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العنوان "لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين"

التاريخ/ التواريخ التواريخ

لغة الكتابة الاتينية

الحجم والشكل مجلد واحد (٥٥ ورقة)

المؤسسة المالكة المكتبة البريطانية: أوراق خاصة وسجلات من مكتب الهند

حول هذا السجل

المرجع

يتعلق هذا المجلد بلجنة النقل في بلاد الرافدين. تقرير اللجنة التي عينتها حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين(شيملا: صحافة المونوتيب الحكومية، ١٩١٨).

صلاحيات اللجنة:

• (١) هل مديريات السكك الحديدية والنقل البحري الداخلي في بلاد الرافدين تم تنظيمها وإدارتها عن طريق نظم تضمن الاستغلال الاقتصادي للعمال - سواء المهرة أو غير المهرة - المتوافرين لها لأقصى حد بما يتوافق مع الكفاءة والاعتبارات العسكرية؟ إن لم يكن الأمر كذلك، ما هي التغييرات الموصى بها في التنظيم والإدارة؟

- (٢) هل تتلقى بلاد الرافدين حصتها المستحقة من الموظفين بما يتفق مع مطالبات فوائد السكك الحديدية والشحن والتصنيع في الهند؟
- (٣) يعتبر تطبيق الاعتبارات المذكورة في البند (١) تنظيمًا للسكك الحديدية والنقل البحري الداخلي في بلاد الرافدين وذلك لضمان: (أ) عدم احتجاز المخزون الزائد من المواد، (ب) تنسيق الطلبات الصادرة عن المديريات المختلفة، (ج) تحقيق الاستفادة القصوى من استخدام الآلات والأدوات والتجهيزات الموجودة في ورش العمل.

أعضاء اللجنة: اللواء ه. ف. ي. فريلاند (رئيسًا)، والسيد ي. أ. س. بل، والسيد ج. ريتشار دز، والسيد أ. ج. تشيس (السكرتير)، والسيد جيمس ي. روي، والنقيب ي. ف. دالدي من احتياط البحرية الملكية.

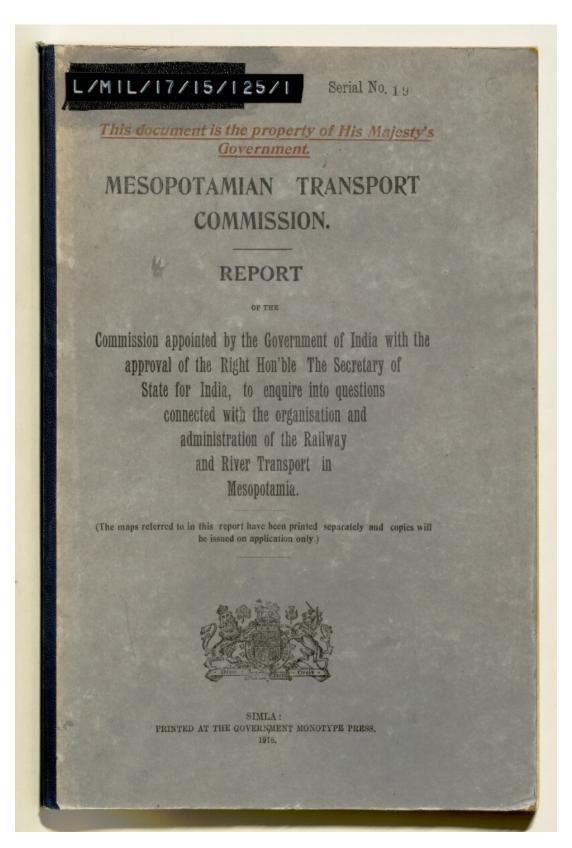
يتضمن التقرير الأقسام التالية:

- وصف عام؟
- هيئة عسكرية لمراقبة خدمات النقل والإشراف عليها؟
- متطلبات الحمولة وقدرات الأنهار والسكك الحديدية؛
 - بحث تفصيلي للأوضاع الحالية؛
 - التطورات المستقبلية؛
 - النتائج والتوصيات.

كما يتضمن المجلد ملاحق حول النقل البحري الداخلي والسكك الحديدية والموارد المحلية.

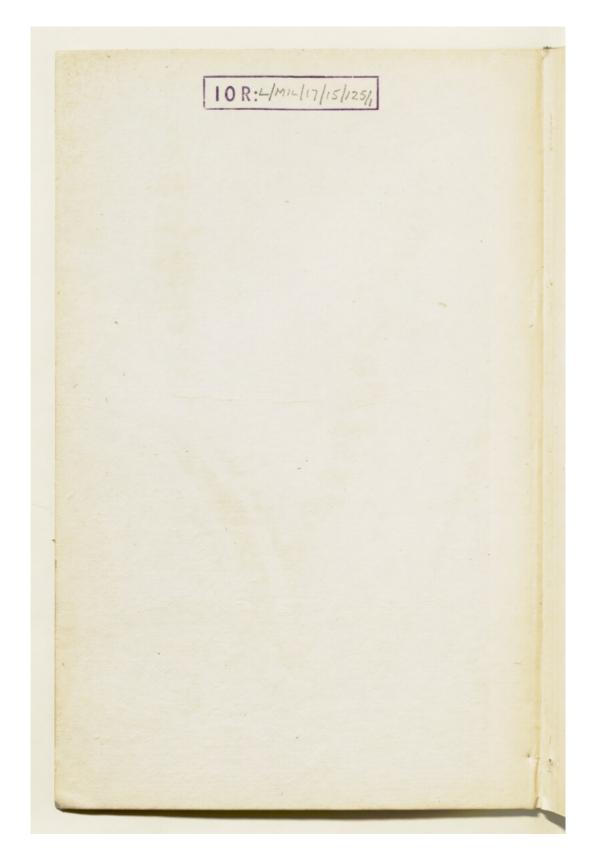


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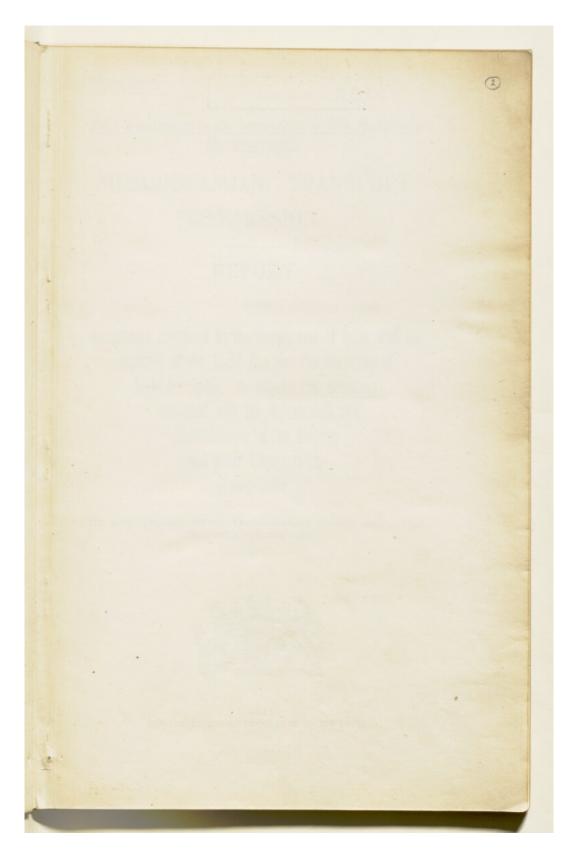


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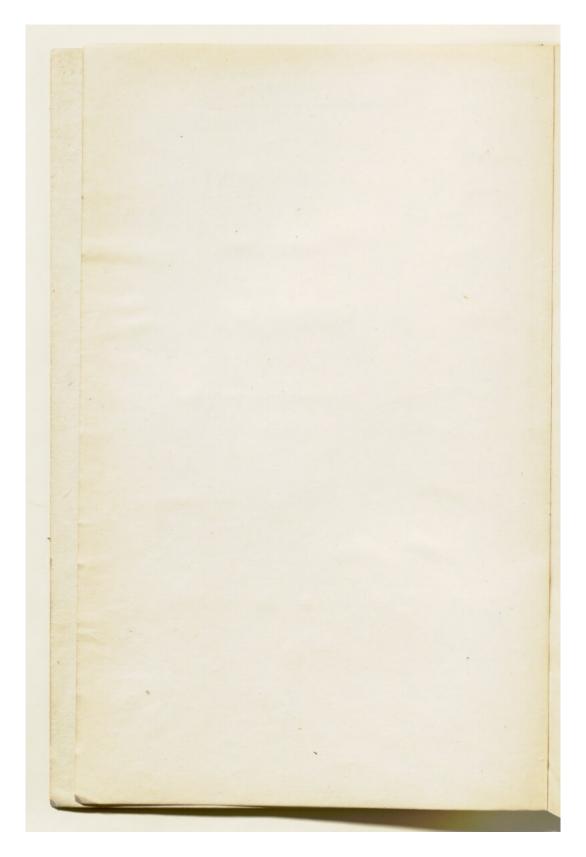


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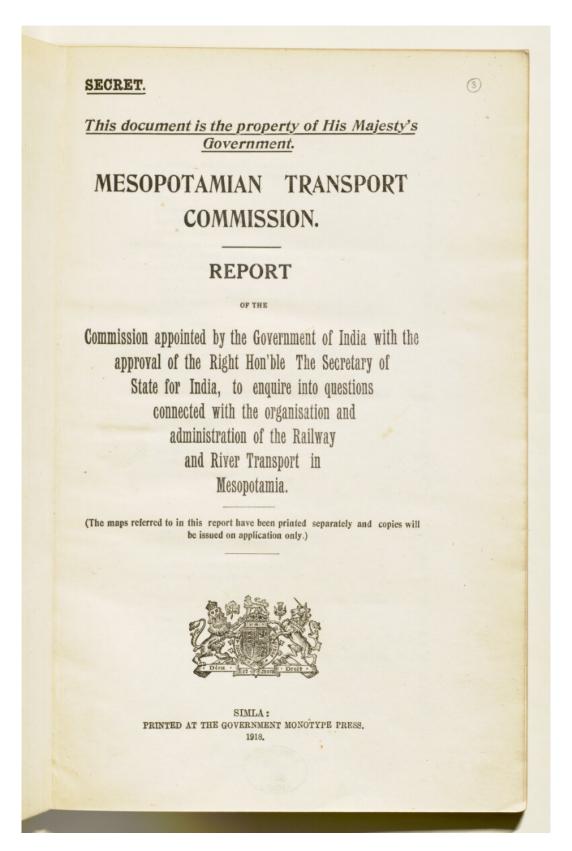


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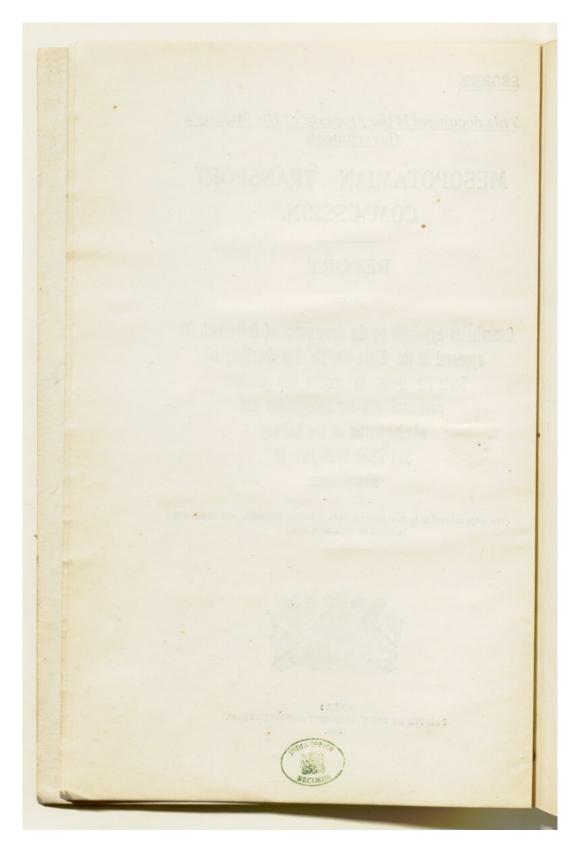


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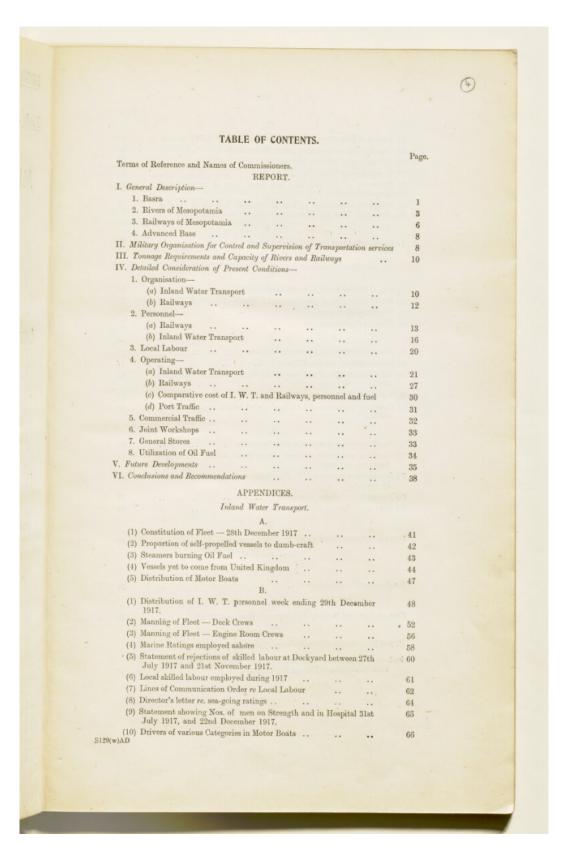


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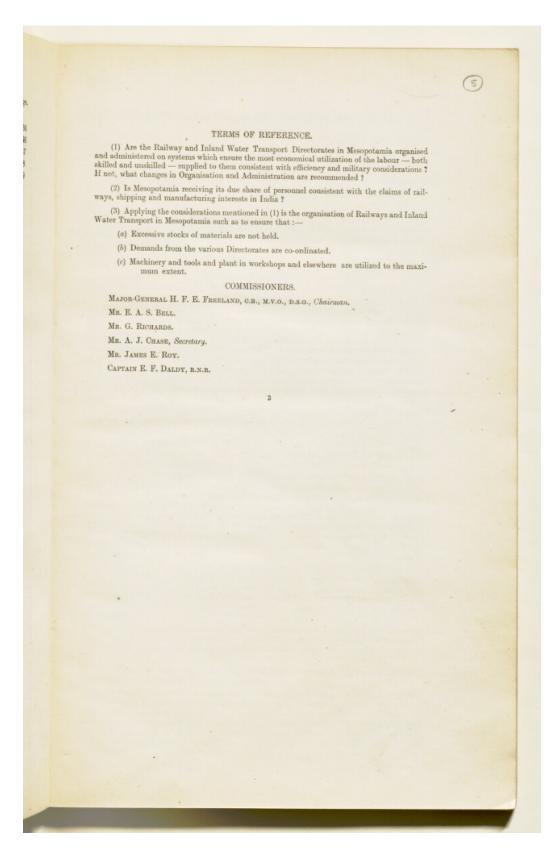


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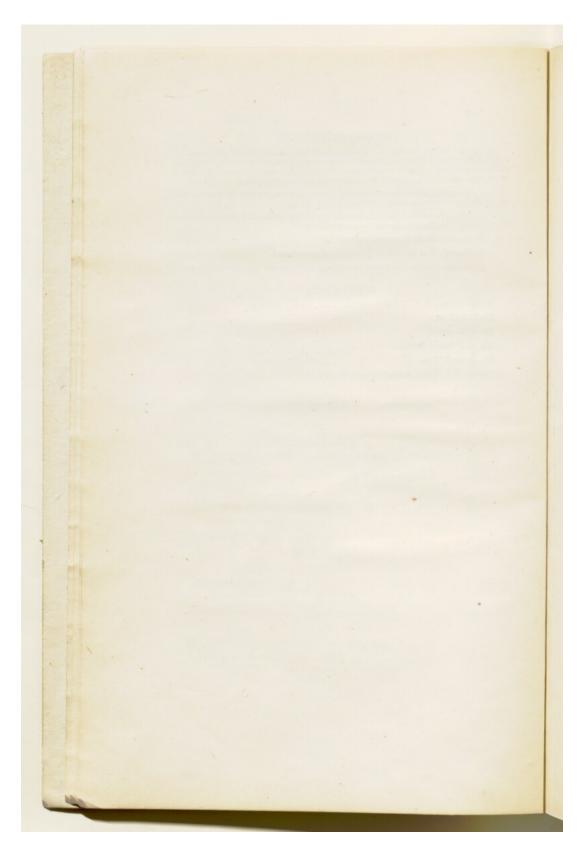


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SECRET.

MESOPOTAMIAN TRANSPORT COMMISSION REPORT.

FROM

THE MESOFOTAMIAN TRANSFORT COMMISSION,

To

The Secretary to the Government of India, Army Department.

Dated Basra, the 20th February 1918.

(6)

SIR

In accordance with instructions conveyed in your letter No. 18348, dated 12th December 1917, we have the honour to submit the following report on questions connected with the Organisation and Administration of the Railway and River Transport in Mesopotamia.

CHAPTER I.

GENERAL DESCRIPTION.

1.—Basra.

2. Basra City lies back from the Shatt-el-Arab about 2 miles due West, and Basra City. its population was estimated prior to the war as being about 80,000 including suburbs. The principal of these were Ashar and Magil both close to the main river. Before the war all three places were notoriously unhealthy. There were also a few buildings on the river front, i.e. Sheikh of Mohammerah's palace and various Consulate buildings; with exception of these buildings, the town of Basra and the villages of Magil and Ashar, the whole area occupied by the present Base consisted of date palm gardens and open desert below flood level. Only two miles of roads existed and no attempt at any form of street lighting had been made. During the rainy season heavy traffic was impossible except on these two miles, and they also became impassable when used for heavy military traffic in wet weather.

3. The town has frequently been subject in the past to inundations. The nor-Flood protes

 The town has frequently been subject in the past to inundations. The nor-Flood protection, mal cause of floods is a strong south wind meeting a high river and spring tide.

The highest flood level was recorded on May 20th 1916, when it reached 8' $9\frac{1}{2}$ " above mean sea level.

The lowest low water levels for 1915-16-17 were recorded in November each year, being 2' 0", 2' 0" and 2'4" respectively.

- year, being 2 0 , 2 0 and 24 respectively.

 4. The whole base area has now been protected by bunds, the most important of which is the Shaiba Bund. This runs due West from Magil to the Shaiba Ridge, a distance of about 10 miles, with a mean height of 8' 6", and was commenced in January 1916 as a flood protection measure preventing the overflow of the Euphrates from inundating the country surrounding Basra, (Makina, Ashar and Magil). The bund is of mud reinforced with mats and corrugated iron sheets. It withstood the floods of 1916, was repaired and strengthened for 1917 and has now been further revetted to meet the flood season of 1918. There has been no breach in the bund since its original construction.
- 5. To add to the disadvantages of Basra, from the point of view of a military base, several creeks, many of them of considerable proportions, intersect the river frontage and make communication difficult; when in addition to this it is remembered that accommodation had to be found for a large military population which is now over 100,000 strong, some idea will be obtained of the work which has been entailed.
- 6. Thirty-eight miles of roads have been constructed involving the erection of Reads, many girder bridges over the creeks. The first five miles of road had to be made of concrete owing to the difficulty of obtaining sufficient stone for the formation of macadamised roads.
- 7. The only water-supply existing when Basra was occupied was a very small Water-supply one serving the Turkish Barracks at Ashar.

To supply the military needs 800,000 gallons were required daily during last summer, and it is expected that this will increase to 1,000,000 gallons in the coming hot season. This is provided by 8 separate pumping stations each fitted with an automatic chlorination system and sedimentation tanks are either provided or being provided in all cases. About 70 miles of piping have been laid and storage arranged for in high level tanks with a capacity of 320,000 gallons. All C129(w) AD



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	2
	systems are interconnected so that supplies can still be obtained in the event of the breakdown of any one plant.
Electric light and power.	8. Early in 1915 the necessity of providing electric light and fans for the Hospitals was realised and various small sets were ordered and installed. These were, however, insufficient and as the force grew, further installations became necessary, until it was realised that greater economy would be effected if a Central Power Station was erected. This is being done and the smaller sets freed for use at stations up-country. It has been found advisable to extend this system also to all wharves, stations, sidings and principal roads. Power is also provided to the Ordnance and Field Park Workshops.
Reclamation.	 As a large proportion of the valuable river frontage was swamped in the flood season, it became necessary to reclaim such areas and make them suitable either for storage or other purposes.
	The sites of the present Port Administration and River Conservancy Depôts, and the Isolation Hospital at Tanooma on the opposite bank of the river, as well as portions of the present Ordnance and Supply Areas in the neighbourhood of Magil have been reclaimed by dredger, and in addition 800,000 square yards has reclaimed by donkey and light tram-line haulage.
Port.	10. The Port is situated on the right bank of the Shatt-el-Arab, 67 miles above a Bar at the head of the Persian Gulf and 46 miles below Qurna where the Tigris and one branch of the Euphrates meet to form the Shatt-el-Arab. The principal branch of the Euphrates joins the Shatt-el-Arab at Gurmat Ali near Basra. The river at Basra has a width of about 1,500 feet.
	11. Although the nett tonnage of shipping which entered and cleared the Port before the war was over 300,000 a year, there were no port facilities of any kind; all vessels lay out in the stream and discharged into country boats or small lighters belonging to local firms and after their cargoes had been passed through the Turkish Customs these boats off-loaded to river steamers and flats for conveyance up the Tigris as far as Baghdad.
	This was the condition of affairs when Basra was occupied in 1914 and it was not until the middle of 1916 that any wharves at which ocean-going vessels could lie, were commenced.
	12. The first wharf (No. 11) was commenced on August 14th 1916, and was put into commission on October 3rd of the same year: the second (No. 6) was started on February 28th 1917 and was in regular commission on July 10th, a few ships only being berthed there during June. Three others (Nos. 5, 10 and 4) were commenced in August, September and November 1917 respectively, and are in commission now. Two others (Nos. 7 and 3) for which the piles were driven in December 1917 and January 1918 respectively are nearing completion, the former is practically available now and the latter, so far as wood-work is concerned, will be ready by the end of this month (February 1918), but its availability for berthing ships will depend on progress made in providing railway facilities and on the arrival of certain iron work due from India. Wharves Nos. 8 and 9 are small structures for up-river work; Nos. 1 and 2 have not yet been commenced.
	13. The earliest figures available are those for March-June 1916, supplied
Cargo discharge at Basra.	by Messrs. Gray Mackenzie who had a contract for discharging cargo and provision of labour. From June 1916 Port Traffic records are available.
	1916. Tons. 1917. Tons. January No records. January 79,085
	February No records. February
	13th March to 12th April
	13th May to 12th June 44,325
	June Port Traffic records 30,000 July 84.559
	July 38,916 August 109,620
	September 54,256 October 100,130
	October . 50,792 November . 112,503 November . 61,214 December . 104,593 December . 81,123 January 1918 . 131,838

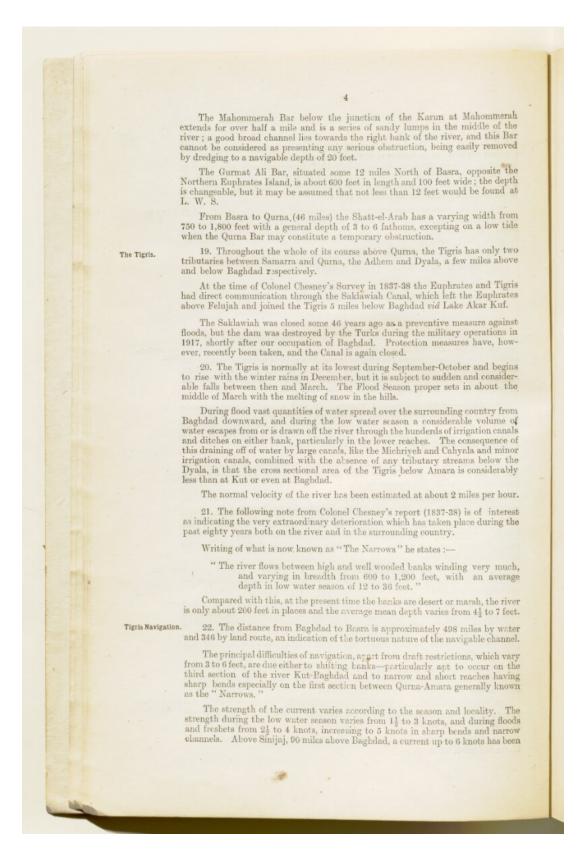


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(7) the event of The drop in June and July is attributed to hot weather conditions, ans for the The above figures, read in conjunction with the details of wharf construction, will shew that up to October 1916, 50,000 tons of cargo were being handled a month without the assistance of any wharves and all vessels were off-loading in the stream. From October 1916 until July 1917 there was only one wharf in use and the tonage had increased from 50,000 to 80,000 or 90,000 a month at times. if a Central eed for use times. From that date much more attention has been paid to the question of wharf construction as has been shewn above. provided to 14. As the Port of Basra was becoming congested a new site was found 21 Nahr Umr. miles up river at Nahr Umr where there is sufficient water close in for ocean-going ships. The main disadvantage of this Port is that it entails an extra 24 hours delay to each vessel and its further development is now under review for this reason. The following works have already been carried out: iped in the un suitable cy Depôts, er, as well Three I. W. T. Wharves are in working. No. 1 Jetty is completed. yards has Nos. 2 and 3 have not yet been commenced. 67 miles No. 4 is under construction and No. 5 is nearing completion. where the ab. The 15. On the outbreak of war the Turks sunk the buoys marking the channel The Shatt-elover the Fao Bar, and removed the lightship which used to be moored about 5 miles Araboutside the Bar to mark the approach to the river; this lightship was sunk at Satan's Gap, 5 miles North of Mohammerah, alongside the "Ekbatana" to assist in preventing over experiences the simulation. he Port y kind; lighters Turkish in preventing our navigating the river beyond that point. up the In Janary 1915, the Indian Government sent a small steam vessel to Mesopotamia to re-survey and buoy the channel across the Fao Bar, and at the same time a new light vessel was constructed in the Royal Indian Marine Dockyard, Bombay, and moored in position 5 miles outside the outer bar exhibiting an could occulting light which was a very great aid to navigation. At the end of the year 1915, three Gas Buoys were secured from Ceylon and laid to mark the channels over the outer bar, by this means ocean vessels could started w ships more easily negotiate the passage by night. d are in triven in The light at Fao which was destroyed by the Turks was also, about this time, replaced in position, and this completed the facilities for navigation. ned, will or berth-16. The mean breadth of the river is some 1,800 feet, between Basra and the mouth of the Karun, where it widens to half a mile and slowly increases to its maximum of nearly one mile at Fao, and ships are navigated by Pilots and Harbour are small Masters as far as Basra. 17. This Bar is now well marked by the universal system of buoyage, which Fao Bar includes three lighted gas buoys laid in such a position that navigation can be supplied provision undertaken by night. The Bar itself is about 12 miles in breadth and vessels drawing over 11 feet have to await high tides when a maximum of 20 feet may be reached, but the depth of water over the Bar is dependent in some degree on the wind, a strong north wind considerably reducing it. From November to March the night tides are the higher; from April to October the day tides. Any vessel which can pass the Bar can 9,085 3,699 8,073 4,673 10,594 proceed to Basra. A Scheme has been formulated for dredging a deeper channel, but it is understood that this, after consideration, has been deferred until after the cessation of hostilities 18. Tides on the Shatt-el-Arab are stronger than the river current and a rise Shatt-el-Arab of 6 to 10 feet may be recorded at Basra, but salt water does not reach a point Navigation. over 20 miles from the Fao Bar. The left bank of the river to a point about 23 miles above the mouth of the Karun is Persian territory



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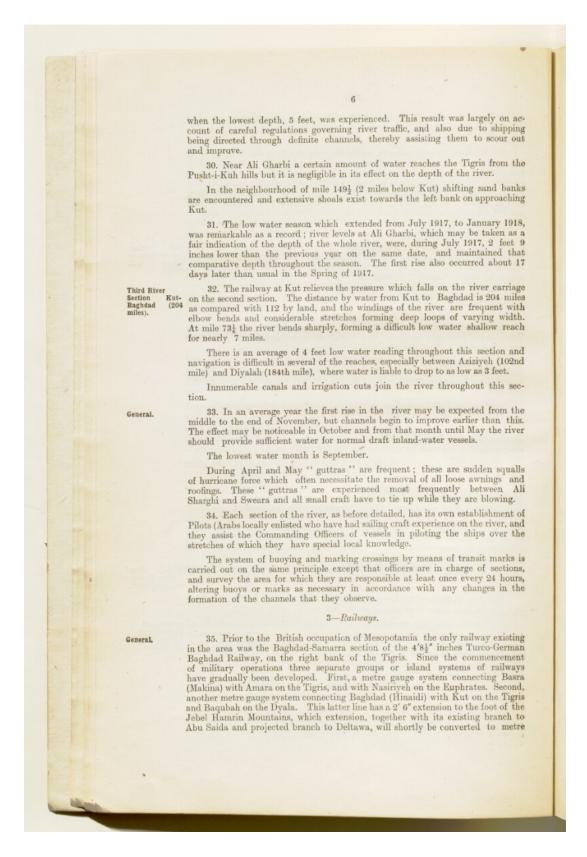


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	(8)
homment	5
like of the	reported over the fords. River bottom above Sinijaj is composed of conglomerate
d this Box	rock, boulders, gravel and stone, but the remainder of the river is entirely free from
y removed	snags of any kind down to Qurna.
10	23. While exceedingly valuable results were derived from bandalling during
posite the the depth	1917, for various reasons, such as lack of sufficient personnel, craft, equipment, material, delay in starting operations and poor quality of material supplied, these
found to	operations can only be considered in the nature of a demonstration of what could be
	effected in improving the navigable conditions on the Tigris during the low water
idth from	season. In the Mandalayih, Kut Monument, Sharshar, Dabuni, Shudhaif, Owain and Hinaidi reaches, channels were deepened by 2 to 3 feet, and it is hoped that in the
a low tide	coming low water season the channels will be deepened throughout to take vessels
	of 5 feet draft as against a maximum of 4 feet draft in the past.
only two	24. Proceeding from Qurna, the Tigris gradually decreases in breadth from First River
les above	about 1,000 feet at that place to roughly 400 feet at the entrance to the "Narrows," Section Qurna to 5 miles North of Ezra's Tomb, and the whole reach is a series of long angular Amara (92) bends, of which "Sarifa" "Sacricha" and "Hurriyam" are difficult to
J /ft'	bends, of which "Sarifa" "Sacricha" and "Hurrivam" are difficult to
nd Tigris uphrates	negotiate owing to their sharp right angle turns.
Kuf.	The navigable channel remains good right up to the entrance of the
	'Narrows," a depth of at least 18 feet being maintained.
against ions in	The stretch of waterway, extending from a point 5 miles North of Ezra's
, how-	Tomb to the Mirchirya Canal, situated 4 miles North of Qualat Saleh, is termed
	the "Narrows" and restricts traffic considerably.
begins	25. Two steamers with barges cannot pass each other in the "Narrows" and when it is necessary for "crossing" to take place, one steamer has to bank
sider- the	in and drop her barges astern while the steamer which has the right of way
1410	proceeds.
from	To regulate traffic a system of control is instituted between the Northern
ne of	and Southern boundaries of the "Narrows."
anals	A number of specially trained sappers are also stationed here for the purpose
nce of minor	of piloting vessels through, and as the bends have been recently illuminated by electric light, navigation by night is possible for vessels without search-lights.
ow the	
letably	There are five control stations, each connected by telephone to each other and each fitted with signalling apparatus by which ships are directed.
	26. At Amara, whilst the main stream of the Tigris takes a sharp turn to
er hour.	the Westward, the Chayals Canal takes off at the angle of the turn to the East-
interest	ward and carries off a large proportion of water from the main stream. In order
ring the	to obtain a greater depth of water in the Narrows, efforts were made to partially dam the Chayala Canal. To effect this a steamer was sunk in the mouth of that
	Canal, but instead of producing a greater depth of water in the Narrows the only
	effect was to increase the velocity of the current in the lower section. This
er much	obstruction is now being removed.
ry much	27. All carriage of stores and material between Amara and Kut is effected second River by river, the railway communication from Basra terminating at Amara.
A CONTRACTOR OF THE PARTY OF TH	Kut (151½ miles).
, the river	The river varies in width between 800—1,000 feet on this section over which the navigation is easier than on any of the others.
to 7 feet	
s by witer	28. All channels and crossings between Amara and Kut are buoyed and Buoying and marked by transit marks wherever requisite, commencing at a distance of approxi-Bandalling at
le thamil.	mately 40 miles above Amara. The Amara-Kut section is divided into three Angaran and
-birh 127	sub-sections with an officer in charge of each during the low water season; this
CONTRACTOR OF THE PARTY OF THE	officer controls shipping and maintains the efficiency of the navigational aids, such as buoys and transit marks.
Judg Billiam	Bandalling on Mandalayih Reach during September, October, November
ally known	and December 1917, effected very useful work increasing the depth of water.
rality. The	29. During 1917 low water season, river traffic ran from Amara to Kut, with
THE SULL	practically no interruption or delays due to groundings. The few delays that
	did occur were only of short duration and happened principally during September, \$129(w)AD
nts las less	

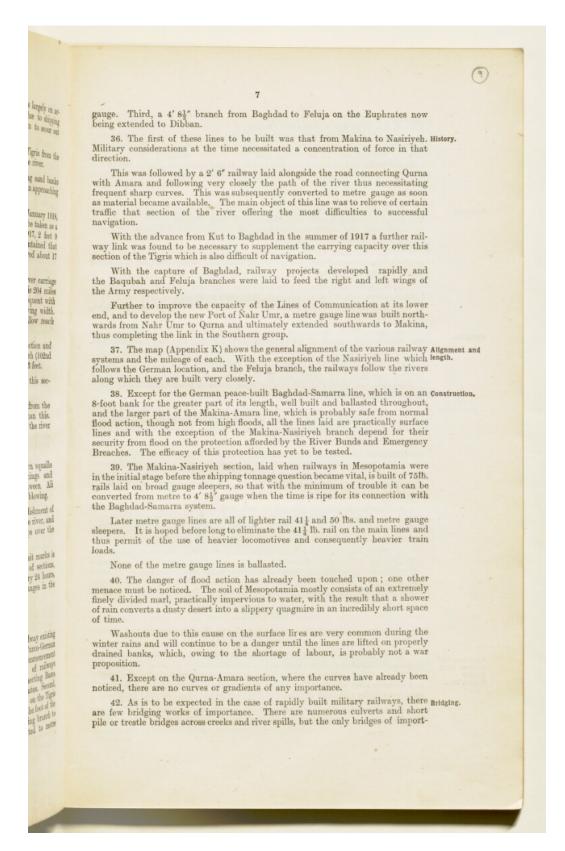


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٨ظ] (١١٤/١٦)



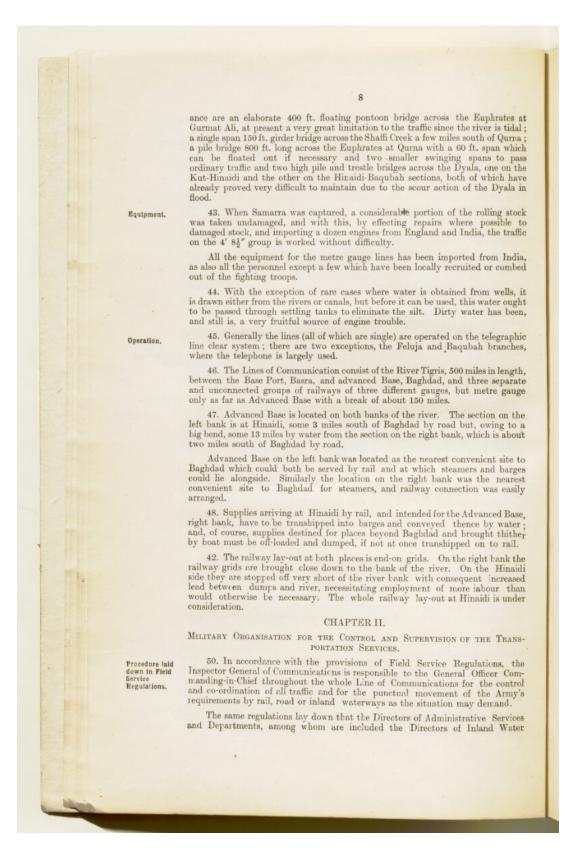


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"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [١٠٥] (١٠٤/١٩)

Transport and of Railways, are responsible, subject to the general supervision and control of the three principal Staff Officers or of the Inspector General of Communications for the methods employed in meeting the requirements of the forces It is also expressly stated that when a Director accompanies General Head-quarters a Deputy will usually be on the Lines of Communication and vice versa. And lastly, the Regulations explain that the responsibility for dealing with questions relating to Railway and presumably to Inland Water Transport rests with the Quartermaster General's Branch of the Staff by whom a ruling will be obtained, in consultation with the General Staff, in all cases of precedence to be given to conflicting demands for transport. the traffe The above briefly covers the question of transport on the Lines of Communication for the provision of which a Director is responsible. rom India or combel 51. As regards the extension of existing means of communication the Regulations state that the Director of a Transportation Service, e.g., Railways, looks to the Inspector General of Communications for his instructions in the matter of wells, it ter ought has been, As it is laid down, however, that the Chief of the General Staff is responsible As it is laid down, however, that the Chief of the General Officer Commanding-in-Chief, for working out all arrangements and drafting of detailed orders regarding all plans for concentration, distribution and movement of troops and material by rail or inland water-ways in the theatre of operations, and is also responsible for inter-communication in the field, it may be inferred that the instructions for forward railway construction and for the opening up of water-ways in the advanced areas, will emanate in the first instance from him. gauge 52. In this theatre of war the Director of Inland Water Transport is located at Procedure adopted in the Headquarters of the Inspector General of Communications with a Deputy at Mesopotamia. General Headquarters, whereas the Director of Railways accompanies General Headquarters and his Deputy remains with the Inspector General of Comabout munications. Prior to the capture of Kut and the advance on Baghdad, the Director of Railways had his headquarters at Basra, but in view of the necessity of concentrating on rapid forward railway construction the late General Officer Commanding-in-Chief decided that the Director of Railways should accompany General Headquarters. 53. The procedure adopted for the control and supervision of the Transporta-tion Services in Mesopotamia is that the Directors of Railways and of Inland Water Transport receive their instructions for the development of their respective facilities and for the movement of traffic on the Lines of Communication railways and waterways, up to and including rail or riverhead, from the Inspector-General of Communications, while orders for new construction beyond railhead or the opening up of waterways beyond riverhead are communicated through the Deputy Quartermaster General. The latter officer also at the present moment has direct charge of the Inland Water and Railway Transport arrangements, which are being carried out in the Euphrates Valley, for the development of the agricultural areas in that district. 54. It has just been decided to create a new Transportation Directorate, namely of the Port, which will also come under the control of the Inspector-General of Communications and a recommendation has gone forward from the General Officer Commanding-in-Chief that the Inspector General of Communications shall be assisted by an officer of technical experience, who will act as his Deputy in all matters connected with Transportation. We approve of this recommendation and we hope that the Deputy Inspector General of Communications will eventually develop into a Director General of Trans-portation, who will control all the Transportation Directorates under the direct orders of the General Officer Commanding-in-Chief. 8129(w)AD



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	10
	CHAPTER III.
	Tonnage requirements and capacity of rivers and railways.
	55. Allowing for the purchase of local produce as at present obtained in this country, the daily requirements in stores and materials of the present force are as
	follows:
	(a) Imported into the country 4,051
	(b) Consumed at the Base or going to reserve 1,179
	(c) Required to be transported by river and rail to Amara 2,872 (d) Consumed at Amara
	(a) Consumed at Amara
	(f) Consumed at Kut 425
	(g) Required to be transported by river and rail to Hinaidi and Advanced Base (Right Bank) 1,821
	The figures under (c) , (e) and (g) do not include reserves, the volume of which varies in the different categories according to the imports from Indian or other ports.
	56. If the scheme for developing the local resources in the Euphrates Valley (see paragraph 211) is fully successful, 463 tons a day may be deducted from the figures under (a), (c), (e) and (g) above.
	57. When the railways between Basra and Amara and between Kut and Hinaidi have been strengthened and fully equipped, they will be able to carry 2,000 tons a day over each section, instead of the present estimated maximum tonnage of 1,280.
	On the above assumption, as soon as the River Fleet has been completed up to full programme, and considering that all stores and material must be carried by river from Amara to Kut, owing to the absence of railway facilities over that section the following tonnages can be carried by river:—
	Tons per diem.
	Basra to Amara 1,294 Exclusive of tonnage
	Amara to Kut 2,930 required for Fleet main- Kut to Advanced Base (Right Bank) 684 tenance.
	Organisation,
	Inland Water Transport,
	58. The Directorate is organised at present, as follows:—
	The Director at Basra, who, under the Inspector-General of Communications, controls the whole organisation.
	Two Deputy Directors, one at Basra and one at Baghdad. The Deputy Director at Basra acts as assistant to the Director. He is a consulting
	Engineer and provides Technical Engineering advice. The Deputy Director at Baghdad controls all Inland Water Transport working in the Tigris area from Aziziyeh to riverhead, and reports on same to
	He also controls all Inland Water Transport working in the upper Europeates
	area under the general control and supervision of the Deputy Quarter- master General.
	Seven Assistant Directors. All at Basra,
1	The Assistant Director Construction has charge of all Inland Water Transport construction in Barsa Area including construction of buildings, jetties, wharves, tanks, slipways, etc.
	The Assistant Director Personnel deals with Inland Water Transport imported labour, takes delivery of labour on arrival at Bassa, has charge of the
	Inland Water Transport labour camp, accounts for and distributes all labour and deals with re-engagements or repatriation.

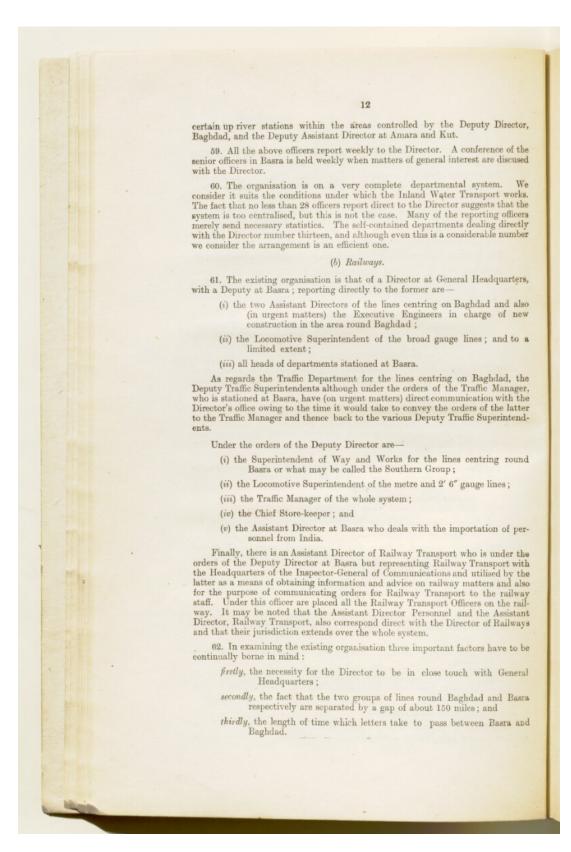


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		(1)
	11	
	The Assistant Director Port Traffic deals with discharge of sea-going ships	
	at Basra and Nahr Umr and controls the fleet of Port Barges.	
	Th Assistant Director Dockyard is Superintendent of the Dockyard, dealing with work as specified by the various Departments.	
	The Assistant Director Conservancy and Irrigation. This Assistant Directorship is being re-organised. Irrigation work is to be removed from the control of the Inland Water Transport Directorate.	
	The Assistant Director <i>Up River Works</i> deals with construction of wharves at Nahr Umr, construction and upkeep of floating bridges up river, construction of buildings, tanks, etc., at up-river stations, general up river engineering work and controls all up river workshops.	
	The Assistant Director Native Craft arranges employment of all native craft	
	Seventeen Deputy Assistant Directors.—The Deputy Assistant Director Transport works the fleet, keeps retords of traffic and of the fleet, is responsible for coal and oil depôts and issues at Basra, and for the barge depôt.	
	The Deputy Assistant Director Marine Engineering is responsible for the engines and boilers of all vessels and instructs the Assistant Director, Dockyard, as to what work is to be done to engines and boilers. He controls the Engine Room crews after they have been handed over to him by the Personnel Department.	
	The Deputy Assistant Director Vessels is responsible for the condition of the Hull and deck arrangements of all vessels and instructs the Dockyard as to what work is to be done to the vessels. He controls the deck crews after they have been handed over to him by the	
	Personnel Department. The Deputy Assistant Director Motor Repair Dockyard is in charge of this establishment, which is to be removed to the Main Dockyard. The Deputy Assistant Director will then become an assistant to the Assistant Director, Dockyard.	
	The Deputy Assistant Director Buoyage and Pilotage is responsible for the pilots on the river above Gurmat Ali. He deals with the buoying and marking of the river, with bandalling operations, with recording of river levels end changes, with all salvage operations and for any dredging the Inland Water Transport may undertake.	
-	The Deputy Assistant Director Re-erection Magil has charge of the re- erection yard at Magil.	
	The Deputy Assistant Director Amara has general charge of all Inland Water Transport working at Amara and on the section Ali Gharbi to Micharyia Canal.	
	The Deputy Assistant Director Kut has general charge of all Inland Water Transport working at Kut and at river stations from Aziziyeh to Sheikh Saad.	
	The Deputy Assistant Director Stores, Magil, is responsible for the main stores at Magil and for issue to all departmental depôts in Basra and up river.	
	Eight other Deputy Assistant Directors are Assistants in various Depart-	
	ments. Two Superintendents.—The Superintendent of Harbour Tugs controls all Harbour Tugs in the Basra Area, the Motor Boat pool and floating fire service.	
	One Superintendent of Accounts.	
of	In addition to the above there are Inland Water Transport officers in charge Filtration and Refrigeration at Magil, in charge of the Narrows control and of	



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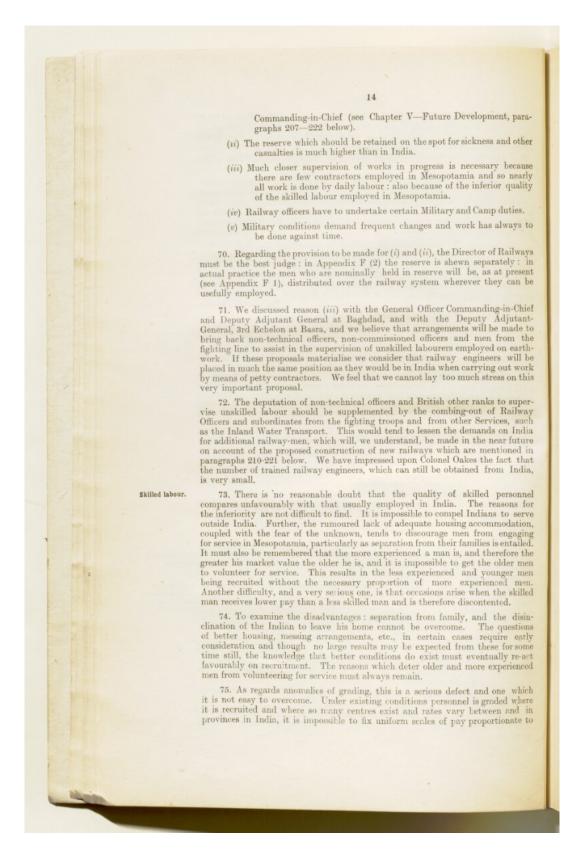


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	(12)	
	13	
Direte.	It is essential that the Director should be in close touch with the General Staff	
	in order that he may be in a position not only to obtain early and timely advice of	
traite	what the railways will be expected to do, but further to be consulted when plans of operations are being framed, and if necessary, to have them modified whilst they	
Ústaj	are still maturing so that they may be in conformity with the capabilities of the	`
. Te	railways.	
No.	The existing organisation is undoubtedly a growth and not a preconceived sys-	
lattle	tem. Such growths are nearly always bound to occur under the rapid changes inci- dental to war conditions where developments arises in unforeseen directions at short	
fin .	notice. It has to be adapted to the personalities of the individuals employed.	
lireth Linder	Such growths, however, require periodical revision and it would appear that	
and the same of th	a suitable time has now arrived.	
	63. Amongst the anomalies at present may be pointed out the fact that the boundaries of the various departments are not coterminous, i.e., there is one Traffic	
	Manager of the whole system but two Locomotive Superintendents; one of these	
laries,	controls the Locomotive working of all metre and 2' 6" lines (including the line from Baqubah to Table Mountain, although he is stationed at Basra); and the other	
ed also	controls the standard gauge lines and is stationed at Baghdad. Unlike the Traffic	
f nev	and Locomotive Departments there is no separate head of the Engineering Depart-	
	ment but the Director himself administers engineering questions.	
l to a	64. We regard the appointment of a member of the Deputy Director's staff to act as technical adviser to the Inspector General of Communications as	
	liable to lead to friction, and unsound. In order to give advice to the Inspector-	
	General of Communications this officer must have technical knowledge in all departments and it is always likely that the Assistant Director, Railway Transport, may	
the	be pressed by the Inspector-General of Communications into giving technical	
ger, the	advice which may not be in accordance with the views of the Deputy Director	
tter	who is responsible for carrying out the work. We are of opinion that under the existing organisation the Deputy Director should be the officer to whom the	
nd-	Inspector-General of Communications should refer on railway questions.	
	65. As stated in paragraph 62 above the organisation just described is a	
	growth. Before the advance to Baghdad the whole of the Railways were centred	
nd	on Basra and were suitably worked on the departmental system. When the lines centring on Baghdad were added, the departmental system became unworkable	
	and an attempt appears to have been made to graft the divisional system on to it.	
	66. A certain amount of re-organisation has recently been undertaken and a	
	scheme has been drawn up for working the Railways on a purely divisional system. We thoroughly approve of this scheme. Appendices F(1) and F(2) shew details	
	of the existing organisation and of the proposed Divisional Scheme.	
ber-	2.—Personnel.	
e the	(a) Railways;	
r the with	67. The Divisional scheme outlined in Appendix F (2) has been drawn up The Director of	
ythe	during the present month by Colonel R. Oakes, who has been officiating as Director Railways. of Railways vice Brigadier-General G. Lubbock, since 14th December, 1917.	
also Inst	68. Appendix F(1) shews that under the existing organisation there are far Utilisation of	
e tal-	more officers on the Mesopotamian Railways than on any railway system of the Railway officers	
istatis	same length in India.	
Junie Junie	We should not compare the Mesopotamian Railways with any old-established Indian Railway which is fully equipped and ballasted but with a new line which	
tole	has been opened for goods traffic at the earliest possible moment.	
tale	Even with this proviso the Mesopotamian Railway scale of personnel appear-	
keen	ed to us to be extravagant; the staff which works only 35 or 40 miles of line in Mesopotamia wou d be considered ample for 80 to 120 miles (i.e., the length of two	
	construction divisions) in India.	
lus	69. The principal reasons for this difference in the length of districts appear	
	to be the following:-	
8 El -	(i) A reserve has to be maintained to provide for the construction of new lines which may be suddenly demanded by the General Officer	
	S129(w)AD	



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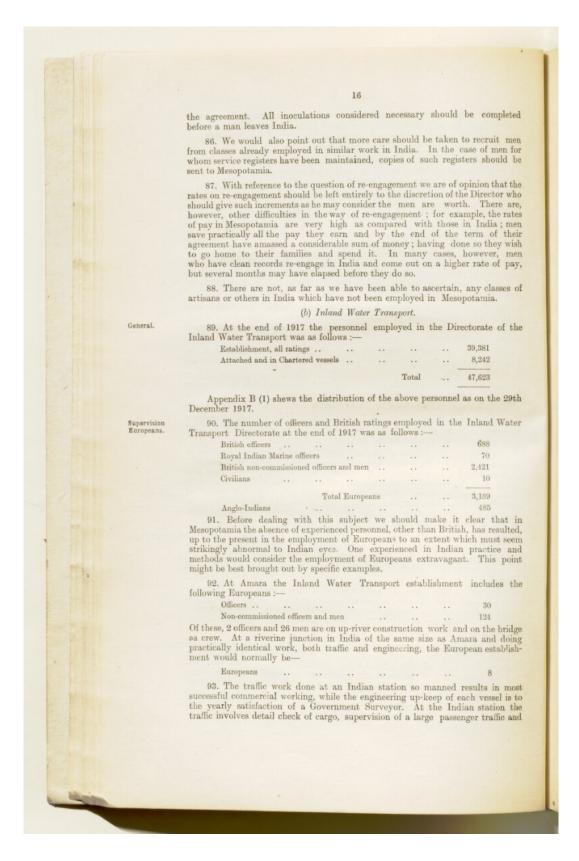


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(13) elopment, po the market value of the individual. Also two recruiting officers would probably not rate particular individuals at the same market value. To get over this difficulty the obvious solution is to fix on one centre for the purpose of grading, but the difficulties in carrying out such a scheme appear to be insuperable. ekness and oh 76. Many complaints have been made and cases have actually come to our notice, of the bad quality of skilled labour and we are of opinion that more care and so need should be exercised in carrying out trade tests. inferior quit 77. The question whether Government and Business concerns are giving sufficient encouragement to their staff to volunteer for service in Mesopotamia is one that has been brought before us. It seems desirable that the requirements Camp defe is one that has been brought before us. It seems desirable that the requirements of Mesopotamia as regards competent skilled workmen should be brought frequently to the notice of all employers in India and that they should again be urged to give the matter their close and unremitting attention. It is not expected that all men recruited will be 100 per cent. men, but it must be remembered that owing to lack of machinery and equipment and very difficult conditions under which men work in Mesopotamia, it is essential that the best type available should be recruited. In this connection it is suggested that the average paid skilled workman and mistry should be recruited and not the lower paid in the grades. has always to or of Raives eparately: they can be 78. It is important that foremen and chargemen should be first-class men and men on the minimum rate of their grades should not be selected. There should be no hesitation in bringing pressure to bear in cases where Europeans are reluctant Adjutan I be made to in from the to volunteer for service. 79. We recommend that all employés who volunteer for the duration of the war from Indian Ráilways should be promised special promotion if they rejoin ers will be er out work with clean records. ress on this 80. We are also of opinion that there should be no hesitation in increasing the salary of any man who, after his arrival in Mesopotamia, proves himself to be worth more than the rate fixed by his agreement. to super-Railway 81. It might also be possible to ensure employment in Government Service on return to India of all staff who have engaged for the period of the war and who, prior to recruitment, were not in Government employ. on India ar future 82. There appears to be a want of liaison between recruiting authorities in India and Directorates in Mesopotamia. We are of opinion that the Superintendent of Recruitment should proceed to Mesopotamia without delay, so as to get into touch with the authorities there, ascertain their difficulties and see what can be ioned in m India, done to surmount them. Further we recommend not only that periodical visits should be paid by this officer to the theatre of war, but that steps should be taken to give selected officers and men proceeding on leave to India extra leave reasons for us to serve mmodative. 83. With reference to a comparison of the unskilled personnel with that usually Unskilled labour. employed on similar work in India and bearing in mind the military restrictions on classes recruited, no complaints have been received except as regards the physique and unsuitability for the climate of personnel recruited in Madras and Bengal. n engager s is entaird, herefore the re older nea rounger nea ienced nea en the skilde stented. 84. We consider that more might be done in Mesopotamia to make service in that country more attractive to men from South India and Bengal; for example, they might be employed together as far as possible under men who are used to d the dir.
The questor require and these for serentrally real are experient. handling them and care should be taken to give them the food to which they are 85. As regards the terms of service of personnel, these appear specially good Torms of service, amounting as they do to 50 per cent. above ordinary Indian rates. Certain improvements might be effected in housing, washing and messing arrangements. We believe that one of the causes of the inferiority in skilled personnel is the frequent change on account of short term agreement. We recommend that all agreements should be for not less than 18 months, preferably for the duration of the war, and that leave should be granted at the end of every twelve months. It is also suggested that the period of service should begin from the date a man actually arrives in Mesopotamia, though pay should commence from the date of his signing



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		(14)
	17	
1	a large amount of cash and accounts working, all of which are absent at Amara. A certain amount of outstation supervision is also given from the Indian stations	
M in	taken as example. Night working is also common.	
N IN	The example quoted proves conclusively that the work done at Amara could, under certain conditions, be done by a very much smaller staff of Europeans.	
to to	94. A second example might be taken from the Buoyage and Pilotage Department. The European establishment of this department at the end of 1917 was as follows:—	
10; 10;	Officers 30	
	Warrant officers	
101	British other ranks 42	
rid	The mileage of river dealt with from Fao upward is 776.	
1	In India the Brahmaputra Marking and Piloting European establishment is as follows:—	
	Europeans or officers 4	
ď	The length of river dealt with is approximately 1,000 miles and the river is much more changeable than the Tigris. Shoals are experienced in all parts of the river	
	in the low-water season and are difficult to mark and navigate. Snags are numerous and have to be carefully located and marked, or removed. Bandalling is not done except in exceptional circumstances.	
	Comperisons of the above kind and to the same effect can be made in many	
	departments.	
	95. Appendix B (10) shews the number of drivers of various categories work-	
	ing in Motor Boats. It will be noted that there are 91 British other ranks. We think this matter requires consideration if military necessity will allow of the	
	manning being other than British. Apart from military consideration, and if there is urgent need for British man-power elsewhere, we consider much of this manning could be Indian.	
	96. In our consideration of the case of Amara, quoted as an example, we have not lost sight of the fact that much general work such as buildings, reclamation, erection of tanks, etc., is going on, and have shown the European personnel engaged on that work, but the opinion re incidence of really experienced and capable Indians and Europeans is not affected. In the case of buoyage and pilotage we have not lost sight of the fact that a large scheme of bandalling is to be carried out and how absolutely essential it is that the best should be done. Nor have we lost sight of the fact that the Buoyage and Pilotage Department do salvage work.	
	97. It seems to us that the position in regard to the Inland Water Transport in this connection can be stated clearly in the following way:—	
	(1) The total man power is probably not excessive.	
	(2) The ratio of Europeans to Indians is excessive in comparison with Indian standards.	
t	(3) If the operations were being conducted in a European country the man- power employed would be all European.	
	98. The position seems to have arisen in the following way. The working developed primarily and quite recently in the actual fighting area, and of necessity Europeans had to undertake every executive duty however unimportant. When fighting passed beyond the lower stations and sections and the conditions approximated more nearly to normal traffic working, which is, of course, quite recently, the	
	European establishment remained.	
	If at this point the manning standard of good and successful practice in India had been aimed at, and approved by the Military authorities, success could only have been attained had it been possible to recruit and send out the experienced	
	and capable Indians who make a low ratio of European establishment possible in India. It would also have been necessary to ensure that these Indians would not	
	be short-term men. 8129(w)AD	



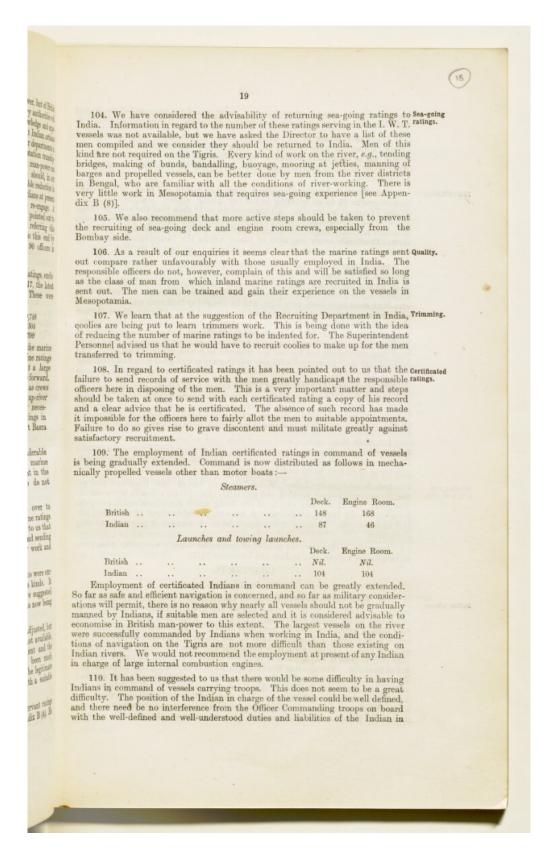
"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٤ ٢٨]

99. The question seems to us to be one, not of mere man-power, but of British 99. The question seems to us to be one, not of mere man-power, but of British man-power as compared with Indian man-power. If the military authorities will accept the latter as substitutes for the former, their technical knowledge and experience being equal, and if India can supply thoroughly competent Indian artisans and the class of experienced Indian who takes charge of sections or departments in offices, of sections of workshops or sections of rivers, of riverine station transhipment, then much valuable and, some of it, highly technical British man-power can be released. Apart from the above the European establishment should, in our opinion, be reconsidered and closely scrutinized to see what possible reduction in these valuable ratings can be made by substitution of suitable Indians at present in Mesopotamia, who might, by advancement, be encouraged to re-engage. A case in point is engaging the attention of the Director. It had been pointed out to us that the establishment of Marine officers might be reduced. On referring this to the Director he advised us that steps had already been taken to this end by advancement of Indians, and he hoped, ultimately, to release about 90 officers in dvancement of Indians, and he hoped, ultimately, to release about 90 officers in this department. 100. The total strength of the floating establishment of marine ratings, exclusive of British officers and British other ranks on 8th December, 1917, the latest date for which detailed figures are available, was 14,651 men. These were distributed as follows :-Afloat ... Ashore as reserve crews up-river and on special works Reserve at Basra Reserve at Basra

101. These figures shew that in December only 72 per cent. of the marine ratings were afloat in steamers. It has been explained to us that marine ratings were indented for as the building programme was sanctioned and that a large number of the men now on shore will be drafted into the vessels still to come forward. There will of necessity be a considerable number retained on shore as crews for the floating bridges, and as mooring gangs at the more important up-river stations. A number will also be retained on work where lascar labour is necessary. It will also be necessary to keep a certain number of marine ratings in reserve up-river, but as railway communication with the main reserve at Basra improves the number necessary for this purpose will be reduced. 102. These figures further shew that there was at that time a considerable reserve of marine ratings in Mesopotamia and we are advised that the marine establishment will not have to be increased beyond what is at present in the country. Men will only be required to replace time-expired men who do not re-engage. In explanation of the fact that the ratings had been brought over to Mesopotamia so much in advance of the vessels, we are advised that marine ratings were sent to Mesopotamia in excess of demands. It is also pointed out to us that there had been abnormal and unforeseen delays in completing vessels and sending them overseas. The excess men had been well employed on necessary work and the resistion had been allowed to stand the position had been allowed to stand. 103. Appendix B (4) shews how the 3,903 marine ratings referred to were employed. The statement shews that 1,300 men are servants of various kinds. It seems a mistake to include such men in marine ratings, and we have suggested that in future they should be kept in a class by themselves, and this is now being done. The position as set out in Appendix B (4) is being gradually adjusted, but a current detail statement of marine ratings employed on shore is not available. The servant ratings have been taken out of the marine establishment and the number of deck and engine room ratings employed on shore has been much reduced. As pointed out in a previous paragraph there will always be legitimate work for a certain number of marine ratings on shore and this with a suitable reserve is now being aimed at. reserve is now being aimed at. We invited the attention of the Director to the number of servant ratings employed in various messes and camps on shore as shown in Appendix B (4). He advised us that this matter was being adjusted.

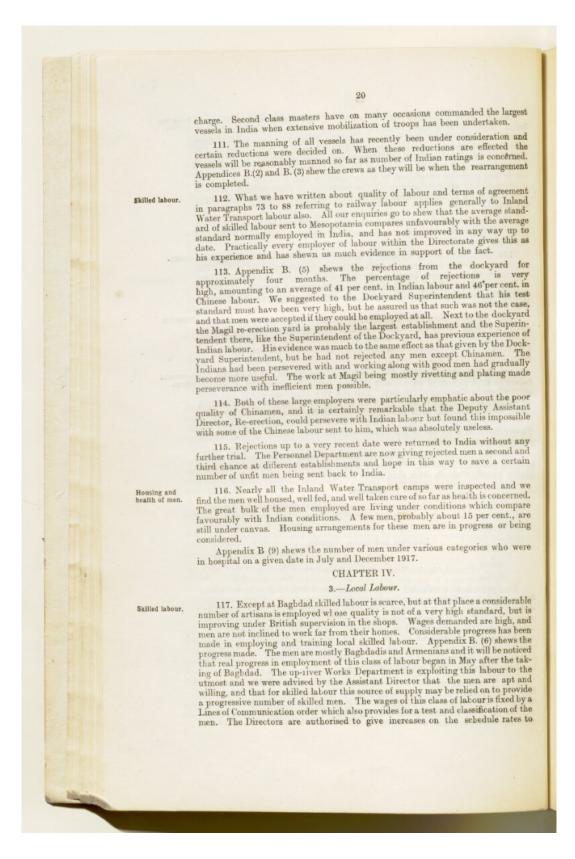


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٥٠٥] (٢٠٤/١٠)



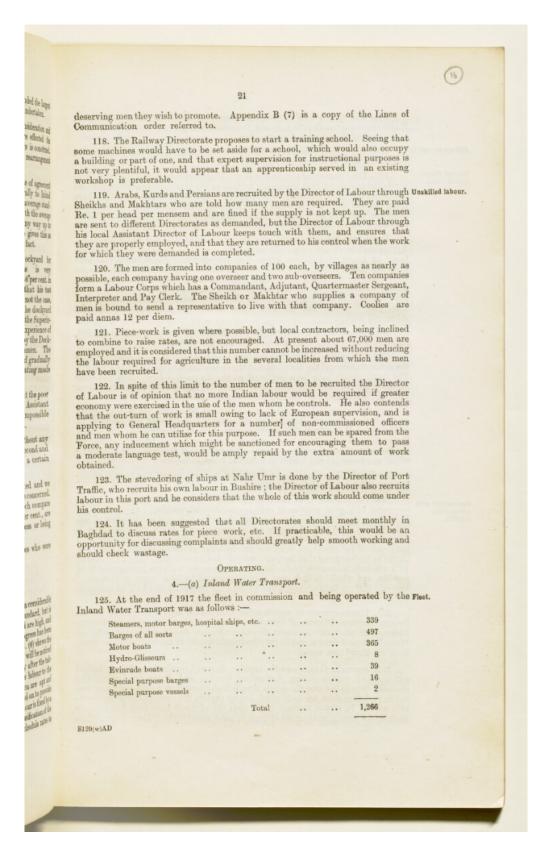


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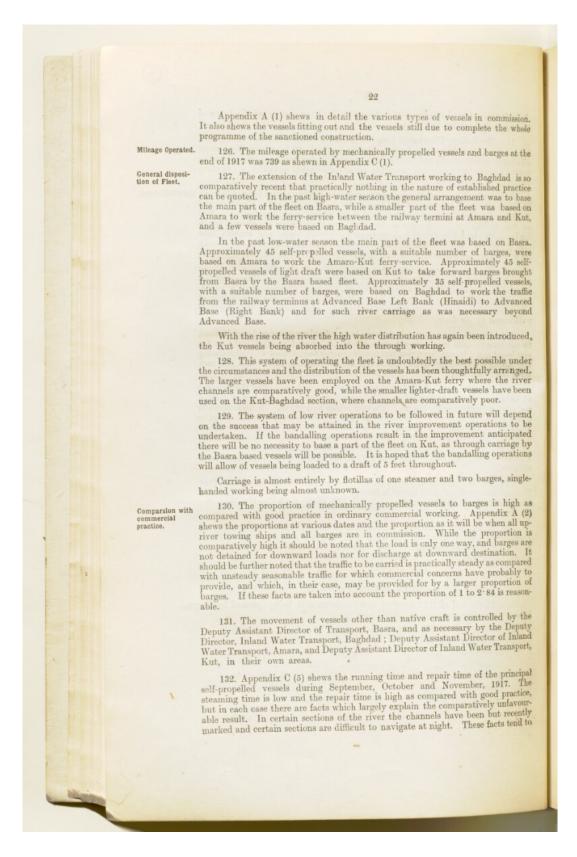


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [17 و] (١١٤/٣١)



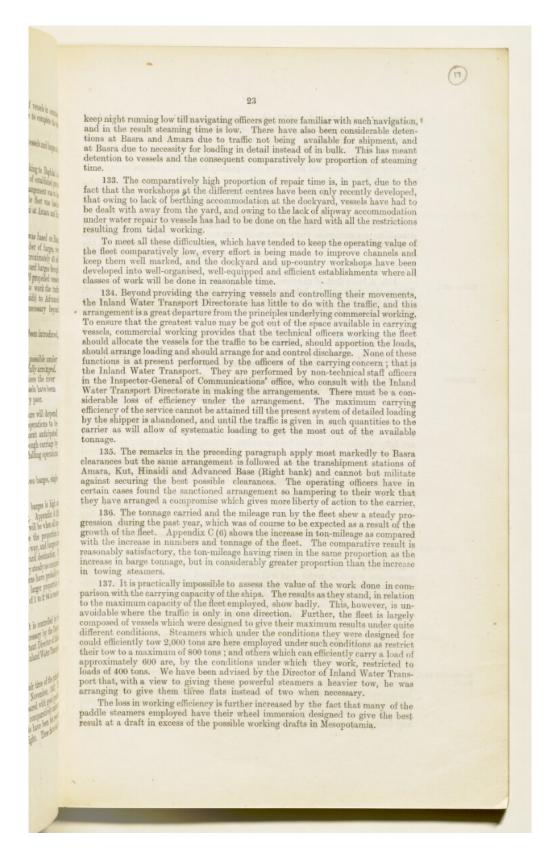


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [174]



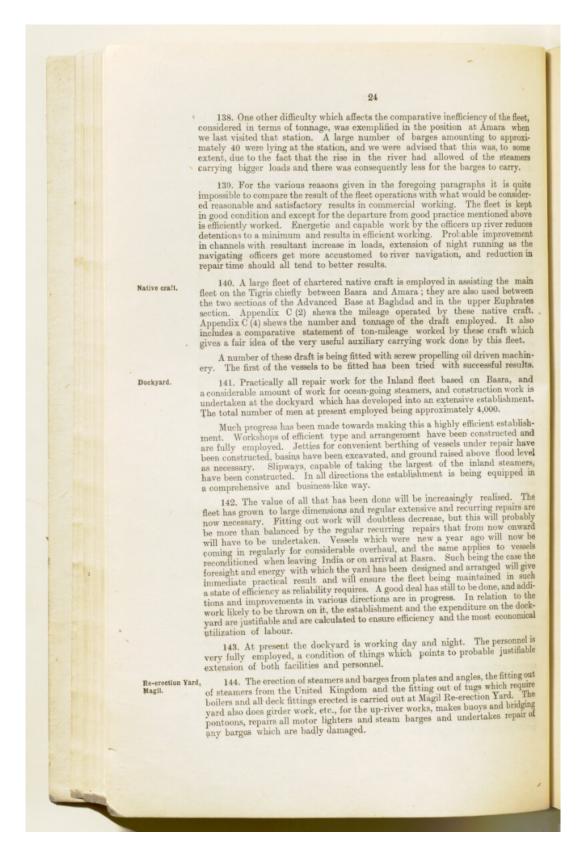


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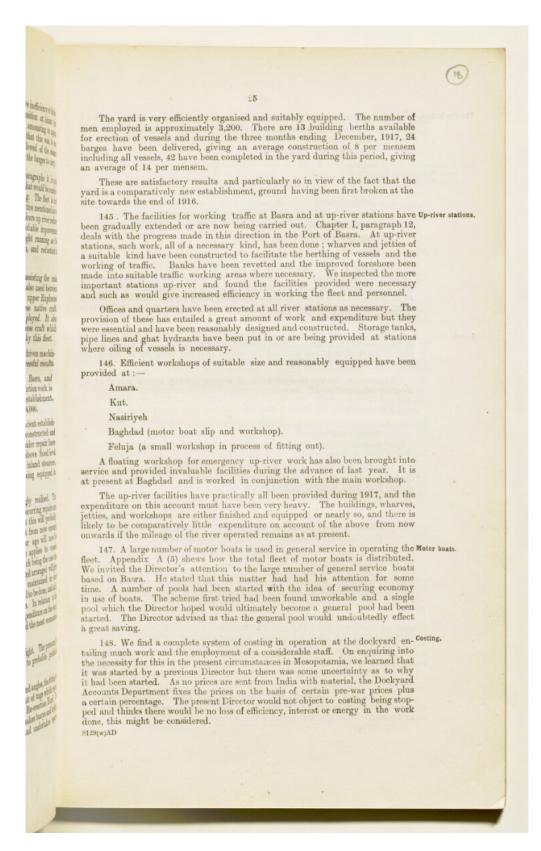


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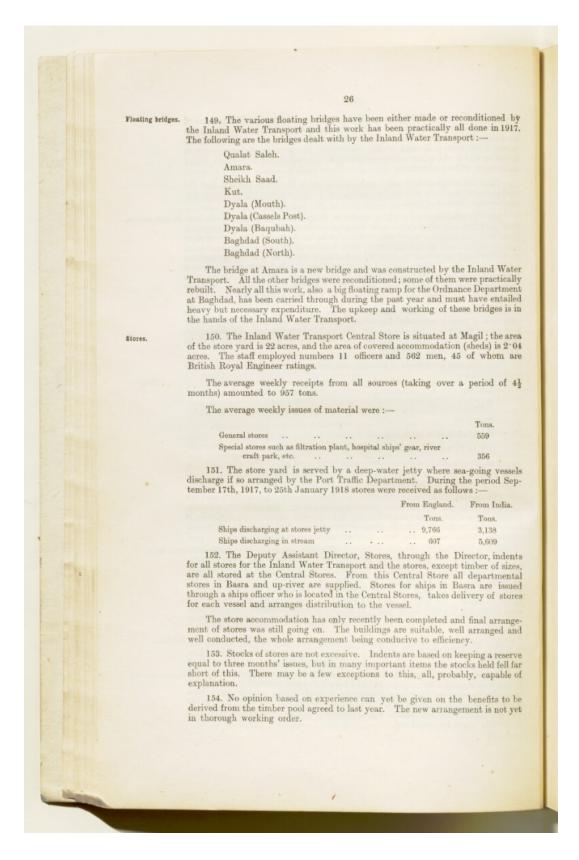


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"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٨٠٨]



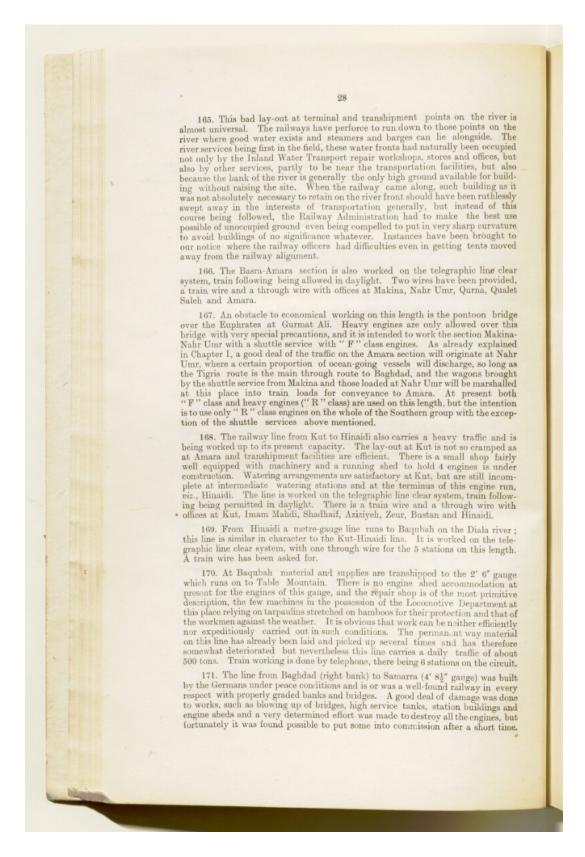


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [18 و] (١١٤/٣٧)

	(R)	
ulitimed to	27	
lone in 1907	155. We visited all up-country stores and in no case were the stocks unreasonable. Where it has been possible to provide suitable stores the buildings were well arranged and well conducted. The store accommodation at Amara and Nasiriyeh was insufficient and poor but in both cases the matter was already having attention.	
	156. We have made enquiry as to when the fleet is likely to be fully commis- Completion of sioned and Appendix A (4) shews the vessels still on order in the United Kingdom building and gives an estimate of probable date of commissioning. These estimates are the best that can be given, but cannot be relied on. With carrying tonnage short, carrying steamers liable to be sunk and voyages under own steam so uncertain, it is futile to put any faith in any estimate however carefully considered, and the date of completion of the fleet programme must be written down as uncertain.	
	(b) Railways,	
I tre	157. A general description of the Railways has been given in Chapter I of this report and it is now proposed to consider them in greater detail.	
nland Water		
e practicaly Department ave entitled	158. The southern group consists of a line from Basra to Nasiriyeh on the Euphrates, the general direction being North-West, and a line from Basra to Amara, the general direction being North.	
bridges is in gil; the area eds) is 2:04 whom see riod of 44	159. The Railway Station for Basra is situated at Makina, about two miles from the river front, the general alignment being parallel to the river. The lines to Nasiriyeh and Amara take out at opposite ends of the station, so that there is a straight run through from Nasiriyeh to Amara. The Locomotive Shops are at Shaiba two stations out (16 miles) on the Nasiriyeh line. Terminal facilities at Makina are still practically non-existent. An engine shed is in course of erection but there are no watering arrangements. Engines have, therefore, still to stable at Magil, where there are service tanks supplied with water pumped direct from the river, but there is no shedding accommodation. The Station Master's office at Makina is a tent, but a building has been sanctioned. There are four loops and five	
	dead-ends for marshalling, together with troop and other special service sidings.	
ons. 59 56 g vessels riod Sep- India.	160. The line to Nasiriyeh is laid on the desert on a location which is believed to be above the flood level of the Euphrates. The gradients therefore are the natural gradients of the desert surface, and in places are steeper than would have been allowed, had the line been surveyed in the first instance and properly graded. Most of these steep gradients can, however, be treated as momentum grades, and, moreover, arrangements are in hand to improve them. There is only one watering station between Basra (Magil) and Nasiriyeh, namely, Ghubashiyeh, where water is brought by an open cut from the Euphrates; engines therefore have a special tank wagon behind the tender. The station arrangements at Nasiriyeh, though far from elaborate, appear to be sufficient for existing traffic.	
ss. 38 609	161. The line is worked on the telegraphic line clear system and the following wires are supplied for railway use: One train wire and one through wire with offices at Makina, Shaiba, Retawi, Luqait, Telallaam and Nasiriyeh. There is only	
r, indents	a very light traffic on this line at present.	
er of sizes, partmental are issuel y of states	162. The line from Makina to Amara is much busier and is in fact being worked up to its present capacity, taking into consideration its physical condition and the number of locomotives available. There are no gradients to speak of, but train loads are limited by the lengths of sidings and the want of proper watering arrangements resulting in frequent engine failures.	
nal arranged and ing a reserve sheld fel for	163. The source of water-supply is the river Tigris, which carries an enormous amount of silt, and it is therefore essential that the water should pass through settling tanks before being used in locomotives, but hitherto these have not been provided, though their construction is in hand. The result of using this water is very apparent in the condition of the locomotives. The provision of adequate water-supply and the lengthening of sidings is being taken in hand.	
capalit s	164. At Amara there is no engine shed and practically no equipment for undertaking running repairs. Supplies and material are here transferred to the river for conveyance to Kut and for this purpose sidings have been laid down to the	
at is not 1st	river. The lay-out leaves, however, much to be desired and a remodelling scheme is under consideration.	



"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [1844]





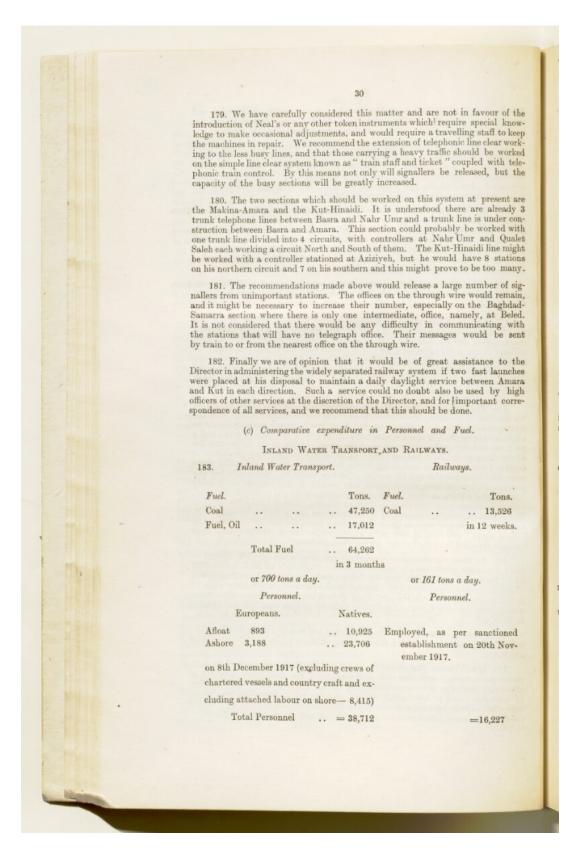
"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٢٠٠] (٣٩/٤١١)

(20 This line is worked on the telegraphic line clear system with a train wire and through wire with offices at Baghdad, Beled and Samarra. A short branch has been built during the last 6 months from Samaichar to Sadiya on the Tigris. points on the ongside. The been occupied 172. A line on the same gauge (4' 8½') has been constructed to Feluja on the Euphrates; it takes out at the opposite end of Baghdad station from the Samarra line, thus making a through run Samarra-Baghdad-Feluja. There is a fairly well equipped round-house at Baghdad, and in addition a small workshop moderately equipped, but with the new mileage to be added on this gauge, extensions to shops and more machinery will become necessary. ties, but also able for builbuilding as it 173. At Shaiba are the main shops for erecting and repairing locomotives and Shops. rolling stock for the metre-gauge lines. They are much too small for the mileage already constructed, and are but poorly supplied with machinery and equipment; for instance, they are still without an overhead crane in the erecting shops; and there are no pits; locomotives under repair have, therefore, to be packed up on to wooden blocks. The question of shops and running shed arrangements has been dealt with more fully in Amendia G (5). stead of the the best us tents more been dealt with more fully in Appendix G (5). nic line dear 174. The main stores for the railway system are also located at Shaiba along-Stores. side the loco shops; they seem fairly well supplied with shedding accommodation, though doubtless more could be utilised if it were available. irna, Quils 175. The stocks held are by no means excessive; in fact, considering the long time that must elapse between demands for, and receipts of, supplies for normal consumption, and the fact that it is impossible to foresee requirements to meet military demands for extensions, we are of opinion that the stocks held might be increased. There are also depôts at Kut and Baghdad, and at both places the stocks held are none too large. Railway Stores have often been short of material and have applied to the other Directorates for assistance, which has been efforcied whenever recessible. toon bride on Makina explained ite at Nihr so long as ns brought marshalled afforded whenever possible. sent both 176. The economical operation of the railways has so far depended mainly on the question of providing locomotive power. The use of muddy water and the inadequate facilities for washing out and doing the necessary running repairs to engines have resulted in many engine failures, reductions in loads of trains and a progressive deterioration of the engines themselves. Owing to the inredequate size of the shops at Shaiba it has not been possible to take in the proper proportion of engines for heavy repairs, and, owing to the wretched equipment, enignes in shops cannot be turned out as quickly as they otherwise would be. The traffic has also grown to such proportions that it has not been possible to stop engines which badly need general repairs, as there are not enough engines on the line to take their places, and such engines have, therefore, to continue running till they fail by the wayside. The engine position is, therefore, a very critical one and is daily becoming worse, and if the additional engines under orders from India do not arrive before the "lame ducks" now running have to be withdrawn from traffic, the amount of daily tonnage expected from the railway will have to be reduced. 176. The economical operation of the railways has so far depended mainly on question of providing locomotive power. The use of muddy water and the the excepamped as op fairly is under ine run, followe with 177. In these circumstances economical operation is not possible, though in other directions conditions are most favourable. Practically all loads are through loads, traffic for intermediate stations being merely supplies and amounting to a negligible quantity compared with the total carried; also wagons are always loaded as full as they will carry and the turn round of stock is excellent, wagons often doing a round trip between Roys and Amera in 24 hours and between Kut and Hincidia. a round trip between Basra and Amara in 24 hours and between Kut and Hinaidi atment at ad that of When the engine position has been improved and certain sidings lengthened to enable longer trains to be hauled the operating efficiency of the railways should be y material therefore c of about 178. It will be seen that except for two short lengths that are worked by telephone the system of operation is that of telegraphic line clear. The difficulty of obtaining signallers to work even the existing mileage is very great, and it is considered advisable to adopt some other system, so as to release signallers for dealing with other railway business and with the ordinary telegraphic work of the country which is very heavy indeed owing to the long time it takes to get replies to letters.

S129(w)AD the circuit. ay in every ge was done midings and engines, but short time



"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٠٠٤ المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين"



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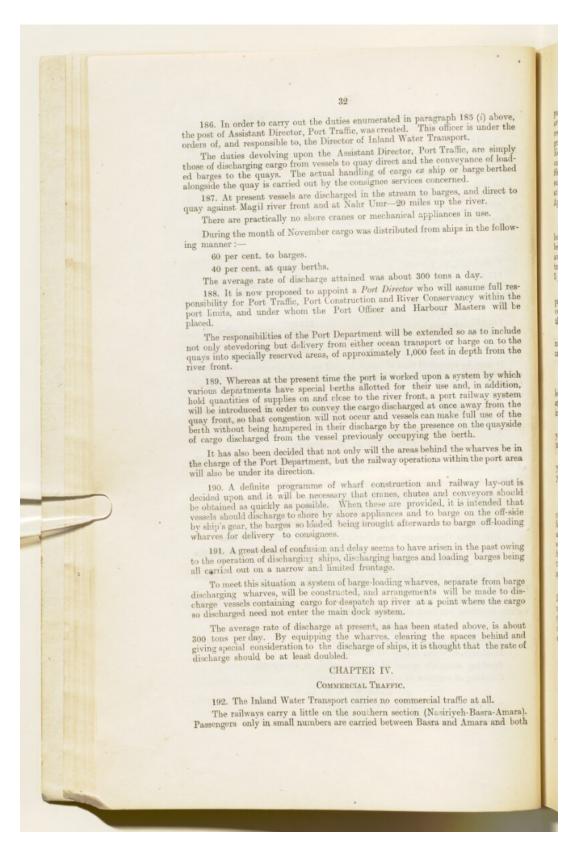


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			(21)
	31		
Inland Water Transport		Pailman	
Ton-Mileage.	•	Railways Ton-Mileage.	
m . 1' a	= 75,598,268	Total for 12 weeks, taking into	
Deduct ton-mileage of native craft at 300 tons a day average for	miles r 132	consideration "loaded" direction only=26,319,479	
miles between Basra and Ama			
Also deduct ton-mileage of chart- vessels at 550,000 a month			
	=1,650,000	or per day 313,327	
	=68,305,068	magazina a katala k	
-mainlate and the	in 3		
,	months.		
	= 742,446	177	
Therefore I. W. T. work		and Railways work	
$\frac{742,446}{700}$ = 1060.6 ton miles		$\frac{313,327}{161}$ =1,946 ton miles	
per ton of fuel expended		per ton of fuel expended	
and		and	
$\frac{742,446}{38,712}$ =19·2 ton miles		$\frac{313,327}{16,227}$ =19·3 ton miles	
per man employed per day.		per man employed per day.	
It may be explained that alth	ough in civil	practice the comparative cost of	
operating river and railway tran former, the low draft of the river 'country.			
If the endeavours to deepen the		iver by bandalling are successful,	
it is probable that a ton-mileage ed an expenditure of 25 per cent. less		low worked will be obtained with	
(d) Port Tra	ffic in Mesoy	potamia.	
184. During the year 1916 a D of "Port Administration and River		s formed at Basra under the title	
This department was charged	with respon	sibility for:—	
(i) The discharge of ocean to veyance of port eraft		quay or port craft and the con-	
(ii) The construction and m	aintenance of	port works.	
(iii) River Conservancy from	a Gurmat Ali	in the north to the sea.	
(iv) The control of movemer area specified in (iii)		nd kindred matters within the	
185. The head of this departm returned to India shortly after the		eorge Buchanan, but this officer the directorate.	
Since that time it has ceased to various functions has been divided	o operate as a as follows:—	whole, and responsibility for its	
(i) Under	r the D. I. V	V. T.	
Discharge of ocean transport			
Discharge of ocean transport		pr. Sant up at Mark	
Berthing alongside quays of	0		
Checking of supplies ex trans			
(ii) Ur	nder the I. 6	i. C.	
Port Construction and River	Conservancy.	Anna a management again.	
Port Officer and Pilots.			

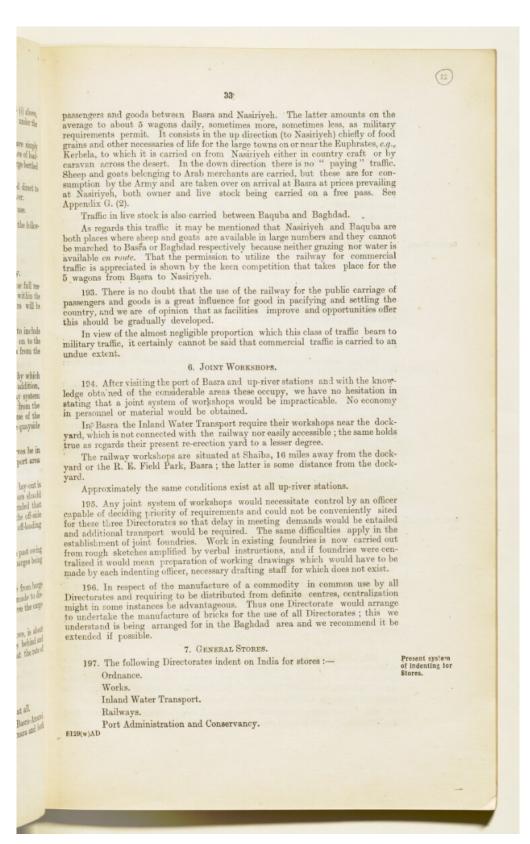


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٢٠٤] (٢٠٤/٤)



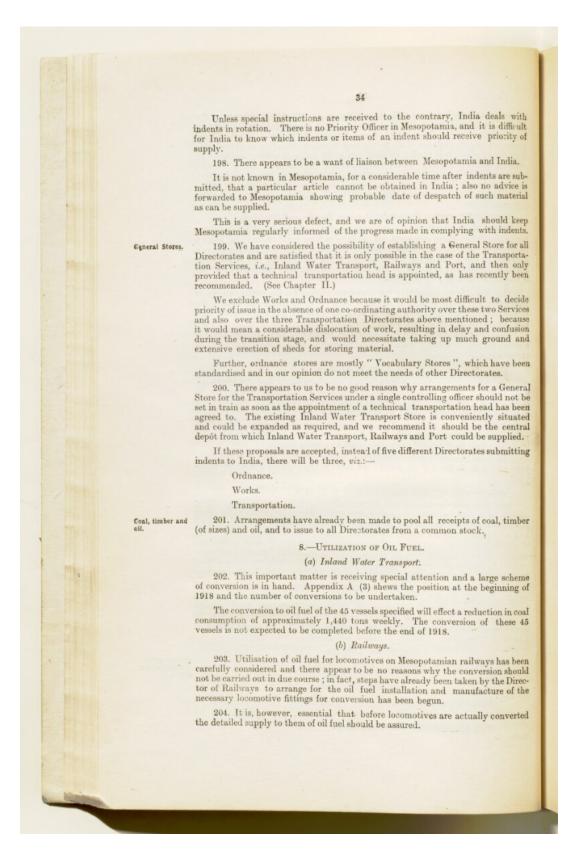


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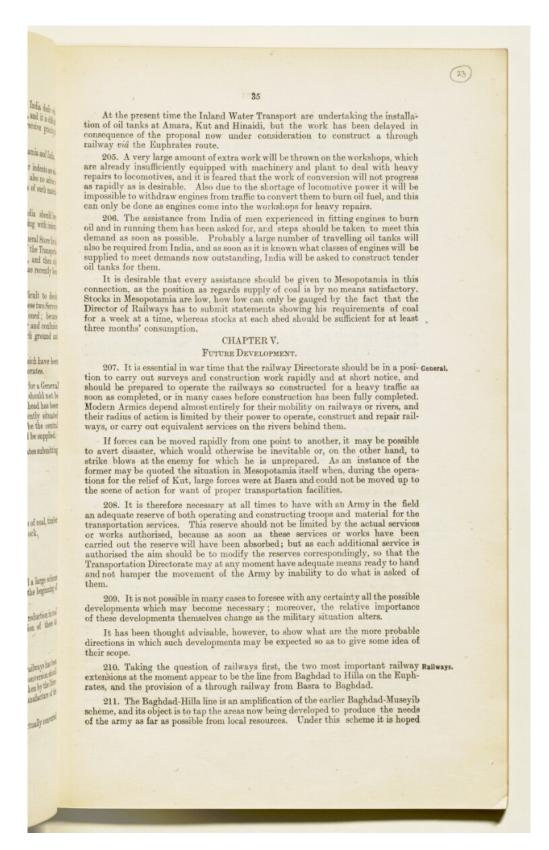


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٢٦ظ] (٤٤/٤١)



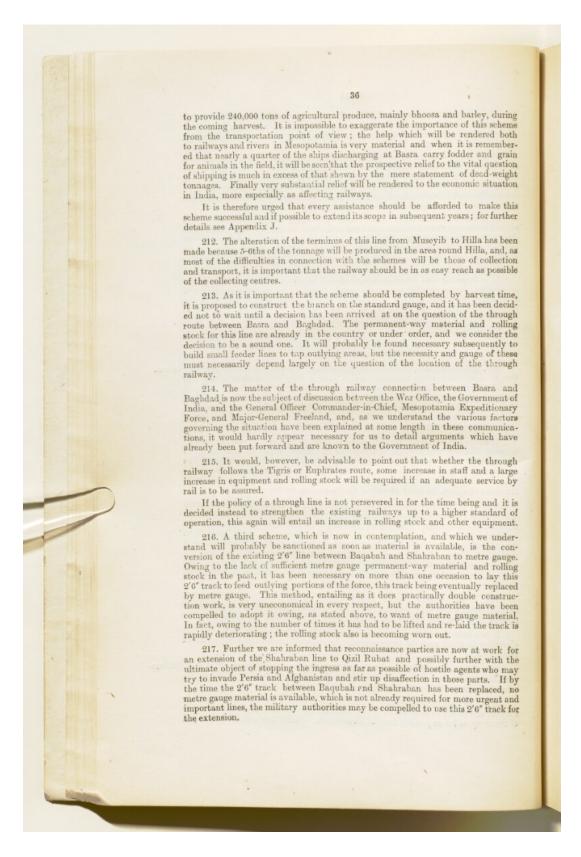


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [77و] (٥٤/٤/١)





"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [74 ط] (7 ٤/٤١)



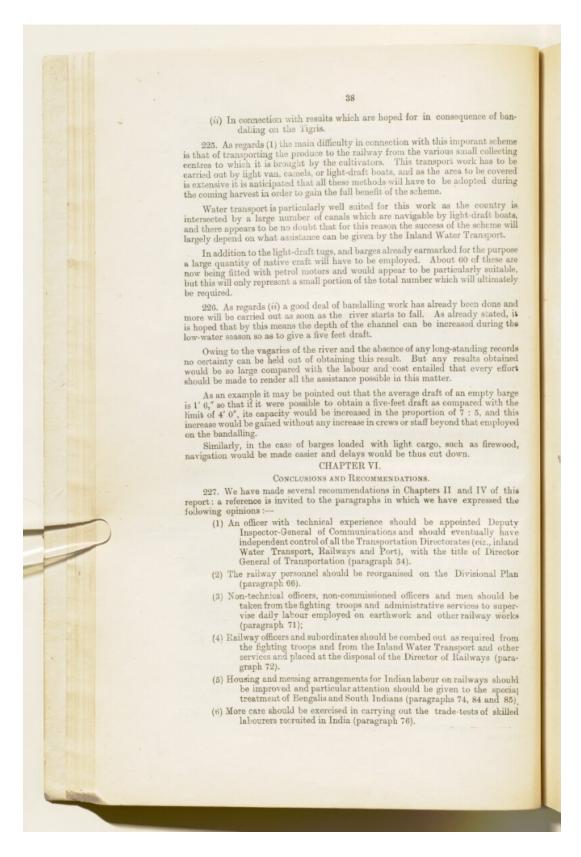


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٤٢و] (١١٤/٤٧)

218. Another important project which is under review at the present moment is the possible extension of the Baghdad-Samarra standard gauge line in the direction of Tekrit. As far as Samarra this line runs on the low-lying ground adjacent to the right bank of the Tigris necessitating high embankments to protect the line in case of floods; near Samarra, however, this low-lying ground narrows to a strip of about 1,500 yards; outside and to the west of this lies a strip of broken ground about 1,000 yards broad which is bounded on the side furthest from the river by a about 1,000 yards broad which is bounded on the side furthest from the river by a plateau. It should not entail any heavy amount of work in development to reach this plateau and once there, no danger from floods need by anticipated and an easy alignment appears feasible as far as Tekrit. A survey of the alignment from Samarra to Tekrit is about to be undertaken. The construction of this line is, of course, dependent on the policy to be adopted in the future, but the actual construction work necessitated to reach the plateau can be carried out in the present situation of the force, and so render all the more easy the subsequent extension of o make this ; for further illa has been filla, and, a the line towards Tekrit if a forward policy is adopted. as possible 219. Amongst minor projects which have been already sanctioned or are in progress, are the extension of the Baghdad-Feluja 4' $8\frac{1}{2}$ " line to Dhibban, a distance of 10 miles, and the building of a metre gauge line from Basra to certain quarries, 23 miles distant. been decid-he through 220. Next in importance to the above developments comes the question of reserve of track to be held to meet an advance or unforeseen contingencies. onsider the The Commander-in-Chief has decided that it is necessary to hold a stock of quently to 50 miles of standard and 50 miles of metre gauge track in reserve through 221. Behind all these in point of priority are certain deferred projects which have been put forward at various times but whose importance at the present moment is not considered such as to justify surveys being made. asra and These include a construction of a line from Mohammerah to Ahwaz, of feeder anment of ditionary lines up from the Tigris towards the Pusht-i-Kuh Hills, with a similar object to that of the extension beyond Qizil-Robat and of a line from Basra to Abadan. as factors The last named has been put forward with a view to avoiding the necessity of bringing oil ships up to Basra; an alternative scheme which at present appears to be more in favour is to lay the pipe-line from Abadan to Basra and so avoid ich have rail haulage altogether. 222. From the above list of actual works which, with the exception of the three last, may all be considered as within the range of probability, it will be seen that the detention of an adequate reserve of staff, equipment and material actually in the country is a necessity if the demands of the Army are to be promptly complied a large rvice by and it is ndard of uipment. 223. The future development of river transport on the Tigris appears to Inland Water depend to some extent on the capacity of the narrows to carry an increasing amount Transport of traffic. The difficulties of navigation in the narrows necessitating the tieing up of ships to allow others to pass them, restrict the number of vessels which can be passed through, and in this respect may be likened to a section of single-line railway in the middle of a double-track system. ve under the contre gauge.
nd rolling
o lay this
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construe. Although the limit of capacity of the river may not yet be in view, there appear to be other good reasons why it is more advisable to develop the railway than to recommend a scheme for the further extension of river transport. For example the heavier comparative expenditure of fuel by vessels, shown in paragraph save been material. he track is 183, appears to point to the desirability of future necessary development being by rail rather than by river. Besides this railway working can be expanded to meet sudden rushes of traffic with greater ease than with inland water transport. er with the Any forward moves also beyond the present position would necessarily have s who may arts. If by to be supplied by rail. 224. There are two directions, however, in which development may be expected in the near future : (i) In connection with the scheme for developing local resources in the Euphrates valley (see Appendix J) and



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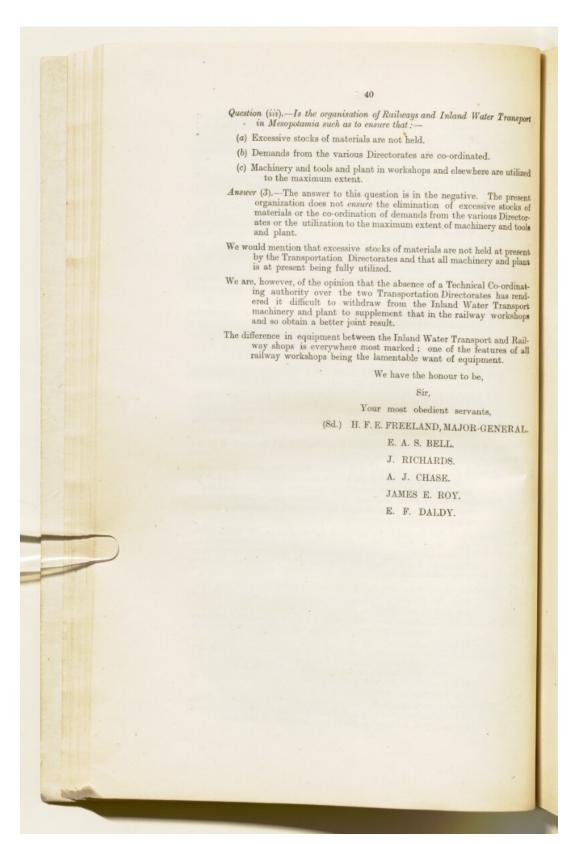


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشوون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٥٠٠] (١١٤/٤٠١)

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ce of ba-	(7) The requirements of Mesopotamia as regards competent skilled workmen should be brought frequently to the notice of all employers in India		
int schene collector	(paragraph 77).		
his to le le covese	(8) Pressure should be brought to bear on Europeans who are reluctant to volunteer for railway services overseas (paragraph 78).		
ed duing	(9) All employés who volunteer for the duration of the war from Indian Railways should be promised special promotion if they rejoin with clean records (paragraph 79).		
country is	(10) The Superintendent of Recruitment should visit Mesopotamia and cer-		
theme vil asport.	tain other measures should be taken to surmount labour difficulties in Mesopotamia (paragraphs 82, 85, 86 and 87).		
ie purpose	(11) European establishment in the Inland Water Transport should be		
these are suitable,	closely scrutinized with a view to the substitution of Indians for Europeans in certain posts (paragraphs 99, 109).		
done and	(12) Sea-going Marine Ratings at present in Mesopotamia should be re- turned to India and more active steps taken to prevent their recruit- ment (paragraphs 104 and 105).		
stated, is uring the	(13) Certificated ratings should, in every case have copies of their certificates (paragraph 108).		
g records	(14) Certain sections of the railway should be worked by telephones and the busy sections should be controlled by telephones and worked on the		
obtained ry effort	Train Staff and Ticket system (paragraph 179). (15) Two fast launches should be placed at the disposal of the Director of		
ty barge with the	Railways to run between Kut and Amara (paragraph 182). (16) India should keep Mesopotamia regularly informed of the progress made		
and this aployed	in complying with indents (paragraph 198). (17) A general store should be established at Basra for all Transportation Services (paragraph 199).		
ewood,	228. Subject to the recommendations just recapitulated our answer to the questions in our terms of reference are as follows:—		
	Question (i).—Are the Railway and Inland Water Transport Directorates in Mesopolamia organised and administered on systems which ensure the		
of this ed the	most economical utilisation of the labour—both skilled and unskilled— supplied to them, consistent with efficiency and military consider- ations? If not, what changes in organisation and administration		
eputy	are recommended?		7
have	Answer (1).—We recommend a change in Administration, viz., the appoint-		
inland irector	ment of an officer with technical Transportation experience to a position in which he can co-ordinate the work of the Inland Water Transport, Railway and Port Directorates and thus ensure the most		
al Plan	economical utilization of labour. We also recommend a change in the organisation of the Mesopotamian Rail-		
ould be	ways, viz., the substitution of a purely Divisional Plan in the place of		
saper-	the present organisation. Question (ii).—Is Mesopotamia receiving its due share of personnel consistent with the claims of railways, shipping, and manufacturing interests		
ed from	in India?		
d other	Answer (2).—We have assumed that "the claims of railways, shipping and		
(bata-	manufacturing interests" means "such of the railway, shipping and manufacturing interests as are essential to the proper prosecution of the war," and the claims of Mesopotamia and other theatres of		
sheal	war have priority over all other claims.		
nd 85). skilled	With regard to numbers, Mesopotamia has no ground for complaint. India is doing its best to supply in full the demands of Mesopotamia; but the quality of some categories of personnel can be improved.		
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"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٥٠ ظ] (٠٠/٤ ١٠)



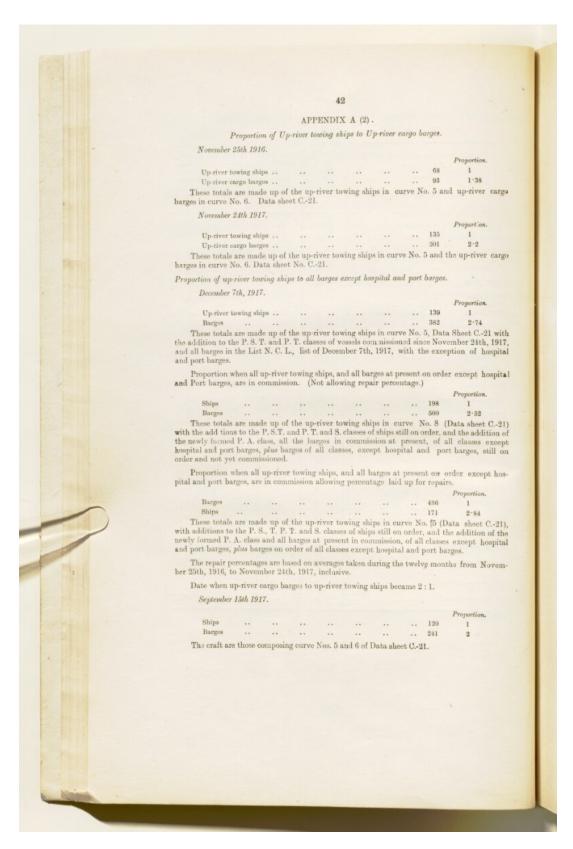


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشوون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [77و] (10/11)

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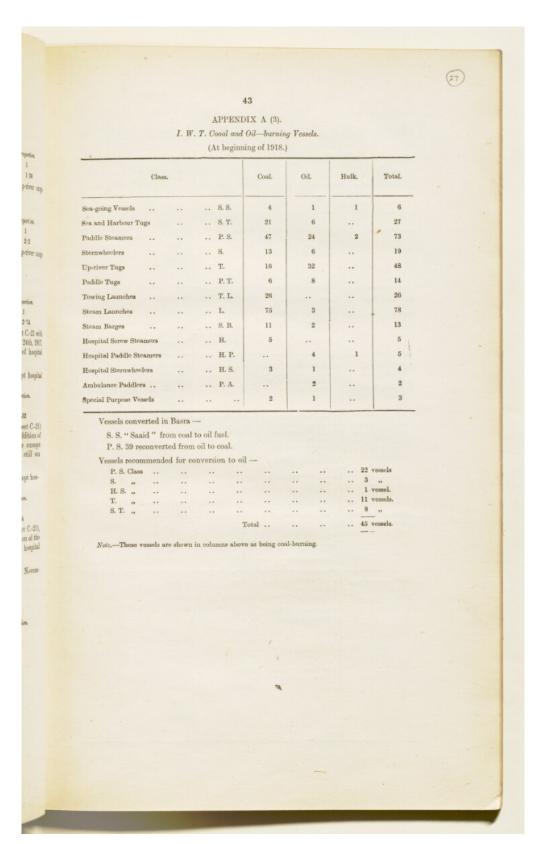


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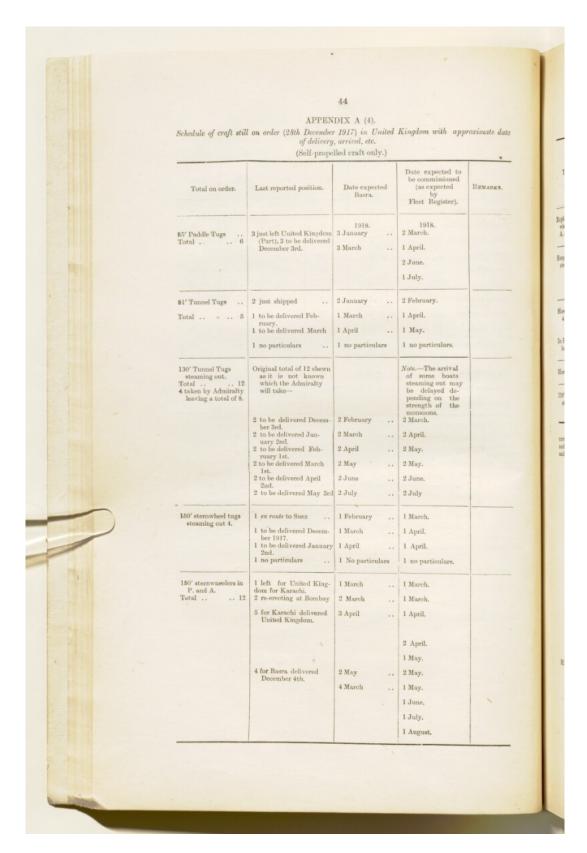


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"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٨٨و] (٥٥/٤١٠)

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In P. and A. for Bombay 3. Hospital motorship 1 En route to Suez February March. Note.—The dates of expectation given above are fixed on the assumption that vessels or parts of vessels carried on transports from the United Kingdom take a period of one to two months to reach their destination; and that vessels coming from the United Kingdom under their own power take a period of between two and three months to reach Basra. Much longer times have been coepied, e.g.— P. T 13 Left Malta 21st April 1917 Arrived Basra 14th October 1917. P. T 46 Left U. K July 1916 Not yet in services. P. T 48 July 1916 Not yet in services. P. T 48 July 1916		ber 1st.			att Indone	
Rospital motorship 1 En route to Suez February Statistics February February February February	In P. and A. for Bom- bay 3.	2 to be delivered	2 May	2 May.		
Note.—The dates of expectation given above are fixed on the assumption that vessels or parts of vessels carried on transports from the United Kingdom take a period of one to two months to reach their destination; and that vessels coming from the United Kingdom under their own power take a period of between two and three months to reach Basra. Much longer times have been occupied, e.g.— P. T 13 Left Maita . 21st April 1917 . Arrived Basra . 14th October 1917. P. T 3 Arrived Aden . 6th June 1917 . " . 14th October 1917. P. T 46 Left U. K July 1916 . Not yet in service. P. T 47 " . July 1916 . " " P. T 48 " . July 1916 . " " Dredger "Quorrah" arrived Dakar, 10th May 1917. Not yet arrived. H. M. 3. En route to Gibraltar 31st August 1917. Left Suez, 20th October 1917. Refrigerator Barge R. B. 7 left Bizerta, 29th July 1917 only arrived Aden, 7th October 1917. Filtration Barge F. B. 2. Arrived Gibraltar, 27th May 1917. No further report. S129(w)AD	Hamital motorship 1	En roude to Suez	February	March.		
steaming out 1. Note.—The dates of expectation given above are fixed on the assumption that vessels or parts of vessels carried on transports from the United Kingdom take a period of one to two months to reach their destination; and that vessels coming from the United Kingdom under their own power take a period of between two and three months to reach Basra. Much longer times have been occupied, e.g.— P. T 13 Left Malta	Hospital motorship 1					
and that vessels coming from the United Kingdom under their own power take a period of between two and three months to reach Basra. Much longer times have been occupied, e.g.— P. T 13 Left Malta	110' paddle tug steaming out 1.	En roule to Suez	February	February.		
Filtration Barge F. B. 4. Arrived Gibraltar, 27th May 1917. No further report. S129(w)AD	and that vessels comin and three months to re	rom the United Kingdom taking from the United Kingdom each Basra. Much longer ti	m under their own pe mes have been occupi	ower take a period o	f between two 14th October	
S129(w)AD	carried on transports t and that vessels comin and three months to r P. T 13 Le P. T	rque the United Kingdon can from the United Kingdon cach Basra. Much longer ti ft Malta	a under their own p mes have been occupi at April 1917 A n June 1917 ly 1916 ly 1916 ly 1916 ly 1917 . Not yet arr 1017 . Left Suez, 20th July 1917; only arrive	over take a period o ed, e.g.— Arrived Basra Not yet in service. " " ived. October 1917. ed Aden, 7th October 18	f between two l4th October 1917. l4th October 1917.	
S129(w)AD	carried on transports t and that vessels comin and three months to r P. T 13 Le P. T	rque the United Kingdon can from the United Kingdon cach Basra. Much longer ti fit Malta	an under their own pumes have been occupied April 1917 An June 1917	Not yet in service. "" It will be the service of the service of the service.	f between two l4th October 1917. l4th October 1917.	
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	carried on transports t and that vessels comin and three months to r P. T 13 Le P. T	rque the United Kingdon can from the United Kingdon cach Basra. Much longer ti fit Malta	an under their own pumes have been occupied April 1917 An June 1917	over take a period o ed, e.g.— Arrived Basra Vot yet in service. " " " " " " " " " " " " " " " " " "	f between two l4th October 1917. l4th October 1917.	
	carried on transports t and that vessels comin and three months to r P. T 13 Le P. T	rque the United Kingdon can from the United Kingdon cach Basra. Much longer ti fit Malta	an under their own pumes have been occupied April 1917 An June 1917	over take a period o ed, e.g.— Arrived Basra Vot yet in service. " " " " " " " " " " " " " " " " " "	f between two l4th October 1917. l4th October 1917.	
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	carried on transports t and that vessels comin and three months to re P. T 13 Le P. T 46 Le P. T 47 " P. T 48 " Dredger " Quorre H. M. 3. En route Refrigerator Barg Filtration Barge	rque the United Kingdon can from the United Kingdon cach Basra. Much longer ti fit Malta	an under their own pumes have been occupied April 1917 An June 1917	over take a period o ed, e.g.— Arrived Basra Vot yet in service. " " " " " " " " " " " " " " " " " "	f between two l4th October 1917. l4th October 1917.	
	carried on transports t and that vessels comin and three months to re P. T 13 Le P. T 46 Le P. T 47 " P. T 48 " Dredger " Quorre H. M. 3. En route Refrigerator Barg Filtration Barge	rque the United Kingdon can from the United Kingdon cach Basra. Much longer ti fit Malta	an under their own pumes have been occupied April 1917 An June 1917	over take a period o ed, e.g.— Arrived Basra Vot yet in service. " " " " " " " " " " " " " " " " " "	f between two l4th October 1917. l4th October 1917.	
	carried on transports t and that vessels comin and three months to r P. T 13 Le P. T	rque the United Kingdon can from the United Kingdon cach Basra. Much longer ti fit Malta	an under their own pumes have been occupied April 1917 An June 1917	over take a period o ed, e.g.— Arrived Basra Vot yet in service. " " " " " " " " " " " " " " " " " "	f between two l4th October 1917. l4th October 1917.	
	carried on transports t and that vessels comin and three months to r P. T 13 Le P. T	rque the United Kingdon can from the United Kingdon cach Basra. Much longer ti fit Malta	an under their own pumes have been occupied April 1917 An June 1917	over take a period o ed, e.g.— Arrived Basra Vot yet in service. " " " " " " " " " " " " " " " " " "	f between two l4th October 1917. l4th October 1917.	
	carried on transports t and that vessels comin and three months to r P. T 13 Le P. T	rque the United Kingdon can from the United Kingdon cach Basra. Much longer ti fit Malta	an under their own pumes have been occupied April 1917 An June 1917	over take a period o ed, e.g.— Arrived Basra Vot yet in service. " " " " " " " " " " " " " " " " " "	f between two l4th October 1917. l4th October 1917.	
	carried on transports t and that vessels comin and three months to r P. T 13 Le P. T	rque the United Kingdon can from the United Kingdon cach Basra. Much longer ti fit Malta	an under their own pumes have been occupied April 1917 An June 1917	over take a period o ed, e.g.— Arrived Basra Vot yet in service. " " " " " " " " " " " " " " " " " "	f between two l4th October 1917. l4th October 1917.	

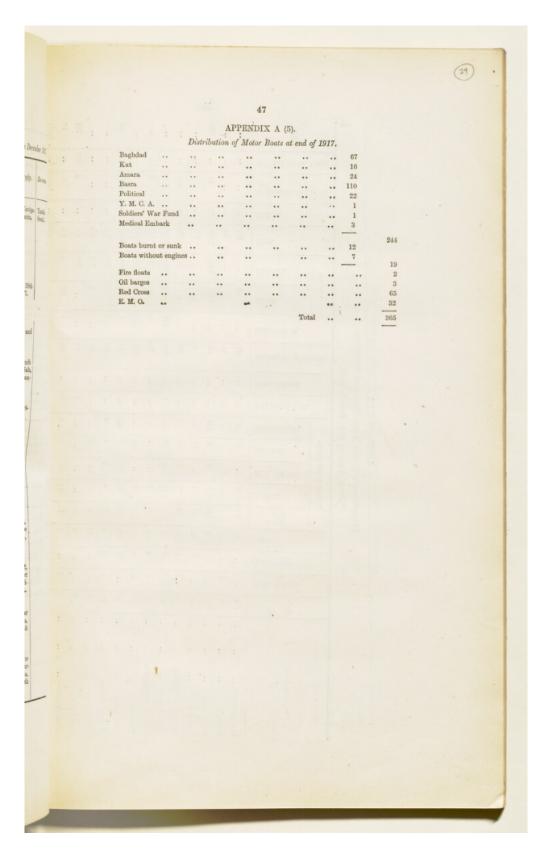


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٨٢٨]

			46		
		APPENDIX A	(4) Supplementa	RY.	
		Craft on	order in India.	141.70	
			1	14th Decen	iber 1917.
Class.	No.	Designation letters and services Nos.	Leading dimensions.	Source of supply.	En route.
Paddle Steamers	2	Taraki Swati P.S90.	245'×36'×9'6".	River Steam Naviga- tion Co., Calcutta.	Taraki Swati.
Tugs	Nil	*		Nil.	
Towing Launches	Nil			Nil.	12
Steam Launches pinnaces.	12	Number not yet given.	35'×8'×6'—0"	Order placed 19th September 1917.	
2	Vote:—I	This total has been canc	celled to 2. (29th De	cember 1917-)	
Hospital Motorships	2	H. M. 5 and H. M. 6.	160'×30'×6'—0"	Building at Burn and Co., Calcutta.	
Motor Launches	10			1 Dacca Gift Launch Kapurthala, Punjab, 1st and 2nd Gujran-	
				walla. Patiala No. 13. 4 Red X Motor Launches constructing at Calcutta.	
River or Port Barges as may be decided for each vessel.	4	175, 661, 662, 663	150′—0″		
	9	641, 642, 643, 644, 645, 646, 647, 648, 649.	125′0″	Building in India.	
Composite	9	650, 652, 654, 655, 656, 657, 658, 659, 660.	125′—0″.		
Port Barges	76	204 to 205, 214, 217—234, 248—286 288, 289—299,	50'-0"	Telegram No. 1567, dated the 27th June 1917, to Hablistas, India,	
Terminal Pontoons.	3	Similar to those supplied to Kotah State,		Telegram No. 692, dated 17th October 1917, from Muni- tions Board, Simla.	
Oil Bargos	6 3 3	0—20 to 25 0—26 to 28. Reserved.	160′—0″	Telegram from War Section, Simla, No. 75199 of 5th December 1917.	
Tigris and Euphrates road bridge pon- toons,	110		30'×12'×4"	Telegram from the General Head Quar- ters to Simla, No. 0-704 of 8th November 1917.	

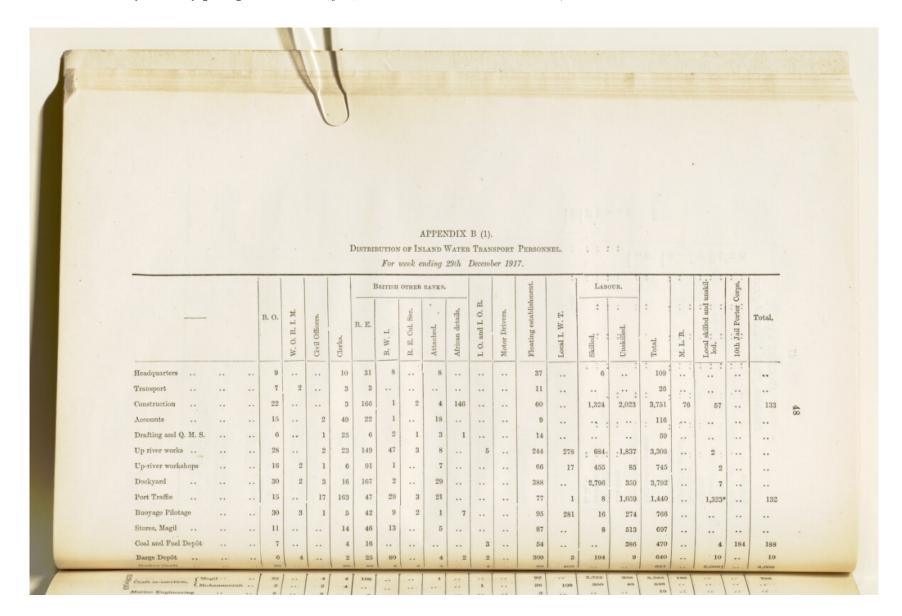


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [79 و] (٢٥/٤ ١١)



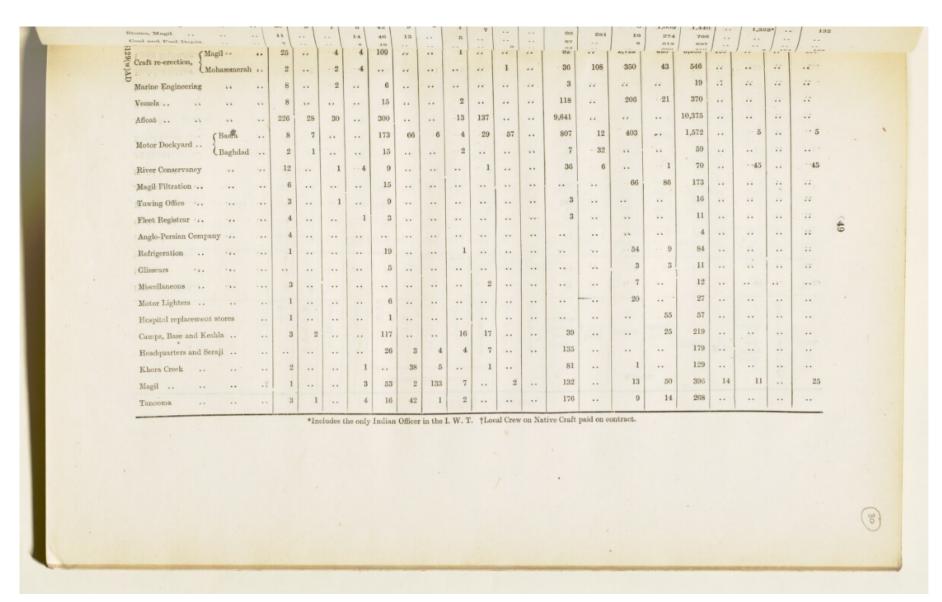


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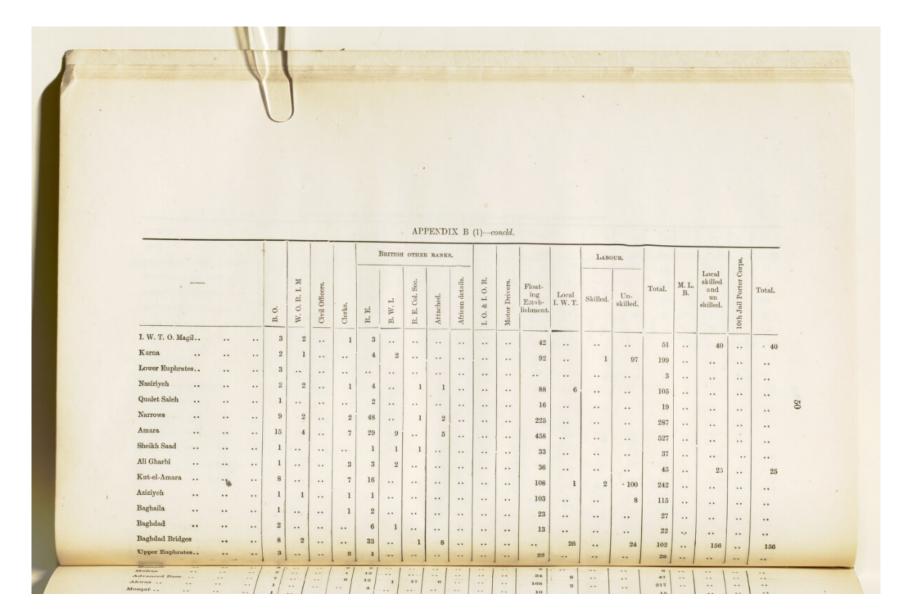


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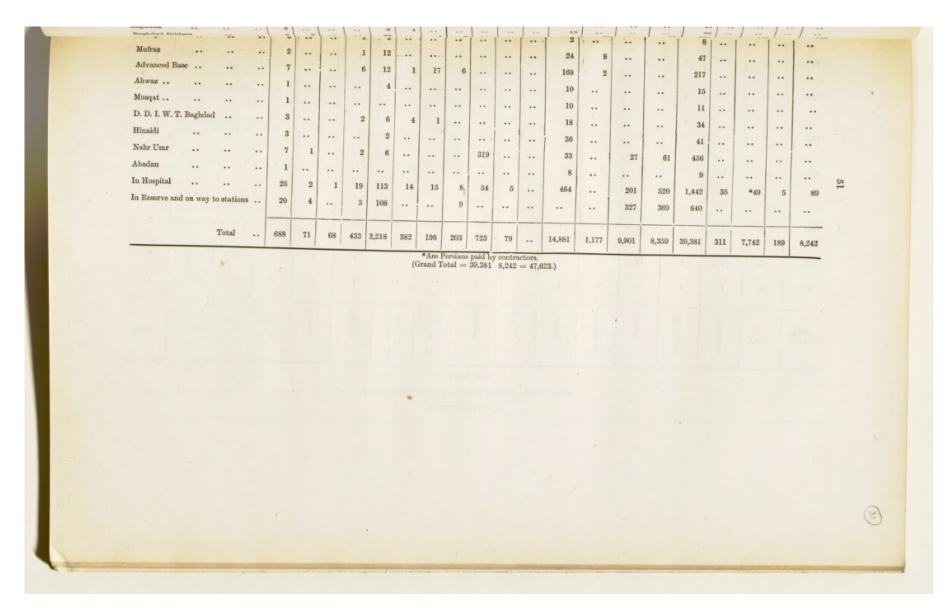


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٣٠٠] (٢٠٤/٦٠)



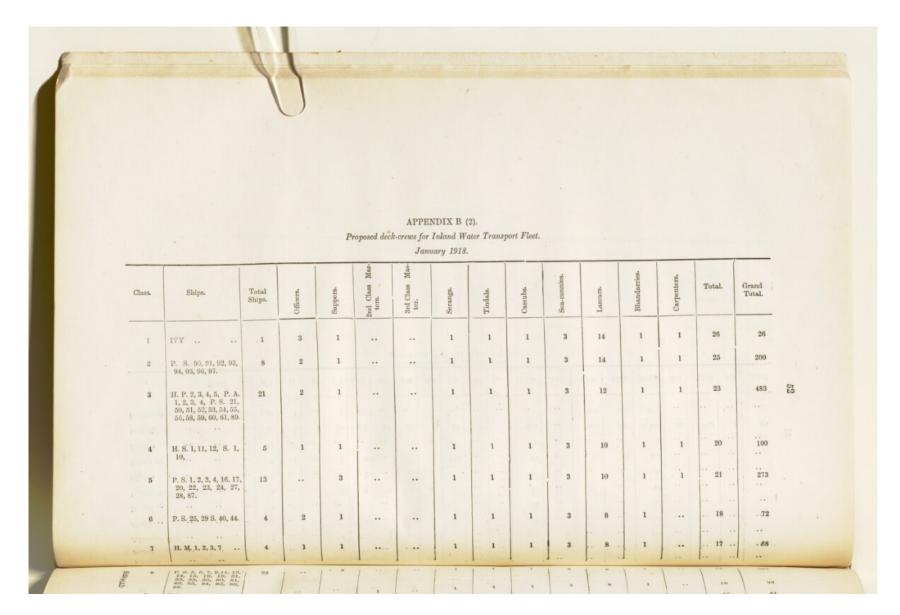


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"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٣٠١] (٢٠/١١)



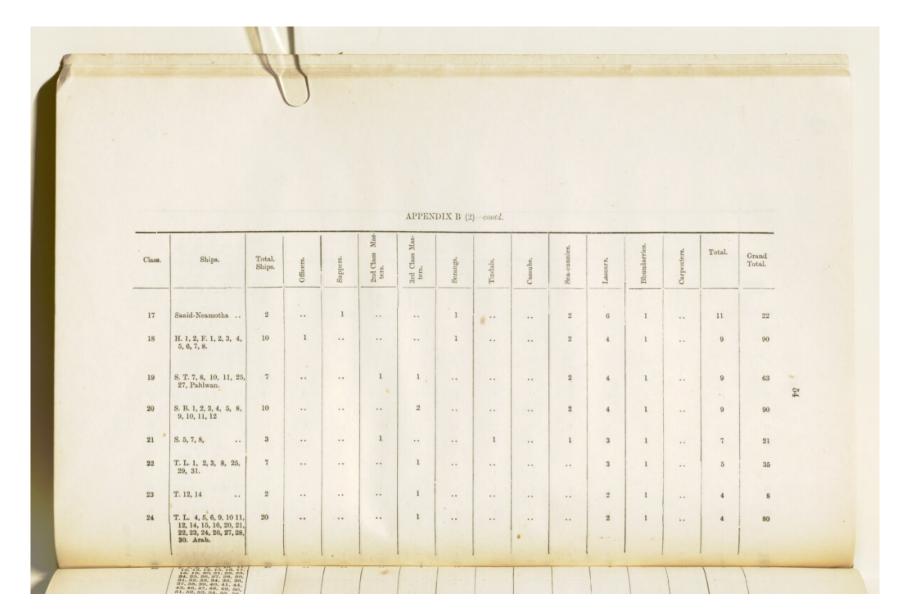


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	22	8	P. S. 5, 6, 7, 9,11, 12,	22		. 3	1		1	1	1	3	8	1	 18	396	
	S129(w)AD		14, 15, 18, 19, 31, 32, 33, 35, 80, 81, 82, 83, 84, 85, 86,											•			
	0	9	P. S. 34 H. P. 1	2	**.		1	1.	1	1	1	3	8	1	 16	32	
		10	P. S. 26 H. S. 58	3			1	1	1	1	1	3	8	1	 17	51	
		11	P. S. 36, 37, 38, 39	5		2			- 1	1	1	3	7	1	 16	80	
		12	S. 2. Kalika	1	94	-2.	1	- 1	1	1	1	3	.7	. 1	 16	16	
		13	S. 3, S. V. 1	2	1	1			1		**	2	6	1	 12	24	
		14	S. 30, 31, 32, S. 9	4		- 1	**		1		77.	2 2	6	1	 11	22	
		15 16	P. S. 13, S. 4 T. 1, 2, 3, 4, 5, 6, 7,	2 104	***	**	1	1	1		**	2	6	1	 12	1,248	OT CO
			8, 9, 10, 11, 13, 15, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 36, 37, 38, 39, 63,								1						
			64, 66, 67, 68, 70, 71, 74, 76, 77, 79, 82, 86, 87, S. T. 1, 2, 3, 4, 5,														
			9, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 26, 28, S. B. 6, 7, M. L. 1, 2, 3, 4, 5, 6,					1.							71		
			9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20,		8				1 9								
			P. S. 8, 10, 48, 49, P. T. 5, 8, 12, 13, 14, 15, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, S. T. 6.		7												
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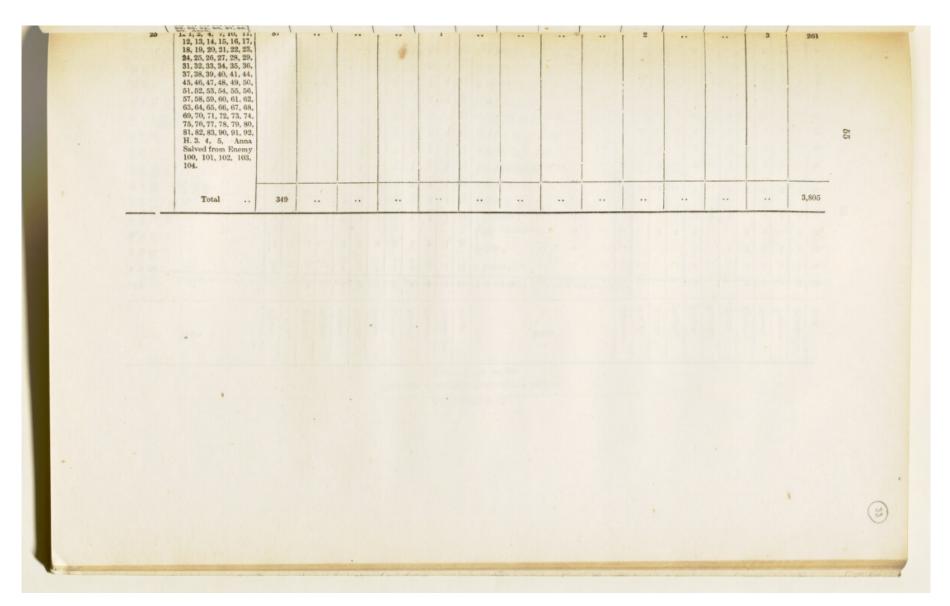


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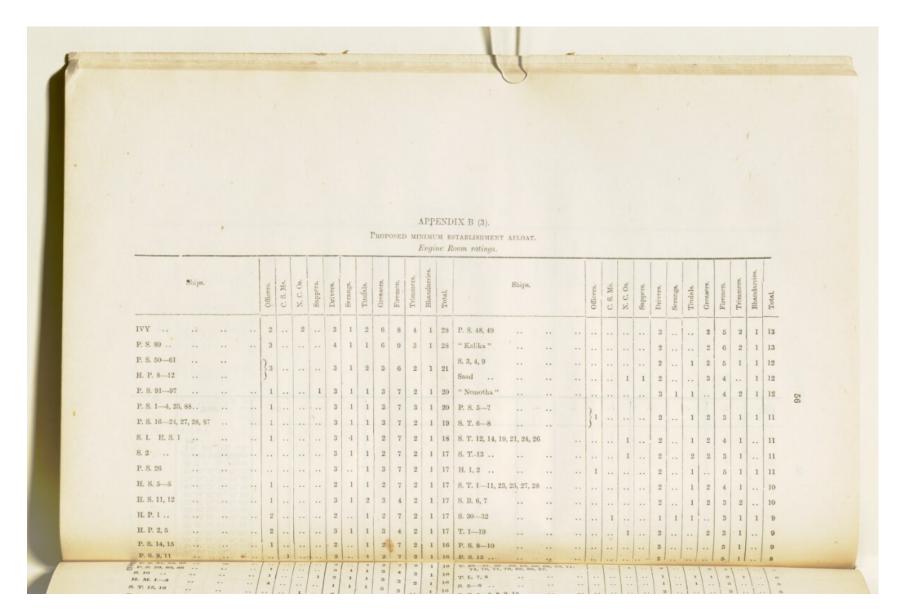


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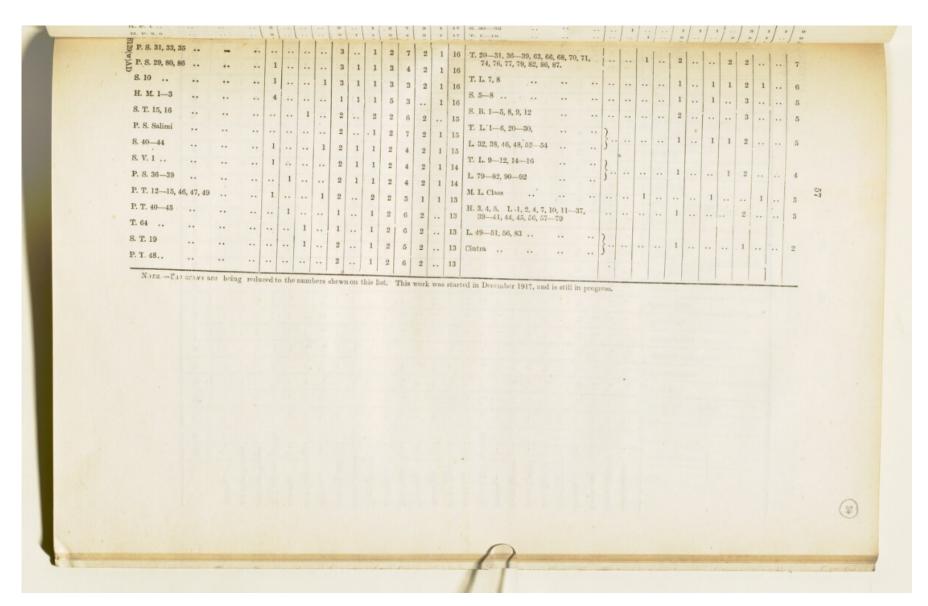


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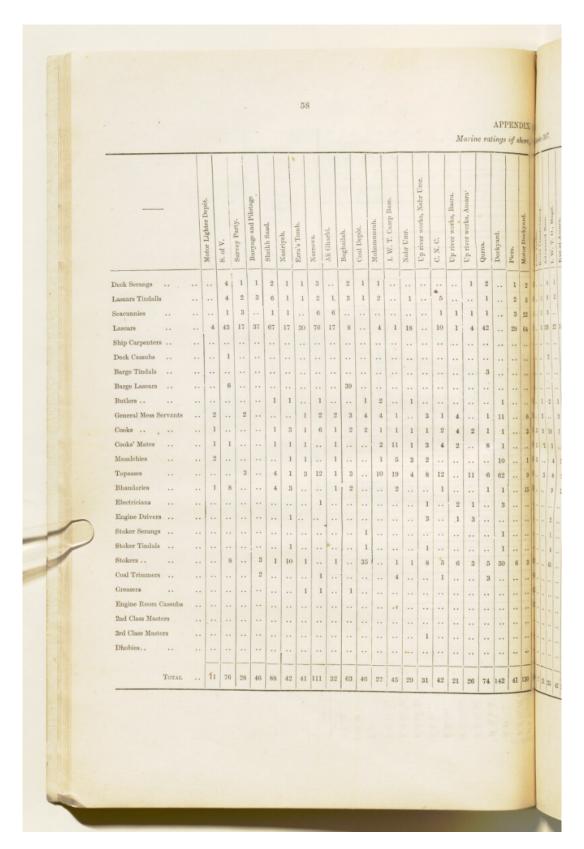


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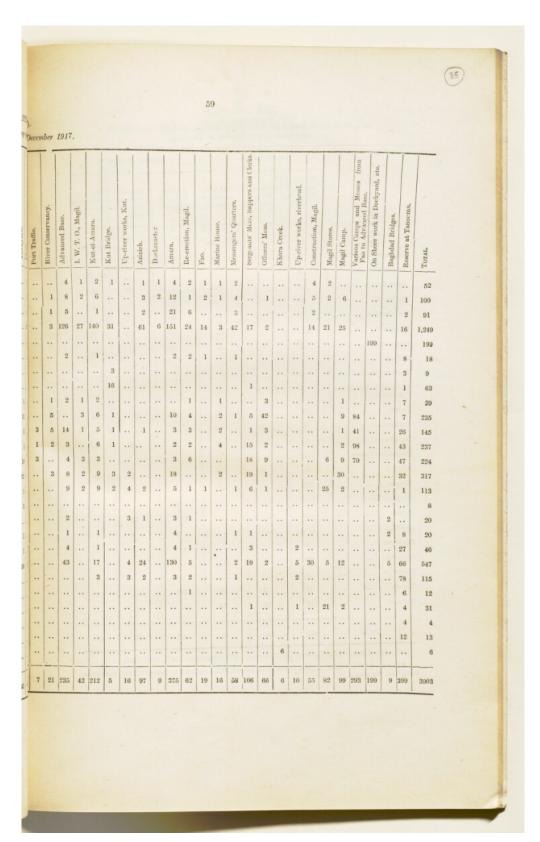


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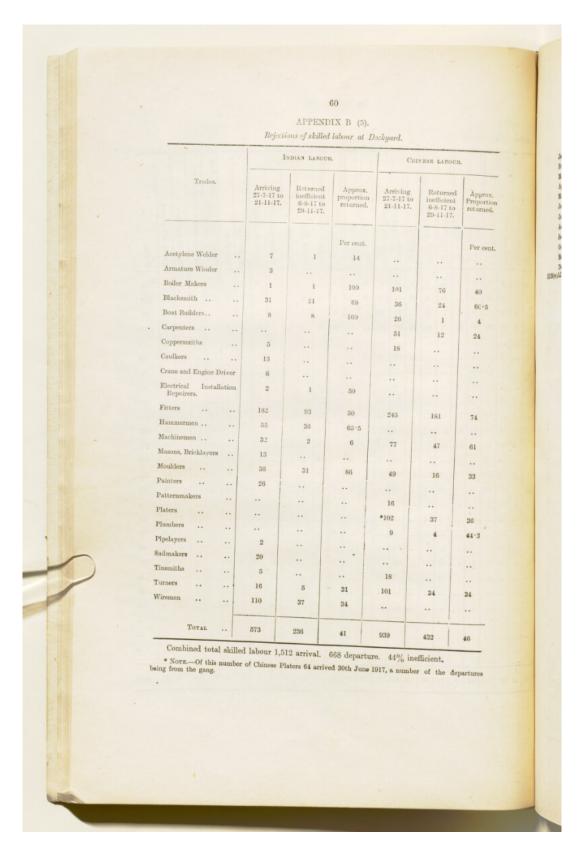


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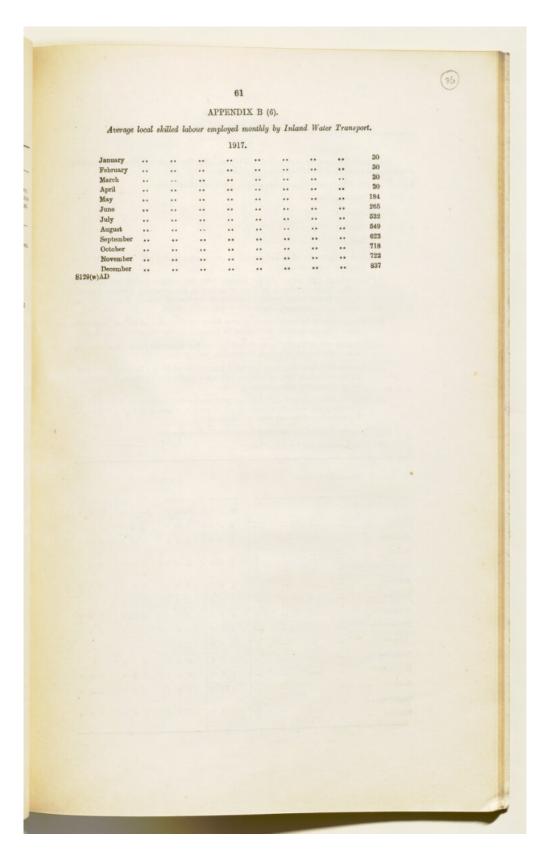


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"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٣٠و] (١١٤/٧١)





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	27.070	is of Lines of	Commun		Orders No.	598, aatea 4	th December	1917.	
	898 The f	ollääring mitt	in on meldina		Labour.				
	contract, are p	ublished for	informatio	on and	guidance :-	ner than imp	orted labou	r under specia	.1
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		y superior.							
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	(d) Paym	ents will or	dinarily b	e made	nust be furni	but in ana	cial cases w	t concerned.	
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2	Fitters				Rs. A. P.	New Ra	Rs. A. P.		
2	Fitters Machinists Drivers	as of Employm	ent.		Rs. A. P.	New Ro	Rs. A. P. 2 8 0 1 12 0	3 0 0 2 0 0	
2	Fitters	as of Employm		}	Ra. a. r. 1 8 0 1 4 0	Rs. A. P. 2 0 0 1 8 0 2 0 0	Rs. A. P.	3 0 0	
>	Fitters Machinists Drivers Oil, Engine Drivers	as of Employm	ent.		Ra. A. P. 1 8 0 1 4 0 1 8 0 2 0 0	Rs. A. P. 2 0 0 1 8 0 2 0 0 2 8 0	Rs. A. P. 2 8 0 1 12 0 2 8 0 3 0 0	3 0 0 2 0 0	
	Fitters Machinists Drivers Oil, Engine Drivers Moulders	as of Employm			Ra. A. F. 1 8 0 1 4 0 1 8 0 2 0 0 2 0 0	Rs. A. P. 2 0 0 1 8 0 2 0 0 2 8 0 2 8 0	Rs. A. P. 2 8 0 1 12 0 2 8 0 3 0 0 3 0 0	3 0 0 2 0 0 3 0 0	
	Fitters Machinists Drivers Oil, Engine Drivers Moulders Wiremen	as of Employm	ent.		Ra. a. r. 1 8 0 1 4 0 1 8 0 2 0 0 2 0 0 1 8 0	Rs. A. P. 2 0 0 1 8 0 2 0 0 2 8 0 2 8 0 2 0 0	Rs. A. P. 2 8 0 1 12 0 2 8 0 3 0 0 3 0 0 2 8 0	3 0 0 2 0 0 3 0 0 3 0 0	
	Fitters Machinists Drivers Oil, Engine Drivers Moulders Wiremen Blacksmiths	as of Employm	ent.		Ra. a. r. 1 8 0 1 4 0 1 8 0 2 0 0 2 0 0 1 8 0	Rs. A. P. 2 0 0 1 8 0 2 0 0 2 8 0 2 8 0 2 0 0	Rs. A. P. 2 8 0 1 12 0 2 8 0 3 0 0 3 0 0	3 0 0 2 0 0 3 0 0 3 8 0 3 0 0	
	Fitters Machinists Drivers Oil, Engine Drivers Moulders Wiremen Blacksmiths Boilermakers	as of Employm			Ra. A. P. 1 8 0 1 4 0 1 8 0 2 0 0 2 0 0 1 8 0 1 8 0	Rs. A. P. 2 0 0 1 8 0 2 0 0 2 8 0 2 8 0 2 0 0	Rs. A. P. 2 8 0 1 12 0 2 8 0 3 0 0 3 0 0 2 8 0 2 8 0	3 0 0 2 0 0 3 0 0 3 0 0 3 0 0	
	Fitters Machinists Drivers Oil, Engine Drivers Moulders Wiremen Blacksmiths Bollermakers tackers Tinsmiths Coppersmiths	as of Employm			Ra. A. r. 1 8 0 1 4 0 1 8 0 2 0 0 2 0 0 1 8 0 1 8 0 2 0 0	Rs. A. P. 2 0 0 1 8 0 2 0 0 2 8 0 2 8 0 2 0 0	Rs. A. P. 2 8 0 1 12 0 2 8 0 3 0 0 3 0 0 2 8 0	3 0 0 2 0 0 3 0 0 3 0 0 3 0 0	
	Fitters Machinists Drivers Oil, Engine Drivers Moulders Wiremen Blacksmiths Boilermakers tackers Tinsmiths Coppersmiths Saddlers	as of Employm			Ra. A. F. 1 8 0 1 4 0 1 8 0 2 0 0 2 0 0 1 8 0 1 8 0 2 0 0 1 0 0	Rs. A. P. 2 0 0 1 8 0 2 0 0 2 8 0 2 8 0 2 0 0 2 0 0 2 0 0	Rs. A. P. 2 8 0 1 12 0 2 8 0 3 0 0 3 0 0 2 8 0 2 8 0 2 8 0	3 0 0 2 0 0 3 0 0 3 8 0 3 0 0 3 0 0	
	Fitters Machinists Drivers Oil, Engine Drivers Moulders Wiremen Blacksmiths Boilermakers tackers Tinamiths Coppersmiths Saddlers Carpenters	as of Employm			Ra. A. P. 1 8 0 1 4 0 2 0 0 2 0 0 1 8 0 1 8 0 2 0 0 1 8 0 1 8 0 1 12 0	Rs. A. r. 2 0 0 1 8 0 2 0 0 2 8 0 2 8 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0	Rs. A. P. 2 8 0 1 12 0 2 8 0 3 0 0 2 8 0 2 8 0 2 8 0 2 8 0 2 8 0 2 8 0	3 0 0 2 0 0 3 8 0 3 0 0 3 0 0 3 0 0 2 8 0	
	Fitters Machinists Drivers Oil, Engine Drivers Moulders Wiremen Blacksmiths Boilermakers tackers Tinsmiths Coppersmiths Saddlers	as of Employm			Ra. A. F. 1 8 0 1 4 0 2 0 0 2 0 0 1 8 0 1 8 0 1 8 0 1 8 0 1 8 0	Rs. A. P. 2 0 0 1 8 0 2 0 0 2 8 0 2 8 0 2 0 0 2 0 0 2 0 0 2 0 0	Rs. A. P. 2 8 0 1 12 0 2 8 0 3 0 0 3 0 0 2 8 0 2 8 0 2 8 0	3 0 0 2 0 0 3 0 0 3 8 0 3 0 0 3 0 0	
	Fitters Machinists Drivers Oil, Engine Drivers Moulders Wiremen Blacksmiths Boilermakers tackers Tinsmiths Coppersmiths Saddlers Carpenters	as of Employm			Ra. A. P. 1 8 0 1 4 0 2 0 0 2 0 0 1 8 0 1 8 0 2 0 0 1 8 0 1 8 0 1 12 0	Rs. A. r. 2 0 0 1 8 0 2 0 0 2 8 0 2 8 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0	Rs. A. P. 2 8 0 1 12 0 2 8 0 3 0 0 2 8 0 2 8 0 2 8 0 2 8 0 2 8 0 2 8 0	3 0 0 2 0 0 3 8 0 3 0 0 3 0 0 3 0 0 2 8 0	
	Fitters Machinists Drivers Oil, Engine Drivers Moulders Wiremen Blacksmiths Boilermakers tackers Tinsmiths Coppersmiths Saddlers Carpenters	as of Employm			Ra. A. P. 1 8 0 1 4 0 2 0 0 2 0 0 1 8 0 1 8 0 2 0 0 1 8 0 1 8 0 1 12 0	Rs. A. r. 2 0 0 1 8 0 2 0 0 2 8 0 2 8 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0	Rs. A. P. 2 8 0 1 12 0 2 8 0 3 0 0 2 8 0 2 8 0 2 8 0 2 8 0 2 8 0 2 8 0	3 0 0 2 0 0 3 8 0 3 0 0 3 0 0 3 0 0 2 8 0	
	Fitters Machinists Drivers Oil, Engine Drivers Moulders Wiremen Blacksmiths Boilermakers tackers Tinsmiths Coppersmiths Saddlers Carpenters	as of Employm			Ra. A. P. 1 8 0 1 4 0 2 0 0 2 0 0 1 8 0 1 8 0 2 0 0 1 8 0 1 8 0 1 12 0	Rs. A. r. 2 0 0 1 8 0 2 0 0 2 8 0 2 8 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0	Rs. A. P. 2 8 0 1 12 0 2 8 0 3 0 0 2 8 0 2 8 0 2 8 0 2 8 0 2 8 0 2 8 0	3 0 0 2 0 0 3 8 0 3 0 0 3 0 0 3 0 0 2 8 0	

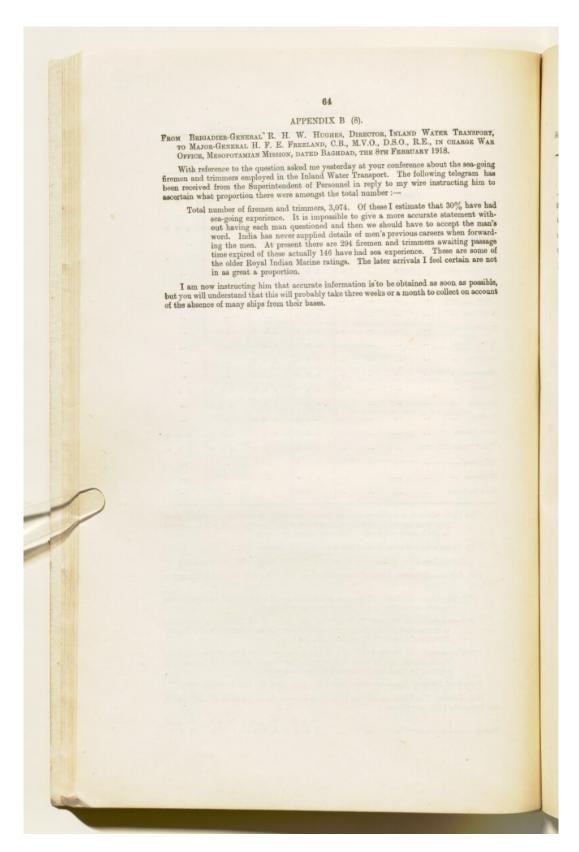


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٧٣و] (٣٧/٤/١)

													37	
						63								
	TROUBLES ON AB	277 20 63	CASIA .	40105								Into Proper		
recia)		Class of Emp	ploymen	it.		135			New	w Ra	ites.			
	and anaroles	primalo)									14-0	e-don't		
		(1)	Yest to			Rs	Δ.	P.	Rs. A.	Р.	Rs. A. P.	Rs. A. P.		
	Tentmenders		fen) Vomen)			1	8	0		0	2 4 0	2 8 0		
	Butchers		, omen)			1	0		1 4	0				
	Hammermen					1	0	0	1 8	0	2 0 0	2 8 0		
i u	Coolies	1								0				
	Tindals	Ma	arine			1	0	.0	2 0	0	-			
Bally (Å),	Serangs	1 89.6) is				lui-in					Table of the	mal		
fug	Peons					0	12	0	1 0	0				
nit	Watchmen	••	••			1	0	0				**		
4	Breadkneaders Fitters' Mates					1	8		1 12	0				
ste	Bargemen					1				0				
de.	Chargemen					1	0		1 5	0				
of	Turners					1	92 0							
be	Rivetters					1	8	0	2 0 0		2 8 0	3 0 0		
at	Firemen					1	0		1 8 (2 8 0			
	Crane Drivers					1	8	0	2 0 (2 8 0	3 0 0		
	Skilled Women La	bourers				0	8 1	0	0 12 (0	1 0 0	1 4 0		
	Sailmakers					2	0 (0						
	Weighmen					1	0 (0						
	Head Gardeners	**	••			1	0 (0					(
	(i) Cases	where it is	s neces	sary to	issue	free ra	tion	ns o	owing to n	men	being emple		-	
		m their ho the Inspec								his r	reason, will l	e referred		
	(j) These	rules and	rates to	o come	into fo	rce fro	m l	lst	January 1	191	8			
	Extract	from Lines	s of Con	nmunic	ations (Orders	No.	. 90	5, dated th	he 7	th December	1917.		
	905. Labour. 1917 —	.—Referen	ce Lin	es of (Commu	nicatio	ns	Oro	ler No. 8	398,	dated 4th	December		
	Sub-parage	raph.—(a)	Test c	ards are	now h	neina r	rin	tod	and will		issued to de			
		our mi pos	sature, t	A rue I	reputy	Direct	or (01.1	abour.					
									mes of al	ll is	ndividuals e	mployed,		
			moone :	by sain	T Dece	mper .	191	1.						
										e is	sue of free ector of La	rations is		
	Durin	eron of a	ne map	ector G	enerai	OI COI	nmi	uni	cations.					
	Extract of L	The fall	mmuns	cations	Order	No.	912	2, d	ated the 1	12th	December 1	917.		
		7 mls (1)	wing a	edution	i is ma	ae to	Line	es o	t Commu	nice	ations No. 8	98, dated		
	912. Labour,- 4th December 191	i, rule (n)												
	4th December 191	r, rule (n)				Rs. 1 8			Rs. A. P.		Rs. A. P.	Rs. A. P.		



"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٣٧٤]



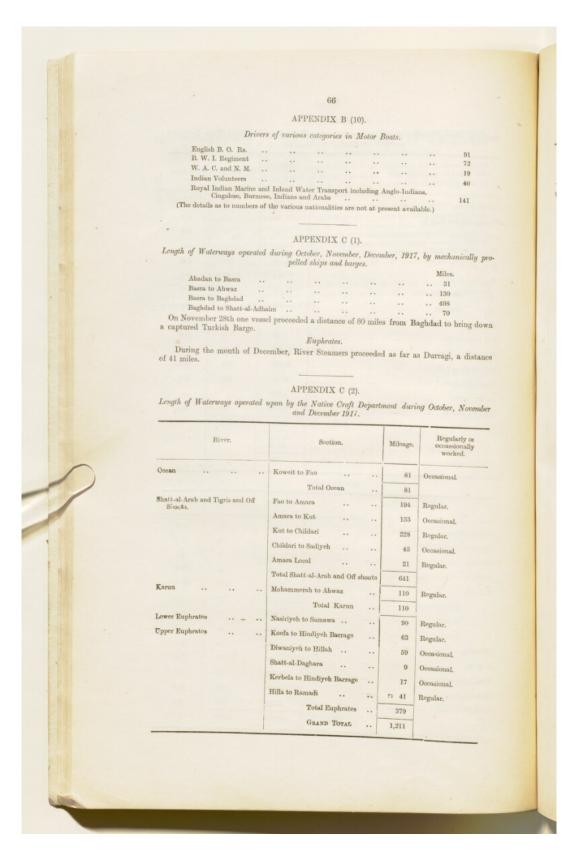


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [۸۳۰] (۵۷/۱۱)

				0.5					(36)
				65					
-				PENDIX			. 7-17 177		
	Statement showing numbers	of me	en on Str	rength an 22nd De	cember	1917.	re Imana was	er Transport	
						Total			
						on Strength.	In Hospital.	Percentage.	
						693	29	4-3	
	British Officers P. I. M.					71	2	2.7	
	Warrant Officers, R. I. M.					70	2	2.7	
	Civilian Officers Clerical Establishment					421	19	4.5	
						2,184	106	4.8	
	B. O. Rs. R. E					382	21	5.5	
						198	15	7.5	
						200	8	4.0	
					.,	697	51	7.3	
	Nigerians and West Africans					79	4	5.0	
	I. O. and I. O. Rs.					14,685	464	3.1	
	Floating Establishment		.,			10,027	294	2.9	
	Skilled Labour I. W. T.					8,541	558	6.5	
	Unskilled Labour, I. W. T.					1,052			
						8,171*	98	4.3	
	Attached Labour			Total		47,469	1,671		
						*8,171			
	Deduct C. N.		**			5,926 2,245			
						2,220	1	-	
				31st July	1917.				
			-			Strength.	In Hospital.	Percentage.	
	British Officers					437	47	10.7	
	Warrant Officers, R. I. M.					68	2	3.0	
	Civilians				**	74	4	5-4	
	Clerks			***		321	16	5.0	
	B. O. Rs					1,494	247	16-7	
	R. E. Coloured Se	c				217	16	7.3	
	B. W. L					395	24	6-0	
	Attached					206	24	11-6	
	Nigerians					80	4	5.0	
	I. O. Rs					85	3	3.5	
	Floating Establishment					11,955	576	4.8	
	Skilled Labour				**	8,410	422	5-0	
	Unskilled Labour					3,886	334	8.5	
				Total		27,628	1,719		
	S129(w)AD								

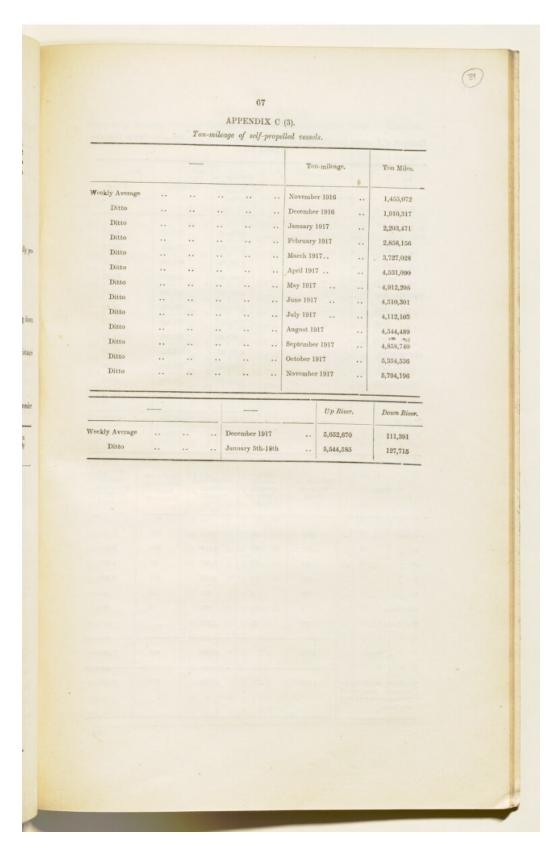


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٣٨٨]





"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٩٣٠]



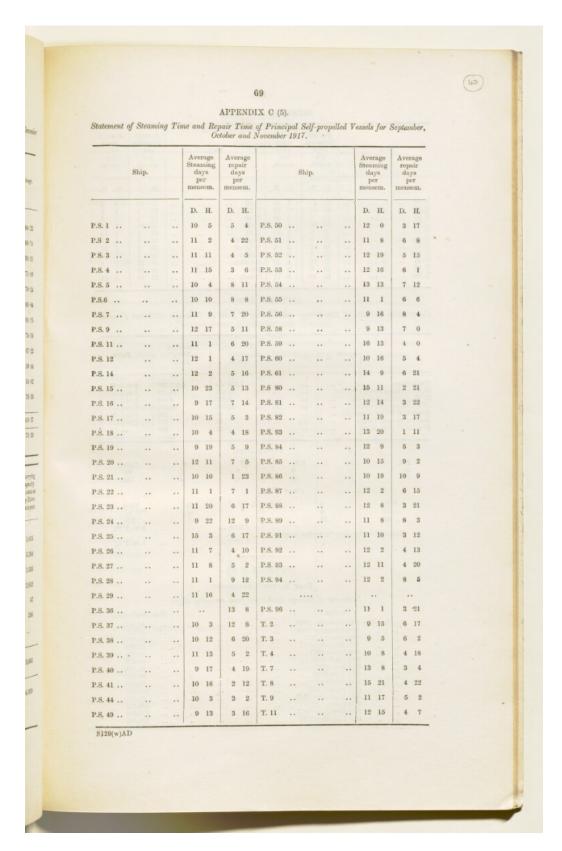


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٣٩٤] (٨٧/٤/١)

Statement of Ton		A	PPEND	TY C (II)		
Statement of Toni				1A U (4).		
	nage, To	m-Mileage and	Mileage		ft from September 30	Oth to December
	• 1	Period.		Tonnage despatched Up and Down Stream.	Ton-mileage.	Mileage,
W. E.—						
October 6th				8,454.01	712,096	84.22
,, 13th			**	6,171-90	430,030	69.70
,, 20th				8,182-93	687,259	85·21 71·09
,, 27th				7,806-56	554,970 417,788	70.24
November 3rd				5,947·45 9,206·66	790,319	85-84
,, 10th			.,	7,814-11	482,516	61.75
" 17th				7,495-46	557,209	74.34
December 1st				9,106-67	612,212	67-22
" 8th				6,660-01	375,939	56-44
,, 15th				7,558-73	408,378	54-02
" 22nd				8,765-77	669,108	76-30
12 weeks				93,170-	6,697,854	856-37
12 weeks Weekly Average	**			7,764	558,154	71-36
Trong.	••					
Group.		Total No. of boats on Group.	Acta aver carry capacit bos	ing Actual earry exper capac	ring Dimer	Carrying Capacity of boats on Up River Transport.
A Class	**	203			917 145	5,655
В "		211			119 186 232 92	5,394 1,656
O ,,		395			135 204	2,652
Е "		136			816 7	42
Buggalows		7			266 7	266
Port Boats		99			871	
Total		1,175		. 25,	356 641	15,665
Less 10½% dedu average num boats repairing	etion for	1,051	,.	. 22,	693 573	14,020



"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٠٤و] (٩٧/٤/١)





"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشوون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٠٤٠]

		ALI	ENDIA	C (5)—contd.			
8	hip.	Average Steaming days per month.	Average repair days per month.	Sh	ip.	Average Steaming days per month.	Average repair days per month,
		р. н.	D. H.			D. H.	D. н.
T: 15 T: 20 T: 21 T: 22 T: 24 T: 25 T: 27 T: 29 T: 30 T: 37 T: 64		15 23 13 4 12 21 11 0 11 5 12 8 12 7 12 13 13 0	7 18 3 21 6 19 1 17 3 17 3 19 3 0 3 9 4 12 3 8 9 11	T. 66 T. 68 T. 68 T. 82 T. 86 T. 87 Bamashir B. Lynch Malmin Majedieh Salin Shihab		11 19 16 9 12 1 12 20 14 1 12 1 16 2 15 2 15 13 13 15 11 13	4 2 2 2 1 8 1 17 1 10 4 15 1 13 2 18 2 4 2 17 4 14
Comparativ	e Statistics of		and cay	IX C (6).	in November	1916 and	Novembe
_				1917.	100	-	
		-		November, 16th, 1917.	November 24th, 1917.		Rates.
D. W. capaci D. W. capaci Number of to Number of ca Number of ca	ty of barges owing ships argo barges	:: ::		1,916,414 ,23,827 3,672 20,155 68	8,69,	062 1 t 346 1 t 716 1 t 135 1 t	00 3·44 00 3·27 00 2·27 00 3·45 00 1·98
-				57		301 1 t	0 3 23
	Т		Tow	ing Ships.		107	
P.S. 45 67	T. 22 45	P.	Tow T. 0	ing Ships. S.T 0 6		107 To	
P.S. 45 67	22 45 8. 34	P.*	Town	ing Ships. S.T 0 6 ps. M.L	S 1 6 8.B,	To To	tal. 68
P.S. 45 67	22 45 8.	P.: C: S. 8 18	Town	ing Ships. S.T 0 6 ps. M.L 15 15 15	S.B. 0 12	To 1:	etal. 68 335 tal. 67 1-36
P.S. 45 67	22 45 8. 34 62	P.: C: S. 8 18	Tow T. 0 111 argo Shij	ing Ships. S.T 0 6 ps. M.L 15 15 1916 {1917	S.B. 0 12	To 1:	etal. 68 335 tal. 67 1-36
P.S. 45 67	22 45 8. 34 62	P. C S. S. S 18	Town T. 0 11 11 11 11 11 11 11 11 11 11 11 11 11	ing Ships. S.T 0 6 ps. M.L 15 15 15 1917 DIX D (1).	S.B. 0 12	To 1:	etal. 68 335 tal. 67 1-36
P.S. 45 67	22 45 S. 34 62 es of towing sh	P. S. S. S. 18 ips to towing Por- ment of lonne	Town T. 0 Ill argo Shi barges APPEN	ing Ships. S.T 0 6 ps. M.L 15 15 1916 {1917	S.B. 0 12	To 1:	etal. 68 335 tal. 67 1-36
P.S. 45 67 P. Rate	22 45 S. 34 State: State: State: h ending 30th 31st 31st 28th 31st 31st 31st 31st 31st	P. S. S. S. 18 ips to towing Pore ment of tonna Period November 1916 December 1916 Tanuary 1917 February 1917 February 1917	Town T. 0 111 argo Shi barges APPEN T TRAFFI	ing Ships. S.T 0 6 ps. M.L 15 15 {1916 DIX D (1).	S.B. 0 12	Tons Deadw	tal. 38 35 1-36 2-22 2-22 2-25 2-25 2-25 2-25 2-25 2-2
P.S. 45 67 P. Rate	22 45 S. 34 62 s of towing sh States II h ending 30th 31st 1 30th 31st 3 30th 31st 3 30th 31st 3	P. S. 8 18 ips to towing Portion Period November 1916 December 1916 Innuary 1917 February 1917 April 1917 Lay 191	Tow T. 0 111 argo Shi barges APPEN T TRAFF T	ing Ships. S.T 0 6 ps. M.L 15 15 15 L 1916 DIX D (1). IIC DEPARTMENT arged from sea	S.B. 0 12	Tos Deadw 61,21 79,867 98,67 99,50 99,50	reight. 4 3 5 9 9 3 4 4 3 5 9 9 3 4 4
P.S. 45 67 P. Rate	\$22 45 S. 34 State State State State State 31st 3 30th 3 31st 4 31st 4 31st 4 31st 4 31st 4 31st 4	P. S. S. S. 18 ips to towing Pore ment of tonna Period November 1916 December 1916 annuary 1917 February 1917 April 1917 April 1917 April 1917	Tow T. 0 111 argo Shi barges APPEN T TRAFF age disch	ing Ships. S.T 0 6 ps. M.L 15 15 15 1916 DIX D (1). III. DEPARTMENT arged from sea	S.B. 0 12	Tos Deadw 61,21 99,697 98,677 98,677 99,67	otal. 98 s55 stal. 77 stal. 98 s55 s55 stal. 98 s55 s55 s55 s55 s55 s55 s55 s55 s55 s5

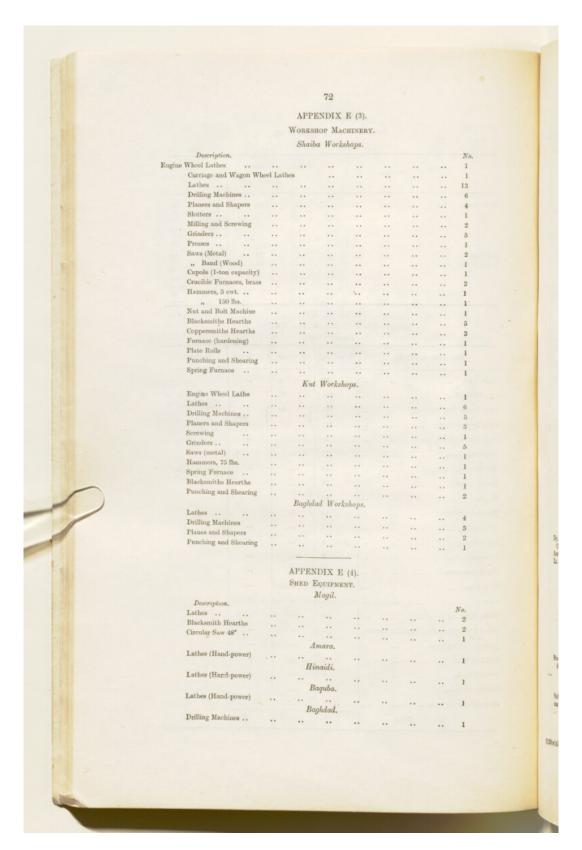


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشوون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [13و] (١١٤/١١)

				71				
			AP	PENDIX	E (1).			
		Re		STOCK (L		es).		
				January 1	918.			
		Gauge.				Number of Locomotives.	Type.	
Metre Gauge						88	4-6-0 11	
							0-6-0 71 4-4-0 1	
							0-4-0 5	
2'-6" Gauge						25	88	
2'-6' Gauge 4'-8½' Gauge				: ::		31	0-4-2 25 2-8-0 7 2-6-0 3	
							2-6-0 3 0-6-0 21	
							31	
1 1 2 2 2 2	-	-	AP	PENDIX	E (2).	1-1-1	THE WAY TO SERVICE THE PARTY OF	
	R	COLLING	STOCE	(CARRIAG		AGONS).		
				January 1	1918.	- 500	1	
Descriptio	n of Veh	icles.		Metre Gauge	2'-6" Gang	ge. 4'-8\" Gauge.	REMARKS.	
Brake Vans				59		4		
Covered Goods				791	2		(18 converted to	
Open Trucks (four wl	neelers)			656) 1	0)	ambulance vehi-	
Open Trucks (Bogie)				119	3 10	7 } 256		
Open Trucks (Bogie),	crated			96				
Rail Trucks open				114		. 4		
Rail Trucks open, bo	gied			14				
Double Firsts				29				
Thirds				90	}	9		
Reserved Carriages				14)			
Kitchen Cars	**			-1				
Insulated Cars				6				
Refrigerator Cars	••			3				
Disinfectant Cars				4				
Store Vans				10			E-VSETORIES	
Water Tanks				53		4	and the second	
Water Tanks (Travelli			1	2				
ed train. Ambulance Cars, Bogi				37				
Accident Vans				4				
Fuel Oil Tanks				2				
				15				
Armoured Trucks					137			
Armoured Trucks General Service Truck	s		0.00					
		otal		2,125	278	346	CELLIS .	

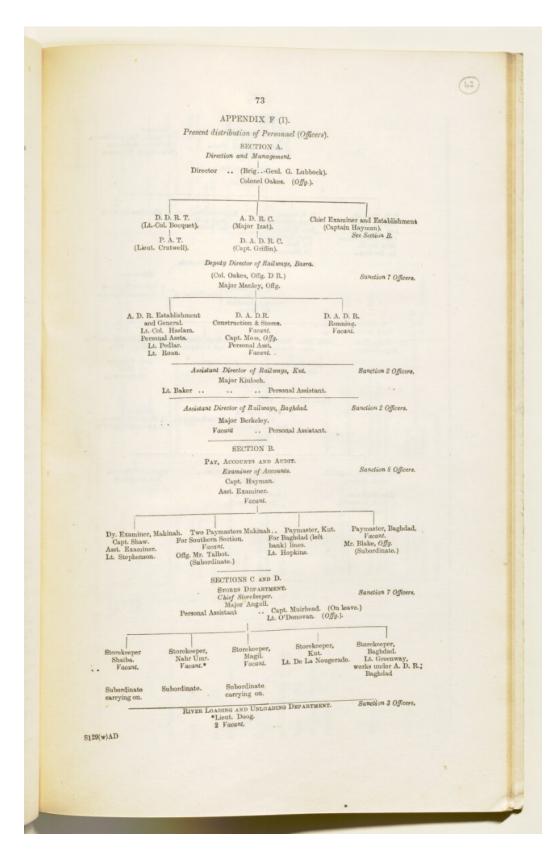


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [134] (٢٨/٤/١)



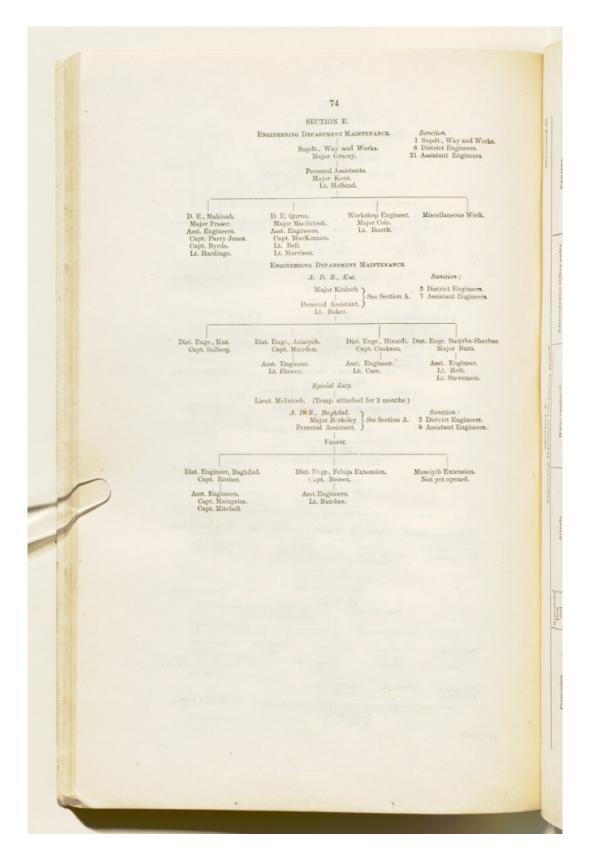


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٢٤و] (٣/٨٣)





"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٢٤٤٨]



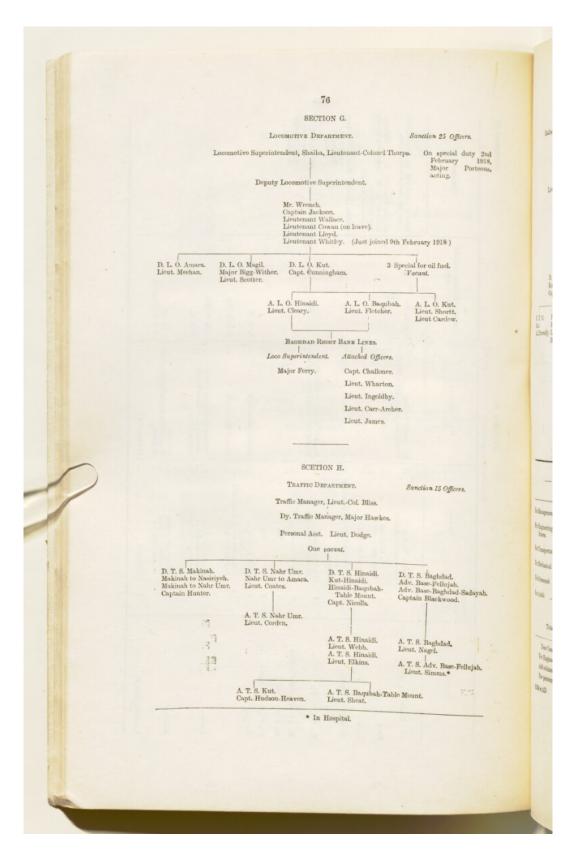


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٣٠] و (٥٨/٤١)

Particulars.			Sanctions Dist, and Asstt, Engrs,	Actuals.		Where employed.	Administrative Officer under whom employed.	Remarks.
No. 1 Construction Compa	ny		2	Captain Watkins Lieutenant Sherridan.		Kut-Hinaidi Railway	A. D. R. Kut	Officers employed on Construction but not posted to Companies.
No. 2 Do.			2	Captain Hitchcock Lieutenant Sanders.		Do	Do	Captain Glanville, B. Q. Railway, under S. W. W. Lieutenant Green, Captain Burns. Lieutenant Wishart.
No. 4 Labour Company			2	Not yet formed Lieutenant Mohamed Zamar leave). Vacant.	n (on	A BERRY		Captain Lincolo, Muscyib Extension under A. D. Rajlways
No. 5 Do.			2	Captain Krieser Lieutenant Robertson,		Baqubah-Shehraban Railway Raising and packing line in low places	Do	Baghdad Licutenant Izat Fallujah-Dhibban extension under
No. 7 Construction Comp		:-	2	Not yet formed				A. D. Railways, Baghdad.
No. 8 Do.	**		2	Do.				
No. 9 Labour Company Bridging	-	•;	5	Major Rothera		Basrah System Shafi Gurmat Ali, Diyalah	8. W. W. A. D. R. Kut.	
Surveys		.:	3	Captain Creedy		Sharaban Qizil Robat Survey	A. D. P. Kut. 8. W. W.	
Buildings			3	Captain Macfarlane Lieutenant Nickers Captain Olliff-Lee		Makinah. Employed on deep well boring Shaiba Baghdad.	S. W. W. A. D. R., Baghdad.	
Special for Oil Fwel			8	All vacant		11 vacancies		

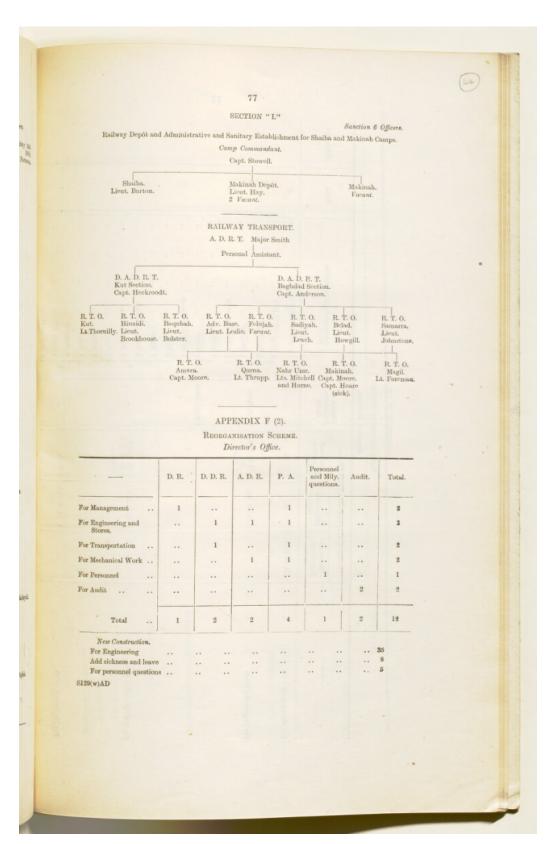


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٣٤ظ] (٣٨/٤١)



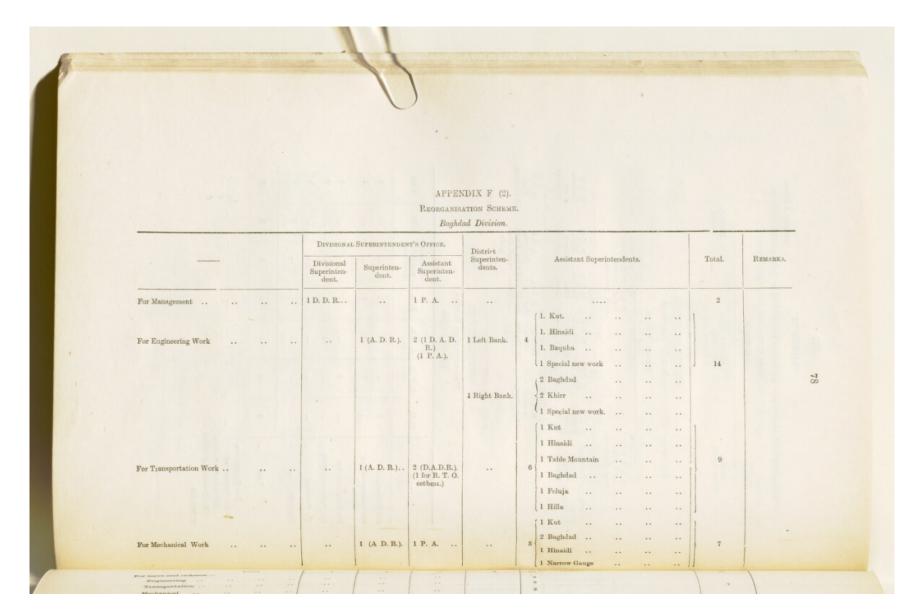


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٤٤و] (٧٨/٤١)



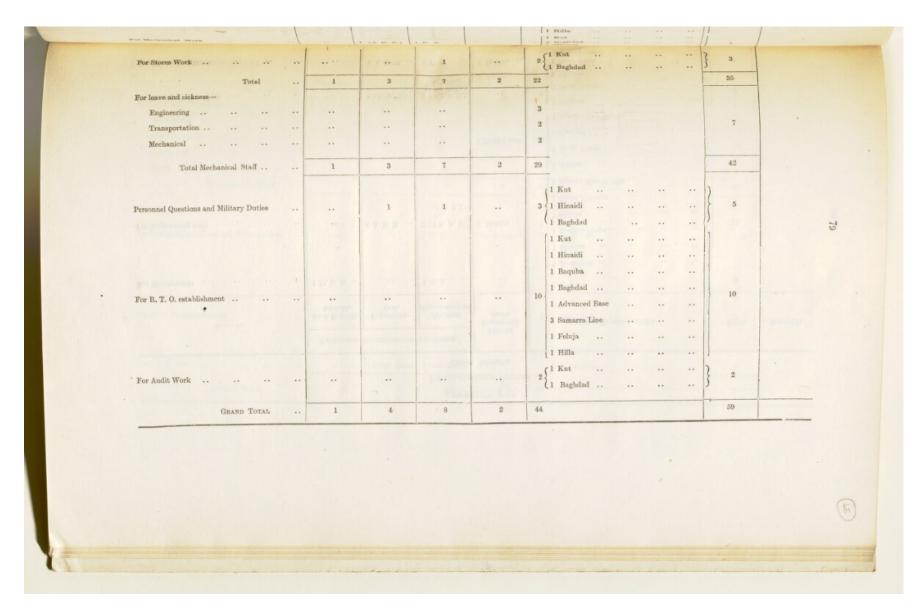


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٤٤٤] (١١٤/٨٨)



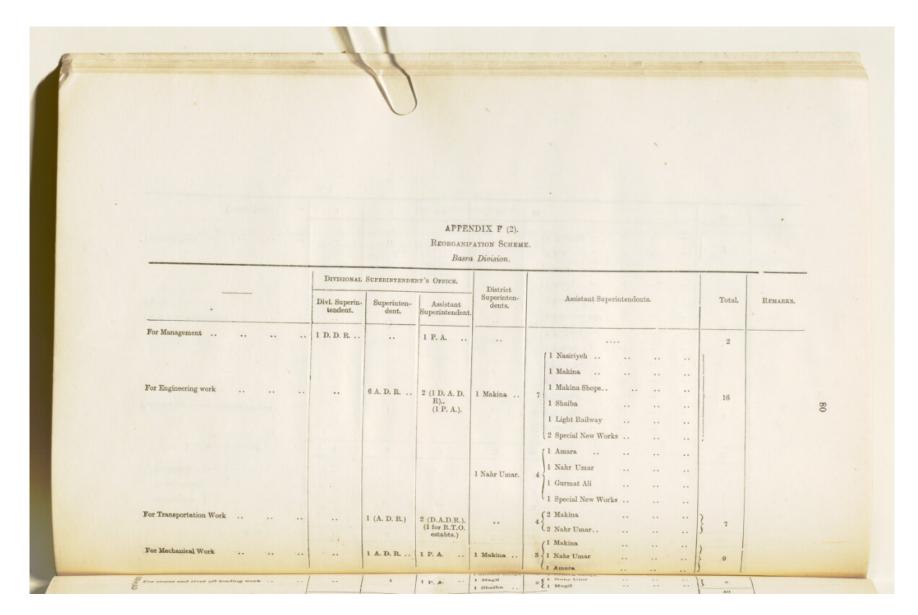


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند لاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٥٤و] (١١٤/٨٩)



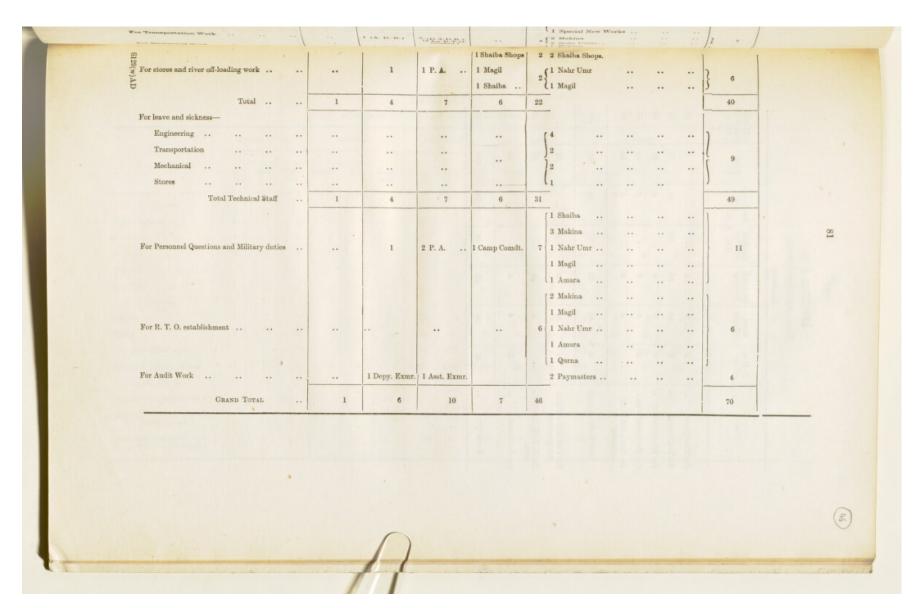


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٥٤ظ] (١١٤/٩٠)



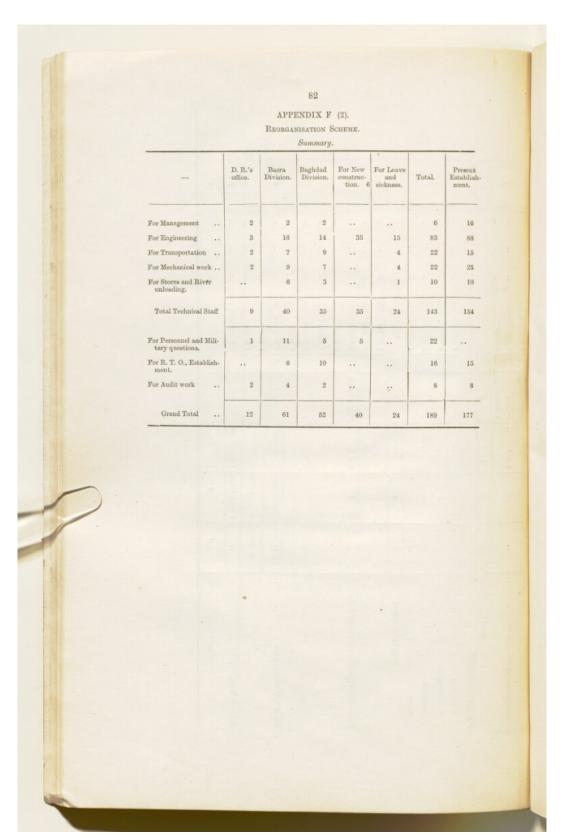


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند لاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٦ ٤ و] (١٩١١)



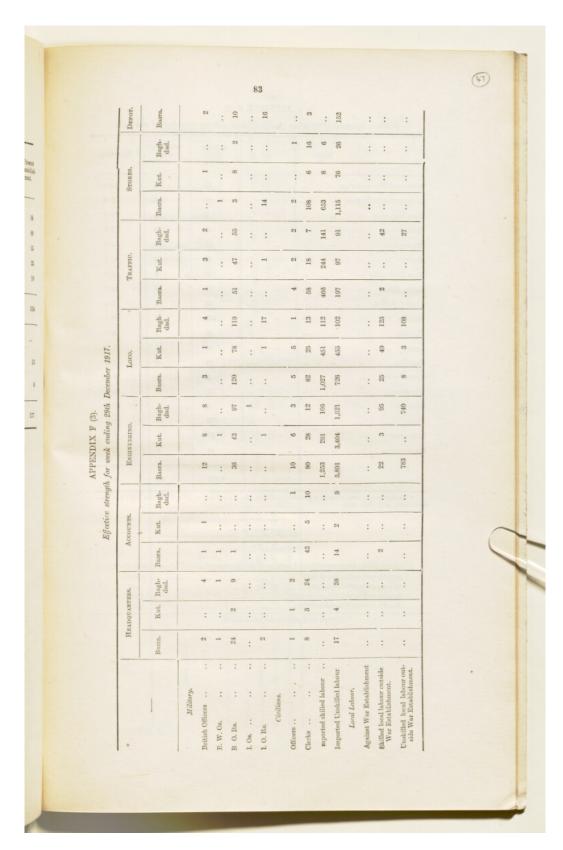


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [7 عظ] (٢ ٩/٤ ١١)





"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٧٤و] (٣/٤/٣)



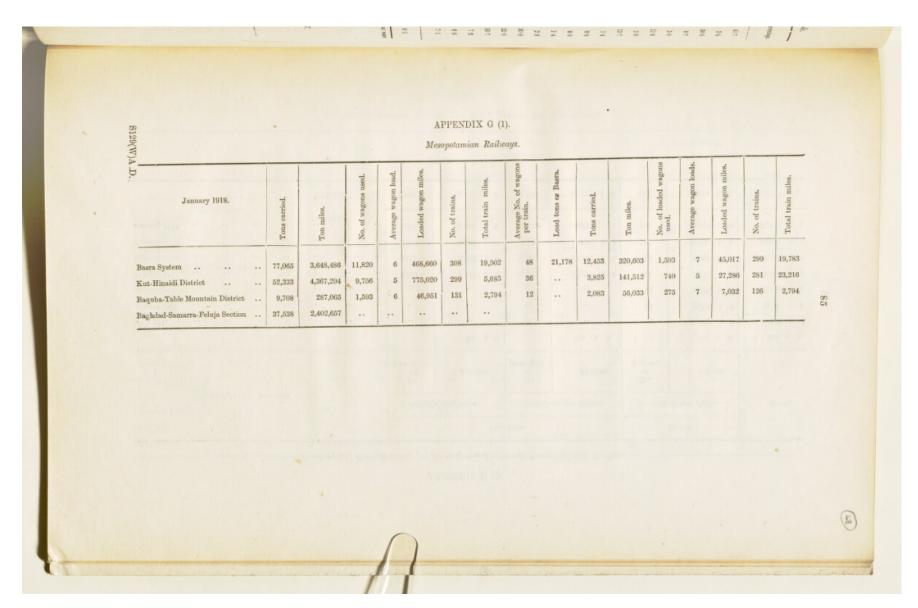


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٧٤ظ] (١١٤/٩٤)

APPENDIX F (4). Statement by trades of rejections of skilled labour showing percentage of each trade. Trade. Arrivals since 11-9-17. Permanent Way Inspectors 12 5 41-7 Assistant Station Masters 85 2 2-4 Loco, Inspectors 92 1 50-0 Boilermakers 1003 9 8-7 Machinemen 21 1 5-0 Turners 26 3 11-6 Loco Blackmiths 40 2 5-0 Engine Fitters 88 13 13-7 Carriage Fitters 72 1 1-4 Firemen 2509 2 0-8 Shunters 13 1 8-0 Guards 71 1 1-4 Signallers 92 1 50-0 Draughtamen 20 7 33-0 Surveyors 6 1 16-7 Clerks 178 14 7-8 Timekeepers 177 1 6-0 Sub-Overseers 177 1 6-0 S	Trade. Arrivals Rejections Percentage.	Statement by trades of rejections of skilled labour showing percentage of each trade.					84			
Trade. Arrivals since Rejections Since 11-0-17. Percentage.	Arrivals Since 11-0-17. Percentage. Percentage. Percentage. Permanent Way Inspectors 12 5 41-7 Assistant Station Masters 85 2 2-4 Loco. Inspectors 2 1 50-0 Bollermakers 103 9 8-7 Machinemen 21 1 5-0 Turners 26 3 11-6 Loco Blacksmiths 40 2 5-0 Engine Fitters 88 12 13-7 Carriage Fitters 88 12 13-7 Carriage Fitters 72 1 1-4 Firemen 2509 2 0-8 Shunters 133 1 8-0 Guards 71 1 1-4 Signallers 49 1 2-0 Letter Painters 20 7 35-0 Surveyors 6 1 16-7 Clerks 178 14 7-8 Timekeepers 17 1 6-0 Sab-Overseers 14 1 7-1 Total 1.078 66 6-1 APPENDIX F (5). Master ending 31st March 1917 Quarter ending 30th June 1917 542 Quarter ending 30th June 1917 542 Quarter ending 31st March 1917 1.126 1.1270 1.126 1.1270 1.12	Trade. Arrivals since Rejections Percentage.				APPEN	DIX F	(4).		
Trade. Arrivals since Rejections Since 11-0-17. Percentage.	Arrivals Since 11-0-17. Percentage. Percentage. Percentage. Permanent Way Inspectors 12 5 41-7 Assistant Station Masters 85 2 2-4 Loco. Inspectors 2 1 50-0 Bollermakers 103 9 8-7 Machinemen 21 1 5-0 Turners 26 3 11-6 Loco Blacksmiths 40 2 5-0 Engine Fitters 88 12 13-7 Carriage Fitters 88 12 13-7 Carriage Fitters 72 1 1-4 Firemen 2509 2 0-8 Shunters 133 1 8-0 Guards 71 1 1-4 Signallers 49 1 2-0 Letter Painters 20 7 35-0 Surveyors 6 1 16-7 Clerks 178 14 7-8 Timekeepers 17 1 6-0 Sab-Overseers 14 1 7-1 Total 1.078 66 6-1 APPENDIX F (5). Master ending 31st March 1917 Quarter ending 30th June 1917 542 Quarter ending 30th June 1917 542 Quarter ending 31st March 1917 1.126 1.1270 1.126 1.1270 1.12	Trade. Arrivals since Rejections Percentage.	Statement by tra	ides of	rejectio	ns of ski	lled labo	ur showing 1	percentage of ea	ich trade.
Permanent Way Inspectors	Permanent Way Inspectors 11-9-17. Permanent Way Inspectors 12 5 41-7	Permanent Way Inspectors 11-9-17. Permanent Way Inspectors 12 5 41-7								
Assistant Station Masters 2 2 2-4 Loco. Inspectors 2 1 50-0 Boilermakers 103 9 8-7 Machinemen 21 1 5-0 Turners 26 3 11-6 Loco Blacksmiths 40 2 5-0 Engine Fitters 88 12 13-7 Carriage Fitters 72 1 1-4 Firemen 259 2 0-8 Shunters 13 1 8-0 Guards 71 1 1-4 Signallers 49 1 2-0 Letter Painters 2 1 50-0 Draughtsmen 20 7 35-0 Surveyors 6 1 16-7 Clerks 178 14 7-8 Timekeepers 177 1 6-0 Sub-Overseers 14 1 7-1 Total 1,078 66 6-1 *This figure of course includes repatriations of men who arrived before 11th September 1917 but were repatriated after that date. APPENDIX F (5). MESOPOTAMIAN RAILWAYS. Statement giving three-monthly total number of locally engaged skilled labour during 1917. Quarter ending 30th June 1917 Aig. Quarter ending 30th June 1917 Aig. Quarter ending 30th June 1917 Aig. Quarter ending 30th September 1917 1,270	Assistant Station Masters	Assistant Station Masters 2 2 2.4 Loco. Inspectors 2 1 50.0 Boilermakers 103 9 8.7 Machinemen 21 1 5.0 Turners 26 3 11.6 Loco Blacksmiths 40 2 5.0 Engine Fitters 88 12 13.7 Carriage Fitters 72 1 1.4 Firemen 250 2 0.8 Shunters 13 1 8.0 Guards 71 1 1.4 Signallers 40 1 2.0 Letter Painters 2 1 50.0 Draughtamen 20 7 35.0 Surveyors 6 1 16.7 Clerks 178 14 7.8 Timekeepers 17 1 6.0 Sub-Overseers 17 1 6.0 Sub-Overseers 17 1 1 7.1 Total 1,078 66 6.1 *This figure of course includes repatriations of men who arrived before 11th September 1917 but were repatriated after that date. **APPENDIX F (5): **MESOPOTAMIAN RAILWAYS.** Statement giving three-monthly total number of locally engaged skilled labour during 1917. Quarter ending 31st March 1917 Nil. Quarter ending 30th June 1917 Statement giving three-monthly total number of locally engaged skilled labour during 1917. Quarter ending 30th June 1917 Nil. Quarter ending 30th June 1917 Light 125 For October and November 1917 1,270		Trac	de.			since	since	Percentage.
Loco Inspectors 2	Loco Inspectors 2	Loco Inspectors 2	Permanent Way Inspector	rs				12	5	41.7
Boilermakers	Boilermakers	Boilermakers	Assistant Station Masters					85	2	2.4
Machinemen 21 1 5·0 Turners 26 3 11·6 Loco Blackswiths 40 2 5·0 Engine Fitters 88 12 13·7 Carriage Fitters 72 1 1·4 Firemen 259 2 0·8 Shunters 13 1 8·0 Guards 71 1 1·4 Signallers 49 1 2·0 Letter Painters 2 1 50·0 Draughtamen 20 7 35·0 Surveyors 6 1 16·7 Clerks 178 14 7·8 Timekeepers 17 1 6·0 Sub-Overseers 17 1 6·0 Sub-Overseers 14 1 7·1 Total 1.078 66 6·1 APPENDIX F (5). MESOPOTAMIAN RAILWAYS. Statement giving three-mont	Machinemen 21 1 5·0 Turners 26 3 11·6 Loco Blackswiths 40 2 5·0 Engine Fitters 88 12 13·7 Carriage Fitters 72 1 1·4 Firemen 259 2 0·8 Shunters 13 1 8·0 Guards 71 1 1·4 Signallers 49 1 2·0 Letter Painters 2 1 50·0 Draughtamen 20 7 35·0 Surveyors 6 1 16·7 Clerks 178 14 7·8 Timekeepers 17 1 6·0 Sub-Overseers 17 1 6·0 Sub-Overseers 14 1 7·1 Total 1.078 66 6·1 APPENDIX F (5). MESOPOTAMIAN RAILWAYS. Statement giving three-mont	Machinemen 21 1 5·0 Turners 26 3 11·6 Loco Blackswiths 40 2 5·0 Engine Fitters 88 12 13·7 Carriage Fitters 72 1 1·4 Firemen 259 2 0·8 Shunters 13 1 8·0 Guards 71 1 1·4 Signallers 49 1 2·0 Letter Painters 2 1 50·0 Draughtamen 20 7 35·0 Surveyors 6 1 16·7 Clerks 178 14 7·8 Timekeepers 17 1 6·0 Sub-Overseers 17 1 6·0 Sub-Overseers 14 1 7·1 Total 1.078 66 6·1 APPENDIX F (5). MESOPOTAMIAN RAILWAYS. Statement giving three-mont	Loco. Inspectors	**				2	1	50.0
Turners	Turners	Turners	Boilermakers					103	9	8.7
Loco Blacksmiths	Loco Blacksmiths	Loco Blacksmiths	Machinemen					21	1	5.0
Engine Fitters	Engine Fitters	Engine Fitters	Turners					26	3	11.6
Carriage Fitters	Carriage Fitters	Carriage Fitters	Loco Blacksmiths		**			40	2	5-0
Carriage Fitters	Carriage Fitters	Carriage Fitters	Engine Fitters	**			**	88	12	- 13.7
Shunters	Shunters	Shunters	Carriage Fitters					72	1	
Guards	Guards	Guards	Firemen					259	2	0.8
Guards	Guards	Guards	Shunters					13	1	8-0
Letter Painters	Letter Painters	Letter Painters	Guards					71	1	1.4
Draughtsmen	Draughtsmen	Draughtsmen	Signallers					49	1	
Draughtsmen	Draughtsmen	Draughtsmen	Letter Painters					2	1	50.0
Surveyors	Surveyors	Surveyors	Draughtsmen					20	7	
Clerks	Clerks	Clerks						6		
Timekeepers	Timekeepers	Timekeepers								
Total	Total	Total								
*This figure of course includes repatriations of men who arrived before 11th September 1917 but were repatriated after that date. APPENDIX F (5). MESOPOTAMIAN RAILWAYS. Statement giving three-monthly total number of locally engaged skilled labour during 1917. Quarter ending 31st March 1917	*This figure of course includes repatriations of men who arrived before 11th September 1917 but were repatriated after that date. APPENDIX F (5). MESOPOTAMIAN RAILWAYS. Statement giving three-monthly total number of locally engaged skilled labour during 1917. Quarter ending 31st March 1917	*This figure of course includes repatriations of men who arrived before 11th September 1917 but were repatriated after that date. APPENDIX F (5). MESOPOTAMIAN RAILWAYS. Statement giving three-monthly total number of locally engaged skilled labour during 1917. Quarter ending 31st March 1917					!			1
*This figure of course includes repatriations of men who arrived before 11th September 1917 but were repatriated after that date. APPENDIX F (5). MESOPOTAMIAN RAILWAYS. Statement giving three-monthly total number of locally engaged skilled labour during 1917. Quarter ending 31st March 1917	*This figure of course includes repatriations of men who arrived before 11th September 1917 but were repatriated after that date. APPENDIX F (5). MESOPOTAMIAN RAILWAYS. Statement giving three-monthly total number of locally engaged skilled labour during 1917. Quarter ending 31st March 1917	*This figure of course includes repatriations of men who arrived before 11th September 1917 but were repatriated after that date. APPENDIX F (5). MESOPOTAMIAN RAILWAYS. Statement giving three-monthly total number of locally engaged skilled labour during 1917. Quarter ending 31st March 1917								
APPENDIX F (5). MESOPOTAMIAN RAILWAYS. Statement giving three-monthly total number of locally engaged skilled labour during 1917. Quarter ending 31st March 1917	APPENDIX F (5). MESOPOTAMIAN RAILWAYS. Statement giving three-monthly total number of locally engaged skilled labour during 1917. Quarter ending 31st March 1917	APPENDIX F (5). MESOPOTAMIAN RAILWAYS. Statement giving three-monthly total number of locally engaged skilled labour during 1917. Quarter ending 31st March 1917				Total		1,078	66	6.1
APPENDIX F (5). MESOPOTAMIAN RAILWAYS. Statement giving three-monthly total number of locally engaged skilled labour during 1917. Quarter ending 31st March 1917	APPENDIX F (5). MESOPOTAMIAN RAILWAYS. Statement giving three-monthly total number of locally engaged skilled labour during 1917. Quarter ending 31st March 1917	APPENDIX F (5). MESOPOTAMIAN RAILWAYS. Statement giving three-monthly total number of locally engaged skilled labour during 1917. Quarter ending 31st March 1917	*This figure of course	includes	repatri	ations of r	nen who	arrived before	11th September	1917 but were
MESOFOTAMIAN RAILWAYS.	MESOPOTAMIAN RAILWAYS. Statement giving three-monthly total number of locally engaged skilled labour during 1917. Quarter ending 31st March 1917	MESOPOTAMIAN RAILWAYS. Statement giving three-monthly total number of locally engaged skilled labour during 1917. Quarter ending 31st March 1917	repatriated after that date	•					1	
MESOFOTAMIAN RAILWAYS.	MESOPOTAMIAN RAILWAYS. Statement giving three-monthly total number of locally engaged skilled labour during 1917. Quarter ending 31st March 1917	MESOPOTAMIAN RAILWAYS. Statement giving three-monthly total number of locally engaged skilled labour during 1917. Quarter ending 31st March 1917				ADDENT	TV T	-		
Statement giving three-monthly total number of locally engaged skilled labour during 1917. Quarter ending 31st March 1917	Statement giving three-monthly total number of locally engaged skilled labour during 1917. Quarter ending 31st March 1917	Statement giving three-monthly total number of locally engaged skilled labour during 1917. Quarter ending 31st March 1917								
Quarter ending 31st March 1917 Nil. Quarter ending 30th June 1917 542 Quarter ending 30th September 1917 1,125 For October and November 1917* 1,270	Quarter ending 31st March 1917 Nil. Quarter ending 30th June 1917 542 Quarter ending 30th September 1917 1,125 For October and November 1917* 1,270	Quarter ending 31st March 1917 Nil. Quarter ending 30th June 1917 542 Quarter ending 30th September 1917 1,125 For October and November 1917* 1,270								
Quarter ending 30th June 1917	Quarter ending 30th June 1917	Quarter ending 30th June 1917	Statement giving thre	e-monti	hly total	l number				
Quarter ending 30th September 1917	Quarter ending 30th September 1917	Quarter ending 30th September 1917	Quarter ending 30t	h June	1917					
			Quarter ending 30t	h Septer	mber 19	17 ,			1	1,125
	rights for December not yet available.	A TOTAL OF A ACCOUNTS HOW YOU AVAILABILE.							!	1,270

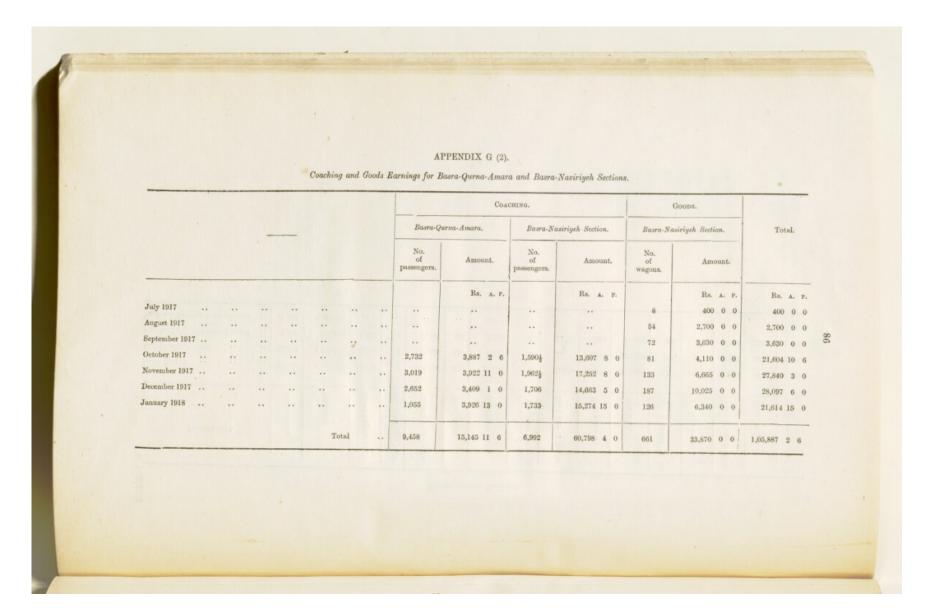


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند لاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٨٤و] (٥٩/١٠)



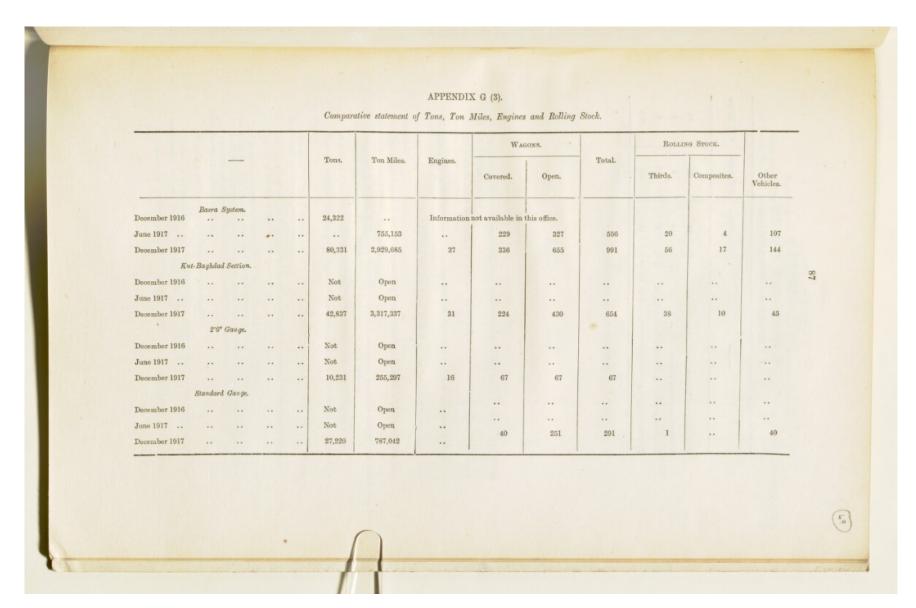


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٤٨ ظ] (١٩٢/ ١٠)



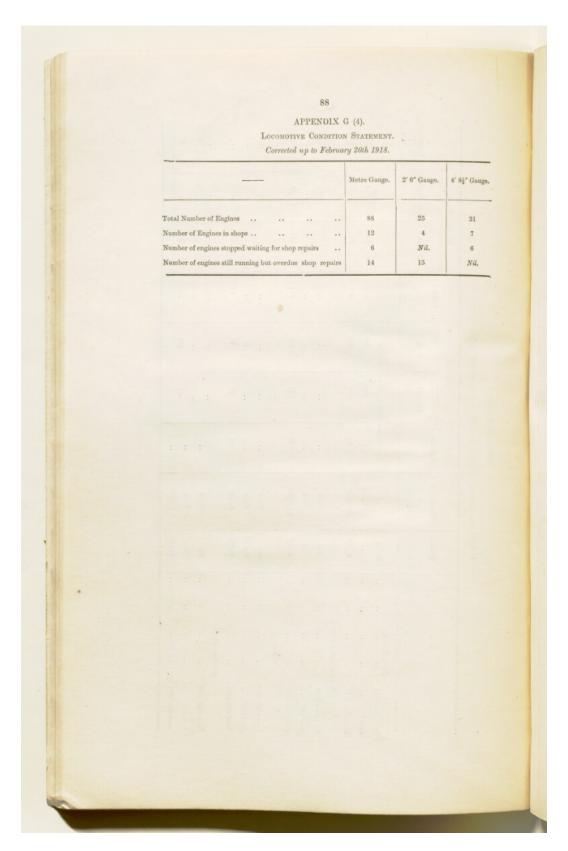


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند لاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٩٤ و] (١٩٤/١)



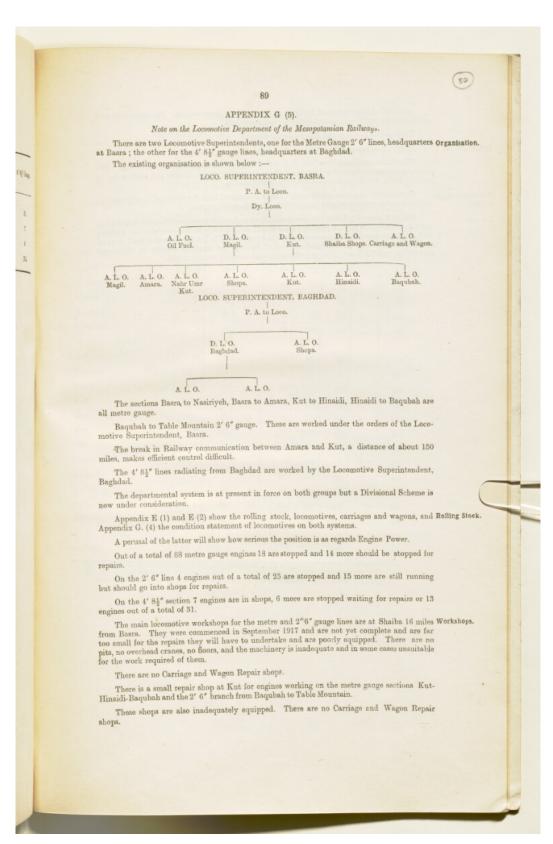


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٩٤] (٨/٤/١)



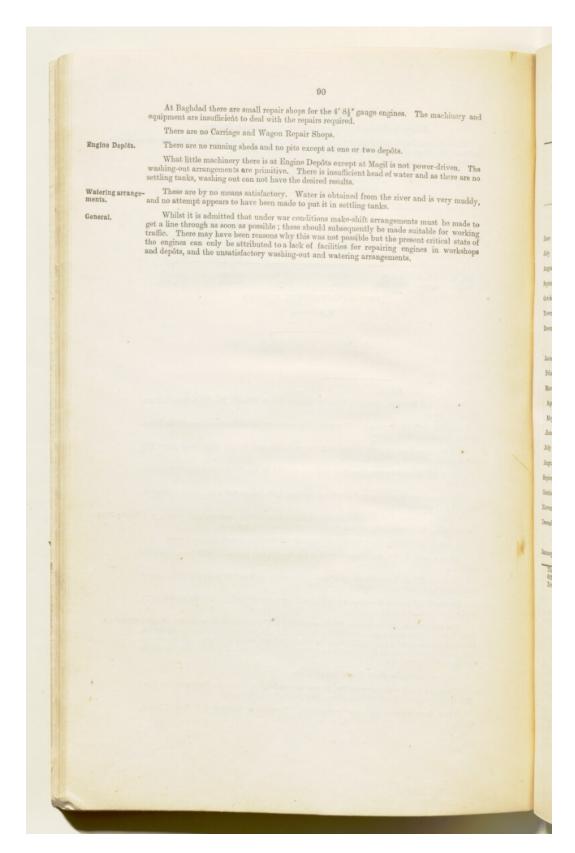


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٥٠] (٩٩/٤١٠)





"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٠٠٥]





"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٥٠] (١٠١/١١)

											51
					91						
		States			PENDI						
		States	vent of ne	ew mileag	e constr	ucted mon	th by mo	nth.			
				New	MILEAGE		Tota	L MILEAGI	E CONSTR	UCTED.	
			N. G.	M. G.	S. G.	Total.	N. G.	M. G.	S. G.	Total.	
1	916.										
June				12		12		10			
July		.,	15			33	15	12		12	
August			5			25	20	50		70	
September			20	15		35	40	65		105	
October			27	32		59	67	97		164	
November			33	28		61	100	125		225	
December			8	15		23	108	140		248	
	917.										
January			10	2		12	118	142		260	
February		**	Nil.	15		15	118	157		275	
March		••	Nil.	28	••	28	118	185		303	
April			Nil.	25		25	118	210		328	
June		**	20	12 56		12 76	118	222		340	
July			16	37	9	62	138	278	**	416	
August			Nil.			02	154	315	9	478	
September			18			18	172	315	9	478	
October			9	33	10	52	181	348	19	548	
November.,			6	24	20	50	187	372	39	598	
December			Nil.	13	10	23	187	385	49	621	
191	18.										
January			Nil.	Nil.	Nil.	Nil.	187	385	49	621	
This does no 602 days for	621 mil	es, or I	· 03 mile 1	per day.				-			
Note.—Abo	ve figure	s are fo	r track o	onstructed	and do n	ot include	lines take	n over fro	m the en	emy.	



"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [١٥ظ] (١١٤/١٠٢)

	92
	APPENDIX J.
	From Colonel E. Dickson, Director of Local Resources, Mesopotamian Expeditionary Force, to the Deputy Quartermaster-General, General Headquarters, Mesopotamian Expeditionary Force, dated Baghdad, the 8th January 1918.
	In view of the very limited time available for arrangements to put in train for dealing with the collection, cleaning and distribution of the forthcoming harvest, I am putting forward the attached memoranda hoping they may be of assistance in deciding some of the problems which inevitably must be tackled in dealing with large tonnages which have to be collected, cleaned, packed and distributed by several different forms of transportation.
Railways.	The necessity, if practically possible, of the main line going to Hillah is quite evident, and requires no further comment.
Light Railways.	A most useful extension of ligh+ railways would be —
	(1) To Tuerij.
	(2) To Jerboiyah.
	(3) To Kifl.
Milling.	I have not touched on this question, as I believe the Director of Supplies and Transport has been addressed from your office on the subject.
	Memorandum from the Director of Local Resources, to the Deputy Quartermaster- General, General Headquarters, Mesopotamian Expeditionary Force, dated the 7th January 1913.
	Harvest, 1918.
	Distribution of Grain and Fodder Crops.
Crops.	The First Revenue Officer states that the following will be available for the Force from the grain crops to be gathered in the harvest commencing May 1918:—
	Wheat and Barley—
	From Revenue payments in kind 57,000
	Available for purchase
	Bhoosa — 90,000
	From Revenue payments in kind 85,990
	Available for purchase 65,000
	150,000
	Total 240,000
	It is doubtful whether the land, railway and water transport likely to be available in June next will be sufficient to deal with more than the revenue tonnage, but bearing in mind the advantage to be gained by procuring the greatest amount of grain and fodds possible, the suggestions now put forward for consideration are upon the basis of handling the whole of the estimated amount.
	As a preliminary to deciding upon a scheme for the taking over of revenue supplies and arranging purchases prior to distribution to the Force, it is necessary to settle upon the points at which revenue grain and fodder is to be received from the cultivators; and, having decided upon these points, to fix upon the more important centres where grain can be cleaned and bagged, and bhoosa pressed into bales prior to transport.
	The First Revenue Officer states that he will have granaries at the places named in column (1) below, and that the amount to be received in revenue payments in kind will be approxi-



"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشوون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٢٥و] (٣٠١/١١)

					93			(52)
mately as give in column (3) :	n in co	lumn (2)	. Clea	ning, etc		res might be	established at the places given	
	Rec	eiving sta	tions			Revenue expecta-	Suggested Cleaning centres.	
		arting att	NOTE:			tions.	Constant Country Court van	
						(In tons.)		
		Euphrates						
Abu Skair						1		
Shamiyah						5,000	Shamiyah,	
Kufa)	Kufa,	
Kifl)	Kifl.	
Tuerij						10,000	Tuerij.	
Hindiyeh Barrag	90					2,000	Hindiyeh.	
Kerbela						500		
Rashadiyah)		
Shafeiyah						1,500	Diwaniyeh.	
Diwaniyeh)		
Dghara						5,000	Dghara.	
Afoj) 0,000	- Agrana	
Jerboiyah						9,000	Jerboiyah.	
Madhatiyah						500)		
Hillah						2,000	Hillah.	
Muhawil (Inland)					500)		
Iskandriyah			**)	Iskandriyah.	
Museyib	**					5,000	Museyib.	-
Mahmoodiyeh (Road))		
Abu Gharaib				••		1,500	1	
Radhwaniyah)		
Feluja						} 500	Feluja.	
Ramadi	**		••		**	,		
		Tigris.						
Kut						1,500	Kut.	
Baghailah						2,000	Baghailah.	
- Swera						1,000	Swers.	
Zeur						}		
Baghdad						1,500	Baghdad.	
Sumaicha				**		2,000	Sumaicha.	
Beled						5		
S129(w)AD								
and a property								

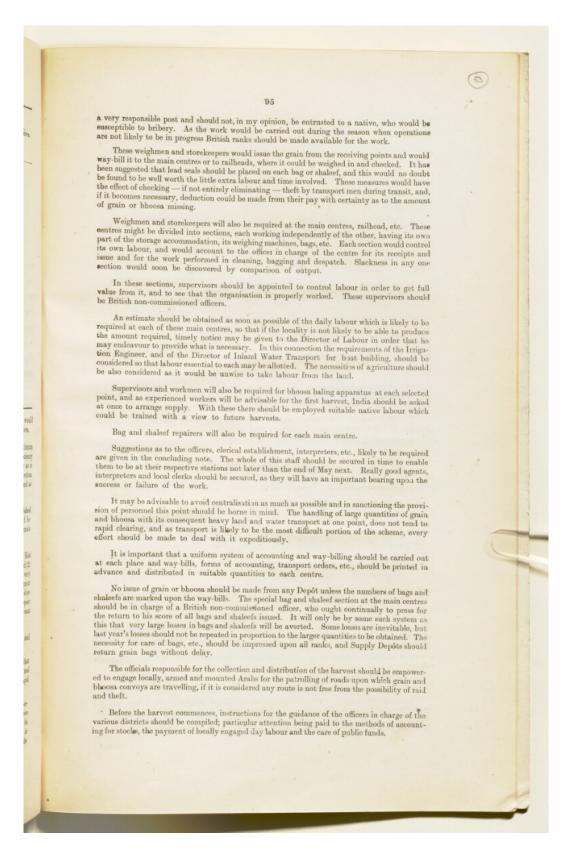


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٢٥ظ] (١١٤/١٠٤)

					94		
		Receiving station	5.			Revenue expecta- tions.	Suggested Cleaning centres.
	n.i.n	Diala.				(In tons.)	
	Beled Ruz Shahraban		**	**			
	Buhriz						
	Khan Beni Sa'ac			**			Married No.
	Sindiyeh						
	Deltawah						
		Inland.					
	Mendali						
	Zobatiyah		**				Baqubah.
	Bedra	**		••		6,000	Beled Ruz.
	Jessan						Nasiriyek,
	Basrughiyah	Hai.					
	Hai Town						
			Total			57,000	
	designing the ac						harvests. In this connection ess at separate points and so
	The list giv	en on sheets (2) and (3)	gives	the pla	me will not o	contrar and the Allina
		excess of produ) and (3) ce up to	gives	the pla	me will not o	centres are to be established renue expectation should be set off by despatches to main
	provided. Any cleaning centres Main despashould be species the railway, land large storage species to baling. If the opposite batter to be an advanted to be a provinced to the advantage of th	excess of produ- or direct to the tching centres illy considered and water trace will be necessary are railway is ex- nof the car	o) and (3) ce up to dee procu e Force. like Mu in relative ansport i essary at the det to	gives 50% red by useyib n to (faciliti each o Hill he pre	the plant the pl	inc will not on the maximum reverse would be included by the part of the part	centres are to be established
	provided. Any cleaning centres Main despendent of the railway, land large storage spendent obtains. If the opposite batto be an advant considerable cro A small por issue of bags and	excess of produ- or direct to the techning centres ally considered and and water transce will be nece to railway is ex- nk of the car- age in any case is sing of the na- tion of each ma- l shaleefs.	and (3) on up to u	gives 50% red by useyib on to (facilities each to Hillshe proposed over should exhibite the proposed over should exhibite the proposed over the should exhibite the proposed over the should exhibite the should exhibit the should exhib	the pla of the purch Tueri 1) the es forw place, in ah, stor esent H livide t er the	ince will not on the case at which maximum reverses would be given by the case would be given by the case where	centres are to be established renue expectation should be set off by despatches to main rhoiyah, Nasiriyeh and Kut ipts from sub-depôts and (2) orce. But in any case, very use and protect bhoosa prior dation should be provided on Indeed, this would appear ieve congestion, and prevent e receipt, storage, repair and
	provided. Any cleaning centres Main despendent of the railway, land large storage spot baling. If the opposite batto be an advant considerable cro A small por issue of bags and A represent a decision may	excess of produ- or direct to the techning centres ally considered id and water tr ace will be nece in railway is ex nk of the car age in any case ssing of the na tion of each ma l shaleefs. ative of the Di be arrived at a and of carrived	o) and (3) ce up to the procuse Force. like Mu in relative anaport is ssary at tended to the procuse of the pr	gives 50%, red by aseyiben to (facilities ach of Hilling ould of the present of the present ould of the present output	the place, in the sent H livide t the sent H livide t sent should be sent should	ince will not once at which maximum reverse as would be asserted receard to the Ferral norder to ho age accommon eadquarters. The traffic, relicanal.	centres are to be established enue expectation should be set off by despatches to main rboiyah, Nasiriyeh and Kut ipts from sub-depôts and (2) orce. But in any case, very use and protect bhoosa prior dation should be provided on Indeed, this would appear ieve congestion, and prevent
habour,	provided. Any cleaning centres Main despethold be specified the railway, lan large storage sp to baling. If the opposite bato be an advant considerable cro A small por issue of bags and A represent a decision may accommodation, handling of the At each grakeeper. As the the weight of the responsible for it	excess of produ- or direct to the techning centres and and water trace will be nece the railway is ex- tion of each man tion	and (3) on the procure of the manner of the	gives 50% for the by service of the pre- graph o	the plate the pl	ince will not once at which maximum reverse as a would be j. Hillah, Je expected recorded and the properties of the properties of the properties of the properties of the provider at the prov	centres are to be established enue expectation should be set off by despatches to main rboiyah, Nasiriyeh and Kut ipts from sub-depôts and (2) orce. But in any case, very use and protect bhoosa prior dation should be provided on Indeed, this would appear ieve congestion, and prevent e receipt, storage, repair and r of all Depôts, in order that



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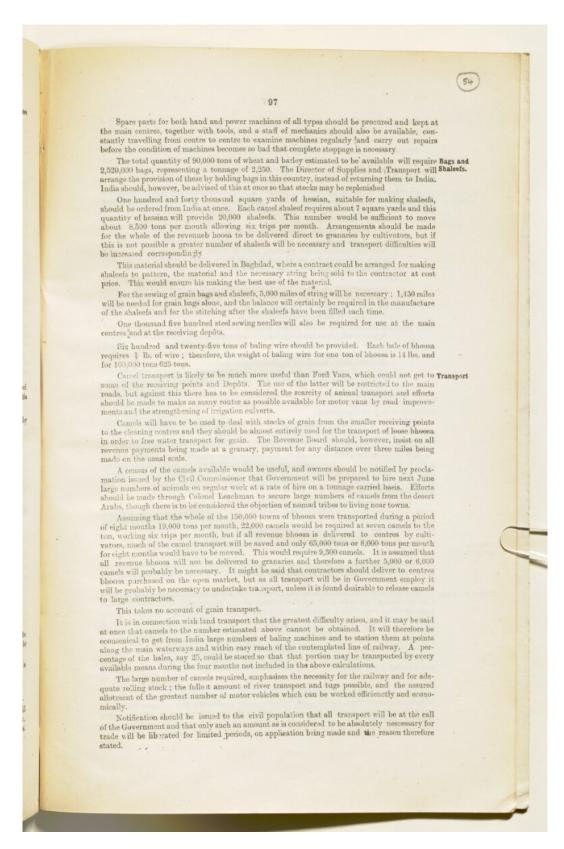


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					96					
. Cleaning of gr	ain an	d pressin	g of bh	oosa.	Hand and	Power	driven	winno	wing machines	
may be require										
Shamiyah								Hand.	Power.	
Kufa		**				**	5	3		
Kifl Tuerij	**						}	2	2	
Hindiyeh B								1		
Diwaniyeh	**						**	1		
Dgharra		*	**	* *				3	**	
Jerboiyah					••			2	2	
Hillah Iskandriyah		**	**					2	1	
Museyib								2		
Feluja								2		
Kut								3	1	
Baghailah								2		
Swera			**	**				1		
Sumaicha Baghdad								1 2		
Beled								1	1	
Baqubah di								3		
Nasiriyeh								4	1	
							-	36	9	
Ad	d for co	ntingencie	s and fo	r movin	ng from plac	e to place		9		
								45	9	
which is intended	for dir	ect issue	to Uni	t be in	stalled at the Euphra	Hillah o		yib to	crush barley	
which is intended Bhoosa baling	for dir	ect issue	to Uni	ts on t	he Euphra	ites.		yib to		
Bhoosa baling Shamiyah	for dir	ines may	be rec	ts on t	as follows	ites.	r Muse	}	crush barley	
Bhoosa baling Shamiyah Kufa Kifi	for dir	ect issue ines may	be rec	ts on t	the Euphra as follows	ites.		yib to		
Bhoosa baling Shamiyah Kufa Kifi Tuerij	for dir	ect issue ines may	to Uni	ts on t	the Euphra as follows	ites.	r Muse	:;;	erush barley 9 18	
Bhoosa baling Shamiyah Kufa Kifi Tuerij Hindiyeh B Diwaniyeh	for dir	ect issue ines may	to Uni	ts on t	the Euphra as follows	ites.	r Muse	::}	erush barley 9 18 3 3	
Bhoosa baling Shamiyah Kufa Kifi Tuerij Hindiyeh B Diwaniyeh Dghara	for dire	ect issue ines may	to Uni	ts on t	the Euphra as follows	intes.	r Muse	·:} ·:} ·:	9 18 3 3 9 9	
Bhoosa baling Shamiyah Kufa Kifi . Tuerij Hindiyeh B Diwaniyeh Dghara Jerboiyah Hilah	for dire	ect issue ines may	to Uni	ts on t	the Euphra as follows		r Muse	:;} ::} ::	erush barley 9 18 3 3	
Bhoosa baling Shamiyah Kufa Kufa Tuerij Hindiyeh B Diwaniyeh Dghara Jerboiyah Hilah Lakandriyah Museyib	for dir	ect issue ines may	to Uni	ts on t	the Euphra as follows	intes.	r Muse	: } :: } :: } :: } :: } :: } :: } :: } :: } :: } :: } :: } :: ::	9 18 3 3 9 18	
Bhoosa baling Shamiyah Kufa Kufa. Tuerij Hindiyeh B Diwaniyeh Dghara Jerbolyah Hillah Iskandriyah Museyib Radhwaniye	for direction of the state of t	ect issue ines may	to Uni	ts on t	the Euphra as follows	Ates.	r Muse	:;} :::	9 18 3 9 18 11 10 2	
Bhoosa baling Shamiyah Kufa Kifl Tuerij Hindiyeh B Diwaniyeh Dghara Jerbolyah Hillah Iakandriyah Museyib Radhwaniye Feluja Kut	for direction of the state of t	ect issue ines may	to Uni	ts on t	the Euphra as follows	in the state of th	r Muse	:;}::;	9 18 3 3 9 18 11 10 2 1 2	
Bhoosa baling Shamiyah Kufa Kufa Kufa Tuerij Hindiyoh B Diwaniyoh Dghara Jerboiyah Hilah Iakandriyah Museyib Radhwaniyi Feluja	for direction of the state of t	ect issue ines may	to Uni	ts on t	the Euphra as follows	tes.	r Muse	·;} ·;} ·; ·; ·; ·; ·; ·; ·; ·; ·; ·; ·; ·; ·;	9 18 3 9 18 11 10 2 1 2 3	
Bhoosa baling Shamiyah Kufa Kufa Kufa Tuerij Hindiyeh B Diwaniyeh Dghara Jerboiyah Hilah Iskandriyah Museyib Radhwaniya Feluja Kut Baghailah Swera Baghaidah	for dire	ect issue ines may	to Uni	ts on t	she Euphra as follows	ttes.	r Muse	:;} ::	9 18 3 9 18 11 10 2 1 2 3 2 3 3	
Bhoosa baling Shamiyah Kufa Kufa Kufa Tuerij Hindiyeh B Diwaniyeh Dghara Jerboiyah Hilah Islandriyah Museyib Radhwaniyi Feluja Kut Baghailah Swera Baghdad Sumaicha Beled	for direction of the state of t	ect issue ines may	to Uni	ts on t	she Euphra as follows	tes.	r Muse	:}	9 18 3 3 9 18 11 10 2 11 2 3 2 3 2 2	
Bhoosa baling Shamiyah Kufa Kufa Kufa Tuerij Hindiyeh B Diwaniyeh Dghara Jerboiyah Hilah Iakandriyah Museyib Radhwaniye Feluja Kut Baghailah Swera Baghaida Sumaicha Beled Baquba dist	for dir g mach	ect issue ines may	to Uni	ts on t	the Euphra as follows	ttes.	r Muse		9 18 3 3 9 18 11 10 2 1 2 3 2 2 4	
Bhoosa baling Shamiyah Kufa Kufa Kufa Tuerij Hindiyeh B Diwaniyeh Dghara Jerboiyah Hilah Islandriyah Museyib Radhwaniyi Feluja Kut Baghailah Swera Baghdad Sumaicha Beled	for direction of the state of t	ect issue ines may	to Uni	ts on t	the Euphra as follows	ttes.	r Muse	}	9 18 3 9 18 11 10 2 1 2 3 2 2 2	
Bhoosa baling Shamiyah Kufa Kufa Kufa Tuerij Hindiyeh B Diwaniyeh Dghara Jerboiyah Hilah Iakandriyah Museyib Radhwaniyi Feluja Kut Baghailah Swera Baghailah Swera Baghailah Skeled Baquba dist Nasiriyeh	for dir g mach	ect issue ines may	to Uni	ts on t	the Euphra as follows	ttes.	r Musee		9 18 3 3 9 18 11 10 2 1 2 2 3 2 2 4 2 99	
Bhoosa baling Shamiyah Kufa Kufa Kufa Tuerij Hindiyeh B Diwaniyeh Dghara Jerbolyah Hilah Islandriyah Museyib Radhwaniya Feluja Kut Baghailah Swera Baghailah Swera Baghaidad Sumaicha Beled Baquba dist Nasiriyeh It is suggeste allotted to the Tig Euphrates. The estimate 16 tons per day. The estimated	for dir g maching maching maching maching maching machine mach	the four ull work ut of a pow	bhooss for state	a balintionary	To ag machine machines machine machines	tal ss to be can be forme with l	r Musee	d on barr t the strength	gers should be eight hours is thour day.	
Bhoosa baling Shamiyah Kufa Kufa Kufa Kufa Lurerij Hindiyeh B Diwaniyeh Dghara Jerboiyah Hilah Lakandriyah Museyib Radhwaniya Feluja Kut Baghailah Swera Baghailah Suera Baghailah Beled Baquba dist Nasiriyeh It is suggeste allotted to the Tig Euphrates. The estimate 16 tons per day. The estimated Each hand wir	for dir graching machine in the control of the cont	the four ull work ut of a pow, machine will Therefore seach w	bhooss for stat hand we are drive a will return or ore, if 2	a balinitionary winnow en winrequire 2 ut 200 a 20 da	To g machine machines machines machines are machines for machines are machines are machines are machines for machines are machines are machines for machines are machines are machines are machines for machines are	tal ss to be p can be f ne with l chine is 2 l each po lbs. we amount tth will It	r Musee orovide a abour 1 4 tons p wer dri ight p of 15.00	d on bar t the st working per eight von macer day-7 onougo ton	gers should be teations on the eight hours is shourday. thine 15 men. tons, and will si sheled, rick, saven ments, saven m	
Bhoosa baling Shamiyah Kufa Kufa Kufa Kufa Kufa Lucarij Hindiyeh B Diwaniyeh Dghara Jerboiyah Hilah Lakandriyah Museyib Radhwaniya Feluja Kut Baghailah Swera Baghailah Swera Baghailah Sumaicha Beled Baquba dist Nasiriyeh It is suggestee allotted to the Tig Euphrates. The estimated Each hand wir A bhoosa balin require 8 men for 1 00,000 tons, 100 r. 100,000 tons, 100 r.	for dir graching machine in the control of the cont	the four ull work ut of a pow, machine will Therefore seach w	bhooss for stat hand we are drive a will return or ore, if 2	a balinitionary winnow en winrequire 2 ut 200 a 20 da	To g machine machines machines machines are machines for machines are machines are machines are machines for machines are machines are machines for machines are machines are machines are machines for machines are	tal ss to be p can be f ne with l chine is 2 l each po lbs. we amount tth will It	r Musee orovide a abour 1 4 tons p wer dri ight p of 15.00	d on bar t the st working per eight von macer day-7 onougo ton	gers should be teations on the eight hours is shourday. thine 15 men. tons, and will si sheled, rick, saven ments, saven m	

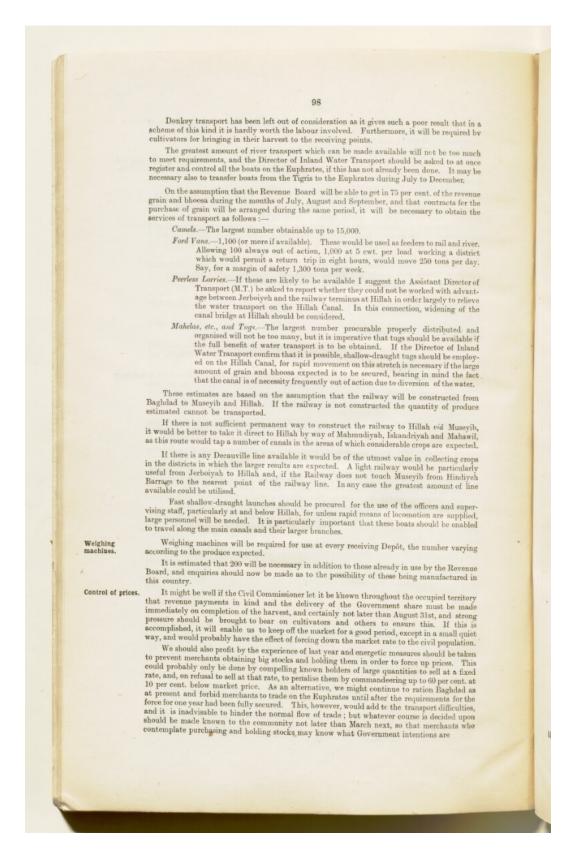


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٢٥٤]



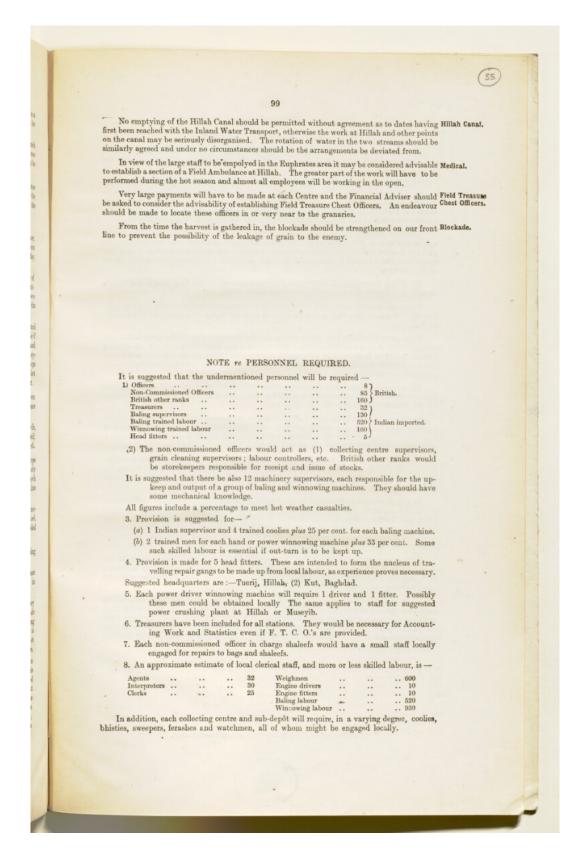


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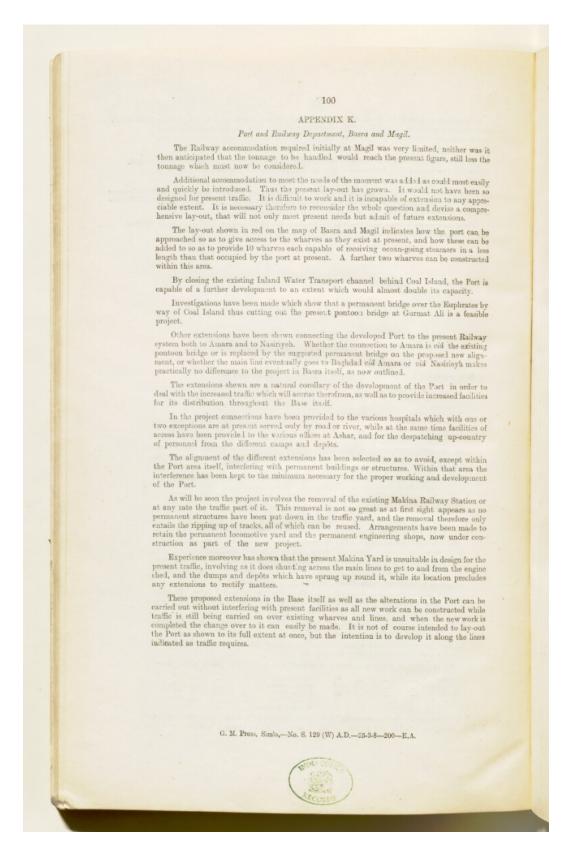


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٥٠٥] (١١٤/١٠٩)



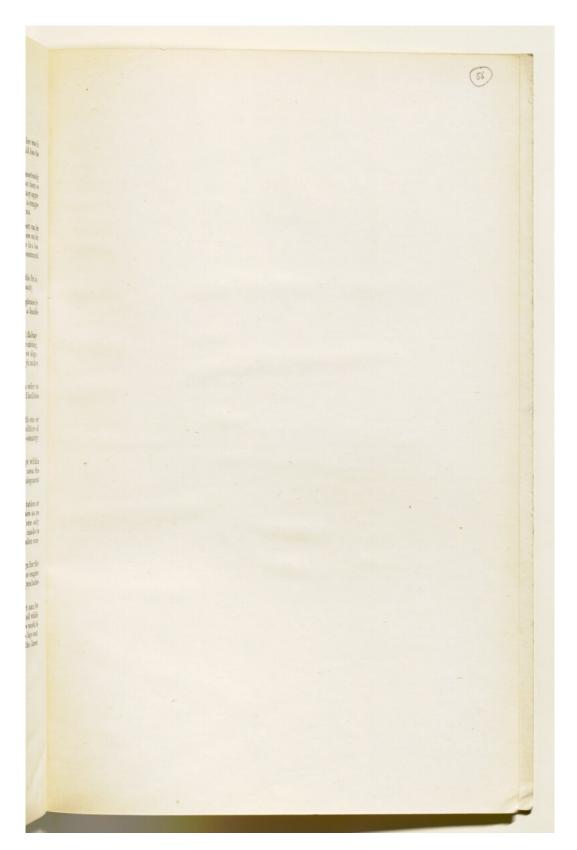


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٥٥ظ] (١١٤/١١٠)



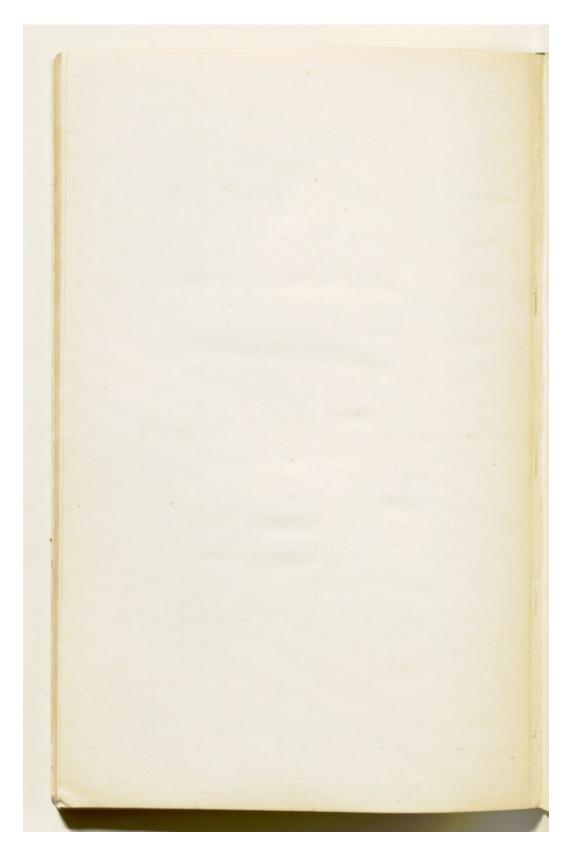


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٥٠] (١١٤/١١)



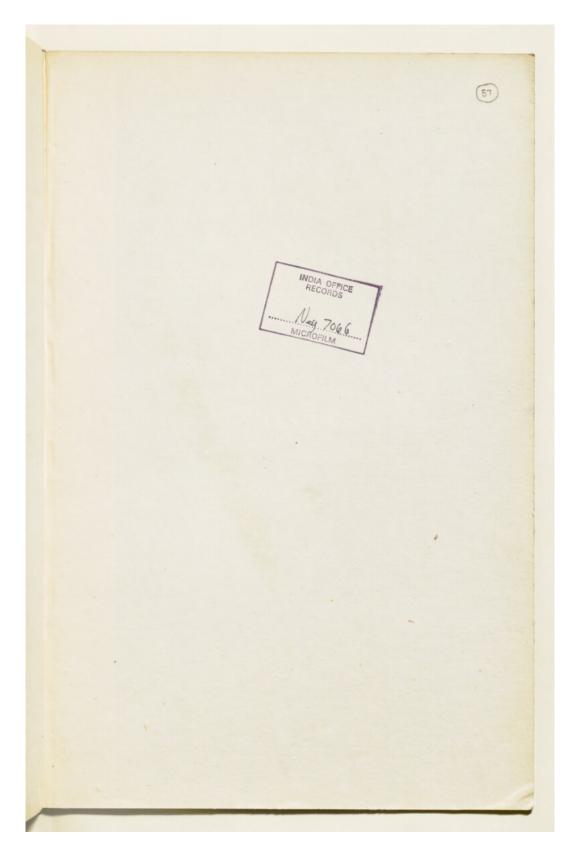


"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [٢٥ظ] (١١٤/١١٢)





"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [خلفي-داخلي] (١١٤/١١٣)





"لجنة النقل في بلاد الرافدين. تقرير اللجنة المعيّنة من جانب حكومة الهند بموافقة معالي وزير الدولة لشؤون الهند للاستفسار حول الأسئلة المتعلقة بتنظيم وإدارة السكك الحديدية والنقل النهري في بلاد الرافدين" [خلفي] (١١٤/١١)

