of June 16th, unless reconsidered will almost certainly terminate our efforts at the very end of this long development programme.

To explain why we cannot carry on without immediate help I am afraid it will be necessary to state something of our rivate affairs. For many years we have been trying to counteract the effects of a reducing demand for our past products caused mainly by the inroads of electricity into the hydraulic machinery market. Naturally we have successfully developed many new types of machinery but in themselves they have been inquificient to fill the gap, and for some years our main concentration has been in the development of improved machinery for East african sizal, as there is an expanding market and no British.

mufacturer left in the field.

Tried (Letter adding) (entre interprise depth of the consisting of the consisting of the consisting of the consisting of the consistence of the constant of th

Again, although one of the oldest firms on the Admiralty and War Office lists, we are not yet benefitting from the armaments programme, as being considered as specialists whose whole output would be required in time of war, we are not considered for ordinary work such as shell making etc.

Consequently we still suffer from bnd trade and sadly depleted finance, but there are now very strong indications not only of returning ordinary trade but in developments on the specialist aids of the armament programme in which we shall be called upon to participate.

We have therefore reached a point in our history where the Colonial divelopment we have undertaken at such length; to likely to be the means of closing us down just at the time shed we are rounding the corner to a recovered trade condition, simply because it is impossible for us to meet the requirements from the levelopment rund.

I find that Messrs. Bird a Go's Director in East Africa, Mr. John Gray, rigits Tavets, and as he is about the best impartial judge that could be found, I have asked for a copy of a memorandum which he drew up in connection with the machine, and now artach this. You will see that this report insists on the advantages of the machine and is in contrast to the report from the Taveta Estate, which concentrates on the relatively minor detects and fails to emphasise the main aphteyments.

The min facts are these 1-

- 1. According to figures world out from the Kenya Covernment report, the machine will produce 13.8; more if bre from the 1831.
- 2. The fibre produced is of a higher quality

- Fer ton of fibre produced it takes only 70% of the power.
- The call for higher output can be met by the estate arranging for more power to be available.
- 5. When the machine was put into operation it was immediately obvious to us as the designers that certain improvements and simplifications were required which will naturally be provided for in later machines, and we should have dealt with these at Tayota
 - without being asked had we have in a postulor to do

 so. The items concerned are straightforward
 methanical details and do not involve any modification
 of the process.
- Mesara. Bird & Co. on wide experience, as per attached memo. confirm the preceding points.
 The Covernor of Kenya recommends that the requisite
- loan of granted.

 8. The Magneti estate after several inspections at Taveta; are continually pressing us for delivery of a similar machine with the few mechanical corrections as already
- arranged.

 9. The Ziwa Estate is likewise pressing for delivery of a machine.
- 10. We ourselves after ten years development work in East
 Africa, ten length; visits to East Africa by our
 representatives, and an expenditure of £ 30,000 plus
 our liability for the loan now requested, are entirely
 confident in the full commercial performance of the

new machines with their proved advantages over the

foreign machine and that they will bring this expanding market into British hands.

(This concerns far more than our own machinery, as it affects engine builders, pump makers and other British suppliers).

i. . If the preceding ten points fail to convince the Committee that this is a case worthy of assistance to the full extent of immediately replacing the machines at Usaindi and Ziwa, our mark so far as we can see automaticully comes to an end and the results will be lost unless perhaps at a later date that may be spioused by the foreign firm at present controlling this British market.

Yours very truly

Downing Street, London, S.W.1 Hessrs. Bird & Co. is the largest sisal undertaking in East Africa and Mr. Gray with his long experience in control of that organisation and his familiarity with the working and requirements of all sisal machines is in an eminent position to express a practical opinion.

HEMORANDOM ON THE MANGHALL DECORTICATOR.

- I inspected the machine at Taveta in January this year. It was running regularly, being driven by a light high speed oil engine of a nominal 60 horse power.
- 2. The decortication was definitely very good, the fibre energing from the machine straight, clean and free from undecorticated strips. The wastage was low. It was not possible to obtain a true view of the possible output capacity of the machine, owing to the low power and unsuitable type of prime mover being used. The whole performance of the machine, both as regards output capabilities and efficiency of decortication was completely obscured by the unsuitable prime mover. Taking this most important factor into consideration, I considered that the decorticator gave a convincing performance. I doubt very much whether a gorona decorticator could put up an engine of the same power and type. It considered that the decorticator machinical alterations referred to below with prime movers, of equal power and type, the output from the Manghall decorticator would not only be adual to that of the Corona but most percentage.
- J. In the main features of design, I consider that the machine has practically reached finality. Certain of the minor features, such as the feeding arrangoments, require alteration and adjustment, but this should not be either a difficult or an expensive matter. The change-over system is a particularly simple and effective device and is a great improvement on any or the existing systems.

BIRD & CO. (AFRICA), Ltd.

J. V. GRAY.

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C/Kenya Bo

CONFIDENTIAL

MILLBANK.

ONDON, S.W.I.

In menty to word intom No. 34 0 /36 a 16th Jung, I have the him up to state that we were different

the Hydrenlic Engineering Company was right company eath adea of the figure of the contract was well and the contract of the contr Cournery America of France 2000 Philippines France of sick enc independency Barea note: head currented and hood being temperated this and 20,000 for ather considerable of the for one of the registered by the Company and outstanding over under toodsta mount to approximately \$25,000.

H The Company are peputed owners of lange works and foundry in Cheater, employ about 10h minds and are held in go repute. The fir theigh position of the Company is believed to be fayourable, and they are considered reliable for their erdinary engagements.

The Company have not infrequently, supplied to di

order "Ball presp, adjusters" for verlous Colonial Dovernment Rollways; and you mre, or course, ampre that they have, supplied certain machinery in connection with the ediablishment of a factory for policely 30 tening Plant for Henry d loan the wifer man base same by the Colon of Development Fund botthe Kenyi devernment for re-lear to kr. McCylle WGononial drille treference 38150/361

CTONIAL OPPICE.

380F2/36 B.A. C.O. M. Grossmith. Mr. Pastin of C. Parkingon Sir G. Tomlinson. Sir C. Rollomley. Sil I Southing Print VIST of S Parly, U.S. of S I bave sto. to acknowledge Secretary of State. the receipt of your despatch No. 242 3 DissiT! of the 14th of May transmitting, in KENYA. connection with Captain Manghall's: NO. - 424 application for further undistance GOVERNOH from the Columbal Development Fund a report on the working of the CURTHER ACTIONAL Mangnell Desortioutor now the Tayota Patate. 2. Your desputch and the oopmpanying report was submit

Mr. Mr. ommittee would be justified in MST O Cartineo supporting it. Sir G. Tomlinson Sir C. Bottomley Sin Jashuchburgh. Perint U.S. of S. desirable that ps. full Xeparts us Parly. U.S. of S. Secretary of State. possible should be dutained of the DRAFT katelye of 406 sevete georgies will ahali be obliged the the lif you will sprkuge for the ports to be made by all the special of an articultural OMiger. leadrown Agents for the caton of deal gried by the cate RTHER ACTION enquirios wishes ribu to kurnis therecommittee in the third puttan

38022/36 E.A. C. O. arrich 31 Grossmith. 4/6. Mr. Mr. Downing Street, Mr. Sir C. Parkinson. Confidential 16 June, 1936. Sir G. Tomlinson. Sir C. Bottomley. Sir J. Shuckburgh. Gentlemen. Permit U.S. of S. Parly U.S. of S. I am etc. to refer to you Secretary of State. letter of the 4th of July last DRAFT/ (reference O/Kenya 80) regarding by THE CROW, GENTS loan of 13,000 from the dolonial FOR THE COLONIA Development Fund. to the Hydraulic further application grow gaglabande FURTHER ACTION. me he for the first the first the Colonial Durolopment Liv some by opening that the Committee has asked to be a to the standing of the Company

38022/36 E.A. I am accordingly to ask you urnioh this Department/with such information as dan be obtained in regard Sir G. Tolulinson. Sir C. Bottomley to the diatus und precent position of the Sir J. Shilebburgh. Speretury of State. (Signed) J. E. W. FLOOD DRAFT: The series ARM regarding your the managing die tor, application for a loun of #6,000 from the Colonial Development Fund and to inform you that the Colonial Development Advisory Committee would FURTHER ACTIONS be prepared to recommend a further loam of 11,000 towards the -improvement of the machine now inuse at Tavets provided they are

satisfied from a technical standpoint that the proposal is nound and likely to make the machine abla auccessfully to compete with biser makes of sisel decorticating pechinas. The Committee see no justification for any advance from the c.n. F. in connection MARCHAN MAN STANDS with the two machines for the Line and Lusind? Hatetes until the practical possibilities of demineral and and Tamela The machine now in hee have been fully dament - gly demonstrated: / The Govt. of Kenya is/being asked to furnish full reports by an Engineer nd on hericultural officer in the respects The 'assistance for the completion' of the Taveta machine could only be

contemplated , however; if arrangements could

DRAFT. FURTHER ACTION.

C. O.

be made by you with Mr. Bibby and Sir C. Parkinson. Mr.Mehta to prevent any action by Sir G. Tomlinson in C. Bollomley them jeopardising the suggessful exclaiment an the machine in a question. I am also to ask the next of for the rain of the Hoteles bullet (Shrined) V. L. W. FLOOD

2nd June, 1936.

10.0.4c

AIR MAIL

F.A.Stockdale, Esq.,C.M.G.,C.B.E., 2, Richmond Terrace, LONDON, S.W.1.

Dear Stockdale,

MANGNALL DECORTICATOR.

Following on the despatch sent by this Government to the Secretary of State, the attached copy of a detter and report, dealing with a comparison between the Mangnall and Corons deconfigators, will interest; you.

"Li baffeve you are aware of the Hollien' degortication — Wolfelmentioned in Ld you on him leawer and suggested that you might get adjust of it from Mr.Hamilton of Mr.yeaell Cotts. Company for it from Mr.Hamilton of Mr.yeaell Cotts. Company for it to be in the final experimental stage in about three to six months' time. If this machine is successful, it will undoubtedly be a competitor to the Mangnall decorticator.

Another process is under trial by Rutherfold and Mann - ordinary decortication by Coronacor Aber with recovery of Time waste by a centrifugal process watch includes thorough washing.

Yours sincerelly

UKWalin

SCOTT AGRICULTURAL LABORATORIES. P.O.BOX 338, NAIROBI.

HEF.NO. SISAL.1/104.

25th May, 1956.

Major Layzell. Taveta Estate. Taveta.

> A Comparison of Decortication by the Mangnall II and the Corona II B. Decorticators.

Dear Sir,

I have carried out some further selarations on the waste flume materials collected there on lay lth, 1936, and I believe that the data will be of interest to you and others cornected with these decortication

- Besides the quantity of fibre produced per sulfit and the quality of first iore, it is important to show about the relative "efficiency of abstraction" of the two decorticators. The results are based on short runs and it is recognised that the weighing of the different lots of fibre and waste materials at Taveta was not very accurate. Farther wor. on the separation of the waste materials has been accurate and I think that the data submitted herewith gives a fairly reliable guide as to what has happened to the total initial fibre content of
- I would regard such a record of the fibre as highly important as it gives an idea of the percentage of fibre lost during the different stages of decortication by both types of machines. The quoting of percentages to four decimal places is not valid, but the efficiency, which were obtained by the use of logarithms, are retained for subsequent calculations. For convenience all weights are liven as percentages of the leaf.
- 4. The dry weight of Liangnall II waste was 75% as against 1.39% for the Corona II B, but the mechanical separation of the materials reduces tuese values for fibre only to .61% and .81% for the Mangnall II and Corona II B. waste contained weight much more leaf tisside. You will note that most divide Mangnall II "decorticated fibre" loss occurs during the decortication of the Butt section. The loss here is about II and .50% loss by the Corona II B. the Mangnall II and .50% loss by the Corona II B. The Mangnall II and .50% loss by the Corona II B. The Mangnall II for the Corona II B. the Mangnall II section is relatively low; viz. . .13% as against .51% for the Corona tip, section. There is need to reduce the heavy loss of decorticated fibre during the butt section decorticated by the Mangnall II. It appears that there is a great deal of spatching of already decorticated fibre during the second grip while the butt end is being decorticated. decorticated.
- partially desorticated fibre or bunched fibre held by he partially desorticated fibre or bunched fibre held by he strip of undecorticated leaf, wide Table II. The Manufall II throws out very little bunched fibre (though whole leaves drop out) as compared with the Corona II B. The amount of fibre only contained is found to be off for the Manufall (mainly butt section) and 15% for the corona, the latter being made up of about equal losses from both sections.

6. By adding this bunched fibre to the decorticated fibre that is lost we get values of .66, total fibre lost by the Manguall II and .96% by the Corona II B.

The last Table gives the relative amounts of abstracted and waste fibre by the two methods of decortication. The Mangnall II abstracts about 84% of the total fibre as against about 77% for the Corona II B., or in other words, the same quantity of similar leaf would vield 84 tons of fibre my the Mangnall II abstraction and 7% tons by the Corona II B. austraction. The relative respectively. These wastes might how hold for leaves of a would start start and 25 tons.

Yours faithfully,

Sq.G.B.Gethin lones.

Conflit Deputy Director (P. 1.)
Through Senior Agracultural Chemist

with the accompanying tables of fibre extracted, rives a good idea of the relative "efficiency of approach of the relative "efficiency of approach of the polative "efficiency of approach of the polative of the polative that is the polative of the polatic of the polative of fibre per shift will five the "efficiency of apportion." The figures show the proportion of fibre that is lost during the various stages of signification and indicate where further technical approach indicate where further technical that the send of the "efficiency of abstraction" of wallow walled the "efficiency of abstraction" of wallow types of staal decortication.

Sd: G.H.Gethin Jones Soil Chemist.

Forwarded.

Sd.W.A.Heoklev Benlon Agric: Chemiet. A Comparison of Decortication by the Vangnall II Sorona II B

section and butt section was to have for both true and is

leaf weight. "The averance values for both tracks and as ollows "

angual II. Corona . . .

Stin Section, Butt Section Wotal. The Section. Butt Section.

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Trage sould where the values give a very more lasts without of the wannar at filter lest of the properties that as any projection of fibre, loss material, lest tague and numbered the will provide the carely. The much higher values for the Carela its matty mouth up at litts of lest tague; they amount to about it infil or the inter-weight as compared to about a tenth only, in the wars of the significal wages.

thin of the total weight as compared to notation tenth only.
In the case of the sequential waste,

[suplem of these waste [hi/e naterials, separated by hard into (1) loose three (it) loose dust; iii) less tissue and bunched fibre: The following sergentage values were obtained.

Table II: Corona II B.
Tip. Butt. Total: "rip. Butt. Totals."

Loose fibre loose dust, less tissue by ched (1b... 1268 AROS . 607 5 **1**5000 8110 1559 .0278 .03250608 0646 1880 2564 .0180 .0624 0804 4444 -1726 . D7 54 7480 8210 3892

Thus the loss of lidose fibre by Languall descritication in .CMS; and by Corona securification 8110; the greater lass by the borona being 2007;. There remains further amounts of partly decorribated fibre continued in the leaf times and unclud. There separation: "These portions were lossened by beating in a cortar and then washed to scarn is the fibre from the remaining materials." The results were as follows:

Corona di Tota Tip. Butt. Total. 10114 .0899 0511 0681 .0066 .0275 . 1847 .0227 .1249 .3096.1880 .0180 .0624 .0804 2564 .444

The total laber wasted by the two methods of decortication is the summation of the laber laber laber and the laber laber were a summation of the laber laber laber and example of the conference of the conference

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otal waste Fibre	84 16,10		. 3450	.82.85

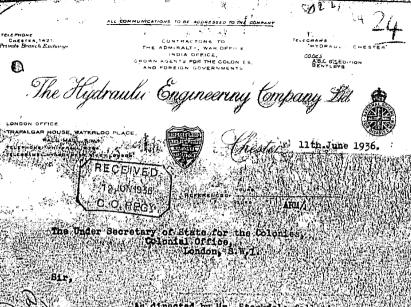
The difference in the total is sainly the to the corner of weighting and the slightly different water content on the different sample. Indicate the third and fourth decimal places have no significance but are retained or later calculation unposes.

Burgarana di Karangan di K

I have only to-day polis to the Under Seculary, the memorandum photographs required by Committee (Copy of memoral has held my up, but his water is affected to shows total of Grandle ford

They are from fifty to The state of the s tack have med the appears by Every 你不见了一个我们只要一个的情况。 CALLANGE OF SECTION who will be the and any one for was for for the he confidence to the confidence outh in out 15000 The and the state of all lines is that the present

337/ 464 James



As directed by Mr. Stockdole following the last meeting of the Coloniel Development Advisory, Committee, we heg to enclose our memorandum in connection with the Report From Kenya together with the necessary photographs.

return.

The delay has been occasioned by the photographer being absent for the Whitsuntide holidays and the time taken to prepare the photographs since his

> We have the honour to be Bir, Your Obedient Sorvents THE HYDRAULIC ENGINEERING COUPARY MINITED

> > Managing Director.

CONFIDENTIAL

MEMORANDUM

to THE UNDER SECRETARY OF STATE FOR THE COLONIES

from THE HYDRAULIC ENGINEERING COMPANY LTD.

in connection with the Report No.242 from Kenya dated 14th. May 1936.

The Report states that the machine at Taveta is not commercially successful, because it will not produce 4 tons of fibre per 10 hours. For reasons which are stated later in this memorandum, we ourselves consider it is in the best interests of an estate to work on a production figure somewhat less than 4 tons per shift per machine, but we recognize that certain estates; whill they can be persuaded otherwise, will demand this output from a single machine.

while the report states that the Hangmall machine with its went engine is capable of only 32 thinks per 10 hours against 50 by the Corona, the Top kept by our Engineer (copy attached) of centain days running, shows that on several of these days with the engine was running correctly. Our trucks were put through the sangual Lingil hours.

Since the Test flyures in the Report show the Mengaell to be capable of extracting 17.67% more fibre from the leaf than the dorana, it is only necessary for the Mangaell to decorticate 431 frucks to equal the output of 50 frucks on the Corona. This shows that very little more power is required than at present. The oil engine installed by the Tavete estate to drive the Mangaell it of the small high speed type and has proved inreliable and exceedingly variable in its power output.

Provided an engine is installed which can be relied upon to give even output continuously, the

decorticator will have no difficulty in dealing with the extra

number of trucks to increase the fibre output.

The majority of estates do not produce as much as 4 tons per shirt, and a shift is often as long as 11 or 112 hours.

The finest sisal undertaking in the world (The Anglo-Dutch Company of Java) has a battery of 15 Corona decorticators, of which only 10 are in commission at any one time.

Shifts are run day and night and the yearly output is 10,000 tons.

Allowing 300 working days in the year, the output is 33.3 tons per day for ten decorticators.

This equals 3.33 tons per decorticator for 24 hours, or only 1.66 tons per single shift.

The Java Company must therefore consider that a very small cutput from a single machine constitutes a "commercial nithing."

This Company is of course exceptional in the care it takes to produce a fine fibre.

After decordication the Java fibre is again machine washed.

The anguall fibre is equally clean without this extra washing process.

At the Ziwa estate, it Kenya where we have to instal a

Mangnall descrittator, their existing descriticator produces
approximately 5 thus in two shifts of 11 hours each;

1.e. 2 tons per shift. There are many ather
estates which work on the same basis of output.

ing demand in certain quarters for high output from a single machine was created when the price of sisal was very low and estates often impoverished.

Obviously the ideal can only be to produce the best quality at the lowist possible cost taking into account all capital expenditure and not of necessity to obtain high output from a single unit.

The last words on page 5 of the Report and their completion at the beginning of page 6 indicate a somewhat faulty conception of economic production in that they overlook the all important item of increased percentage of extraction of fibre and its effect on profits as shown by the following figures.

Analysis of Test Figures taken from Appendix 'A' of Report.

Total of two tests.

				
	Mangnall,	Corona.		
Dry brushed fibre	156.625 lbs. 1	14,25,1b		
tow (removed in brushing)	6.5	8.5		
Waste Fibre recovered from f	The Market of the Control of the Con	Ludo'S		
Mangra 35 75 Coroun 6		i ana		
of 2 % lor dried megas pa cles adnering to flore)	B-617- 30-12. 2 ·			
NOT CALLET DESIGNATION OF ALLEY	26.8	9 14/3		
* lotal waight of fibre dvaria		1:75 7		
pushgrain services on 1 165	Water State of the Action of t	16.201.20		
	925) 1	THE HEALT		
Corona extraction 25%.	75 (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	e cent.		
This/gives/an extriction/by	The Manded to the Party			
THE PERSON WITH A WARREN LIBERTY AND A	Treeties, v. 1340/ per de	auc. C. Lo		

Spearer than the Corons.

is a factory producing on a baris of 4 tons, per day and avious 300 morking days per year, i.e. 1200 hape yer year, i.e. additional, yield of the Mangnall machine would be 126 fons which at E, 22/per/ton/Yactory value would give thereexed revenue of 1662

The Report also states, that when the machine reverts to using chryed surface froms instead of edvalght surfaces the percentage; will be higher still

In order to examine the figures, assume the Mangnall decorticator to produce only 2 tons per shift and two machines to be necessary to equal the 4 tons per shift of one Corona.

Obviously overhead charges, management costs etc. are only concerned with the total output of the factory, and if two machines are employed, would be affected only by an increased depreciation charge for the additional machine. There would be also the direct cost of additional native labour operating the second machine. Supervision would not be increased.

The Report figures show that per ton of fibre produced the Horse Power required is in the case of the Mangrall only 70% that is the Corone ... Therefore running two Mangrall machines each producing 2 tons, instead of one Corone producing 1 tons, the sotal power would be only 70% of the single Corone. ... Similarly with less waste to convey awat in the drain the amount of water requirement is

The analysis given carlier in this Memorandum shows that the extraction of Tibre by the Mangall 12:15:875 in excess of the Gorona.

On a 4 tons per day production this gives an extra revenue of 2.5,652 per annum.

Taking the inetalled cost of one extra Mangnall machine at £2300 salling prior; plus £ 500 fraight, Plus £ 100 breation; l.e. £ 2700, or may £ 3000 and deprentate over 10 years; l.e. £ 300 par year, plus say, £ 250 per year additionally, native labour costs, we errive at an extra yearly expense of £ 550, and against it we have an added yearly income of £ 7652. Plus the advantages of superior fibre which requires less brushing and produces less tow.

It will thus be seen that an efficient machine producing far less than 4 tons per 10 hours can be a very sound financial proposition In connection with the three estates, Laveta, Marindi and Ziwa, we had in the case of Taveta to guarantee 4 tons of fibre per shift when decorticating leaf not less than 4 ft.long.

A shift in East Africa is a task of a certain number of trucks and often takes 11 or even more hours to complete.

The Masindi guarantee was similar to Taveta except that a shift was stated to be 12 hours.

Ziwa did not demand any form of guarantee.

From our point of view as machine builders and carrying the responsibility for repayment of the loan already made and the additional amount for which we now ask, we consider that final information is at our disposal and with new machines installed at Mastadi and Ziwa and we agree to Taveta's request to be given curved drums, a new feed table to allow aligntly faster feeding of leaves together with one or two minor details, we shall be able to enter the market immediately, and to meet the foreign dompetition effectively with a British made and more other machine.

Any half measured such as iffer maring the literations asked for at Tareta would's wolve us immediately in litigation with the other two estates and bull many years of filler, would be entirely was ted.

The Manindi astate installs by ashigmant being made from our works in August, and the machine for lims must leave's make or two later.

The time factor is now of primary importance. Since sisal is active and prosperous, new extates are coming into production and cally of them will be forced to buy through another daily is forced upon us.

The attached photographs show the machine from its erection in our works to its producing stage in Kenya.

At the time of photographine, the fibre seen passing through the machine is travelling at 140 feet per minite or about 50 per cent faster than is possible on the Corona. This allows leaves to be treated when more openly spaced and so receive more effective and lighter treatment.

Measurements taken by Hydraulic Engineering Company's Engineer on certain days minning of the Mangnell decorticator during hils stay at Taveta.

It should be noted that variations in the figure shown in the last paragraph under the heading 'Trucks per hour' are accounted for by the irregular running of the oil engine affecting the rate of feeding leaves and also by the natural variation in leaf condition; some leaves as short as 18" produce weight for weight considerably less fibre than leaves, say, 4 ft. long and are more difficult to feed.

The figure of 3.5 trucks per hour shown at the bottom of this last paragraph is the average taken over all the measurements and represents 35 trucks per 10 hours.

3.5

Communications on this subject should be addressed to-

THE SECRETARY

Telephone: WHITEHALL 919.



Corostal OFFICE

DOWNING STREET

5th June, 1936.

S 10 1

C.D.A.C.1988;

Sir.

I am directed by the Colonial Development

Advisory Committee to request you to inform Mr. Secretary Ormsby-Gore that, at their 89th meeting on the 27th May, they had before them an application. submitted on behalf of the Government of Kenya, for a further lean from the Colonial Development Aund for the construction and installation of two new sisal deportibating machines to replace the defective machines now in use. (O.D.A.C.1981). The Committee also had before them a despatch from the Governor of Kenya, and had the adventage of receiving evidence at the meeting in regard to this application from Ceptain A.R. Mangaell or the Hydraulic Engineering Company, Ltd., and Mr.F.A. Stockdele, C.M.G., Agricultural Adviser to the Secretary of State.

As a result of the assistance provided from the Fund in 1932 three experimental machines were constructed and installed in Kenya. Those proved to be uneatlafactory; and, with the help of further CRETTARY: OF STATE

assistance from the Fund, one of the defective machines was replaced by a new model, which, it was hoped, would gvercome the difficulties experienced with the earlier machines. The Committee are now asked further loan to cover (a) the cost of the two other machines and (b) further improvements to the machine now in use. It appears, from the report now received from the dovernor of Kenyo, that the new medel iow in operation confortate be regarded as a proved commercial success, and win these arraymetances, the Committee see no justification for any expenditure on the replacement of the two other machines until the practical possibilities of this model have been fully demonstrated. The Committee would be prepared to recommend assistance towards the improvement of the machine now in was; but before doing so they would like to be furnished with an independent peview of the proposed from extechnical standpoint, showing the change of its success whether it should be able successfully to compete with similar machines of German or other manufacture, and generally such information safwould disclose whether the Committee would be justified in supporting it, and at the same time they would like to be advised anyto the standing of the firm concerned

as to whether it is worthy of further support. Assuming these reports were satisfactory the Committee would be prepared to recommend a further loan of £1,000 towards the final completion of the first machine, subject to such arrangements being made by the Company with Mr. Bibby and Mr. Mehta, as would prevent any action by them jeopardising the successful development of the machine in question.

A similar letter is being sent to the Preasury.

I am, Sir,

Your phedient bervent.

Secretary to the Committee.

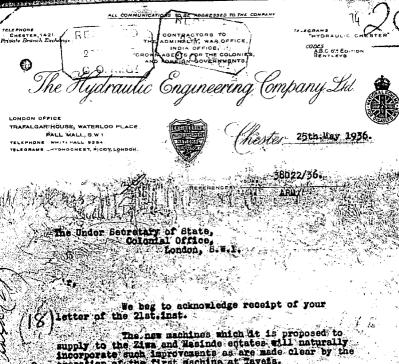
as to whether it is worthy of further support. Assuming these reports were satisfactory the Committee would be prepared to recommend a further loan of £1,000 towards the final completion of the first machine, subject to such arrangements being made by the Company with Mr. Bibby and Mr. Mehta, as would prevent any action by them jeopardising the successful development of the machine in question.

5. A similar letter is being sent to the

I am, Sir,
Your obedient servant,

Secretary to the committee

NOCINO THE TOTAL



operation of the first machine at Tavela.

These will in no way affect the process and will be confined to points which will simplify construction, operation and maintenance. Also the grip on the fibra will be atill further improved and drums will be and with greater curvature to improve leaf entry.

In the interest of all concerned it will be adviseals to incorporate some of these goints in the existing section at Tayata.

The Under Secretary of State, Colonial Office, Wondon, 5.W.1.

Our reason for smithe for a found twiend of a 5,000 twiend of a 5,000 the in prior to be in proceeding to water the desired adjustmentated revets and to need a country our standing for indoor suggested in kenns and other sorting dependent which we had anticipated would be provided by the astate, when satisfacting the securit for the constitution.

Ne are, thr. Your obedient beryents THE Hyphania: Englishering Company Maithle

Managing Director.

AIR MAIL

KENYA



GOVERNMENT HOUSE

KENVA

可以 MAY, 1936.

oir,

24th April, 1936, relating to the application by captain mangnall for a further loan of £5,000 from the colonial pevelopment fund in connexion with his descripating machine, I have the honour to transmit for your information a copy of the Report by ar. Sethin sones, soil chemist, on the new model now in operation on laveta matate. In. Johes, amongst his other duties, has been engaged on sight time research on the industrial side during the last year.

2. IOU WILL OPERTA THAT THE MENAGER IS NOT ENTIRE.

Ly satisfied with the present machine but considers High

it will prove commercially successful it certain alterations which have been agreed upon by the machine spread and
the Machine are justificating.

the triple of agricultureria of the grinder the triple of the grinder the triple of the triple of agricultureria of the grinder the triple of triple of the triple of triple of the triple of the triple of the triple of triple of the triple of triple of the triple of th

THE ALGHT HONOURABLE

JULIAN THOMAS P. T. C., H. P.,

SECRETARY OF STALE FOR HE SCHOOLS

DOWNING STREET,

LOMDON. S. / 1.

4. I agree in the Director of Agriculture's view and I therefore recommend submission of Captain manifoldis

application to the colonial pevelopment advisory committee b. As regards captain manged liss statement that offers to produce the new model had been received from two latates, I am informed that the offer by the Ziwa Estate in Kenya was made on the understanding that the improvements suggested by the handler of layeta latate would be included in the machine. The other latet concerned is in ogenda and I am unaware of the circumstances

of the offer.

i have the honour to be, sir,

numble servent,

PRIGNIER-GENIRAL

This report on the working of anguall so. In Decorticator must necessarily be a partial report only, as the writer does not reel qualified to express his own opinion on certain engineering and highly technical factors which enter into the valuation of the efficiency and economy of this machine as a sisal decorticator. However, through the courtesy of the manager of Tayeta Estates, the writer was given every facility of studying the correspondence dealing mainly with engineering matters and trial runs between Capt. Anguall and Tayeta Estates; and also the Estate files dealing with percentage extraction; output c. Tibre per day and soutings.

The wniter was at Taveta Latates 2 to May 2nd to lay 7th; sher certain extraction tests were carried out. Throughout these running trates the performance of the Second Singuall Decorticator was compared with the performance of a Gorona No. 2 Decorticator using equal weights of similar leaf. The results of the personaled tests in terms of the out-turn of the mac. _0, percentage (thre extracted, percentage of waste tow, water used and power unit employed are given in appendix A.

Licto on the First and Second Mangiall Decortica tors.

The limit Mangiall Decorticator was found to have some good goints and some fallings when put to the test of commercial decortication. As compared with the Companies of the decortication, it had the adventage of individual feed feed appeals agreening folis and four drags instead of two thus taking for a steady feed of partially crushed leaves which are decorticated from both aldes. This ortained was appeared and thorough and gave a higher the faction of limit with a correspondingly smaller population of suctor free libre produced was also of a higher quality as shown by the callings of the First Manghall Decorticator were as follows.

[1] There was a decided weakness in the lear convoyor system

due to the milure of the wire rope converge at the last male ethorized justing the tension on these the ropes.

(ii) there was a general lactor are the rope at structures northons causing regard a processes.

(ii) the ranking was not a lettore attended to reduce the amount of the tensions of the result.

Decorticator were sufficient to warrent the expenditure incurred on the enstruction of the second angular position of the properties and also a second angular was to abbote the position of the second angular was to abbote the position of the second angular was to abbote the position of the second angular was to abbote the position of the second angular position of the s

The mate of tempting as compared to the president

exc? I could strong stainless steel chair.

(11) The four dras have been lacressed in size and are how that iroms instead of the original conveil drams. The initial alteration is now countdered to be a displaymentage; (111) The grip on the libre has been improped by contact with rubber in place of the metal ribs.

(iv) The synchronized semi-automatic feed table has been replaced by a plotted accurage ration, which still allows the leaf to be fed simply to the machine.

(v) The crushers have been altised in design and position (41). Actual description flow he done by very than thin he a block black as a block black as a block of the spinion that softer phosphers come blaker actual to come suitable.

tince the installation of the language triffeworlds since afternations and eliminated to have been control of the language that appeared in or a resident entire or

meant that the described did not commence to work full shifts will make the recently.

le sain ex catargo ta ... have a swell to be called 1 but en again by a treat the sing of the strature of various sor in grots La ditution of the stabless steel laws a. now you want, we tise it and the lives not compleal to tole lite one wese, t conversatively low out-turn a fore, but it is not known how it would wathstand to more reald outstan o flow that the telephone and need for a measer outstant to the stantist is a paramount importance as a slower second cation, to the the percentage of abstraction is slightly higher, we cost producing one ton of fibre is very such increased owing to the cost of sugar that the cost of negative being para countries of the paret engine office in Astalic concentration of black a word acceptain overnead

The spots of decorrant force, the Mindolf Werner of the Mindolf Werner of the State of the State

Living the notices that the rate or decentication by the familial la. It is called by the that of the orange the frequency leading of the foreign of a three to can adjust and is lightly to be frequently and the foreign of a three to can adjust and is lightly to be frequently that then the same live in has to keep in the register form the conveyor system in the foreign to the foreign of the conveyor system in the foreign to run the decorphysic of the run enough to be. It is noted to run the decorphysic with a rape, maps, when there is the necessary stoppyse with a rape conveyor rope is increased. It continues the

is estate manager considers that the communative of martins

of the machines are of the order of 32 trucks per shift by the Manghall EI and 50 trucks per shift by the Manghall EI and 50 trucks per shift by the Manghall EI and 50 trucks per shift by the Manghall EI and 50 trucks per shift by the Manghall EI and 50 trucks per shift by the Manghall EI and the Manghall

ajor layzell maintains that since the institution o: the flat drum in the Hangmall o.II instead of the curved trum of the Manghall Mo.I, there has been a falling off in the percentage of fibre extracted with the result that more libre goes to waste down the flumes. It is difficult to aggess this factor, fibre content of the sisal leaves decorticated vary with the seasons. It is reported that a structy 44 abstraction has fullen to something of the order of 5.5%, but this latter figure is still slightly higher than enstruction of similar leaf by the forona II. Sajor Layzell maintains nat the re-installation o curved drums and the use of Acas hard hosphorbronze blades instead of the very hand atainless steel ones now in use would result The Higher percentage of abstraction and in a better quality The estate records tend to confirm the falling off in percentage abstraction after the introduction of the flat It is reported that various makers of sisal drum. decorticating machinery have tried flat drums and found them lean gultable than the curved ones.

Decortica for loads the writer to report that at present it cannot be considered a connercial success, bit rather that it mut be regarded to be in its later experimental stages.

Writer believes that a sisal grower with a large quantity

of leaf ready to decorticate would prefer to purchase a

Corona Decorticator of a known capacity of fibre production per day, rather than the purchase of a anguall becomicator of known limited capacity at the present speed of decortication and of an unknown $\rho\epsilon$ formulae when ϕ in Γ under a greater load with additional home power. It is highly propable that the Arther alterations considered necessary by Capt. angmall and the mana or of Enveta Estates; will result in a meater capacity by decortication, a higher percentage of abstraction and possibly the production of a still higher grade fibre, but at present these features The decorticator has been "ound to have not been proved. be mechanically sound under the present rather lowscomparative load, but it is not how how the machine car withstand the proposed preater strain and what replacements may be necessary under the new working conditions. Aroth it lists not known whether the machine will be carable of producing the guaranteed output of four tons of dry fibre per standard shift.

manufacturers of the Hanghall Decorticator and the manager of Taveta Entatos (Kajor Layzell) have agreed upon the further alterations and additions which are considered necessary to enable the Manghall Decorticator to produce a higher abstraction of a high quality fibre and more especially a greater daily out-turn of fibre.

The writer is not in a position to speculate as to shother the descriticator will attain its objective after page afterations have been carried out. Rajor layers, in of the opinion that such will be the base, vide his private communication which is enclosed as appendix B to this report. A note by the Chief Engineer of Taveta Estates is enclosed as appendix C.

that at present the anguall Co.II Decorticator cannot be considered commercially successful, but that it is sufficiently so to justify the carrying out of further alterations and additions which have been agreed upon by the manufacturers and Caveta states where decortication on a commercial scale has been estimated.



Variated DIX: 3 No.

Comparative Commercial Tests of the Mangmall II. and Corona IIB cisal Decorticators.

			mall II.		one ii.
		ruck 1.	Truck 2.	Fruck 1.	iruck 2.
umber of leaves		2 50 0	2500	9/ 0 0	25 0 C
eight on leaf	··s·	2 815	: 465	2315	2465
'vera, weight o leaf	•	.926	.986	-926	•986
Time taken to	ecs.	82 2 ≝	: " : "	: 10	235
Capacity (or .ea) i) lbs. per hour continuous running/		15905	. 980 3	5 986	377 32
(ii) equiv. in 2; ton trucks per hour		28.52	34.30	7.34	6 .64
(iii) leaves per minute		288	350	714	3 8 0
Weight of dry unbrished Libre:)5.	325	95 3	78 .	803
imbrushed fibre) 635/4	5.547 5.545 voti	5.479 L ž ucks	5.581 5.529 po	3.276 the timoks
delight of dry brushed-fibr	6. 7	特。结	70/	74 PM	"Z21"
Abstraction of brushed filire	15 65 1 14 14	4854) • 28 both	5.2 05	"\$ -009	21941
Telbut of dry broshed town	s. 2		VE.	9. 42 DO	u truoke,
Dust & further Volubin Loss	,				5 4 7.487
Abre 4 Megns				07	27
Times. Timesquinon Butt	4	2.4 2.7	4.	12# 20	101
otal ecovery	17	7 4	84	525	524
aten bred clasp.mo	- 24	10, th	roughout.		.a.
ove f Aint t		B TH	O Rin Vari	156 HP 10: HICE	156 H; 10 H;CE.
1 在次的Vick 多过域的中央的推动的特殊。	100	9 1 3 3			فيعالم الم

It was some what the time taken for this test with truck 1 was somewhat longer than normal as the power unit did not give its normal HP so soon after starting. The time taken for truck 2 was considered to be about normal.

APPENDIX B

econd Mangmall Decorticator.

The replacement of the first Manghall Machine which was erected and run on this Fstate from August 1934 to July 1935 was necessitated by the fact that the design of the machine was mechanically and structually unsound, also the machine failed completely to produce the guaranteed output of 4 tons of dry fibre per shift. The sped points of the machine which war anted the expendit re incurred on the construction of a Second machine were:-

- (a) The high quality of the line fibre produced, (90% No.1 Grade in some months.)
- (b) The high percentage of abstraction obtained with its accompanying reduction in flume waste.
- (c) The machine is of British manufacture.

The construction of the second machine was carried out with the intention of embodying in its construction all the good features of the first machine.

The second mathine was erected and commenced its trial runs on Dec. 16th. The running and control of the machine was under the supervision of one of the manufactures own start of Engineers who only returned to ingland on April During this period the running of the machine has been spasmodic and much time has been spent in carrying out improvements, alterations and additions. It cannot be said at the present time that the machine is a commercial success as it stands. The quality of the fibre produced does not equal that obtained from the first machine, the percentage of abstraction also is not as good with an accompanying increase in flume waste with regard to output I consider that more horse power is required for this maghine then the first and if this is available the output would then reach 4 tons per shift always provided that it is proved by continuous running that the mechanical construction of the machine will make economical production possible without undue expenditure on

replacements.

The second machine has been considerably strengthened in construction, the wire conveyor ropes have been replaced by a stainless steel conveyor chain of adequate strength, the original feed table which was semi automatic has been modified. The snatch in of fibre into the butt drum section has been overcome by the introduction of a rubber tyre on the second conveyor wheel. All the improvements carried out on the second machine are on the whole satisfactory but there is still considerable room for further improvements.

The main alteration's which I consider of manufacturers should carry out, are as follows:

- (a) A return to the original curved drums fitted with phosphoromize bindes instead of the present flat drums and stainless steel blades.
- (t) A further modification of the feed table which can be simpler in design and still allow of single less teed
- (c) A surther improvement on the part over device.
- (d) The elimination when presente of all small chains or lar replacement by sold proofed chains particularly on the form over device.

I complified that if these alterations are incorporated and additional if Py is available say up to 100 K.P. that, the machine may then aftain its objective via:

- (a) A pigh quality of fibre?
- (b) A high percentage of abstraction with a mecompanying reduction in waste
- ((c) A normal output

Taking jute a disideration, the improvenents religiated of the distribution of the improvenents religiated of the improvenents mentioned above to be improveded in the improvenents mentioned above to be improveded in the improved in the improveded in the improved in

The rollowing tests were tear led solution if the thin Jones of the Kenya Agriculture Department and myself, on May 4th. These go to prove that further improvements argustill necessary in the Manghall decorticator is to compete as a commercial proposition with the Comma, and other makes.

Result of duplicate comparative tests carried out with the Second Mangnall Decorticator and Corona 2B. Decorticator on 4th May 1936 at Taveta Estate, under the supervision of Gethin Jones Esq., Agricultural Dept., Menya, and Major S.C. Layzell, Manager, Taveta Estate.

Manager, Taveta Estate.	, Kenya, a	and Major S.	C. Layzel	l,
	Mangnal 1		Corona 2 B.	
		Truck 2.	Truck 1	Truck 2
Wgt. of leaf.	2315	1456	2315	2465
No. of leaves.	2500	2500	2500	2500
Time-taken to decortic- ate: Leaf lbs: per hour (continuous mining)	8.42 lin. 1 5985 ,	7.35 Ln.	3.30 Mn.	
25 ton Tricks per 10 hours (cont. running)	Company of the second	34.8	70;8	. 65. 6
Leaves per minute	288	530 T	714	689
P.H. Value	4.5	4.4	4.3	4.2
Wgt. of dry fibre produced.	82% lb.	85¾ lb.	78≟ lb.	80 1 /16#
Percentage filtre to lear appropriated.	5.04	9740	3038 T	3.28
Wgt. of Brushed Fibre:	77 🖁 lb.	79 lb.	714 lb.	72 1 1 b.
Wgt. Brushed Tow	2 lb,	44 16%	3 lb.	5 ; 1b.
Dust & Moisture loss	21 lb.	21 lb.	51 lb.	23 lb.
Wgt. of flume waste				
Tip Section 41 Butt 125	17 lb. 4	₃ 181 16.	82	323
Tater used	240 gTs. p.mn.	througho	it.	
Power Unit	80.HP 4.VAR	80 HP 4 VAR	156 HP 10 HRCE	156 HP 10 TRC
and the second of the second o		Market March	and the second	a the second second

APPENDIX C.

TO WHOM IT MAY CONCERN.

The new type of Mangnall Decorticator, differing completely in construction to the original model, still retains the original principal of leaf stripping, and during our fourteen days practically continuous run 448 trucks of leaf were decorticated, an average of 32 per 10 hour shift, power unit being one 80 H.P. Ruston Hornsby Class V.A.R. engine.

muddy leaves on the feed table, constantly choking the chains and sprockets with sand, several halts were called to free the ordshing rolls, which jammed when a heavy feed was passed. The feed chain, of Reynolds design one inch pitch, has been thrown off many times at correct tension, thatly breaking and being replaced. Also the Reynolds chain over the turn over wheel, severely eaten by the acid

The lower rubber tension wheel seems to wear out the bityery short time! and elip of the stainless steel conveyor (chain is apparainent this hourt "a periacement in Dean necessary.

tion of Mangnall Paraffin consumb pints per day.

38022/36.

angl 20

Contlemen:

I am directed by Mr. Secretary Thomas to nolmowledge the receipt of your letter of the 4th of May forwarding a memorandum relating to the sisal decorticating machinery in Kenya, and to inform you that the application for further assistance from the Colonial Development Fund is about to be considered by S Colonial Development Advisory Committee.

In the memorandum which you forwarded youstate In the last paregraph but one that you wish to gouip the Tavata machine with the improvements which; in the ordinary course of development; will be incorporated in the other two machines and from this it would appear that you wish to make certain further modifications in the new model machine now in operation at Toyeta, order to assist the Comittee in considering the sopilitation I so to request that you will furnish such informati

ADBY OFTO ENGINEERING CONTAIN. TIMITED

information as may be possible in regard to these modifications so that the whole position may be clear to the Committee at the time of examination.

I am,

Gentlemen,

Your obedient servent

C.D.A.C.1981.

COLONIAL DEVELOPMENT ADVISORY COMMITTEE.

Kenya.

Sinal decorticating machinery.

with reference to C.D.A.C.950, 961,1705 and 1725, I circulate, for the consideration of the Committee, a Colonial Office memorandum submitting, on behalf of the Government of Kenya, an application for a further loan from the Fund to enable two new sisal decorticating machines to be supplied in place of defective machines now in use.

The usual financiel summery is prefixed.

s.caine.

Secretary to the Compittee.

GOLONIAL OFFICE,

20th hay, 1956.

FINANCIAL SUMMARY.

 Dependency.	Kenve

Total cost.

Description of Construction and inst

<u>Description of scheme.</u>

Construction and installation of two further models of sisal decorticating machinery to replace defective machines now in use.

3. <u>Date of Commencement</u>. As soon as approved.

Period of About three months.

scheme.

• Allocation Nearly all expenditure will be in the

£6,000

United Kingdom.

Abstrace Loan of £6,000.

Suggested terms Free of interest for 2 years, thereafter at of long.
4 per cent, repayable by equated amouties spread over the third to the eighth years.

Prounts required. 1986/37. 26,600

COLONIAL OFFICE MEMORANDUM.

In 1933 the Committee recommended advances of £1,200 to finance the construction of a new type of significant decorticator by an English company, of which the Managing Director is Captain Mangnall. With the aid of this assistance, the company (Hydraulic Engineering Company Limited) constructed three machines for supply to the following sigal producers in Kenya:-

Major Grogan, Taveta Estate. Mr.Bibby, Ziwa Estate.

Mr. Nanji Kaledas Mehta, Masinde Estate,

In a memorandum, dated the lifth of February, 1935, (C.D.A.C.1705) the Committee were interred that the new machines had failed to give satisfaction, and that it had become necessary for the dompany to apply for further assistance to enable it to meet its obligations to the three purchasers of the machines. The Secretary of state suggested to the Committee that the cost of one machine, (estimated at £3,000) should be advanced from the Colonial Development Fund.

As a result of the Committee's recommendation, a loan of £3;000 from the Colonial Development Fundament and to the Government of Kenya, to be passed on to the Hydraulic Engineering Company Limited, on the following conditions:

The

The loan to be free of interest for two years, bearing interest at four per cent., thereafter, and repayable by equated annuities spread over the third to the eighth years (or earlier at the company's option). If the new machine is not successful, the loan would be converted into a free grant of capital. The loan is granted on condition that the owners of the defective machines will agree to stay their claims against Captain Hangmall's company, until such time as the new machine has been made and tested in Rask Africa.

The Company was dide to obtain the consent of Major Grogan and Mr. Bibby, but the consent of Mr. Monji Kaledon Menta, owing to his absence in India, could not be obtained, and with the concurrence of Mir Basil niackett it was agreed that the stipulation as regarde the third owner (Mr. Henta) should be waived.

An improved machine was shipped to Kenya in September, 1935, and has been in commercial production at the Taveta Estate ever since, where it has been inspected from time to time by the representatives of Mr. Bibby and Mr. Mehta.

The Company is now threatened with legal proceedings by Mr. Nanji Kaledas, Mehta, unless shipment by the middle of August of a new decorticator, in place of the defective machine supplied to him, can be guaranteed. A copy of a letter from the Company is annexed, in which application for a loan of £6,000 is made to emable it to supply new machines to Mr. Bibby and Mr. Mehta; incorporating the improvements which have been; found necessary as a result of the operation of the machine at Tayata binds September last. It is also proposed to alter the Tayeta machine to include these.

The Governor of Kenya has been consulted in the matter and he recommends the application in a telegram dated the 16th of May, provided that the grant, if made, is used primarily to improve the model on the lines agreed upon between the Company and the Manager of the Taveta Estate. A report on the working of the Taveta machine was despatched by the Governor of Kenya to the Secretary of State by the Air mail of the 15th of May. It is anticipated, therefore, that a copy of the report will be available for the Committee's inspection at its next meeting. Meanwhile, the Secretary of State decires to support the application for a loan of £6,000 on the same terms as the earlier loan.

lad office

oh, Nay, 1936

f'rom

M E M O R A N D U M.

4th Hay, 1936.

to THE UNDER SECRETARY OF STATE FOR THE COLONIES

THE HYDRAULIC ENGINEERING COMPANY, LIMITED.

of Chester and London.

The Colonial Development Advisory Committee's Memorantan No.C.D.A.C.1705 of 18th Pebruary, 1935, detailed the position with regard to the Sisal Decorticator developments in East Africa.

Briefly, the position was that we had accepted orders or three anchines at what proved to be too early a stag in the developments. The three Estates concerned were:-

Aveta Estate (Najor Grogan) Ziwa Estate (Ur. Bibby)

Masinde Estate (Mr. Mangi Kaledas Mehta

These machines which could not be tried out in singland, were found to require alteration and adjustment in oxpose

of that which could be carried out in the remote number of the Estates. In spite of this, the Tayeta haching actually did produce about 1000 tons of first areas fifthe and proved the machine to be capable of a very night

percentage of extraction.

The Estates claimed new machines and to assist the

Company a Grant was made from the Colonial Development Fund of £3,000 to replace one machine (Taveta), provided

5.

provided the other two (Ziwa and Masinde) would take no action against the Company until such time as the one machine at Taveta was installed and tried out.

The Tayeta machine has been running since January and has been inspected at different times by Representatives of the Ziva and Rasinde Estates.

we now have intervalled requests from sine and has not resident for replacement of their own machines. Who have their 1939, the Eive Estate wrote asking what would be the carliest date at which we could ship, the new replace machine.

we replied that we could ship in twelve weeks after we had been able to obtain Government sanction to an increase of the loan siready provided for Tavets. On April lat. 1946, the dissince matric, cabled instructing up to supply it new machine and instruction its shipment sarly in full. Otherwise they throutened to instructions.

To gathed a resty stating that everything was weady to go shead with manufacture and that we were taking up the substian with dovernment to ask for an increase of the soun (decimal) the revision scanne to be supplied. The supplications suggested had been provided for

We reported the position to university alle and on his direction we had to submit this Memorandum.

The figure estimated for replacement of the Ziwa and Masinde machines and as mentioned in paragraph 7 of C.D.A.C.1705 was £5,000. This amount would be approximately sufficient as we have greatly reduced the manufacturing costs of the machine. A considerable amount of this estimate is absorbed by ocean freight, railing his railing removal of the old and erection of the machine in these inaccessible places.

the lead in connection with Tayets was 13,000 but our conscions done done of the lead to addition to minutacturing additionabiling and erector coate we have had two Representatives in the country one ton over the months and the other for air months.

In view of the fact that our costs were in excession the loan figure and also that we should like to equip the Tayets machine with the improvements, which in the ordinary course of development will be incorporated in the Ziwa and mashines, we now ask that a loan of 26,000 instead of 15,000 be granted, and on the same terms as were arranged for the Tayets machine.

pinally, we are Eldd to say that this long and confly
Overseds development: is now definitely at an end, product
now onwayds we blishible able to supply to the stati
Andydty maknings unsurpassed in performance and
regulability and inthe massiatung from the Committee will
be unpecessory and will not be asked.

MEMORANDUM

Me from: the 19/5-

m Hora 19.5.

1/5 In 1933 the Committee recommended advances of £1,200 to finance the construction of a new type of sisal

decorticator by an English company of which the Managing Director is Captain Mangnall. With the aid of this assistance, the company (Hydraulic Engineering Company Limited) constructed three machines for supply to the following sisal producers in Kenya:-

Major Grogan, Taveta Estate.

Mr. Bibby, Ziwa Estate.

Mr. Napgi Kaledas Mehta, Masinde Estate.

In a memorandum dated the 16th of February 1935, (G.D. A.G.1705) the Committee were informed that the new machines had failed to give satisfaction and that it had become necessary for the Company to apply for further assistance to enable it to meet its obligations to the three purchasers of the machines. The Secretary of State-suggested to the Committee that the cost of one machine, (estimated at £3,000) should be advanced from the Colonial Development Fund.

As a result of the Committee's recommendation a loan of £3,000 from the Colonial Development Fund was made to the Government of Kenya to be passed on to the Hydraulic Engineering Company Limited on the following conditions:

The lcan to be free of interest for two years, hearing interest at four per cent, thereafter, and repayable by equated annuities spread over the third to the eighth years (or earlier at the company's option). If the new machine is not successful the loan to be converted into a free grant of capital. The loan is granted on condition that the owners of the defective machines will agree to stay from claims against Captain Mangnall's

4 1986

No 4/180--/3

company until such time as the new machine has been made and tested in East Africa.

The Company was able to obtain the consent of Major Grogan and Mr. Bibby, but the consent of Mr. Nangi Kaledas Mehta, owing to his absence in India, could not be obtained, and with the concurrence of Sir Basil Blackets it was agreed that the stipulation as regards the third owner (Mr. Mehta) should be waived.

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100 No 29

دار موسلو کی copy of the report will be available for the Committee's inspection at its next meeting. Meanwhile, the Secretary of State desires to support the application for a loan of £6,000 on the same terms as the earlier loan.

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ODPY FOR REGIST. TIOM

Plogram from the dozernor of Kenya to PETEROPETER of State for the Colonies.

16. 16. 16. 16. 16. 16. Received at 12.43/pm-lemmay 1936.

If 127 Your telegram No.120 Recommend automical for the fatherance of the first section of the first section. The first section of the first section of the first section.

Included in Company and Habager of Tayata:

/if mail despatch and report on machine (eff

Mr.Flood. 14.5

Mr. Hova 15 Sir C. Parkinson.

Sir G. Tombinson. Sir C. Bottomley Sir J. Shuckburgh.

Permt. U.S. of S. Parly U.S. of S.

Secretary of State.

DRAFT.

CAPTAÍN R. A. MANGNALL.

URTHER ACTION

Your letter of the 13th has

Dear Mangnall,

just reached me at the same time as a telegram from Kenya stating that they

DOWNING STREET

are forwarding the necessary official report on the working of your new

May. 1936.

machine by air mail leaving tomorrow and due here at the end of next week. Until that report has been received and

considered it is not possible to say anything. We don't kinw whether the Government of Kenya will be prepared to

recommend the submission of an application to the Colonial Development Advisory Committee or not, and it is

It is a great pity that Nanji

therefore quite impossible for me to

make any statement.

Kelidas

"Mr. Stockstale 14/5 DOWNING STREET. May, 1936. Sir C. Bottomley. Sir J. Shuckburgh. Dear Mangnall, Permt. U.S. of E. Your letter of the 13th has Parly, U.S. of S. Secretary of State. just reached me at the same time as a telegram from Kenya stating that they DRAFT. are forwarding the necessary official CAPTAIN R. A. MANGNALL. report on the working of your new machine by air mail leaving tomorrow and due here at the end of next week. Until that report has been received and considered it is not pessible to say anything. We don't know whether the Government of Kenya will be prepared to recommend the submission of an application to the Colonial Development UNTILE ACTION Advisory Committee or not, and it is therefore quite impossible for me to make apy statement. It is a great pity that Nanji Kelidas

Kelldas is trying to rush you, but

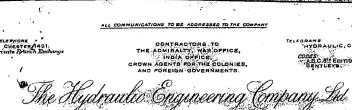
) bout see how the C.O. can

help. I retur your originals

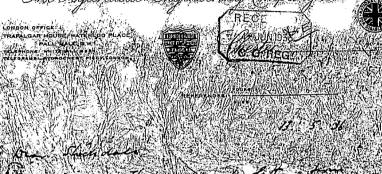
of the cable & letter but have Kept

copies for reference here.

(Signed) F A TIDTKDALE



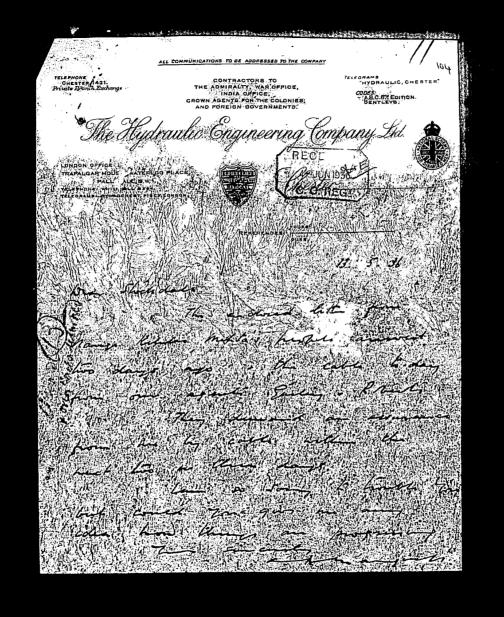
TELEPHONE .





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COPY. THE HYDRAULIC ENGINEERING COMPANY LTD., CHESTER. 13.5.36. Dear Stockdele. The enclosed letter from Nanji Kelidas Menta's people grrived two days ago said the cable today from our agents Gally and Roberta. They demand an assurance fro cable within the next two or three days I am sougorry to trouble you but con You give me any idea how things are prograpsing Yours sincerely (Sgd.) R.A. Mangnall.

Copy cable from Gaily and Roberts to the Hydraulic Engineering Company Limited:

Following telegram received from Nanji Kampala unless definite shipment of decorticator middle August guaranteed within one week taking action cannot wait longer stop please reply position.

Gaily.

THE HOIMA COTTON CO. LTD.,

Jinja, (Uganda).

3rd. May, 1936.

Messrs. Hydraulic Engineering, Co., Ltd., Chester, England.

Dear Sirs.

വ

Re. Mangnall Decorticator.

With reference to the couples and correspondence exchanged between us, we are still awaiting definite news.

It is being mentioned in yours that you are atill waiting for a loan from Colonial Development Fund.

With a view to clarifying our position, we may mention that we wish to know as to what is our position, regardless of this loan question. We are sure you will appreciate that the crop cannot wait as long as the loan question is settled or otherwise, which means that we must have a definite undertaking trostyou regardless of this question as to whether the machine will or will not be shipped by fully. On recent of your reply, we have or have not to approach Garons people force

Duchina

machine to deal with our crop.

With a disappointing experience in the past, we are willing to extend the time of shipment to end of July as against first week stipulated in our caule, from Mairobi, but please do seed this time that nothing absolutely is wrong Aprimating the new machine as was that and the past, the past of the past, and th

cundation and other drawings must be sent by Air Edil in savence of shipment, to shable un to see everything ready before the machine arrives, so see to lose as little time as good ble

We shall very much appreciate if you would fee he have a detailed body by air maid here as som as possible.

Kindly note that all correspondence in this connection is semester to be addressed to us at finished of still uses as himselform.

Avuiting news,
You's faithfully
For and on behalf he

The Holma Conton Co., Little, (Ugd.)

(ago.)

ALL COMMUNICATIONS TO BE ADDRESSED TO THE COMPANY CONTRACTORS TO THE AUMIRALTY WAR OFFICE, HYDROCHEST, PICCY, LONDO CROWN AGENTS FOR THE COLONIES. CODES: ABC 6TEDITION AND FOREIGN GOVERNMENTS The Fijdraulic Engineering (ompany Ltd. Trafalgar House Waterloo Race HEAD OFFICE & WORKE Pall Mall RECEIVED RLEGAMBICHYDAKULIG DH ndon SW1 4th May 198 CO REG ALTERENCES!

The Under Becretary of State for the Colonic REQE Colonial Office 是由一個人人的主 London, 8 W.

TELEPHONE

CHESTER

A directed by un Stookdale I have the honour to south the delete of my Contony the attached menorandum for your consideration. It releves to the

diest pergetimetor development in test Arbins with which you are familiay.

There the bonour to be Sir, your obedient servant

CONFIDENTIAL

11th May 9

MEMORANDUM

THE UNDER SECRETARY OF STATE FOR THE COLONIES

TO THE HYDRAULIC ENGINEERING COMPANY LTD.

of Chester and London.

The Colonial Development Advisory Committee's Memorandum No. C.D.A. 705 of 18th February 1935 detailed the position with regard to the Sisal Decorticator developments in Bast Africa.

Friefly, the position was that we had accepted orders for three machines at what proved to be too garry a stage in the development. The three Estates concerned were:-

Taveta Estate (Major Grogan).

Ziwa Estate (Mr. Bibby).

Masinde Estate (Mr. Nangi Kaledas Mehta).

These machines which could not be tried out in England were found to require alteration and adjustment in excess of that which could be carried out in the remote positions of the Estates. In spite of this, the Taveta machine actually did produce about 1000-tons of first class fibre and proved the machine to be capable of a very high percentage of extraction.

The Estates claimed new machines and to assist the Company a Grant was made from the Colonial Development. Fund of 23000 to replace one machine (Taveta), provided the other two (Ziwa and Masinde) would take no action against the Company until such time as the one machine at Taveta was installed and tried out.

The Twets machine has been running since January and has been inspected at different times by Representatives of the Ziwa and Masinde Estates.

We now have individual requests from 2iwa and Masinde for replacement of their own machines. On March 22th 1938 the Ziwa Estate wrote asking what would be the earliest date at which we could ship the new replace machine.

We replied that we could ship in twelve weeks arter we had been abletto obtain Government sundition to an increase of the loan already provided for Taveto.

On April 1st 1936 the Masinda Lafata cabled instructing u to supply a new machine and instated on 1th phinment early in July, otherwise they threatened to instal German machinery. They also apecified certain modifications.

We called a reply stating then everything was ready to go ahead with manufacture and that we were taking up the quastion with Covernment to sak for an increase of the loan to enable the raplace machine to be supplied. We also stated that the modifications suggested had been provided for.

We reported the position to Mr. Stockdale and on his direction we beg to submit this Memorandum.

The fig. estimated for replacement of the liva and Masinde machines and as mentioned in peragraph of C.D.A.C.1705 was £5000. This amount would be approximately sufficient as we have greatly reduced the manufacturing costs of the machine. Accoustderable amount of this estimate is absorbed by ocean freight, railage in East Africa, removal of the old and erection of the new machines in these inaccessible places.

The loan in connection with Taveta was 25000; but our costs considerably deceded this. In addition to manufacturing, dismantling and spection costs, we have had two Representatives in the country one for over two months and the other for six months.

In view of the fact that our costs were in excess of the loan figure and also that we should like to equip the Taveta machine with the improvements, which in the ordinary course of development will be incorporated in the Ziwa and Masinds machines, we now ask that a loan of £3,000 instead of £5,000 be granted, and on the same terms as were arranged for the Taveta machine.

Finally, we are glad to say that this long and costly overbeas development is now definitely at an end.

Stem libronwards we shall be able to supply to the sleaf industry machines unsurpassed in performance and reliability and further assistance from the Committee will be unnecessary and will not be asked.

Stockdale

Flood 23 4 Mr.

Sir C. Parkinson Sir.G. Tomlinson

🗸 Sir C. Bottomley. V4 Sir J. Shuckburgh Permt U.S. of S.

Party. U.S. of S. Secretary of State.

CAPTAIN A. R. MANGNALL.

FURTHER ACTION.

Qto, for Mr.St

2, Richmond Terrace,

Whitehall, S.W. 1.

Dear Capt. Mangnall,

April, 1936.

With reference to your

letter of April 4th, I have to inform you that a telegram will be

despatched to Kenya to ask for a report on the working of the new mode. of your machine, as the Colonial

Development Advisory Committee will: require to be in possession of such a report before they can give con-

sideration to any further applica-

tion for financial assistance.

The request for an extension of the loan referred to in

your letter now under reply should be submitted officially addressed to the Under Secretary of State, and

in this application the fullest

information

38022/36 Kenya. C. O. information should be given as to the substance of the requests which have been made by the owners of the two Sir G. Tomlinson LSir C. Bottomley. 24.4 estates who are now asking for the Sir J. Shuckburgh replacement of the machines originally Permt. U.S. of S. A . . . Parly, U.S. of S. supplied to them. Sectiony of State. I am. Yours sincerely, PURTHER ACTION

TELEPHONE: CHESTER 1421. Privals Tranch Exclury.

CONTRACTORS TO THE ADMIRACTY, WAR OFFICE, INDIA OFFICE.

HYDRAULIC, CHESTER
CODES!
ABC: 61 EDITION

CROWN AGENTS FOR THE COLONIES, ABS. ABS. ABS.

The Hydraulic Engineering Company Lid

Landon derice

April April 1

F. A. Stoordy & Dig. C.A.O. C.B.E 2)/Atdamond marrads London, S.V. L.

Dear, 51r,

51-38-357135

Sish Despite 1000 Loun, From Golonial Development Pund School of Office Memorandum Sibra C.1705 priloth February 1935.

The owders of the two estates the acreed to askit the result of the first mapine installed at Taveta have now inspected it in production in this we notified us that with a tem into you and first with a tem into you and it is not similar machines and are pressing us for early delivery.

volume of orders Em reach us and chable the financing of these replace mathides, we beg to ask for an extension of the loan as mentioned in the colonial Office Memorandum to meet this situation.

THE HYDRAULIC ENGINEERING COLPARY LIGHTED