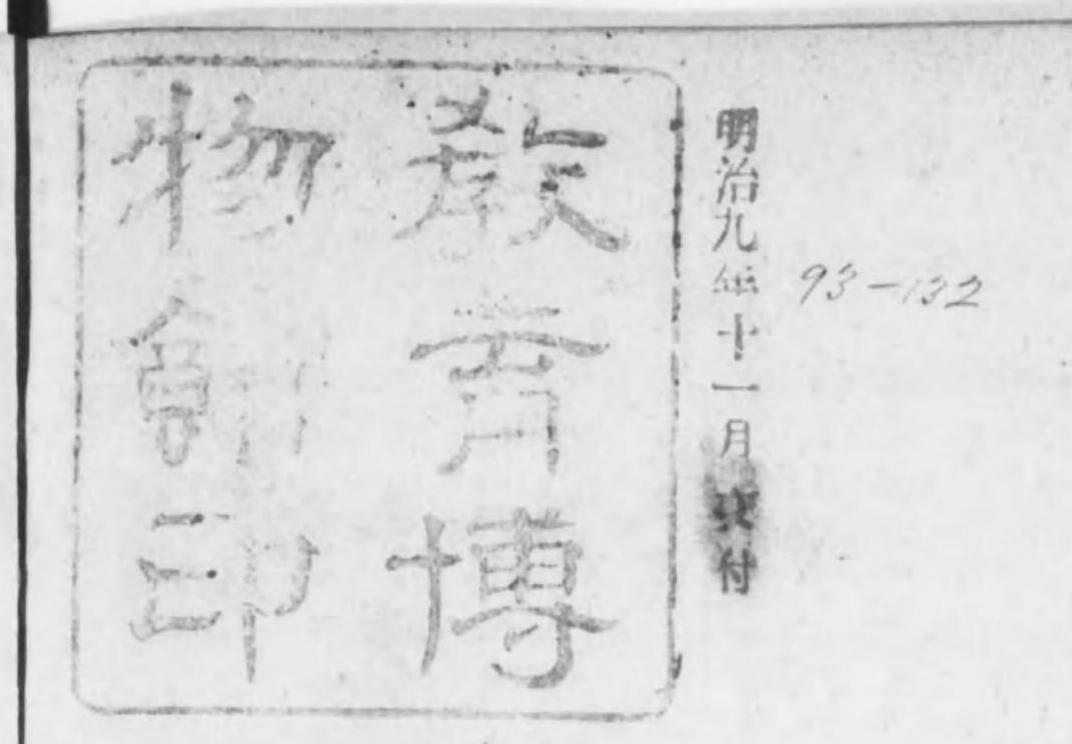


26



IMPERIAL GOVERNMENT TELEGRAPHS, JAPAN.

First Report of the Chief Commissioner for the period from the first projection of the Telegraphs to June 30th of the 8th year of Meiji (1875).

In compiling the present Report, as will be apparent, it is not, by any means, intended to detail a full and complete account, but simply to present a short and partial review of a few of the circumstances connected with the establishment of the Telegraph in Japan. This Report, therefore, being the first that has been issued by this Department, comprises, in addition to the more

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The first line of Telegraphs in Japan was projected in the month of September of the 2nd year of Meiji (1869). A short line, 840 yards in length, between the Lighthouse Department, Benten, Yokohama, and the Japanese Government Office (the "Saibansho") in Main Street, Yokohama, was erected and opened, for Government business only, in the same month.

At that time all Telegraph concerns, such as erecting lines, stations, &c. were under the control and management of the Ministry of the Interior ("Mimbusho"), and of Foreign affairs ("Guaimusho"), but in

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May of the 4th year of Meiji (1871) all business connected with the Telegraphs was transferred to the Ministry of Public works ("Kobusho"), and in September of the same year, just two years after the commencement and opening of the first line, the Telegraph Department was established as one of the Sections of the Kobusho.

It was also decided in October of the 2nd year of Meiji (1869) to establish a Telegraph line between the Custom House at Tskiji, Tokio, and the "Saibansho" at Yokohama. This line was opened to the public in the twelfth month of 2nd year of Meiji (January, 1870)."

In December of the 2nd year of Meiji (1869)it was resolved to erect a line between Kobé and Osaka, a distance of about 24 miles, which line was completed and opened for public traffic in the month of September of the 3rd year of Meiji (1870).

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^{*}To explain the apparent discrepancy in the two last mentioned dates, both 1869 and January 1870 being stated each as 2nd year of Meiji; it may be as well to mention that the Japanese Calender was not altered, in order to make it agree with the European Calender, until the latter end of 1872.

^{*} since abolished.

It was in the 3rd year of Meiji (July 1870) that the Government determined to extend a land line of one wire from Tokio to Nagasaki, about 870 English miles, with twenty intermediate Stations; but it was only in September 1871 that the necessary staff of Officers and Material arrived from Europe and the works could be proceeded with. Notwithstanding the mountainous nature of the country that had to be traversed, the thickly studded woodlands of bamboo &c, the numerous and extensive rivers; a single wire communication was opened as far as Kobé in the 5th year of Meiji (1872). Subsequently a second wire was commenced, and completed to Nagasaki, about the same time as the first wire, in February of the 6th year of Meiji (1873). The residents of the Districts through which the line passed, presumably not fully comprehending the object and purpose for which the poles and wires were set up, at first looked somewhat unfavorably on the erection of the Telegraph, especially where it became necessary to deviate from the road or pathway, and to set poles in the rice fields: it is

supposed that many of the interruptions of communication which occurred at that period were due to this cause; but, nevertheless, with this and numerous other drawbacks tending to lessen the value of the Telegraph as a speedy and sure means of intercourse for private and public purposes, the capacity of the single wire, then of the two wires, very soon became inadequate to meet the 二千+ 備 requirements of the rapidly increasing traffic; and to remedy this, the Government had to continue the extension works until at the end of the 7th year of Meiji (1874) three wires had been completed to Nagasaki: this third wire was commenced in October of the 6th year of Meiji (18 73). In erecting this line it was originally intended to set up an aerial wire across the Shimonoseki St_ raits, which connect the main Island of Nippon with the Island of Kiushiu, a breadth of 1118 yards, for the No 1 (first) wire, but proving unsuccessful after being twice attempted, two more cables were laid, one in October af 6th year of Meiji (1873) and the other in May of 7th year of Meiji (1874), in addition to

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About August of 5th year of Meiji (1872), Tskiji Office, ranking as a first class station, had six branch wires in the city of Tokio (the total length of wire being about 17 miles) connecting with the following Stations; viz: "Nihonbashi", "Riogoku", "Asakusa", "Hongo", "Yotszuya", and "Akabané" These Offices were successively opened to the public between the months of June and October of 5th year of Meiji (1872).

In the month of July of 5th year of Meiji (1872) an additional station was established at Koraibashi, Osaka, which was destroyed by fire in March of 6th year of Meiji (1873). A new one was rebuilt at a short distance from the former site in September of the same year.

In August of 5th year of Meiji 月 テ (1872) it was decided to erect a station at Kokura, situated between せ 六 決 増 コ 岡 至 Fukuoka and Shimonoseki Offices,

on the Nagasaki line. This station was opened for public traffic in October of 5th year of Meiji (1873).

In November of 4th year of Meiji (1871) the Government determined to erect a line of two wires from Tokio to Awomori, a distance of about 472 English miles, with seven intermediate stations; and also in July of the following year (1872) to extend the line from Awomori to Yezo, with a special wire between Fukuyama and Hakodate. These lines, however, were commenced at the same time in November of 5th year of Meiji, (1872). One (No. 1) wire leads into every Office on the line and extends as far as Otaru Station, 305 miles in a North Easterly direction from Fukushima, with five intermediate stations between Fukuyama (Matsumaye) and Otaru; whereas the second (No. 2) wire, being only divided at Sendai, gives direct communication to Yokohama, via Tskiji, (Tokio) on the South side, and to Awomori, on the North side: from thence it reaches to Imabetz Cable House (Nippon Id), which is connected by two cables across the Tsugar Straits with Fukushima

以局二百八六百ノ月 - 線二 七月七 I 二一 輕 ス臺チ 經 道 スー百 海以局除 コ以小テ設明東 線テ間コ道キ年 以青接テ山布月森 十此今テ置山七新ヒ 餘離ノ築各徃 島室局由東置年線 ココチ相折シ五チ 達經通 北 其 月 架

(Yezo), length of each cable being | 落 四八 乃 about 24 miles, and from thence by 成年百 land as far as Hakodate. This line was exactly two years in course of construction, being completed in October of 7th year of Meiji (1874).

In the month of May of 7th year of Meiji (1874), the distance bet- 驛 年七 尹 ween the Stations of Numadzu and 又 月四 テ too long for the purpose of correctly 局至年捷檢隔 Yokohama, 71 miles, being found testing and properly inspecting the line without great difficulty, a station was established at Odawara.

In September of 7th year of Meiji (1874) the Office at Kobé was removed to a spot near the railway 7 10 terminus at Ujikawa, thus placing | 12 it in a more central and convenient position for the public generally than when it was situated at the extremity of the Foreign Settlement.

During the same month a local station was established at Ohtzu, connecting with Kioto, and was opened for public traffic on 20th Janu- 接 町里 ス 月十 廿 ary of 8th year of Meiji (1875).

In October of 7th year of Meiji (1874) the erection of a line of one wire between Saga in Hizen and 人 ョ 賀月十 四七八一 十 同

サルカカの修理のカーカーの一手を選り、カーカーカーの一手を選り、カーカーの一手を選り、カーカーの一手を選り、カーカーの一手を表している。 原。百千故

Kumamoto in Higo, a distance of 59 留 9 局 佐 年十百千 月 年

miles 2 furlongs, via Kurume in | 開 年 一 而 年 ary in the following year. A new station was also erected at Kumamoto and opened for traffic on 20th March of 8th year of Meiji (1875).

In the month of November of 7th year of Meiji (1874) an extra wire (Osaka) a distance of about 28 miles.

In February of 8th year of Meiji (1875) the unfinished portion of the Awomori line (which extends from Asakusa station, Tokio, to the seaport of Imabetz in Tsugaru, via Awomori) between the towns of Oniyanagie and Ichinohé in Mutzu, was completed. Two new Offices have been erected on this line, one at Awomori and another at Morioka. The line was opened for general traffic on 25th March of 8th year Meiji (1875).

A No. 8 guage wire on new poles from the Koraibashi Office, Osaka, to Sakai in Idzumi, distance 7 miles, was commenced in May of 8th year

Chikugo, was commenced. This line 黨 三 局 ジ 一 ≠ 五十 ≠ was completed by the end of Janu- ス 月 チ テ 月 架 丁四 歴 二量館落設餘里テ 十 节 本 版 シ = 熊 日同 = ス八一本

was elected on the existing poles between Kioto and Koraibashi, (Osaka) a distance of about 28 中二, 京一四 月 同 年 十 七千 十 一 一

ハテサー落鬼月二同 ル青五局成柳 = 三 = 全 残 五八 ッエ年百 備 至 月 各

月五 五 . 橋百千

of Meiji (1875) and finished by the | シ 亦 following month.

In the month of April of 8th year of Meiji (1875) a deviation at Hakoné was commenced by erecting a new line of poles and three No. 8 guage wires from Odawara in Sagami to a point near Numadzu in Suruga, a distance of 22 miles, and connecting with the Nagasaki line, in place of the old portion of this line via Yagurasawa; as the new route traverses country of more suitable character, is shorter and is found in every way to be better adapted for the purpose, being more economical for future maintenance and advantageous in other respects than the previous ronte; which passed over extremely hillyand intractable country, thus, being exposed in many places to the full force and effect of bad weather, causing great risk of interruptions from contacts and other causes. This deviation was effected with all despatch by 7th June of 8th year of Meiji (1875) and in its results has proved most satisfactory.

In the month of January of 8th year of Meiji (1875) the rebuilding of the Office and godown at Naga-

コスス勝二矢三五千 六掛号ス線ルシ嶺 月 + 縮於條 + 以線 舊 得 之 患 路 路元き害加

saki was commenced on a new site in the Foreign Settlement, and was completed by 7th May of the same year.

A Telegraph wire being required by the "Kaitakushi" (Colonization Department) Branch Office at Shiba Tokio, to the Tskiji Station, a distance of about 1 mile 7 furlongs, and thence to connect with the Awomori line, one wire on new poles, for a distance of 240 yards from the "Kaitakushi" Office, was erected; thence connecting with Awomori by running an additional wire on the existing poles to Tskiji. This line was commenced on 9th 成 月 → 水 = 五七 五 June of 8th year of Meiji (1875) and completed on 22nd of same month.

In May of 8th year of Meiji (1875) the laying of four cables was commenced across the sands and 築數/ river at Baniu, a breadth of about 500 yards. The cables were laid by 20th June and have proved very successful

Repairs to portions of the Awomori line commenced in 7th year of Meiji (1874) and completed by the end of June in the following year.

In the month of May of 8th year

廿 青 ハ 二 餘 局 開 年 二森現町 = 拓六 日線柱ハ一至使月 同以テッ町築月七

日 九 四間丁入 五八 同 落 六 條 餘五 川 年百 年 七 二 沈 底 雕此 月十 月 リ 十 架 線 四距 馬 千一

成 四百 七 ス所内森 中千一

至道新省月五十八五同 ュ 工 五百月 八 ル局橋 of Meiji (1875) an extra wire that ノ = 鑖 リ 部 年七千一年

was found to be of little or no actual use, between the Kobusho and Shimbashi Railway Station, was connected from thence with the Tskiji Office by running an additional wire on the existing poles; to be used in future as a spare wire, and for the proposed time current arrangements.

About the end of April of 8th year of Meiji (1875) the rebuilding of the Office in Main Street, Yokohama, was commenced, and finished in the following June.

Between the months of March and May of 8th year of Meiji (187 5) the Railway line between Kobe and Osaka was strengthened by the addition of about 290 new poles and completely overhauled.

In the month of April of 8th year | * of Meiji (1875) the old Telegraph poles on the Railway between Kawasaki and Shinagawa removed and new ones set up.

During the period from lst January to 30th June of 8th year of Meiji (1875) various repairs, alterations &c, not enumerated above were effected ,as follows : -

スノ正架一築シ線 用午シ線地此チ = 報以 + 局 = 更

generally strengthened by double | A 字 stays and struts, wires bound in, defective joints and Insulators renewed, and otherwise put in a thoroughly sound condition.

Various repairs of a small nature フ チ 修 些 各 所 線 熊 vere effected on the Kumamoto line. カ 糖 ノ 々 コ 敏 本 were effected on the Kumamoto line.

The Tokio-Nagasaki line, 870 miles in length, divided into seven sections, various portions of which A 支 定 電 シ シ 上 東 overhauled and repaired; damaged 且 線 他 柱 ハ 各 里 京 and defective Insulators and Material made good; over 700 rotten poles replaced by new ones, and more than 1300 strengthened by stays and struts, thus placing this line in an advanced stage of general | 111 repair. Several Stations on this line have also been repaired.

Numerous portions of the Yezo line, extending from Fukuyama to Otaru, a distance of 291 miles, put in thorough repair.

The Tokio street lines have also been generally repaired and overhauled.

The Office at Riyogoku-bashi removed from its original site on the water's edge to some distance from the riverside on account of the rebuilding of the bridge.

築 遠 町一 里百 コ リ 福 ス 近 三十 至 小 山 門 十九 ル 樽 ョ

ス築修少多線下府京東

A station at Kurumé on the ス 業 タ ッ チ 一 米 久

TARIFF.

The original tariff decided upon when the Telegraph line between Tokio and Yokohama was opened to the public in the month of January of 2nd year of Meiji (1870) was, as follows.

For 1 Japanese Character, One Fun (Sen 4).

" 20 European words or fraction of twenty words One Boo (Sen 25). " every additional 10 words or frac-

tion of 10 words .. One Boo (Sen 25).

and a moderate scale of messengers' fees was charged in accordance with the distance to be performed in delivering the message.

As the Stations on the Nagasaki line were being consecutively opened to the public, a local tariff was fixed on a sliding scale for all Stations on the line in May of 5th year of Meiji (1872), as follows :-

り百千り逐

EUROPEAN MESSAGES.

Between any of the Stations in Tokio. For 20 words or less Sen 15. " every additional 10 words or fraction thereof , 7.5. Between Tokio and Yokohama. For 20 words or less ,, 25. " every additional 10 words From any Station on the Tokio-Nagasaki line to the next Station on either side. For 20 words or less ,, 25. " every additional 10 words or fraction thereof ,, 12.5. To each Station beyond. For 20 words or less, 10 Sen " every additional 10 words or fraction thereof ,, 17.5. (Except either to Shimonoseki, Fukuoka, or Kokura, 5 sen extra only, for each, to be added.) From Tokio to Kobé. For 20 words or less Yen 1.15. ,, every additional 10 words or fraction thereof Sen 57.5. From Tokio to Nagasaki. For 20 words or less Yens 2.05. " every additional 10 words or fraction thereof....... ,, 1.02.5. Addresses counted and charged for as part of the message.

廿 或 テリ + 拾 ス厘七ヶ前拾以廿戸京 京 五 一 第五 十 多 鏡 宝 す リ 長りョ京東

JAPANESE MESSAGES.

Between any of the Stations	
in Tokio,	
For 20 characters or less Sen 05.	
or fraction thereof ,, 02-	5.
Between Tokio and Yokohama,	
For 20 characters or less ,, 07.	
or fraction thereof, 03	5.
From any Station on the	
Tokio-Nagasaki line to the	
next Station on either side,	
For 20 characters or less , 07.	
" every additional 10 characters	
or fraction thereof ,, 03	5.
To each Station beyond,	
For 20 characters or less 2 Sen	
extra, or, Sen 09 ,, every additional 10 characters	
or fraction thereof	ō.
Fukuoka, or Kokura, 1 Sen extra only, for each, to be added).	
From Tokio to Kobé,	
For 20 characters or less ,, 25	
" every additional 10 characters	
or fraction thereof, 12	5.

Py	七サルト	銀五 数 スルト課 目 数チ増ス	1 元 届賃 チ課 発	近二應シ	所 地方ノ遠	セ 此外配達
課ス	五厘チ	前同乡	七錢	或《以下	ハ二拾字	東京コリ
ス	銭五厘チ課	七銭	十字或《以下	接ノ局へハニ	経言局ョリ郷	東京以西長崎
下九錢	或二以	二十字	銭き増	毎二二	局以外	理り降

In Murch of the same year a tarif for messages on the Yezo line between Matsumaye and Otaru, was 森 リ 月一 四 七八 月 年 阿 allol to the existing table. 線青 ョ 年十百千一 七

(17)									
From Tokio to Nagasaki. For 20 characters or less Sen 43. " every additional 10 characters or fraction thereof " 21.5.	増ス	一錢尹	三局、	福岡ノ	間小倉	但》赤	チ課ス	四錢五厘	前同シック	
delivery radius, according to the	チ課ス	錢五厘	ク拾二	前同シ	贰拾五錢	或公以下	八二拾字	神口マラ	東京コリ	
distance to be performed in deliver- ing the message. The above charges however were found to be insufficient, and the scale was again altered in November of	チ調ス	錢五厘	ク廿党	前回シ	拾三錢	八以下四	八十字或	長崎マテ	東京ロリ	
6th year of Meiji (1873) raising the	ス	下	元 条	馬ハ	等 名	1 姓	所	宿业	但	
charge for transmitting an European message of 20 words or less, From Tokio to Kobe, to Yeas 1-50. """ """ """ """ """ """ """	アリ	サルト	トがなせ	がスル	届賃チ	意	ノ遠近	達地方	此外配	
intermediate Stations. In the month of January of 7th year of Meiji (1874), as the Awomori line was in an advanced state of completion, and the Stations were being gradually opened for	セシフなり刻を	1	ノ音信比・増加	>横文十語マテ	1)	月三年十一月十十八百七十	テ六年十	夕其當子得サル	然ルニ此稅目未	
public traffic, a tariff of charges was fixed for messages between Tokio	9	N. III	T F W	・長崎	同所ョ	五拾錢	テラリ・	神コマ	東京	
and Matsumaye. In March of the same year a tariff for messages on the Yezo line,	7				之二				他人	
between Matsumaye and Otaru, was	1	10 kg))	1-	四.	七八	月	年	: 同	

The terminal charge for Inter- 目 ノ前京 業局 = national messages, of not more than twenty words, destined for Foreign ム 税 レ 根 東 ク 開 各 Countries, received for transmission at any Station between Tokio and Nagasaki, and for all Stations South 均 of Tokio, was fixed at Mex: \$ 2.00. 加 When the Northern line between Tokio and Otaru was completed in October of 7th year of Meiji (1874) and the Stations successively opened, the terminal charge for an 合定则 International message, of not more than twenty words, for all Stations North of Tokio was fixed at Mex: S 4.00. Dividing the Empire into two sections, taking Tokio as the Centre, for an International message of twenty words or less handed in for tranmission North of Tokio, a terminal charge of mex: \$ 2.00 is charged; which, in addition to the Mex: \$ 2.00 charged for the same South of Tokio, makes a total terminal charged of Mex: \$ 4.00.

The scale of charges for International messages, destined for places beyond the Empire, is not stated here; as, until the Official opening of the Government lines, these char地方何局二來臻

ges are collected by the Great Northern Telegraph Company.

With regard to Multiple messages, it has been decided to admit them under the following conditions; viz: A message may be addressed to several persons in the same place for a charge of 25 cents per copy for than twenty words including addresses, and for a Japanese message of not more than twenty characters exclusive of addresses, in addition to the ordinary charge for the transmission of a single message: in both cases messenger's fee charged for each copy according to the distance to be performed in delivering the same."

A complete tariff of the rates charged for both Japanese and Foreign messages, comprising all the public message Offices open in Japan on 20th March of 8th year of Meiji (1875) is given in Appendix E.

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^{*} These rates have since been revised.

Expenditure.

The sum allotted in the Budget for Telegraph expenditure for the period from November of 4th year of Meiji (1871) to December of 6th year of Meiji (1873) was Yens 1,069, 230; this was probably the first oceasion on which a sum was set apart specially for the Telegraphs.

The sum of Yens 487,637 was the amount calculated for the general expenditure during 7th year of Meiji (1874), but the amount actually expended was considerably in excess of this figure, viz: Yens 555, 633. This, however, included an expense of about Yens 100,000 for eables at Tsugar Straits, which was not provided for in the original enleulated expenditure for the year.

The amount allotted for Telegraphs for the six months ended 30th
June of 8th year of Meiji (1875) was
Yeas 411, 453, but hardly two thirds
of this sum was required or expended.

For comparative Table of the eatire outlay on account of Telegraphs, from the time they were first projected to 30th June of 8th year of Meiji (1875), see Appendix A.

問計額定

TRAFFIC AND RECEIPTS.

In the 4th year of Meiji (1871) four Stations were open; viz: Tokio and Yokohama, Osaka and Kobé. During the year 17.435 Japanese messages, and 2,013 Foreign messages were transmitted. The amount of Receipts was Yens 2,869. There were some small Receipts previous to the above-mentioned, but, owing to the burning of the Ministry of Public Works early in 5th year of Meiji (1872) by which most of the records were destroyed, it is impossible to specify them.

In 5th year of Meiji (1872) the line being open to Kobé and the intermediate Stations, there were 72,397 Japanese, and 8,242 Foreign messages transmitted. The receipts amounted to Yens 10,255.

During the 6th year of Meiji (18 73) the line to Nagasaki and all intermediate Stations was opened. The number of messages transmitted in the year was Japanese, 167,132; and Foreign, 19,316; of which 559 were International. The amount of receipts was Yens 50,778.

金稅收及數信音

東京橫濱及大坂神戸ノ四局開業ノ後明治四年一千八百三十五通横文ハ武千拾三通此敗稅總計武千八百六拾九圓ナリ是レヨリ牧稅總計武千八百六十九年以來、若于ノ收稅ア大等。一十五年五十九年以來、若于ノ收稅ア大時十五五十十二年配融ノ災延ニ信數稅額復々考ュ可カラス

In 7th year of Meiji (1874) a small portion of the Northern line to Yezo was opened for traffic. The total traffic for the year was as follows; messages transmitted, 328, 高 693 Japanese, and 27,846 Foreign; of which 5, 267 were International. 五 五 560.

During the six months from 1st January to 30th June of 8th year of Meiji (1875), no new lines of any particular importance having been opened in the period, there were 19 3,434 Japanese, and 12,972 Foreign messages transmitted. The amount of receipts was Yens 70,837.

For comparative Table of amount of receipts and extent of traffic each year to 30th June of 8th year of Meiji (1876)see Appendices A and C.

Working of the Lines &c.

The Telegraph lines are worked conjointly by Europeans and Japanese. The latter act, under Foreign superintendence, as Operators. Clerks, Engineers, Inspectors, and Linemen.

9 圓十百萬計稅

同八年一月一千八百七 ヨリ同六年一月十五年一月 カリョーの の一月六月卅日ニ至ル が四通横文ハー萬二千 を中 の一月十五年一月 の一月十五年一月 の一月十五年一月 の一月十五年一月 の一月十五年一月 の一月十五年一月 の一月十五年一月

法置設機電

The apparatus used for working the lines are the Morse Printer, the Breguet Alphabetical, and the Single Needle Instrument, with Batteries known by the title of "Ordinary Sulphate". The Morse Instrument is generally applied to long and important lines such as that from Tokio to Nagasaki. By the aid of these Instruments, prepared with special connections for translation, direct communication between Tokio and Nagasaki is at present maintained in moderately good weather.

The Breguet Instrument is chiefly used for local purposes; between the Government Departmental Offices, and on short circuits. They work fairly well and are very easily learnt.

The single Needle Instrument is exclusively used on the Railway lines.

Apparatus for "Duplex" working, and also for reading by "Sound," is now in course of preparation; the object of the Government being of course to obtain the fullest use and benefit from the existing wires before incurring the expense of setting ** 大力 ** 大力

サル用之限線鐵機單り者ユサリコ道の鐵機

up additional ones; and it is by the use of the "Duplex" or double working system that this result is to be attained.

By the application of "Sounders", instead of the Morse Printer, a reduction in the cost of Apparatus and simplicity in the manipulating process will be secured.

The line wire principally employed is that known as "No. 8. B. W. G.", which is purchased in Europe. The very best quality obtainable is absolutely necessary in this country owing to the difficulty of Maintenance: the Government as a rule have been very successful in this respect.

Insulators of Porcelain and Stoneware were also formerly purchased in Europe, but, as their quality was not on the whole sufficiently good, and such a large quantity being required for the extensive lines in this country, the Government made an effort to obtain a suitable Insulator locally, and the result has been eminently successful. It consists of a highly vitrified white clay, found in the neighbourhood of Nagasaki, and of the shape known as "Invert".

	ス	ラント	一端ナ	省ツノ	冗費チ	得八亦	神盆サ	施シ共
	トス	亦易ヤナリ	技コ於テモ	稍減シ其操	小费	代	越	聴響機チ以
	効職を得ルコ亦多シ	用ュルチ以テ現コ其	故二必ス其最上品チ	法ハ容易ナラサルカ	購求ス元來守成ノ方	テ之チ歐	號ノ第八沓線サ用ユ	通常線路二八BWG
	2/	ż	=	世	L	抑	世	胸
	7	*	胨	*	テ	ŧ	*	製
	光	製	v	A	75	碍	=	1
	澤	Ш	9	n	4	子	却	碍
	共	ス	此	=	我	11	テ	子
	形	共	111	純	或	線	精	æ
	"	質	24		人	路	良	亦
	無	41	長	精	+	樞	適	9
1	鈕	白	崎	辘	=/	要	用	歐
1	籦	哲	近	12	テ	1	,	州
	,	11	傍	20, 27	2	者	17	11
-	如	*	=	==	+	3	=	1)
-	*	テ	於	舶	胸	n	非	舶
1		m	5	皷	造	*	7.	级

In the most perfect state each Insulator offers a resistance of upwards of two million Megohms. The Government, fully aware of the importance of perfect insulation, has established a testing room at the Store Department at Shiodomé, Tokio, and placed it under the charge of an experienced Electrician.

The Apparatus employed for the testing is a Thomson's Reflecting Galvanometer, with the necessary resistance coils, and a Battery formed of 200 Daniell cells.

The minimum resistance for an Inslator is fixed at 40,000 Mego-hms, and such is the purity and perfection of the Material used in their manufacture, that, not more than about seven per cent have to be rejected as defective.

Until the end of the 7th year of Meiji (1874) it had been the custom to obtain a large proportion of all other descriptions of Telegraphic Apparatus and Material from Europe; but this practice is being gradually discontinued, and it is expected that, in a short while hence, all such Apparatus and Material, excepting only the line wire, will be

ż		寫	ナナ	. 步首	5 ≡	者	碍
+	設	x	量故	官言	1 1	11	子
掌	置	潮	9 =	7	才	-	抗
7	*	留言	直 道	: 1	1 4	贷	排
V	電	解	否抗	-	A	=	カ
A	氣	舍	チ扱		5 A-	- =/	,
	師	= }	零力	r CI	ハミ	7	孕
	7	試	")	+	即》	. =	老
	4	驗:	13	:	4.3	百	44
	7	室:	力寫	有	百	蔥	n
						.1-0	
ス	簡	74	度	新	作		27
	1	格	1	針	n	1-	烏
	電	圓	含	也	所	A	用
	池	加	深	Z	2	7	1
	箇ノ電池チ附	及榕圓瓶二百	度ノ含氣螺線	針也之二適	作ル所ノ流電	ムツン氏	試験用ノ機械
	113	н	1600	Tiel	H	T	DK
-	-	350	75		-		711
1	全	皆純良精密ナレ	百分ノ七コシテ餘ハ	址	定ム故コ陶質チ擇	也加	得子ノ抗抵力ハ
スコ足ル	備	夏	"	粗	故	萬	3
n	全備セ	精	七	其粗悪ナル者僅	=	四萬ミグオー	抗
	ル良品	密	=	ナ	陶	30	抵
	具品	7	7	ルボ	M	*	71
	1	11	餘	借	樓	4	112
	+	U	25	=	7	1	"
製	物	線	燙	治	1)	13	電
機	物品	線サ除クノ	透頗ル之チ减シ	治七年	購	品等多 ツハ	線
科	1	除	N.	年	录	多	用器
製機科チ置キ之	類八寮	"	Z	七十十		"	Air Lis
丰	奴	AL	力	וען :	[n	回	械及上
+	内	外器	2/	42	-	歐州	汉

either manufactured at the Govern- | > ment Works or obtained from Na-tive Contractors The attempt to produce a good quality of line wire カラン は ラーニー シー は ラーニー は フール は コール は コ has, up to the present time, been 得リメニモシ命或 unsuccessful. unsuccessful.

EDUCATION OF NATIVE OPERATORS.

of the Telegraphs the Government selected 4 pupils to receive instruction from an English Telegraphist, in the manipulation of the Breguet Instrument, which was in use at the Stations then opened; and shortly afterwards a few more students were engaged for the Telegraph service.

In the month of November of 4th year of Meiji (1871) - in the meantime the management of all business connected with the Telegraphs having been deputed to the Bureau of Public Works-Morse printing Instruments arrived from Europe and their manipulation was studied by 59 pupils.

Towards the end of 5th year of Meiji (1872) the total number of 1 世 面

At the time of the first projection = チ ム 字 チ ン 通 電

Breguet Alphabetical, Morse Print- ス 架 ッ = 業 者 テメ ing, and Single Needle Instru- ル 設 而 當 ス 百 ハ 六 ments was 98 pupils, and in the フノッッル拾谷年 month of August of the following 最央テ長者一局八 year, the number of pupils having = = 青 崎 二 名 = 月 gradually increased, there were 111 急 際 森 線 十 學 在七一 mployed as Operators and Clerks ナ シ 線 ノ 九 校 テ十千 at the Stations and 29 at the school り 技 モ 功 名 = 執三八 in the Kobusho. This was owing 員亦既是在業年百 to the Nagasaki line having been | チ既 = ノテスコ completed and the advanced stage of erection the Awomori line had reached, on both of which lines Operators were greatly needed.

In August of 6th year of Meiji (1873) a new school was established at Shodomé, Tokio, when a Notification was issued to the effect, that, 200 students between the ages of 15 and 25, at liberty to enter the school from August, would be engaged by the Government for a term of five years. (The service of those Students who had acquired some experience, previous to the establishment of the Shiodomé school, was for a term of only four years more from the month of August). All of these students were divided into three classes, the remuneration being different to each class.

those studying the working of the | 要 ⇒ 竣 時 肄 ル 至 シ

ナ生 等是 同

The number of pupils already , + 以级技 + obtained being still insufficient for 給 下三生增年而来 the requirements of the service, another notification was issued in October of 7th year of Meiji (1874) for the engagement of 250 more Students, on same terms as stated in the previous one, who now received an Official appellation of "Shoogise" (Student signallers). These were divided into Senior and Junior classes, each being again subdivided into three classes; the salary of students in the three senior classes being Yens 8, 9, and 10; and in the three junior classes Yens 4, 5, and 6 per month, respectively.

The desired results were now attained; not only in the having procured the full complement of pupils requisite, who wished to enter the service, but also in the completion of the details of the Rules and Regulations governing them; and by the greater progress made in the number of those who acquired a practical knowledge of the manipulation of the Instruments, thus producing a sufficient reserve of students capable of fulfiling the duties of Operators when required.

圓小級發二 以月二》百渝多 下俸分名五 四拾ササ十 圆圆每修名同雖 八 餘 チ 地内 年名徵 = 逐多五生 コリ拾徒 局麗

In October of 6th year of Meiji | セ 併 校 テ・ 廃 之 (1873) a school was also established at Osaka, as a branch of the Shiodomé School. and about fifty pupils were enrolled with the school at Shiodomé.

The Japanese thus engaged by the rators, have to go through a course of study in the manipulation of the before-mentioned Instruments and in the English and French languages. General examinations take place each year at regular intervals, in order to test the degree of proficiency attained by the Students; and those who have made the most progress, if of the senior class, and are found competent to undertake the duties required of them, are sent, as occasions present themselves, to the Stations where their services may be needed; and, if of the junior classes, are promoted to a senior class.

The Instruments employed for instructing the senior students are obtained from abroad, but those for the junior classes are manufactured | 得 + 籍 鑰 口 內 初 子

were engaged; but it was abolished テムチ最年二機循 in February of 8th year of Meiji (1 之 ~ 進 優 數 科 チ ハ 875) and the teachers and pupils + + A 劣 同 + 以 印 舉ハ局分業テシ指 Government to act as Telegraph Ope- ス 其 = チ カ タ 字 優 赴 以 考 而 就を級殿領ノ三 ナラチ 共 國 學 歐 學 甚 > 揚 ハ 機 習 操能ル字某用 技ッコ機 コ機電コ製供ルノ チ動チ電所ハモ概

by a Japanese Mechanician in To- | 7 異洋妙機 ラ機 叉 タ kio, which exactly resemble the | ナナ製 殆 巧 シ チ 態 リ construction of a "Morse Printer" | * ル コ ト 精 ム 造 響後 construction of a "Morse Printer" and work in good order, but are used only for purposes of instruction カーテ校 型 unconnected with Batteries. Of late ン科 將中 ンチ 当 第 中 ンチ 当 第 中 ンチ サ カー ス 別 此 於 チ ガ 投 tured, and are found to be as delicate and accurate in construction as Foreign made Instruments.

It is intended shortly to establish another school at Shiodomé for training Japanese in the various branches of Telegraph Engineering, in addition to their being instructed in the English language.

Besides the lines and stations that have been erected and which are enumerated in this Report and in Appendix D, various wires have been set up from time to time between Government Offices and Telegraph Stations; viz:

Between Tskiji Station and the Imperial Palace (Tokio).

Daijokuan (Council of State). Guaimusho (Foreign Office). Kobusho..... (Bureau of Public Works). Kaitakushi (Colonization Department). Shiodomé Telegraph Store Department,

電線 り局築東 ョ 地 京 廳拓 部 3 橋日東 り局本京 警 廳警

六視

between Nihonbashi Station and the Okurasho (Finance Department). Central Police Station and its six principal BranchOffices in Tokio.

and between Kawaguchi Station (Osaka) and the Imperial Mint, Osaka.

saka, upon the same poles as the 中 / / 故 = ed from Appendix D, as well as, 戴 數 + 乙 架 together with the private Govern- セモ省號セ是 ment wires, from Appendix B.

On reference to Appendix A it will be seen that the Expenditure shows but a moderate increase annually, keeping in view the advanced 盆 ナノ流 明 stage the erection of the Telegraph lines has reached, and which may 効 v 年 チ reasonably be expected in a short while hence to be largely diminished; whereas the amount of receipts presents a large increase over that of each preceding year, and will indubitably, in the ordinary course of events, when the Telegraph comes into still more general use than at present, show a result even far more favorable than hitherto.

That the extension of commerce

In addition to the above there 號 如 中 + 線 電 及 線 are the Railway wires between To- 附ッ官ル電線大路 kio and Yokohama, Kobe and O- 線 此 線 カ 柱 ア 坂 ノ public wires, which are also exclud- = 里 部 = 兼 此 万 東 スがク附シレ

其 セ 稅 類 判 ノ見前省 ス此モス

ハ = 擴利質 = 月 = 隆

ry will, in the course of time, at no 亦 若 後 ス = 則 國 通 線 very distant date, enable the Tele- 疑于年ル前チョ八モ graphs of Japan to produce a reve- フノ守ノ年後周達亦 nue sufficient to pay interest on the Capital expended, and to provide for the cost of future Maintenance, there is not the slightest reason to doubt.

The great increase of traffic, and thereby increased receipts, steadily reaching a higher figure each successive year, particularly noticeable in 熠 至 # ル 見 文 the great increase in the number of 照 ラ 熟 電 レ 音 Japanese messages transmitted, is スッ知信か necessarily a source of satisfaction; | > 7 and can be taken as a criterion of 如 尹 盆 鴻 the growing favor and appreciated ntility of the Telegraph among the native population.

It affords me much pleasure to be able to state, that, the Report for the succeding year to 30th June of 9th year of Meiji (1876), of new lines constructed, repair, deviation, and other works executed, will be 夷 = 備 告 + 日年 much more complete and extensive 少我ルコ編六 than the present one, taking into + 國 + 以 纂 account the period of twelve months メノ見モス至

and the local resources of the count- | 7 且 ラ 完 啻 ハ 全 四 電 ~ 歳成 ミノ日 至 総 タ カ入ノナ費ノス積% ラチ用ラス役へ連テ ス占ニス所ルシ豆増 A 充 並 + 所 然 邃 殖 ルテセ償ロラニジ

> → 企 々 益 闔 望其鉅國 ル大ア民ル中ト

クルノ報項十六六修 in proportion to the length of time 以地ル更ルル 八一り over which the present Report ex- | テ 勢 へ = 片 工 百千 來 tends; which is a matter to be | ト 幸 至 奏 contemplated with some gratification by the Government, bearing in mind the great obstacles, at times the apparently almost insuperable difficulties that have to be overcome, in the rugged nature of the country which has occasionally to be traversed, as the projection of the lines is proceeded with.

> A. K. Yoshikawa Chief Commissioner

Kobusho, Tokio. June 30th of 8th year of Meiji (1875).

ス亦ハル業路ア架 の國ノ全建り線 勘 家 日 功 築 故 艱 シノコチ等コ難

APPENDIX

JUNE 1875. COMPARATIVE TABLE OF EXPENDITURE AND ECEIPTS SINCE THE YEAR 1870 TO 30th JUNE 187 RECEIPTS

Year.	Expenditure. Yens.	Annual Increase. Yens.	Receipts. Yens.	Annual Increase. Yens.
1870	‡ 33,141		*	
1871	77,150	44,009	2,869	
1872	827,073	249,923	10,255	7,386
1873	532,996	205,923	50,778	40,523
1874	555,633	22,637	114,560	63.782
30th June 1875	235,647	+ about 15%	70,837	\$ 23.%

Total Expenditure 1,761,640 Total Receipts to 249,299 to 30th June 1875. 1,761,640 30th June 1875, 349,299

n of documents by fire.

for half year only { **

or half year only { **

the actual Expenditure

evious year as a basis) † Including from September 1869.

* Amount unknown through destruction o

† Proportionate decrease of Expenditure for

§ Proportionate increase of Receipts for I

Estimated by taking half the and Receipts for the previou

APPENDI

COMPARATIVE TABLE OF EXPENDITURE AND RECEIPTS SINCE THE YEAR 1870 TO 30th JUNE 1875.

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Including from September 1869.

* Amount unknown through destruction of
† Proportionate decrease of Expenditure for
§ Proportionate increase of Receipts for h
§ Estimated by taking half the a
Estimated by taking half the a
of Comparison.

14.	費 用 高	同上增加高	收稅高	同上增加高
++叮子八百七十年一明 治 三 年一	四十一圓三百三百三百		*	
一千八百七十一年明 治 四 年	五十四七百万萬七千百	四萬四千九	十九国二十八百六	
一千八百七十二年明 治 五 年	と十三回三三十二萬七十	九百廿三圓二十四萬九千	五十五圓三萬二百	十六国七十三百二
一千八百七十三年明 治 法 大 华	九百九十六國五十三萬二千	九百廿三回二十萬五千	と十八回五茂七石	四声声声
一千八百七十四年即 治 治 七 年	大百三十三圓五十五萬五千	三十七回二三萬二十六百	百六十四十一萬四千五	百八十二四六萬三千七
这一千八百七十五年明治八年一月 =六月	11十三萬五十	- 盗割五分	三十と回	om 11 編 111 #
	大萬千六百隻用金高總	四十回言一百七十	九千二百九股 卷 卷 卷 卷	十九回司法
4 半 当 品 鲁	3 大 2 高 八 川	知 11 进 (1件	九年) 八月以小八百以	张 * 合 算 :
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Appendix B.

THE OF STATIONS COMMENCEMENT OF & NUMBER TELEGRAPHS TO 30th JUNE 1875. FROM THE WIRES YEAR OF MILEAGE OPENED FOR PUBLIC TRAFFIC EACH OF TABLE COMPARATIVE

fear.		Total length at end of	igth of w	rires	open r.		T	Total length	of th ye	wires opened	peu		Number of Stations	Number of Stations
	Miles.	Furiongs	Yards.	r1	cho	ken	Miles.	Furlongs	Yards.	ri	cho	ken	open at end of	opened
1870	63	3	132	26	4	24	63	3	132	26	4	24	4	4
1871	-	1	1	1	1	1		1	1	1	1	1		1
1872	83	2	193	34	11	53	19	1	61	00	1	2	18	14
1873	2,669	တ	182	1,099	0	53	* 2,586	0	209	1,064	25	0	28	10
1874	3,239	1	7.9	1,333	19	55	569	5	117	234	19	26	41	13
th June. 1875.	4,282	1-	108	1,763	6	38	‡ 1,043	9	59	429	25	43	45	4

- 28. (cho yards, 51 furlongs, Shimonoseki Straits Cables: 1 mile, the Including
- and the 22.); 1 28.). K Yos, Commi (cho 16. ken 20, cho 1, ken Including the Baniu River Cables, 1 mile and 184 yards. Tsugar Straits Cables; 48 miles, 5 furlongs, 94 yards (ri

器 多 海 類 線 錢 4 發 河 Chief 長 政 回 蝦 救 出 五八 ++ 年百 會 継 Z 米 沿 用 年 < * H 4 田 田 錢 延 续 運 長 年 1 缝 俊 迎 中 長 III 年 田 田 巨 レムラ ンタロケテー 匠 数 4 + 4 區 数 田 田 EE . 1年 日子 十二十 日子 十二十 年一中 十 1: 十五 中四六十三 包 巴 中北 中国大十三 回 11] 国 一千八百七十二年四 十一時 治 五 年 三 十 十 回近十 甘北 八十三 + K 八 4 五 长+1 + x 4 + 一千八百七十三年十九明 治 六 年一十九 八十四十五 サルバデナが百 旧八十 # 二百九 九五十五百卅七三千五 四 七十九 北 4 = Ŧ 百十七十十 三十八八十二百 4 国十川 共中国十 五四 + 九 旦 4 H * = 旦 馬 赤 孝 说 41 鱪 屈 缝 便 X 出十 一点 + 布 噩 田 其 1 ル百八 国マ 出 総 馬人 噩 水 拾 = * + 典 臣 及 村 東 参 沈底 ++ 九十四郎十八郎 上土正 缝 + レガロング 田 + 三 田 K # 1

APPENDI

311

TRAFFIC SINCE COMPARATIVE TABLE OF EXTENT OF THE OPENING OF THE FIRST 30th JUNE 1875.

	Number of Mossa	umber of Messages transmitted.	m.41	Annual	Annual Increase.
Year.	* Foreign.	Japanese.	each year.	Foreign.	Japanese.
1870	++				
1871	2,013	17,435	19,448		
1872	8,249	72,397	80,639	6,529	54,962
1873	19,316	167,132	186,448	11,074	94,735
1874	27,846	328,693	356,539	8,530	196,191
30th June 1875.	12,972	193,434	206,406	+ about 14.33%	4.33%

* +++-

Including International.

Extent not known through destructive Proportionate increase of total traffic taking half the total traffic for the pr

	田田	沿	111	母:	1 4	年八十	四区	数	匠	K	世.	十十一十	五八五	十二	(III	111	+	ш	11	HH	7			
		#		1	-			-		_			年					卅	4		#	和数		文
一十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二	元光	III LL	十年		++																			
一一一	江市	司	L 1 3	1	11 1	+ +	- 11]	DIT.	I A	图	+ 1	117	一一回	日子十九十	八千	回								
一一一一一	八部四	上五	-1]於	+ 1	1-11	1四	1	1 1	エルは	11	か	nl	八十十	門よ	MI	11]	45 4	- 11	MI =	工工	六五	村一村 村田	1 1	九
哥	7. 是	1	47		超.	九十	11]	山土	- 45	超	41	-	四十四四十四四十四四十四四十四四十四日十四日十四日十四日十四日十四日十四日十四日	一種	大十	八千	1+	超回	+	4	百九	111	+ 1	14.
3	于八五治	2	14	111	檀.	です	K	II 11	北十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二	1総	<十-	5	四十四日	五萬	ナンド	开	KH	出一	四1	11+	一年	ナナ	本意	1
明治	十八年	四四	-4	R 1	超 1	14	北石	+ 1	百九	極	111 1	-1		- 超	*	+	+	- 12	5	河	華	回	京.	
	7	到	11	1	使	文	细	垂	7	H	加		K											
++	出	11	12	載	K	<	+	嶽	1	×	×	1	館	N	抽	黨	缩	失	11	K	1	和	7	1
	al.	7		題	1	総	重	河	T	Z	Th	福	年	1	+	五	K	7	11	#	幸	職	加	4

Appendix D.

TABLE SHOWING ALL THE TELEGRAPH LINES OPEN FOR PUBLIC TRAFFIC, AND THEIR MILEAGE, WITH THE STATIONS ESTABLISHED ON EACH, UP TO 30th JUNE 1375.

N	Entonding whent	Number of	Name of Stations.		Leng	gth of	each li	ie.	
Name of line.	Extending whereto.	Stations established.	Tame of Stations.	Miles	Fur- longs	Yards	Ri	cho	ken
okio Street Lines.	In streets of Tokio: in / circuit with each Office.	7.	Tskiji, Nihonbashi, Riogoku, Asakusa, Hongo, Yotszuya, Akabanè.	17.	4.	75.	7.	8.	0
	From Tskiji Office.	1.	Yokohama.	19.	4.	141.	8.	2.	1:
Nihonbashi (Tokio))	From Nihonbashi Offi-) ce to Yokohama Office.)		(direct communication.)	20.	6.	104.	8.	20,	2-
Nagasaki.	From Tskiji (Tokio) to Yokohama and thence via Kioto and Osaka to Nagasaki.	21.	Odawara, Numadzu, Shidzuoka. Toyohashi, Nagoya, Gifu, Hikoné Ohtzu, Kioto, Koraibashi (Osaka) Kobé, Himegi, Okayama, Onomichi, Hiroshima, Yamaguchi, Shimonoseki, Kokura, Fukuoka, Saga, Nagasaki.	*68.	3.	102.	357	19.	5
Koraibashi (Osaka)) and Kobé.	From Koraibashi Office) to Kobé Office.		(direct communication.)	26.	5.	46.	10.	35.	0
Kawaguchi (Osaka) ;	From Kawaguchi Office) to Kobé Office.	1.	Kawaguchi (direct communication.)	24.	2.	70.	10.	00.	0
	From Koraibashi Office) to Kawaguchi Office.	-	(direct communication.)	2.	2.	206,		35.	6.0
Kioto and Korai- }	From Kioto Office to Koraibashi Office.	-	(direct communication.)	27.	4.	50.	11.	12.	0
Ohtzu.	From Ohtzu to Kioto and in circuit with all offices on the Nagasaki line.		(direct communication.)	8.	4.	2.	3.	18.	0
Kumamoto.	From Saga in Hizen via) Kurumé to Kumamoto.	1,	‡ Kumamoto.	59.	2.	125.	24.	15.	15
Awomori.	From Asakusa (Tokio) via Awomori to Imabetz.	7.	Wutzunomiya, Shirakawa, Fuku- shima, Sendai, Ichinoseki, Morioka, Awomori	510.	4.	102.	210-	7.	0
Tsugar Cable.	Erom Imabetz harbour ; to Fukushima gulf.		(direct communication.) (Two Cable houses.)	24.	2.	157.	10.	00:	4

Tskiji (Tokio) and) Yokohama.	From Tskiji Office } to Yokohama Office.	1.	Yokohama.	19.	4.	141.	8.	2.	12.
Nihonbashi (Tokio))	From Nihonbashi Offi-) ce to Yokohama Office.		(direct communication.)	20.	6.	104.	8.	20.	24.
Nagasaki.	From Tskiji (Tokio) to Yokohama and thence via Kioto and Osaka to Nagasaki.	21.	Odawara, Numadzu, Shidzuoka. Toyohashi, Nagoya, Gifu, Hikoné Ohtzu, Kioto, Koraibashi (Osaka) Kobé, Himegi, Okayama, Onomichi, Hiroshima, Yamaguchi, Shimonoseki, Kokura, Fukuoka, Saga, Nagasaki.	\$68.	3.	102	357	19.	54.
Koraibashi (Osaka)) and Kobé.	From Koraibashi Office) to Kobé Office.	_	(direct communication.)	26.	5 .	46.	10.	35.	00.
Kawaguchi (Osaka) ; and Kobé.	From Kawaguchi Office) to Kobé Office.	1.	Kawaguchi (direct communication.)	24.	2.	70.	10.	00.	00.
Koraibashi (Osaka), and Kawaguchi.	From Koraibashi Office ; to Kawaguchi Office.		(direct communication.)	2.	2.	206.		35.	5.
Kioto and Korai-) bashi (Osaka.)	From Kioto Office to / Koraibashi Office.		(direct communication.)	27.	4.	50.	11.	12.	00.
Ohtzu.	From Ohtzu to Kioto) and in circuit with all offices on the Nagasaki line.		(direct communication.)	8.	4.	2.	3.	18.	00.
Kumamoto.	From Saga in Hizen via) Kurumé to Kumamoto.	1,	‡ Kumamoto.	59.	2,	125.	24.	15.	121.
Awomori.	From Asakusa (Tokio) via Awomori) to Imabetz.	7.	Wutzunomiya, Shirakawa, Fuku- shima, Sendai, Ichinoseki, Morioka, Awomori	510.	4.	102.	210.	7.	00.
Tsugar Cable.	Erom Imabetz harbour) to Fukushima gulf.		(direct communication.) (Two Cable houses.)	24.	2.	157.	10.	00:	44.
Yezo.	One wire from Fuku- shima Cable house via Fukuyama to Hako- date; another direct to Hakodaté, with a separate wire between Fukuyama and Hako- daté; and a third wire between Hakodatè and Otaru.	7,	Fukuyama (Matsumaye). Hakodate, Mori, Osamambé Mororan, Sapporo, Otar	291.	1.	26.	119.	31.	00.
Total num	ber of Stations open.	45	Total length of lines open.	1,901.	0.	106.	782.	23.	43.

^{*} Including the cable across the Baniu River, a breadth of 486 yards (cho 4. ken 51), and that across the Shimonoseki Straits, 1,117 yards (cho 9. ken 241),





[#] Kurume Station completed, but not opened till after 30th June 1875.

明號 治八年 七十五年、附 錄 六 月 \equiv + 日 迄開 業 七 V 路 里 程 及 局 數

百六		一千九百	四十三	# =	十二八八	合計里程		五局	總局數四十		
		十二一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一		三十	白十九九	ATT TO ATT	小室森 福 樹 扇 局 局	七	79. 10 40.	北 海 道 線	-114
七百五十	11	廿四四	四十四		+	二字	線室		今別港チ發シ福島灣二	輕海底線	津
百二	174	五百十		Ŀ	百十	盛仙白 岡臺川 局局局	青一福宇都宮局局	七	今 草	青 森線	selet.
五百	11	五十九	十二半	十五	廿四	局	+ 館本	-	經テ熊本局ニ到ル	能本線	AL
=	四	八		十八	=				京局チ数チ大津	津線	
五十	四	北上		+ ==	+			- 114	到ルサ發シ高温橋	橋及 線大 坂	高西
二百六	11	11	Ŧi.	卅五				77-4	到橋局サポ	川高口麗線橋	及同
七十		廿四四			+	局	川口	-	口局サ發シ神戸局	口及神戶線	
四十六	五.	廿六		卅五	+			- 174	到ル局チ發シ神	万線 跪橋及	神大
百一	==	十八八八八八八八八八八八八八八八八八八八八八八八八八八八八八八八八八八八八八八	半	九	五三 * 十七百	佐小山尾姬高大岐豐沼 賀倉口道路鷹津阜橋津 局局局局局局局局局局局	長福赤廣岡神西彥名靜小 崎岡馬島山戸京根屋岡原居島山戸京根屋岡原居局局局局局局局局局局局局局局局局局局局局局局局局局局局局局局局局局局局局	#	発力 が が が が が が が が が か か テ で で で で で で で で で で で で で で で で で	長崎線	E
百四四	六	#	廿四	廿	八			714	日本橋局チ發シ横濱局	本橋及橫濱線	日十
一百四	四	十九	+ =	=	八	局	横濱	-	到此局,發少橫濱局二	地及橫濱線	築
七十五	四	十七七		八	七	四陽中衛馬局局局	赤本面築 羽鄉國地 局局局局	七	府下各局亙ニ通ス	下東 涼 府	ाः स
ヤルト	フルロング	マイル里	間路	町線	里	名	局	數局	發到	線名	

留米 局 底 21 線 町 開業 五間 半四百八 ス

APPENDIX E.

IMPERIAL GOVERNMENT TELEGRAPHS.

Tariff, for European Messages, issued 20th March 1875.

Th	ese rates are for mes	ssages of t	wenty wo	rds, i	for ev	ery	additi	onal	ten	word	s or	fract	tion	of te	n wo	rds,	half	the						Tokio		Tokio
	mate of a full more	naa aharaa	a																			_	Yoko	hama	0.25	Yokohama
	rate of a full mess	age charge	u.																		-	Odaw	ara	0.25	0.50	Odawara
In	ternational message of	twenty w	ords (incl	uding	addr	ess &	mes	senge	r's f	ee) \$	2.00	for	all 8	Statio	ns S	outh				1	Vum	ıdzu	0.25	0.50	0.50	Numadzu
	of Tokio; for every	additional t	on words	or frac	otion t	hereo	f hal	f that	rate										-	Shizu	oka	0.50	0.50	0.50	0.50	Shizuoka
	of Tokio; for every	additionar	en words	01 1140	SCIOII 4	Hereo	1, 1141	Luiter	1000									H	aman	natzu	0.25	0.50	0.50	0.50	0.50	Hamamatzu ‡
Lo	cal messages within the	e cities of T	okio & Os	aka, fe	or twe	enty v	vords,	0.15	Sen.									Toyo	hoshi	0.25	0.50	0.50	0.50	0.50	0.50	Toyohashi
3.0	essenger's fee in Tokio	within a rai	line of 9 ri	from	the re	occivi	ne off	ice. 1	1 Se	n ner	mess	noe.					Nago	ya	0.50	1.00	1.00	1.00	1.00	1.00	1.00	Nagoya
TATE	essenger's fee in Tokio	WITHITH SE LEG	1145 01 2 11	Hom	the r	CUCITI	11 On	100, 1	2 000	I Pex	444 0000					Gifu		0.50	0.50	1.00	1.00	1.00	1.00	1.00	1.00	Gifu
W	hen a special messenger	r is requisit	e, actual e	xpense	es inct	irred	to be	charg	ged.						Hiko	né	0.50	0.50	0.50	1.00	1.00	1.00	1.00	1.00	1.00	Hikoné
Λ.	y message destined for	a place her	for a bros	ins of	2 ri f	rom f	he rec	eivin	or					Ohtzu	ı	0.25	0.50	0.50	0.50	1.00	1.00	1.00	1.00	1.00	1.00	Ohtzu
AL	ly message destined for	a place be	OHA IS TAK	143 01	~ 11 1	LOZZE C			0				Kioto)	0.25	0.50	0.50	0 50	0.50	1.00	1.00	1 00	1.00	1.00	1.00	Kioto
	office will be posted.										(Osaka	ı	0.25	0.25	1.00	1.00	1.00	1.00	1.50	1.50	1,50	1.50	1.50	1.50	Osaka
D	livery charge for messa	roes address	ed to Shir	s anel	nored	in the	9			8	Sakai		0.25	0.50	0.50	1.00	1.00	1.00	1.00	1.50	1.50	1.50	1.50	1.50	1.50	Sakai *
Do	intery citarge for income	Don market	ou to om							Kobé		0.50	0.25	0.50	0.50	1.00	1.00	1.00	1.00	1.50	1.50	1.50	1.50	1.50	1.50	Kobé
e.	harbours of Yokohan	na, Kobé, o	r Nagasak	i, will	be,			1	lime	ji	0.50	0.50	0.50	1.00	1.00	1.50	1.50	1.50	1.50	2.00	2.00	2 00	2.00	2.00	2.00	Himeji
	irrespective of distan	ce. 0.15 Ser	1.				(Okaya	ama	0.50	0.50	0.50	0.50	1.00	1.00	1.50	1.50	1.50	1.50	2.00	2.00	2.00	2.00	2.00	2.00	Okayama
						(Onomi	ichi	0.50	0.50	0.50	0.50	0.50	1.00	1.00	1.50	1.50	1.50	1.50	2.00	2.00	2.00	2.00	2.00	2.00	Onomichi
M	essages intended for S	hips in any	other har	bour	1	Hirosl	nima	0.50	1.00	1.00	1.00	1.00	1.00	1.50	1.50	1.50	1.50	1.50	1.50	2.00	2.00	2.00	2.00	2.00	2.00	Hiroshima
	or roadstead will on	ly be deliv	ered	Y	Tamag	uchi	0.50	0.50	1.00	1.00	1.00	1 00	1.00	1.50	1.50	1.50	1.50	1.50	1.50	2.00	2.00	2.00	2.00	2.00	2.00	Yamaguchi
			S	himor	noseki	0.50	0.50	0.50	1.00	1.00	1.00	1.00	1.00	1.50	1.50	1.50	1.50	1.50	1.50	2.00	2.00	2.00	2.00	2.00	2.00	Shimonoseki
	to the Agent on shore	e, and in	Koku	ıra	0 25	1.00	1.00	1.00	1.50	1.50	1.50	1,50	1.50	2.00	2,00	2.00	2.00	2.00	2.00	2.50	2.50	2.50	2.50	2.50	2.50	Kokura
	such cases a full addr	ess _	Fukuoka	-	-		-					-	_		-	-	-	-	_	-	_	-	_	-	I mindred	Fukuoka
		Saga	0.50	0.50	0.50	1.00	1.00	1.00	1.50	1.50	1.50	1.50	1.50	2.00	2.00	2.00	2.00	2.00	2.00	2.50	2.50	2.50	2.50	2.50	2.50	Saga
	must be given.	Kurmé	0.50 1.00	1.00	1.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	2.00	2.00	2.00	2.00	2.00	2.00	2.50	2.50	2.50	2.50	2.50	2.50	Kurumé ‡\
	Kun	namoto 0.50		_		-	-					-	-	-	_				-		_	_		-	Accessed to	Kumamoto
	Sashiki	0.50 0.50	0.50 1.00	0.50	0,50	1.50	1,50	1.50	1.50	1.50	1.50	1.50	1.50	2.00	2.00	2.00	2.00	2.00	2 00	2.50	2.50	2.50	2.50	2.50	2.50	Sashiki ‡
	Kagoshima 0.2	50 0.50 0.50	0.50 1.00	1.00	1.00	1.50	1.50	1.50	1,50	1.50	1.50	1.50	1.50	2.00	2.00	2.00	2.00	2.00	2.00	2.50	2.50	2.50	2.50	2.50	2.50	Kagoshima‡ /
	Nagasaki 1.00 1.0	00 1.00 1.00	0.50 0.50	0.50	1.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	2.00	2.00	2.00	2.00	2 00	2.00	2.50	2.50	2.50	2.50	2.50	2.50	Nagasaki

(The aboove rates are in Yens)

^{*} Branch line not opened for public traffic until after 30th June 1875.

Sashiki 0.	50 0.50	0.50	1.00	0.50	0.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	2.00	2.00	2.00	2.00	2.00	2.00	2.50	2.50	2.50	2.50	2,50	2.50	Sashiki ‡ (†	
Kagoshima 0.50 0.	50 0.50	0.50	1.00	1.00	1.00	1.50	1.50	1.50	1,50	1.50	1.50	1.50	1.50	2.00	2.00	2.00	2.00	2.00	2.00	2.50	2.50	2.50	2.50	2,50	2.50	Kagoshima‡	
Nagasaki 1.00 1.00 1.0	00 1.00	0.50	0.50	0.50	1.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	2.00	2.00	2.00	2.00	2 00	2.00	2.50	2.50	2.50	2.50	2.50	2.50	Nagasaki	

(The aboore rates are in Yens)

Branch line not opened for public traffic until after 30th June 1875.
Branch line.
Stations not yet opened.

Tariff, for Japanese Messages, issued 20th March 1875.

These rates are for messages of not mo	ore than twenty char	eters ("Katak	ana") f	or every	addi	tional	l ten o	hara	cters	or fra	etion						Toki	0	Tokio
																-		0.07	
of ten characters, half the rate of	a full message charge	1.												(-			0.09	
Local messages within the cities of To	kio & Osaka, per twe	ity characters,	0.05 S	en.									1	-			-	0.09	
A 3.7												8	hizu	oka	0.07	0 07	0.09	0.11	Shizuoka
Address is free of charge.			*								H	aman	atzu	0.06	0.08	0.08	0.10	0.12	Hamamatzu ‡
Messenger's fee in Tokio within a rad	ius of 2 ri from the r	ceiving office,	1½ Sen	per me	ssage.					-	Tayol	nshi	0.00	0.07	0.09	0.09	0.11	0.13	
When a special messenger is requisite	actual expense incur	ed to be chare	red.						1	Nago:	ya	0.07	0.08	0.09	0.11	0.11	0.13	0.15	Nagoya
								(Gifu		0.07	0.09	0.10	0.11	0.13	0.13	0.15	0.17	Gifu
Any message destined for a place bey	ond a radius of 2 ri f	om the receivi	ing offic	ee will			1	Iikor	né	0.07	0.09	0.11	0.12	0.13	0.15	0.15	0.17	0.19	Hikoné
be posted.						(Olitzu		0.07	0.09	0.11	0.13	0.14	0.15	0.17	0.17	0.19	0.21	Ohtzu
					I	Kioto		0.07	0.07	0.09	0.11	0.13	0.14	0.15	0.17	0.17	0.19	0.21	Kioto
Delivery charge for messages addresse	d to Ships anchored	n the harbours	S	(Osaka		0.07	0.07	0.09	0.11	0.13	0.15	0.16	0.17	0.19	0.19	0.21	0.23	Osaka
of Yokohama, Kobé or Nagasaki	, will be, irrespective	of		Sakai		0.07	0.09	0.09	0.11	0.13	0.15	0.17	0.18	0.19	0.21	0.21	0.23	0.25	Sakai *
			Ko	bé	0.09	0.07	0.09	0.09	0.11	0.13	0.15	0.17	0.18	0.19	0.21	0.21	0.23	0.25	Kobé
distance, 0.15 Sen.		1	Iimeji	0.07	0.11	0.09	0.11	0.11	0.13	0.15	0.17	0.19	0.20	0.21	0.23	0.23	0.25	0.27	Himeji
Messages intended for Ships in any or	ther harbour or	Okaya	ıma 0.	0.09	0.13	0.11	0.13	0.13	0.15	0.17	0.19	0.21	0.22	0.23	0.25	0.25	0.27	0.29	Okayama
		Onomichi								-		-			Commence of the last				The state of the s
roadstead will only be delivered	1	roshima 0.07																	
Agent on shore, and in such case		hi 0.07 0.09			-	-						-			-		-	-	- Santa
full address must be given.	Shimonoseki	0.09 0.11	0.13 0.	.15 0.17	0.21	0.19	0.21	0.21	0.23	0.25	0.27	0.29	0.30	0.31	0.33	0.33	0.35	0.37	Shimonoseki
Tutt address must be given.	Kokura 0.06	08 0.10 0.12	0.14 0.	.16 0.18	0.22	0.21	0.22	0.22	0.24	0.26	0.28	0.30	0.31	0.32	0.34	0.34	0.36	0.38	Kokura
F	ukuoka 0.06 0.07			-							_			_			-	1	Fukuoka
Saga	0.07 0.08 0.09		-	-		-		- 1		-	-					_			0
	0.07 0.09 0.10 0.11	The second secon		_	-		-		Indiana and the second	_	-		-	-	_		-		4
	0.09 0.11 0.13 0.15						-	-	-	-			-	_					
	0.11 0.13 0.15 0.17			Service		-	-		-			-			-	_	1000000	-	
Kagoshima 0.07 0.09 0.11 0		The second second second							Lancacion de la constanti de l										
Nagasaki 0.15 0.13 0.11 0.09 0	0.07 0.09 0.10 0.11	13 0.15 0.17	0.19 0.	.21 0.23	0.27	0.25	0.27	0 27	0.29	0.31	0.33	0.35	0.36	0.37	0.39	0.39	0.41	0.43	Nagasaki

(The above rates are in Yens)

^{*} Branch line not opened for public traffic until after 30th June 1875.

† Branch line.

‡ Stations not yet opened.

Agent on shore, and in such cases	s a				the state of the s		COS Services				-		-				-							0.35	Yamaguchi
full address must be siven		Shi							man and a second	7													_	0.37	Shimonoseki
full address must be given.	-	okur	-						-				1			-	_	100 mm market and 1		-	-		-	0.38	Kokura
F				_			_	_					-	The second second second			-	-		_			_	0.39	Fukuoka
Saga	(0.07	0.08	0.09	0.11	0.13	0.15	0.17	0.19	0.21	0.25	0.23	0.25	0.25	0.27	0.29	0.31	0.33	0.34	0.35	0.37	0.37	0.39	0.41	Saga
			-	-	-	-	-	-		-		-					-						The second second	0.43	
Kumamoto 0.07			-	_	-	_	-	7 55	_	- The second second			-	-	_		-	_	-						Kumamoto
Sashiki 0.07 0.09 0		The state of the s	-				THE RESERVE OF THE PARTY OF THE	10,000,000	The second second		-										(Street Street Street)			1	Sashiki ‡
Kagoshima 0.07 0.09 0.11 0	0.13	0.15	0.17	0.19	0.21	0.23	0.23	0.25	0.27	0.29	0.33	0.31	0.33	0.38	0.35	0.37	0.39	0,41	0.42	0.43	0.45	0.45	0.47	0.49	Kagoshima‡
Nagasaki 0.15 0.13 0.11 0.09 0	0.07 0	0.09	0.10	0.11	0.13	0.15	0.17	0.19	0.21	0.23	0.27	0.25	0.27	0 27	0.29	0.31	0.33	0.35	0.36	0.37	0.39	0.39	0.41	0.43	Nagasaki

(The above rates are in Yens)

Tariff, for European Messages, issued 20th March 1875.

hese rates are for messages of twenty words; for every additional ten words or fraction	on of te	n won	rds, h	alf the	e rate	of a	full						Tokio	-1	Tokio
message charged.											Wut	zuno	miya	0.25	Wutzunomiya
nternational message of twenty words, (including address and messenger's fee) \$ 4.00	for all	Stati	ions n	orth (of To	kio, f	or			5	Shiral	kawa	0.25	0.50	Shirakawa
every additional ten words or fraction thereof, half that rate.									F	ukusl	ima	0.25	0.50	0.50	Fukushima
ocal message within the city of Tokio, per 20 words, 0.15 Sen.								8	enda			-	_	-	Sendai
Iessenger's fee in the city of Tokio within a radius of 2 ri from the receiving office, 1	sen p	er me	essage]	chine	seki				_	-	
When a special messenger is requisite, actual expense incurred to be charged.						1	Morio	ka	0.50	0.50	0.50	1.00	1.00	-	Morioka
my message destined for a place beyond a radius of 2 ri from the receiving office will	be post	ed.				Awon	nori	_	-		-		_	-	
elivery charge for messages addressed to Ships anchored in the harbour of Hakodaté				I	lukuy	vama	0.50	0.50	1.00	1.00	1.50	1.50	2.00	-	Fukuyama
will be, irrespective of distance, 0.15 Sen.				Hako	laté	0.25	0.50	0.50	1.00	1.00	1.50	1.50	2.00	2.00	Hakodaté
lessages intended for Ships in any other harbour or roadstead will only be delivered			Mori		0.25	0.50	0.50	1.00	1.00	1.00	1.50	1.50	2.25	2.25	Mori
to the Agent on shore, and in such cases a full address must be given.		Osam	ambé	0.25	0.50	0.50	1.00	1.00	1.50	1.50	2.00	2.00	2,25	2.25	Osamambé
	Moron	ran	0.25	0.50	0.50	1.00	1.00	1.00	1.50	1.50	2.00	2.25	2.25	2.25	Mororan
Sap	poro	0.25	0.50	0.50	1.00	1.00	1.00	1.50	1.50	2.00	2.25	2.50	2.50	2,50	Sapporo
Otaru	0.25	0.50	0.50	0.50	1.00	1.00	1.50	1.50	2.00	2.25	2.25	2.50	2.50	2.50	Otaru

(The above rates are in Yens)

Tariff, for Japanese Messages, issued 20th March 1875.

These rates are for messages of not more than twenty characters; ("Katakana") for every additional ten characters or fraction	Tokio	Tokio
of ten characters, half the rate of a full message charged.	Wutzunomiya 0.08	Wutzunomiya
Local message within the city of Tokio, per 20 characters, 05 Sen. Address is free of charge.	Shirakawa 0.08 0.11	Shirakawa
Messenger's fee in Tokio within a radius of 2 ri from the receiving office, 11 Sen per message.	Fukushima 0.08 0.11 0.14	Fukushima
When a special messenger is requisite actual comments in 11.1.1.1	Sendai 0.08 0.11 0.14 0.17	
Any message destined for a place beyond a radius of 2 ri from the receiving office will be posted. Moriota Moriota	noseki 0.08 0.11 0.14 0.17 0.20	
Moriota Moriota	0.08 0.11 0.14 0.17 0.00 0.00	Maninha

^{*} Branch line not opened for public traffic until after 30th June 1875.

† Branch line.

‡ Stations not yet opened.

											11 141	MANU		4.20	и измичниув
International message of twenty words, (including address and messenger's fee) § 4.0	0 for all	Statio	ons n	orth o	of To	kio, f	or				Shira	kawa	0.25	0.50	Shirakawa
every additional ten words or fraction thereof, half that rate.									F	ukush	nima	0.25	0.50	0.50	Fukushima
Local message within the city of Tokio, per 20 words, 0.15 Sen.								8	enda	i	0.25	0.50	0.50	1.00	Sendai
Messenger's fee in the city of Tokio within a radius of 2 ri from the receiving office, 1	3 Sen p	er me	ssage				I	ehino	seki	0.25	0.50	0.50	1.00	1.00	Iehinoseki
When a special messenger is requisite, actual expense incurred to be charged.						1	Moriol	ka	0.50	0.50	0.50	1.00	1.00	1.00	Morioka
Any message destined for a place beyond a radius of 2 ri from the receiving office will	be post	ed.				Awor	nori	0.50	0.50	0.50	1.00	1.00	1.50	1.50	Awomori
Telivery charge for messages addressed to Ships anchored in the harbour of Hakodaté				1	Fukuy	yama	0.50	0.50	1.00	1.00	1.50	1.50	2.00	2.00	Fukuyama
will be, irrespective of distance, 0.15 Sen.]	Hako	daté	0.25	0.50	0.50	1.00	1.00	1.50	1.50	2.00	2.00	Hakodaté
Messages intended for Ships in any other harbour or roadstead will only be delivered		1	Mori		0.25	0.50	0.50	1.00	1.00	1.00	1.50	1.50	2.20	2.25	Mori
to the Agent on shore, and in such cases a full address must be given.		Osama	mbé	0.25	0.50	0.50	1.00	1.00	1.50	1.50	2,00	2.00	2.25	2.25	Osamambé
	Moro	ran	0.25	0.50	0.50	1.00	1.00	1.00	1.50	1.50	2.00	2.25	2.20	2.25	Mororan
Saj	pporo	0.25	0.50	0.50	1.00	1.00	1.00	1.50	1.50	2.00	2.25	2.50	2 50	2.50	Sapporo
Otaru	0.25	0.50	0.50	0.50	1.00	1.00	1.50	1.50	2.00	2.25	2.25	2.50	2.50	2.50	Otnru
			(The	abore	water	o men	in Vo	00)							

(The above rates are in Yens)

Tariff, for Japanese Messages, issued 20th March 1875.

These rates are for messages of not more than twenty characters; ("Katakana") for every additi	onal te	n chai	racter	s or f	ractio	11				1	Tokio)	Tokio
of ten characters, half the rate of a full message charged.									Wu	tzuno	miya	0.08	Wutzunomiya
Local message within the city of Tokio, per 20 characters, 05 Sen.								8	Shirak	awa	0.08	0.11	Shirakawa
Address is free of charge.							I	lukus	hima	0.08	0.11	0.14	Fukushima
Messenger's fee in Tokio within a radius of 2 ri from the receiving office, 11 Sen per message.						1	Senda	i	0.08	0.11	0.14	0.17	Sendai
When a special messenger is requisite, actual expense incurred to be charged.]	Tehino	seki	0.08	0.11	0.14	0.17	0.20	Ichinoseki
Any message destined for a place beyond a radius of 2 ri from the receiving office will be posted.					Morio	oka	0.08	0.11	0.14	0.17	0.20	0.23	Morioka
Delivery charge for messages addressed to Ships anchored in the harbour of Hakodaté will be,				Awon	nori	0.08	0.13	0.16	0.19	0.22	0.25	0.28	Awomori
irrespective of distance, 0.15 Sen.			Fuku	yama	0.11	0.13	0.18	0.21	0.24	0.27	0.30	0.33	Fukuyama
Iessages intended for Ships in any other harbour or roadstead will only be delivered		Hako	daté	0.08	0.11	0.13	0.18	0.21	0.24	0.27	0.30	0.33	Hakodaté
to the Agent on Shore, and in such cases a full address must be given.	Mori	i	0.08	0.11	0.14	0.16	0.21	0.24	0.27	0.30	0.33	0.36	Mori
Osa	mambe	0.08	0.11	0.14	0.17	0.19	0.24	0.27	0.30	0.33	0.36	0.39	Osamambé
Mororan	0.08	0.11	0.14	0.17	0.23	0.22	0.27	0.30	0.33	0.36	0.39	0.42	Mororan
Sapporo 0.0	08 0.11	-		_	-	-	-	_		-		-	
Otaru 0.08 0.1	11 0.14	0.17	0.20	0.23	0.26	0.28	0.33	0.36	0.39	0.42	0.45	0.48	Otaru

(The above rates are in Yens)

A. K. Yoshikawa

Chief Commissioner.

一錢 五十錢 五十錢 一

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海 音 _ 信 里 語 音 語 ナ 以 立 信 語 外 里 テ 小田二十 五十錢五十銭一十十銭 以 府 滿 届 1 秘。 語 內 郵 沼 五十銭 五十銭 一 餘 每 12 毛 = 餘 届 11 五十錢五十錢 亦 _ 乞 十語 濱二十五幾 音 樣 共籠) ~ 信 ナ 中 2 豐五十錢五十錢五十銭五十 拘 11 _ _ 现 名 五十錢 五十錢 五十銭 五十 圓 語 _ -_ 版 五十錢 五十 圓 固 錢 拂 _ --_ 錢 立 彦 圓 五十 _ _ _ _ 定 ツニナ銭 致五十 圓 圓 _ 及 _ 11 _ _ _ 31 五十錢五十錢 堺 五十錢五

演 拘 へ其 神 戶 出 長 ス人崎 E 港 碇 扯 錢 泊 詳 船 信 ~ 送 達 右 ス 井 海 其 路 船

長			寮	信	電								
鹿兒 一	鹿												
錢一	佐五十												
錢一	熊五十銭五十												
錢	五十錢五十錢五十	久											
一銭五十銭	五十錢五十銭五十	佐力五十錢					j	1				7	3
圓五十	一	五十錢一圓	福			<i>></i> \	社又	ノ合	其船	xl.) 51.	卷	Ξ
圓 五 十	一圓一圓一	五十錢一圓	小五十錢				=	遠近	路ノ	ハ海	井 .:	n	ス
	1 1 1 1 1	五十錢一圓	近线 五十銭	赤二十									
題 五一	五十錢五十錢五	一圓五十錢		五十錢一	iЦ					V	~	12	次
我——	五十銭五十銭五		回回	五十錢一	廣 五十錢					1	煮		金
第一五一	五十銭五十銭五	Ii.		五十錢一	銀	尾五十)	在		200
Ti _	五十銭五十銭五	十圓	2 2 1 1 1 1 1 1 1 1	画五一		五十錢一	[FZ]						
錢五一	五十錢五十錢五	十圓五一	十銭五+銭	一圓五一		銭 五十銭 一	姬五十级						
왳 五一	五十錢五十錢五	+錢五十圓	銭 五十銭			 	- 銭 五十	神五十					
錢五一	五十錢五十錢五	十월五一	十圓	一圓五一		錢五十錢一	十錢五十份	銭五	場五十				
錢	五十銭 五十銭 五十	幾一	十圓	五一十四十二	圓一圓	五十錢一	錢	錢			.1.		1
			圓	錢	十圓			銭一	送 五十	五十	-	西	主
		=	圓二圓	五一十圓	十圓	国 五一	圓一回	錢一	五十錢五十	銭 五十	-	五十錢	"
	三二三二三二			五一十圓	十銭五十圓	カー直	銭 五 間	五	一		-	十錢	缓五
-		二回二	同二回	五一十圓	十錢五十二	五一圓	銭 五十圓	直上-			-	十銭	 五十
圓二	二三二三二			五十八八二	十圓 銭	九一十圓	一錢 五一圓	五十四十二十四十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十			-	錢 五十錢	五
圓二		1(4)		五十銭二	十圓	致五十 <u>钱</u> 五一	钱 五十圓	五一			-	五十錢	 级
十八岁五十八岁五十八岁五十八岁五十八岁五十八岁	五十段五十段五十段五十段五十段五十段	五十段五十	五二十圓		1 0 1	圓二圓一		十銭二	1 3 五一	銭 五一	五一十圓	1	
十圓子	五十幾五十幾五十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十	五十段五十四十二四十二四十二四十二四十二四十二四十二四十二十四十二十四十二十二十四十二	錢				画二	十段二	十銭 五一	錢工一回	五一十個	TET	
十回一	十岁五十岁五二	五十八五十四十二十四十二十四十二十四十二十四十二十四十二十四十二十四十二十四十二十四十	五二十圓	二圆五二				十八銭二二	一錢 五一	銭 五一	五一十四	1	
十圓了	五十幾五十幾五十	五十段五十		二 圓五二	1 1 1 1	圖二 圆 1	圓二	十銭二	十銭 五一	我	五一十届		
十圓一	後五十 後五十 後五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五	五十段 五十	九二十圓	二日五二	1 回11 回		圓二	十段二	一段 五一	銭 五一回	五一十個		M
十圓元二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二	这五十幾五十幾五十 五十 五十 五十 五十 五十 五十 五十 五十 五十 五十 五十 五十 五	五十八	十銭五十銭	二 同二二			=	+ 選二	圓一圓 一圓 一圓	銭 五一回	五一十四		
見島長崎	米 館 本 佐 敷 庭	佐賀久留米	倉福岡	赤馬剛小	題島山口	尾ノ道	路岡山	妊	神	圾堺	大坂		津西
-	支								線	支			

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鹿兒十五銭	笑							
佐七銭十三銭								
熊七錢九錢十一錢								
外七錢 九錢十一錢九錢								
錢 九 錢 十一錢十三錢 七 錢	佐力七							
錢 十一銭 十三銭 十五銭 九 錢	福七銭九							
一錢 十三銭十五銭十七銭 十銭	銭 八銭 十	小六		又小	ノ會社	八其船	ノ外	港
一錢十五錢十七錢十九錢十一錢	銳九錢十	七	-1.		遠近二	路ノ	中ハ海	.1.
三錢十七錢十九錢二十三錢	銭 十一銭十	銭 八銭 九	山七					
十五銭十九銭二十 三銭 十五銭	一錢十三錢十	銭 十銭 十一						
一十錢	十五銭十	錢十二銭十三銭	七錢九錢十一	尾				
一十錢	十七錢	銀十四銭 十五銭	九銭十一銭十三銭	岡七銭				
三世二十二十二十	十九錢	十六銭十	-	七銭九銭	姬			
五线二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十	九錢二十錢	十八线十	三錢十五錢十七	九銭十一銭十	神七錢			
九銭 三十 三 一 三 一 三 十	五十錢	銭二十銭二十	十九錢二十	十三銭十五銭	銭 十一銭	堺九		
上线 二十 三十 二十 二十	三十	二十錢	十五錢十七錢十	一一錢十三錢	銭 九銭十	七錢七	大	
九线三十三十三十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二	五十級	二十錢	七錢十九錢二	十三錢十五錢十	錢十一錢	九錢九	七錢	西
九錢 一銭 三針二	五十	錢二十銭二	-7	十三銭十五銭	銭十一銭	九錢九	七錢	錢
三十 三十 三十 二	七十	四十錢	-	十五錢十七錢	銭十三銭.	-1銭十一	九錢十	錢
三十 三十 三十 三十	九十	五銭二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十	三十錢一	十七錢十九錢	三錢十五錢	一三銭十	十一錢十	錢
五钱 三十 三十 三	二十	二十	3 二十 3 二	一十錢	五銭十七錢	十五銭十五	十三銭	錢
三十 三十 四十 三	三十	三十錢	上世	一一選二十	七錢十九錢	七錢十	十五錢十	三錢
三十级四十级四十五线三	四十	二十一卷	六錢二十 八鐵二	一錢 二十	鏡二二十	一八錢十八	十六銭十	四錢
三十 四十 四十 三 3 =	五十	二十錢	七十錢一		九錢二十	九錢十	十七銭十	五錢
一线 三线 五线 三	選三十	C13	九錢三十錢三	五线二十	三十錢	一十錢二十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十	十九錢	七錢
一段 三錢 五銭 三	發 三十	ジ 三十	九一 三十 三十 三十	五十二錢	三十錢	錢	十九錢	七錢
三錢 五錢 匹十	3 三十	銭三十銭三	二十一一一一三十三十二三十二三十二三十二三十二三十二三十二三十二三十二三十二三十二三十二三十	七十錢	五十錢	-	一十錢	九錢
七錢四九錢匹	幾四十	幾三十 八 送 三	三十三代五线	九十銭三	七十錢	77	三十銭	錢
久留米 熊 本 佐 敬 鹿兒島 長 崎	佐賀	小倉福	廣 島 山 口 赤馬馴	岡山尾ノ道	戶姬路四	界一神日	大坂	京
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