Examination of Estimates of Expenditure 2024-25

Reply Serial No.

CONTROLLING OFFICER'S REPLY

TLB016

(Question Serial No. 2404)

Head:	(60) Highways Department
Subhead (No. & title):	(-) Not Specified
Programme:	(3) Railway Development
Controlling Officer:	Director of Highways (YAU Kwok-ting)
Director of Bureau:	Secretary for Transport and Logistics

Question:

Regarding the latest development of implementing the railway projects under the Railway Development Strategy 2014 and the Hong Kong Major Transport Infrastructure Development Blueprint, will the Government advise this Committee on the following:

1. What are the respective (i) anticipated/actual commencement dates; (ii) target completion dates; (iii) estimated expenditures; (iv) approved project estimates; (v) total length of the railway; (vi) cost per kilometre; (vii) estimated Economic Internal Rate of Return; (viii) years of postponement (if applicable); (ix) overspending/additional budget (if applicable); and (x) study or consultancy expenses (if applicable) of the railway projects?

Railway Projects	(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)	(x)
Tung Chung Line Extension										
Tuen Mun South Extension										
Northern Link Phase 1 Kwu										
Tung Station										
Northern Link Main Line										
(Phase 2)										
Northern Link Spur Line										
Northern Link Eastern										
Extension										
Hung Shui Kiu Station										
South Island Line (West)										
East Kowloon Smart and										
Green Mass Transit System										
Kai Tak Smart and Green										
Mass Transit System										
Hung Shui Kiu/Ha Tsuen										
Smart and Green Mass										
Transit System (Phase 1)										

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Hung Shui Kiu/Ha Tsuen						
Smart and Green Mass						
Transit System in						
(Remaining Phase)						
Hong Kong – Shenzhen						
Western Rail Link (Hung						
Shui Kiu – Qianhai)						
Automated people mover						
system from Tsim Bei Tsui						
to Pak Nai						
Central Rail Link						
Lo Wu South Station of East						
Rail Line						
Kau Yi Chau Artificial						
Islands Green Mass Transit						
System						
Central Rail Link						
Tseung Kwan O Line						
Southern Extension						
Science Park/Pak Shek Kok						
Station						
Oyster Bay Station						
Hong Kong Island West-						
Hung Shui Kiu Rail Link						
Northeast New Territories						
Line						
			•			

- 2. What are the manpower, establishments and expenditures involved in the implementation and monitoring of the aforesaid railway projects? How can the Government ensure that the works are implemented and completed on time, and that there are sufficient manpower and resources to implement various railway projects?
- 3. Did the Government develop a set of performance indicators in respect of safety, quality, project duration and cost control for new railway projects and railways in operation? If yes, what are the details? If not, what are the reasons?

Asked by: Hon CHAN Siu-hung (LegCo internal reference no.: 20)

Reply:

- 1. The detailed information on the railway projects mentioned in Question 1 is listed in Annex 1.
- 2. The establishments involved in the implementation and monitoring of railway projects by the Highways Department (HyD) (as at 1 March 2024) are as follows:

Rank	No. of permanent posts	No. of time-limited posts
Directorate	7	4*
Professional Grade	87	39
Technical Grade	31	-
General Grade	32	3

* Supernumerary directorate posts

The salary expenditure of the aforesaid posts in 2024-25 (in terms of notional annual midpoint salary value) is approximately \$200 million.

For those railway projects not currently implemented by the HyD, we do not have the breakdown figures of staff members and salaries involved because the subject staff members also undertake other responsibilities.

Based on the latest planning information and the progress of all the major transport infrastructure projects being constructed and planned, the Government will holistically review the delivery programme of the transport infrastructure projects under planning with a view to implementing the various projects progressively to meet the transport and logistic demands arising from the long-term developments. The Government, taking into account the planning and implementation work of the various railway projects, will review the manpower requirements of relevant departments as necessary and redeploy resources through established mechanisms. The Government would also monitor the performance of the MTR Corporation Limited (MTRCL) during the project implementation and remind MTRCL to deploy adequate manpower resources to implement the projects while ensuring safety and quality.

3. When implementing new railway projects, the Government will implement enhanced monitoring and control strategies in the projects, including (a) enhanced project supervision and communication platforms; (b) strengthened monitoring and checking levels; (c) incorporate the new "project safety review" process; (d) establish the proactive reporting and early warning mechanism; (e) oversee the project delivery performance monitoring of MTRCL; and (f) building-up collaborative culture, to ensure the new railway projects can fulfil requirements on the quality construction and on-time completion. The HyD has formulated a set of performance indicators to review the performance of the MTRCL regularly on various aspects of safety, quality, environmental protection, project duration, design management and review as well as communication with stakeholders.

Moreover, the Electrical and Mechanical Services Department (EMSD) is responsible for the regulation of the safety of railway operations and adopts the "risk-based" method with reference to past records to more strictly monitor, vet, inspect and check, and assess those areas (such as the components and equipment of individual railway system) that pose a higher risk to the safe operation of the railway. Inspecting and checking the railway facilities and systems is one of the performance indicators for regulating the safe operation of the railway.

Detailed Information of the Railway Projects

Railway	(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)
Projects	Anticipated commencement date	Anticipated completion date	Estimated construction cost	Approved project estimate	Increased railway length	Cost per kilometre (Note 1)	Estimated Economic Internal Rate of Return	Years of postponement (if applicable)	Overspending/ additional budget (if applicable)
Projects imple	emented by the	e HyD							
Tung Chung Line Extension	Commenced in 2023	2029	\$19.5 billion (in December 2020 prices)	See Note 2	About 2.5 km	N.A.	3.9%	N.A.	N.A.
Tuen Mun South Extension	Commenced in 2023	2030	\$15.8 billion (in July 2023 prices)	See Note 2	About 2.4 km	N.A	0.6%	N.A	N.A
Northern Link Phase 1 Kwu Tung Station	Commenced in 2023	2027	\$5.9 billion (in July 2023 prices)	See Note 2	N.A.	N.A	6.5 %	N.A	N.A
Northern Link Main Line	Works anticipated to commence in 2025	2034	See Note 3	See Note 2	About 10.7 km	N.A.	Under estimation	N.A	N.A
Northern Link Spur Line	Huanggang Pe the "Task For	ort in Shenz ce for Hong	hen. The gov Kong-Shenzhe	vernments of H en Co-operatio	it 5.8 km long long Kong and on on Cross-Bo e relevant plar	l Shenzhen ar oundary Railw	e implementing ay Infrastructu	g the project jo re" (Task Forc	ointly through e). The two

Railway	(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)	
Projects	Anticipated commencement date	Anticipated completion date	Estimated construction cost	Approved project estimate	Increased railway length	Cost per kilometre (Note 1)	Estimated Economic Internal Rate of Return	Years of postponement (if applicable)	Overspending/ additional budget (if applicable)	
	0		u U	lesign of the p he design stag	5	2024. The pro	oject cost and	implementatio	n programme	
Northern Link Eastern Extension	to Ping Che.	This project comprises the construction of railway of about 9.5 km in length to connect Kwu Tung Station (under construction) o Ping Che. It is anticipated that the initial commissioning target will be in 2039 and beyond. The details of the project is yet to be confirmed because the project is still in the initial planning stage.								
Hung Shui Kiu Station	Major works anticipated to commence in 2024	2030	See Note 3	See Note 2	N.A.	N.A.	Under estimation	N.A.	N.A.	
South Island Line (SIL) (West)	the alignment a suitable tec	as well as in chnical solution programm	nprove the tection within the and constru	hnical feasibil is year. Wh	ity and overall en studying d	cost effective	ch could meet eness of the pro- ical schemes, he technical so	oject. We tar we will also	get to firm up evaluate the	
East Kowloon Smart and Green Mass Transit System	Subcommittee out the invest approval. The interest within infrastructural the construction and implement	The preliminary alignment is about 7 km in total. The Government plans to seek funding approval from the Public Works Subcommittee and Finance Committee of the Legislative Council in the first half of this year to engage consultants to carry out the investigation and design work. The work will commence in the middle of this year upon obtaining the funding approval. The Government also plans to invite suppliers and operators of the relevant systems to submit expressions of interest within the second half of this year with a view to finalising the specific requirements and design of the system and its infrastructural facilities. At the same time, we are working hard to expedite the original work schedule and strive to tender the construction works of the project in 2026 for the award of the works contract in 2027. The preliminary construction cost and implementation timetable of the project will be confirmed at the investigation and design stage. The proposed HSWRL is about 18 km in length, with a length of about 8 km for the Hong Kong section. The first stage								
Hong Kong – Shenzhen Western Rail	· ·			•	•		the Hong Kor he Task Force	•	•	

Railway	(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)		
Projects	Anticipated commencement date	Anticipated completion date	Estimated construction cost	Approved project estimate	Increased railway length	Cost per kilometre (Note 1)	Estimated Economic Internal Rate of Return	Years of postponement (if applicable)	Overspending/ additional budget (if applicable)		
Link (Hung Shui Kiu – Qianhai) (HSWRL)	further discuss	and the second stage study is anticipated for completion in mid-2024. The detailed planning of this project is subject to further discussion with Shenzhen.									
Central Rail Link	anticipated that	This project comprises the construction of railway of about 17 km in length to connect Kam Tin to Kowloon Tong. It is nutcipated that the initial commissioning target will be in 2039 and beyond. The details of the project are yet to be confirmed ecause the project is still in the initial planning stage.									
Lo Wu South Station of East Rail Line	To covering the of the propose	The Government is conducting the planning and engineering study for the New Territories North New Town and Man Kam To covering the Lo Wu South area. The Government will formulate relevant transport infrastructures subject to the planning of the proposed land use and its transport needs in order to cope with future development needs. The project information is subject to further study and is hence not available at this stage.									
Tseung Kwan O Line Southern Extension	is anticipated	that the init		ning target wil	bout 4 km in le ll be between 2 ning stage.						
Science Park/Pak Shek Kok Station	new East Rail	Line Science	e Park/Pak Sh	ek Kok station	orporation Lim n, with a view t tion is underwa	to unleashing					
Oyster Bay Station	Commenced in 2023	2030	\$3.8 billion (in June 2022 prices)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.		
Northeast New	Wai through 1	The project comprises the construction of railway which is about 8.5 km in length to connect Fanling Station to Heung Yuen Wai through Ping Che. The initial commissioning target is in 2039 or beyond. The details of the project are yet to be confirmed because the project is still in the initial planning stage.									

Railway	(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)	
Projects	Anticipated commencement date	Anticipated completion date	Estimated construction cost	Approved project estimate	Increased railway length	Cost per kilometre (Note 1)	Estimated Economic Internal Rate of Return	Years of postponement (if applicable)	Overspending/ additional budget (if applicable)	
Territories Line										
Projects imple	emented by oth	er departm	ents							
Kai Tak Smart and Green Mass Transit System	of this project out the inves Government p year. The G	as a Categor tigation of t plans to invi- overnment a t in the first	ry D item. The Kai Tak state relevant supplies to half of 2027.	he Governmen system for the opliers and op invite tenders The prelimir	3.5 km in leng nt has already in e commenceme erators to subm for the constru- nary project cos	nvited tenders ent of investi nit expression action works of	for the engage gation in the s of interest w of the project i	ment of consu- middle of this ithin the secon n 2026 for the	ltants to carry s year. The d half of this award of the	
Hung Shui Kiu/Ha Tsuen Smart and Green Mass Transit System New Development Area	and design of carrying out the design in the r will be confirm	The total length of the preliminary alignment is about 16 km in length. The Government would conduct the investigation and design of the phase 1 road works (about 4.5 km in length) under a Category D item. The Government is currently carrying out the procedures for the engagement of engineering consultants so as to commence the relevant investigation and design in the middle of this year. The preliminary project costs and the implementation timetables of the phase 1 road works will be confirmed at the investigation and design stages. The Government plans to invite relevant suppliers and operators to submit expressions of interest for the system in Hung Shui Kiu/Ha Tsuen within the second half of this year.								
Kau Yi Chau Artificial Islands (KYCAI) Green Mass Transit System	up the three pr	roposed artif	icial islands th	rough the Gre	affic demands o een Mass Trans ystem based on	it System. T	he Governmer	nt will review a	▲	

Railway	(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)		
Projects	Anticipated commencement	Anticipated completion	Estimated construction	Approved project	Increased railway length	Cost per kilometre	Estimated Economic	Years of postponement	Overspending/ additional		
	date	date	cost	estimate	Tanway length	(Note 1)	Internal Rate	(if applicable)	budget (if		
							of Return		applicable)		
Hong Kong		tailed design for the reclamation of KYCAI within this year. The "Committee on the Financing of Major Development									
Island West-	Ū.				•			•	^		
Hung Shui	5	•	•		o explore speci		0	5			
Kiu Rail Link	·			-	rogress of the s						
	^		-		paring a budge			·	•		
	1 0		U 1		rial resources,	0		1 5			
		U	0		tion works of t		U i				
		continue to allocate resources to carry out the studies on the KYCAI project, including the study on the Hong Kong Island									
	U U			•	sport infrastruc		•	• •			
		•	I I	1 0	estimate for It						
					y comprise the		U U	•			
	• •	•	•	• •	l West-Hung S						
	•		parate cost bro	eakdown for th	ne engineering	feasibility stu	dy of the afore	esaid railway a	ind the Green		
	Mass Transit			.1 0 11 11		<u> </u>	•				
Green			• • •	•	of connecting	Tsim Bei Tsi	ui to Pak Nai I	by green trans	port corridor.		
Transport	The details of	the information	tion are subject	et to further stu	idy.						
Corridor from											
Tsim Nei											
Tsui to Pak											
Nai											
(subject to											
study)											

	Studies carried out by consultants	Approved project estimate / approved amount of commitment (\$ million)
1.	Strategic Study on Railways beyond 2030	64.90
2.	Consultancy study on Checking Design for Tung Chung Line Extension Project	9.84
3.	Consultancy study on Independent Checking of the Financial Arrangement of Tuen Mun South Extension Project - Investigation	4.16
4.	Stage 2 Study of Hong Kong - Shenzhen Western Rail Link (Hung Shui Kiu - Qianhai)	9.90
5.	Consultancy study on Independent Checking of the Financial Arrangement of Kwu Tung Station on East Rail Line - Investigation	4.40
6.	Consultancy study on Independent Checking of the Financial Arrangement of Hung Shui Kiu Station Project - Investigation	4.79
7.	Consultancy study on Independent Checking of the Financial Arrangement of Northern Link Main Line Project - Investigation	9.93
8.	Consultancy Services for Risk Assessment in relation to Project Supervision, Monitoring and Checking for Tuen Mun South Extension, Northern Link Phase 1 Kwu Tung Station and Hung Shui Kiu Station Projects - Investigation	11.68

The studies that will be carried out by consultants under the Programme of Railway Development in 2024 and their estimates are as follows:

	Studies carried out by consultants	Approved project estimate / approved amount of commitment (\$ million)
9.	Consultancy Services for Risk Assessment in relation to Project Supervision, Monitoring and Checking for Tung Chung Line Extension, Oyster Bay Station and Airport Railway Extended Overrun Tunnel Projects - Investigation	11.86
10.	Smart and Green Mass Transit System in East Kowloon - Investigation and Design	190.90 (Subject to tender and funding application. Anticipate to seek funding approval from the Public Works Subcommittee and the Finance Committee of the Legislative Council in the first half of this year.)

Note 1: The works involved in various projects are not the same. Apart from the constructions works of railway facilities, some projects may also involve the constructions works other than those of railway facilities, such as reprovisioning of affected facilities, improvement works and enabling works etc. Therefore, it is not suitable to make a comparison by cost per kilometre.

Note 2: The Tung Chung Line Extension, Tuen Mun South Extension and Northern Link Phase 1 Kwu Tung Station are implemented by the MTRCL through the "Rail-plus-Property" model. No approved project estimate of the Government is involved. The detailed planning and design of the Northern Link Main Line and Hung Shui Kiu Station are underway. The Government would seek the most suitable financing scheme for the projects on a case-by-case basis.

Note 3: The Government and its independent consultants are currently accessing the detailed planning and design of the MTRCL to update the costs and estimated Economic Internal Rate of Return of the Northern Link Main Line and Hung Shui Kiu Station.

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