

MATERIALAB CONSULTANTS LIMITED

Room 723 & 725, 7/F, Block B,
Profit Industrial Building,
1-15 Kwai Fung Crescent, Kwai Fong,
Hong Kong.

Tel : (852)-24508238
Fax : (852)-24508032
Email : mcl@fugro.com

The logo for MaterialLab, featuring the word "MaterialLab" in a bold, sans-serif font. The "Material" part is in a lighter weight, and the "Lab" part is in a bolder weight. The logo is set against a background of two horizontal black bars, one above and one below the text.

Report No.: 0165/15/ED/1057

Appendix C

Construction Programme

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities						05-Jun-18					
Activity ID		Activity Name		2018							
				May		Jun		Jul		Aug	
HKBCF - VCP & Ancillary Buildings and Facilities, DWP5											
Belated Variations to Buildings											
General											
R3210	049 - SS Catladder/handrail										
R3230	039 - Detention Room										
R3240	037 - Lead in Pipe										
R3250	037 - Sanitary Fitting										
R3260	037/041/043/046/047 Relocation of Water Tanks										
R3280	Floor Drainage at Pump Room & Meter Room										
R3300	Door Schedules and Master Key										
R3310	Ancillary Building Planters (012, 034, 035, 043, 046, 047, 048, 049, 060)										
R3430	040, 042 Aviation Obstacle Lights										
R3450	FRP Panel Above Water Tanks for FSI										
R3460	SS Case in Water Stand Green Roof										
R3470	039 Detention Room Revision										
R3480	041 HVAC Revision (VO184)										
R3500	048 SS Chequer Plate										
R3520	053, 054, 100, 101 CCTV & Door Force Opening										
R3550	Buildings 039/047/048/060/114, Ventilation and Lighting for WSD										
R3560	Buildings 040 Gap Filling at Staircase										
R3570	Buildings 041 FSD Crest and Name Plate										
Modification to Other Kiosks of 027, 028, 029 & 030 (6+6)											
K670	Open up baffle ceiling and raised floor for C6 and Re-instatement after										
K680	Installation ofAVCSS for C&ED										
K690	Instatement of EDU and Intercom for DH										
Belated Variations to Other Works											
General											
R3380	Revised Attenuation Ponds Drainage & Outflow Outlet										
R3390	Irrigation Pump Room and Turf Cell										
R560	Radiation Detection Provisions for EMSD										
R570	Modification and Reinstatement of Drawpit Cover and Road Pavement										
T&C of Works											
D550	T&C for E&M Works (Lighting/Signs), Water Mains/Flush & UU Cable (Late										
D560	T&C of ELV systems in Location 1.7A/B/C, 1.8 and in C2, C3 & C4 site dela										
R1120	T&C for exeternal works (Drainage/Sewerage & Road Furnish)										
R3330	Late Access to Location 1.8 delayed by C1 Contractor										
R3340	Late Access to Location 1.7A, 1.7B & 1.7C delayed by C8 Contractor										
Landscape Works											
R2620	Laying of Top Soil										
R2860	Completion of Landscape Works										
R3350	Double Handling of Soil Material for Public Fill Mixing and Top Soil										
R3360	Attenuation Pond and Drainage										
R3370	Landscape Works at Rock Slope of South of Nouth PTI										
R3410	Landscape at P9, J22										
R3420	Irrigation Water Point for Water Wagon										

Actual Work

Remaining Work

Critical

Milestone

Milestone

3MRP, AS OF 31 May 2018

VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

Page 1 of 1

Date	Revision	Checked	Approved
31-Mar-18	3MRP, updated as of 31 Mar. 2018	ZJ	
30-Apr-18	3MRP, updated as of 31 Apr. 2018	ZJ	
31-May-18	3MRP, updated as of 31 May 2018	ZJ	

Contract No.: HY/2013/06		Detail Work Programme		Page 3 of 8	
Activity ID		Activity Name			
Detailed Design Specification Contruction Design and Management Supply/Manufacture Mock-up items Supply/Manufacture prototypes Software Design, Coding and Testing Coding Software System Inetgration Prototype & Software Simulation Tests Procurement - Phase 1 / Section I Supply/Manufacture products for FAT Factory Acceptance Test (FAT) Supply/Manufacture Equipment Delivery and Bench Acceptance Test for Phase 1/ Section I Installation - Phase 1 / Section I Location 1(PCB (001) Basement) EM1920L1(001)B/F - Cable Laying and termination at Location 1 and Location 2 Location 1(PCB (001) ELV Room (Grid Line E3)) EM1940L1(001)ELV Rm - Cable Laying and termination at Location 1 and Location 2 Location 2(PCB (001) Ground Floor ELV Room (Grid Line E3)) EM1960L2(001)ELV Rm - Cable Laying and termination at Location 1 and Location 2 Location 2(PCB (001) Ground Floor DOH Port Health Control Room (Grid Line BD5)) EM1080L2(001)Heath Ctrl Rm - Cable Laying and termination at Location 1 and Location 2 EM1100L2(001)Heath Ctrl Rm - Cable Splicing and Testing and Labeling EM1120L2(001)Health Ctrl Rm - Intercom and PA system Installation EM1140L2(001)Heath Ctrl Rm - Intercom and PA system tuning Location 2(PCB (001) First Floor Main Server Room) EM1000L2(001)Main Server Rm - Cable Laying and termination at Location 1 and Location 2 EM1020L2(001)Main Server Rm - Cable Splicing and Testing and Labeling EM1040L2(001)Main Server Rm - AVCSS Network and Server Installation EM1060L2(001)Main Server Rm - AVCSS Network and Server Tuning Location 3(Inbd Cargo Exam Bldg (037) MDF Room) Location 3(Inbd Cargo Exam Bldg (037) ELV Room) Location 3(Inbd Cargo Exam Bldg (037) Inspector Offices 128,129,130,131,128,129,141 EM2020L3(037)Inspec Offices - Cable Laying and termination in Location 3 and Location 3a EM2040L3(037)Inspec Offices - Cable Splicing and Testing and Labeling EM2060L3(037)Inspec Offices - AVCSS SURCON WS and 55" LCD Installation EM2080L3(037)Inspec Offices - VTS WS Installation EM2100L3(037)Inspec Offices - SURCON and WS Tuning Location 3(Inbd Cargo Exam Bldg (037) Platform Control Room) EM1160L3(037)PLF Ctrl Rm - Cable Laying and termination in Location 3 and Location 3a EM1180L3(037)PLF Ctrl Rm - Cable Splicing and Testing and Labeling EM1200L3(037)PLF Ctrl Rm - AVCSS SYSCON WS and 55" TV Wall Installation EM1220L3(037)PLF Ctrl Rm - AVCSS SYSCON WS Tuning					
Programme No.: HZMB-DWP Data Date: 14-Aug-15		Actual Level of Effort Primary Baseline Actual Work Remaining Work Critical Remaining Work Baseline Milestone Milestone		Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities - Automatic Vehicle Clearance Support System (AVCSS)	
Date		Revision		Checked	
14-Nov-16		Rev.: 0		WC	
10-Mar-17		Rev.: 1.0a		LC	
5-May-17		Rev.: 1.0b		LC	

[illegible]

Contract No.: HY/2013/06		Detail Work Programme										Page 6 of 8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Activity ID	Activity Name													2015			2016				2017				2018				2019																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
														Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	 Outbd Vehicle Clearance Plaza - 8 nos VID, 6 nos VTS, 4 nos TLS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

Contract No.: HY/2013/06			Detail Work Programme										Page 7 of 8																		
Activity ID		Activity Name											2015				2016				2017				2018				2019		
													Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
	Location 8(Inbd Private Car Annex (025)) (Phase 2)																												30-Aug-17; Location 8(Inbd Private Car Annex (025)) (Phase 2)		
	EM3370	L8(025) - Cable Containment in Kiosks																											L8(025) - Cable Containment in Kiosks		
	EM3380	L8(025) - Cable Laying and termination																											L8(025) - Cable Laying and termination		
	EM3400	L8(025) - Cable Splicing and Testing and Labeling																											L8(025) - Cable Splicing and Testing and Labeling		
	Location 9(Outbd Private Car Annex (032)) (Phase 2)																												30-Aug-17; Location 9(Outbd Private Car Annex (032)) (Phase 2)		
	EM3500	L9(032) - Cable Containment in Kiosks																											L9(032) - Cable Containment in Kiosks		
	EM3520	L9(032) - Cable Laying and termination																											L9(032) - Cable Laying and termination		
	Initial On-Site Test and Commissioning / Pre-SAT (Phase 2 / Section II)																														
	Site Acceptance Test (Phase 2 / Section II)																														
	Operability Period Test (Phase 2 / Section II)																														
	Completion (Phase 2 / Section II)																														
	Engineering Support for Phase 2 / Section II																														
	Procurement for Phase2 / Section III																														
	Delivery and Bench Acceptance Test for Phase2 / Section III																														
	Installation - Phase 2 / Section III																												09-Oct-17; Installation - Phase 2/ Section III		
	Location 10,11,12,13 (Vehicle Clearance Kiosks)																												09-Oct-17; Location 10,11,12,13 (Vehicle Clearance Kiosks)		
	Location 12 Inbd Private Car Kiosks (027) - 12 nos (Phase 2)																												09-Oct-17; Location 12 Inbd Private Car Kiosks (027) - 12 nos (Phase 2)		
	EM4440	L12(027)(12nos P2) - Cable Laying and termination																											L12(027)(12nos P2) - Cable Laying and termination		
	EM4460	L12(027)(12nos P2) - Cable Splicing and Testing and Labeling																											L12(027)(12nos P2) - Cable Splicing and Testing and Labeling		
	EM4480	L12(027)(12nos P2) - AVCSS/DOH/MOM Kiosk Equipment Installation (12 nos)																											L12(027)(12nos P2) - AVCSS/DOH/MOM Kiosk Equipment Installation (12 nos)		
	Location 13 Outbd Private Car Kiosks (030) - 12 nos (Phase 2)																												01-Sep-17; Location 13 Outbd Private Car Kiosks (030) - 12 nos (Phase 2)		
	EM4560	L13(030)(12nos P2) - Cable Containment in Kiosks																											L13(030)(12nos P2) - Cable Containment in Kiosks		
	Location 12 Outbd Goods Vehicle Kiosks (029) - 3 nos (Phase 2)																												31-Aug-17; Location 12 Outbd Goods Vehicle Kiosks (029) - 3 nos (Phase 2)		
	EM4880	L12(029)(3nos P2) - Cable Laying and termination																											L12(029)(3nos P2) - Cable Laying and termination		
	EM4900	L12(029)(3nos P2) - Cable Splicing and Testing and Labeling																											L12(029)(3nos P2) - Cable Splicing and Testing and Labeling		
	EM4920	L12(029)(3nos P2) - AVCSS/DOH/MOM Kiosk Equipment Installation (3 nos)																											L12(029)(3nos P2) - AVCSS/DOH/MOM Kiosk Equipment Installation (3 nos)		
	EM4940	L12(029)(3nos P2) - ODB & XDB Installation (3 nos)																											L12(029)(3nos P2) - ODB & XDB Installation (3 nos)		
	EM4960	L12(029)(3nos P2) - AIOP Installation (3 nos)																											L12(029)(3nos P2) - AIOP Installation (3 nos)		
	EM4980	L12(029)(3nos P2) - Loop Installation (15 nos)																											L12(029)(3nos P2) - Loop Installation (15 nos)		
	Location 11 Outbd Coach Kiosks (009) - 4 nos (Phase 2)																														
	Location 12 Inbd Goods Vehicle Kiosks (028) - 3 nos (Phase 2)																												24-Aug-17; Location 12 Inbd Goods Vehicle Kiosks (028) - 3 nos (Phase 2)		
	EM4720	L12(028)(3nos P2) - Cable Laying and termination																											L12(028)(3nos P2) - Cable Laying and termination		
	EM4740	L12(028)(3nos P2) - Cable Splicing and Testing and Labeling																											L12(028)(3nos P2) - Cable Splicing and Testing and Labeling		
	EM4760	L12(028)(3nos P2) - AVCSS/DOH/MOM Kiosk Equipment Installation (3 nos)																											L12(028)(3nos P2) - AVCSS/DOH/MOM Kiosk Equipment Installation (3 nos)		
	EM4780	L12(028)(3nos P2) - ODB & XDB Installation (3 nos)																											L12(028)(3nos P2) - ODB & XDB Installation (3 nos)		
	EM4800	L12(028)(3nos P2) - AIOP Installation (3 nos)																											L12(028)(3nos P2) - AIOP Installation (3 nos)		
	EM4820	L12(028)(3nos P2) - Loop Installation (15 nos)																											L12(028)(3nos P2) - Loop Installation (15 nos)		
	EM4840	L12(028)(3nos P2) - Kiosk Equipment Configuration (3 nos)																											L12(028)(3nos P2) - Kiosk Equipment Configuration (3 nos)		
	EM5120	L12(028)(3nos P2) - Inbd Goods Vehicle Kiosks Installation Complete																											L12(028)(3nos P2) - Inbd Goods Vehicle Kiosks Installation Complete		
	Location 10 Shuttle Bus Kiosks (006) - 4 nos (Phase 2)																												30-Aug-17; Location 10 Shuttle Bus Kiosks (006) - 4 nos (Phase 2)		
EM4000	L10(006)(4nos P2) - Cable Containment in Kiosks																											L10(006)(4nos P2) - Cable Containment in Kiosks			
Location 11 Inbd Coach Kiosks (010) - 2 nos (Phase 2)-1																															
Location 11 Inbd Coach Kiosks (010) - 2 nos (Phase 2)-2																															
Initial On-Site Test and Commissioning / Pre-SAT (Phase 2 / Section III)																															

Programme No.: HZMB-DWP		Actual Level of Effort Primary Baseline Actual Work Remaining Work Critical Remaining Work Baseline Milestone Milestone	summary	Hong Kong-Zhuhai-Macao Bridge			Hong Kong Boundary Crossing			Facilities - Automatic Vehicle			Clearance Support System (AVCSS)			Date		Revision		Checked		Approved	
Data Date: 14-Aug-15				14-Nov-16			Rev.: 0			WC			LC										
				10-Mar-17			Rev.: 1.0a			WC			LC										
				5-May-17			Rev.: 1.0b			WC			LC										

Activity ID	Activity Name
-------------	---------------

[illegible]

Programme No.: HZMB-DWP
Data Date: 14-Aug-15

 Actual Level of Effort  summary
 Primary Baseline
 Actual Work
 Remaining Work
 Critical Remaining Work
  Baseline Milestone
  Milestone

Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)

Date	Revision	Checked	Approved
14-Nov-16	Rev: 0	WC	LC
10-Mar-17	Rev: 1.0a	WC	LC
5-May-17	Rev: 1.0b	WC	LC