

## **MATERIALAB CONSULTANTS LIMITED**

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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/0944

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### **Appendix C**

#### **Construction Programme**

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities						03-Nov-17			
Activity ID		Activity Name							
				2017		2018			
				Oct	Nov	Dec	Jan		
							Feb		
HKBCF - VCP & Ancillary Buildings and Facilities, DWP5 (+ DRM 2)									
Stages of the Project Completion									
Stage 1: 31st Dec. 2017									
A2010	All Kiosk 006, 009, 010, 027, 028, 029 & 030			◆ All Kiosk 006, 009, 010, 027, 028, 029 & 030					
A2020	Road Pavement: Traffic Lanes through Kiosk 4-2-2-4			◆ Road Pavement: Traffic Lanes through Kiosk 4-2-2-4					
A2030	Northern PTI (Except SW Corner)			◆ Northern PTI (Except SW Corner)					
A2040	Southern PTI			◆ Southern PTI					
A2050	All Carpark Area surrounded by A2, A6 & A7			◆ All Carpark Area surrounded by A2, A6 & A7					
A2060	Bridge A1 - 9			◆ Bridge A1 - 9					
A2070	Road Pavement: 2 Traffic Lanes through Kiosk 006, 009 & 010			◆ Road Pavement: 2 Traffic Lanes through Kiosk 006, 009 & 010					
A2080	Internal Road (up to TTA)			◆ Internal Road (up to TTA)					
A2090	Boundary Road (up to subbase) (Half Lane)			◆ Boundary Road (up to subbase) (Half Lane)					
A2100	Security Fencing			◆ Security Fencing					
A2200	Completion of Buildings			◆ Completion of Buildings					
Completion of Works									
Stage 1: Kiosks of 006, 009, 010, 027, 028, 029 & 030									
Kiosks of 027									
K010	9-Kiosks: RC Wall & Roof								
K020	9-Kiosks: Finishing, Glass Window & Door								
K030	9-Kiosks: Degree 3 Handover			◆ 9-Kiosks: Degree 3 Handover					
K032	Remaining 12-Kiosks: RC Wall & Roof								
K034	Remaining 12-Kiosks: Finishing, Glass Window & Door								
K036	Remaining 12-Kiosks: Degree 3 Handover			◆ Remaining 12-Kiosks: Degree 3 Handover					
K040	Installation of Steel Y-Junction, remaining								
K050	Installation of Cladding, remaining								
Kiosks of 028									
K150	5-Kiosks: RC Wall & Roof								
K160	5-Kiosks: Finishing, Glass Window & Door								
K170	5-Kiosks: Degree 3 Handover			◆ 5-Kiosks: Degree 3 Handover					
K172	Remaining 5-Kiosks: RC Wall & Roof								
K174	Remaining 5-Kiosks: Finishing, Glass Window & Door								
K176	Remaining 5-Kiosks: Degree 3 Handover			◆ Remaining 5-Kiosks: Degree 3 Handover					
K180	Installation of Steel Y-Junction, remaining								
K190	Installation of Cladding, remaining								
Kiosks of 029									
K100	5-Kiosks: RC Wall & Roof								
K110	5-Kiosks: Finishing, Glass Window & Door								
K120	5-Kiosks: Degree 3 Handover			◆ 5-Kiosks: Degree 3 Handover					
K122	Remaining 5-Kiosks: RC Wall & Roof								
K124	Remaining 5-Kiosks: Finishing, Glass Window & Door								
K126	Remaining 5-Kiosks: Degree 3 Handover			◆ Remaining 5-Kiosks: Degree 3 Handover					
K130	Installation of Steel Y-Junction, remaining								
K140	Installation of Cladding, remaining								
Kiosks of 030									
K200	9-Kiosks: RC Wall & Roof								
K210	9-Kiosks: Finishing, Glass Window & Door								
K220	9-Kiosks: Degree 3 Handover			◆ 9-Kiosks: Degree 3 Handover					
K222	Remaining 12-Kiosks: RC Wall & Roof								
K224	Remaining 12-Kiosks: Finishing, Glass Window & Door								
K226	Remaining 12-Kiosks: Degree 3 Handover			◆ Remaining 12-Kiosks: Degree 3 Handover					
K230	Installation of Steel Y-Junction, remaining								
K240	Installation of Cladding, remaining								
Kiosk 006 (All)									
K250	RC Wall & Roof								
K260	Finishing, Glass Window & Door								
K270	Degree 3 Handover			◆ Degree 3 Handover					
<div><div></div> Actual Work</div> <div><div></div> Remaining Work</div> <div><div></div> Critical</div>				WORKS PROGRAMME, AS OF 31 OCTOBER 2017 VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES Page 1 of 8		Date 31-Oct-17	Revision Works Programme (+DRM2), updated as of 31 Oct. 2017	Checked ZJ	Appro...



Activity ID	Activity Name												
		2017				2018							
		Oct			Nov			Dec			Jan		
R330	Street lighting												
R335	High Mast Lighting												
R340	Concrete Pavement												
R350	Road Marking												
R360	Security Fencing												
Through 2+2 Kiosks of 006, 009													
D210	Drainage												
D220	Sewerage												
D230	Watermains & Flush Watering												
D240	UU Ducts Laying												
R420	Kerb/Edges												
R425	U-channel												
R430	Street lighting												
R445	Concrete Pavement												
R450	Road Marking												
Through 2 Kiosks of 010, include Portion D													
D250	Drainage												
D260	Sewerage												
D270	Watermains & Flush Watering												
D280	UU Ducts Laying												
R1430	Kerb/Edges												
R1435	U-channel												
R1440	Street lighting												
R1450	Bitumen Pavement												
R1455	Concrete Pavement												
R1460	Road Marking												
Stage 1: Internal Road around Buildings and Boundary Road													
Internal Road - South of CUE, West Side (026-033)													
D310	Drainage												
D320	Sewerage												
D330	Watermains & Flush Watering												
D340	UU (LV & ELV etc.) Ducts Laying												
R510	Subbase & 1st RB, as TTA for Internal Road												
R520	Kerb/Edges												
R522	U-channel												
R540	Street lighting												
Internal Road - South of CUE, East Side (037-054)													
D350	Drainage												
D360	Sewerage												
D370	Watermains & Flush Watering												
D380	UU (LV & ELV etc.) Ducts Laying												
R470	Subbase & 1st RB, as TTA for Internal Road												
R490	Kerb/Edges												
R580	U-channel												
R980	Street lighting												
Internal Road - South of CUE, S/W Corner (049)													
D450	Drainage												
D460	Sewerage												
D470	Watermains & Flush Watering												
D480	UU (LV & ELV etc.) Ducts Laying												
R1990	Subbase & 1st RB, as TTA for Internal Road												
R2010	Kerb/Edges												
R2020	U-channel												
R2990	Street lighting												
Internal Road - North of CUE, West Side (023-057)													
D410	Drainage												
D420	Sewerage												

Actual Work

◆ Milestone

Remaining Work

Critical

Date	Revision	Checked	Appro...
31-Oct-17	Works Programme (+DRM2), updated as of 31 Oct. 2017	ZJ	

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities										03-Nov-17			
Activity ID		Activity Name											
				2017						2018			
				Oct		Nov		Dec		Jan		Feb	
<div></div>	D430	Watermains & Flush Watering											
	D440	UU (LV & ELV etc. ) Ducts Laying											
	R1110	Subbase & 1st RB, as TTA for Internal Road											
	R1140	Kerb/Edges											
	R1150	U-channel											
	R1160	Street lighting											
	Internal Road - North of CUE, East Side (024-031)												
	D500	Drainage											
	D520	Sewerage											
	D530	Watermains & Flush Watering											
	D540	UU (LV & ELV etc.) Ducts Laying											
	R1500	Subbase & 1st RB, as TTA for Internal Road											
	R1510	Kerb/Edges & U-channel											
	R3000	Street lighting											
	Stage 1: Bridges (All), include W7-W												
R1280	Installation of Movement Joint												
R1290	Backfilling to Retaining Walls and Embankment												
R1300	Parapet												
R1303	Railling												
R1330	Remaining Pavement on Bridges & Retaing Walls												
R1340	Lighting, Signages & Gantry												
R2170	Road Marking												
Stage 1: Boundary Road (Half Lane)													
North Boundary Road													
D510	Drainage												
D610	UU (LV & ELV etc.) Ducts Laying												
R770	Subbase & half lane with 1st RB												
R790	Kerb/Edges												
R810	U-channel												
R910	Security Fence												
R920	Street lighting												
East Boundary Road													
D620	Drainage												
D630	Sewerage												
D650	UU (LV & ELV etc.) Ducts Laying												
R2090	Subbase & half lane with 1st RB												
R2100	Kerb/Edges												
R2110	U-channel												
R2890	Security Fence												
R3010	Street lighting												
West Boundary Road													
D710	Drainage												
D720	UU (LV & ELV etc.) Ducts Laying												
R2120	Subbase & half lane with 1st RB												
R2130	Kerb/Edges												
R2140	U-channel												
R2930	Security Fence												
R3020	Street lighting												
South Boundary Road, include W7-W													
D660	Drainage												
D670	UU (LV & ELV etc.) Ducts Laying												
R2900	Subbase & half lane with 1st RB												
R2910	Kerb/Edges												
R2920	U-channel												
R2940	Security Fence												
R3030	Street lighting												
Stage 1: North of CUE, North Coast Road													

Actual Work

Remaining Work

Critical

◆

 Milestone

WORKS PROGRAMME, AS OF 31 OCTOBER 2017

VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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Date

31-Oct-17

Revision

Works Programme (+DRM2), updated as of 31 Oct. 2017

Checked

ZJ

Appro...



Activity ID		Activity Name																									
				2017				2017				2017				2018											
				Oct				Nov				Dec				Jan				Feb							
	D730	Drainage																									
	D740	Sewerage																									
	D750	Watermains & Flush Watering																									
	D760	UU (LV & ELV etc.) Ducts Laying																									
	R2030	Subbase & 1st RB, as TTA for Internal Road																									
	R2040	Kerb/Edges & U-channel																									
	R2950	Security Fence																									
	R3040	Street lighting																									
Stage 1: Public Transport Interchange																											
South Public Transport Interchange																											
D770	Drainage																										
D780	UU (LV & ELV etc.) Ducts Laying																										
R1260	Subbase & Pavement																										
R1350	Canopy for Covered Walkway																										
R3050	Street lighting																										
Around Horse Track																											
D11560	Drainage																										
D11570	Sewerage																										
R1550	Subbase & Pavement																										
R1570	Kerb/Edges																										
R1600	U-channel																										
R2150	Street Lighting																										
R2160	Road Marking																										
R3130	Security Fence																										
North Public Transport Interchange (Except SW Corner)																											
D810	Drainage																										
D820	UU (LV & ELV etc.) Ducts Laying																										
R1310	Subbase & Pavement																										
R1360	Canopy for Covered Walkway																										
R3060	Street lighting																										
R3090	Road Marking																										
Stage 1: Carpark & Taxi Queuing																											
Carparks																											
D830	Drainage																										
D840	UU (LV & ELV etc.) Ducts Laying																										
R1520	Subbase & pavement																										
R1540	Kerb/Edges																										
R1590	U-channel																										
R2960	Fencing																										
R3070	Street lighting																										
R3100	Road Marking																										
South Taxi Queuing																											
D850	Drainage																										
D860	UU (LV & ELV etc.) Ducts Laying																										
R2050	Subbase & Pavement																										
R2070	Kerb/Edges																										
R2080	U-channel																										
R2970	Fencing																										
R3080	Street lighting																										
R3110	Road Marking																										
Link Road West																											
D12020	Drainage																										
D12030	UU (LV & ELV etc.) Ducts Laying																										
R3370	Subbase & Pavement																										
R3390	Kerb/Edges																										
R3400	U-channel																										
R3410	Fencing																										

Activity ID	Activity Name					
		2017		2018		
		Oct	Nov	Dec	Jan	Feb
R3420	Street lighting					
R3430	Road Marking					
Stage 1: Security Fencing outside Boundary Roads (Exclude E&M)						
D11930	Security Fence, within internal road					
D11940	Security Fence, adjacent Kiosks					
D11950	Security Fence, other place					
Stage 1: FSD Inspection of Buildings (Access to Users)						
A00290	002 - C&ED Observation Guard Booth, Portion K No.1					
B00290	002 - C&ED Observation Guard Booth, Portion K No. 2					
B00294	002 - C&ED Observation Guard Booth, Portion H1 No. 1					
B00296	002 - C&ED Observation Guard Booth, Portion H1 No. 2					
B00298	002 - C&ED Observation Guard Booth, Portion R					
B00610	006 - Shuttle Bus Kiosk & Staff Subway					
B00910	009 - Outbound Coach Kiosk & Staff Subway					
B01010	010 - Inbound Coach Kiosk & Staff Subway					
C01240	012 - DOH Disinsection Area and Store , Portion A1					
C01252	012 - DOH Disinsection Area, Portion C, FSD inspection					
C02450	024 - Outbound Private Car Exam Building, FSD Inspection					
C02670	026 - Inbound IMMD and DOH Secondary Screening Building					
C02710	027 - Inbound VCP private Car Kiosks & Inbound Staff Subway					
C02810	028 - Inbound GV Kiosks & Inbound Staff subway					
C02910	029 - Outbound GV Kiosks & Outbound Staff subway					
C03010	030 - Outbound VCP Private Kiosk & Outbound Staff Subway					
C03190	031 - Outbound IMMD and DOH Secondary Screen Building					
C03380	033 - Inbound Private Car Exam Building, FSD Inspection					
C03460	034 - Satellite RCP South, FSD Inspection					
C03580	035 - Sewage Pumping Station, FSD Inspection					
C03660	036 - Weigh Station, FSD Inspection					
C03780	037 C&ED Tower & Inbound Cargo Examination Building					
C03850	038 - AFCD Office, FSD Inspection					
C03990	039 - Police Main Building, FSD Inspection					
D04070	040 - Incident Control Tower, FSD Inspection					
D04180	041 Fire Station & Ambulance Depot, FSD Inspection					
D04240	042 - Drill Tower, FSD Inspection					
D04320	043 - DOH Office + Store Room, FSD Inspection					
D04670	046 - Refuse Collection Point, FSD Inspection					
D04750	047 - Fresh Water Pumping Station, FSD Inspection					
D04850	048 - Reclaimed Water Pumping Station, FSD Inspection					
D04972	049 - Sewerage Treatment Plant, FSD Inspection					
D05170	051 - Transformers (Zone 5), FSD Inspection					
D05240	052 - Tranforms (Zone 4), FSD Inspection					
D05470	054 - Inbound Fixed X-ray, FSD Inspection					
D05770	057 - Transformers (Zone 2), FSD Inspection					
D06070	060 - Single Storey Support Buildingm FSD Inspection					
D06160	061 - Telecom Building, FSD Inspection					
D10060	100 - Inbound Traffic Control Kiosk, FSD Inspection					
D10150	101 - Outbound Traffic Control Kiosk, FSD Inspection					
D10250	102 - HKPF UVSS Monior Room, FSD inspection					
D10350	103 - Police Inspection Post, Portion B, FSD inspection					
D10400	104 - DOH Secondary Screening Station, Portion C					
D10425	104 - DOH Screening Station, Portion M, FSD Inspection					
D10435	104 - DOH Screening Station, Portion N, FSD Inspection					
D10560	105 - IMMD Guard Booth, Portion A1 , FS Inspection by FSD					
D10565	105 - IMMD Guard Booth, Portion P, FSD Inspection					
D10680	106 - C&ED Detention Area Guard Booth, FSD Inspection					
D10784	107 - C&ED Mobile Operation Office, Portion B, FSD inspection					
D10786	107 - C&ED Mobile X-ray Operation Office, Portion N					

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities										03-Nov-17			
Activity ID		Activity Name											
				2017					2018				
				Oct		Nov			Dec		Jan		Feb
	D10840	108 - C&ED Mobile X-ray Machine Operation Office, Portion C											
	D10890	108 - C&ED Mobile X-Ray Operation Office, portion M											
	D11040	110 - IMMD Guard Booth, Portion C-East, FS inspection											
	E11080	110 - IMMD Guard Booth, Portion C-West, FSD inspection											
	E11170	111 - Field Kiosk for Carpark Operator, FSD inspection											
	E11270	112 - Field Kiosk for Taxi Queuing Area, FSD Inspection											
	F11320	113 - Field Kiosk for Access Control, Portion C, FSD inspection											
	F11324	113 - Field Kiosk for Access Control, Portion B, FSD inspection											
	F11360	114 - Field Kiosk for Access Control, Portion D, FS inspection											
Stage 2: Traffic Lanes through Kiosk 9-5-5-9 & 006, 009 & 010													
	D550	Remaining Drainage											
	R1120	Remaining Subbase											
Inbound West: Through 5 Kiosk of 027													
	R1620	U-channel											
	R1630	Kerb/Edges											
	R1640	Street lighting											
	R1650	Bitumen Pavement											
Inbound East: Through 3 Kiosk of 028													
	R2180	U-channel											
	R2190	Kerb/Edges											
	R2200	Street lighting											
	R2210	Bitumen Pavement											
Outbound West: Through 3 Kiosk of 029													
	R2230	U-channel											
	R2240	Kerb/Edges											
	R2250	Street lighting											
	R2260	Bitumen Pavement											
Outbound East: Through 5 Kiosk of 030													
	R2280	U-channel											
	R2290	Kerb/Edges											
	R2300	Street lighting											
	R2310	Bitumen Pavement											
Through 2+2 Kiosks of 006, 009													
	R1820	U-channel											
	R1830	Kerb/Edges											
	R1840	Street lighting											
	R1850	Bitumen Pavement											
Through 2 Kiosks of 010													
	R1870	U-channel											
	R1880	Kerb/Edges											
	R1890	Street lighting											
	R1900	Bitumen Pavement											
Internal Road - South of CUE, West Side (026-033)													
	R2330	1st Layer RB											
Internal Road - South of CUE, East Side (037-054)													
	R2420	1st Layer RB											
Internal Road - North of CUE, West Side (023-057)													
	R2430	1st Layer RB											
Internal Road - North of CUE, East Side (024-031)													
	R2440	1st Layer RB											
Remaining North PTI (SW Corner)													
	R3140	Remaining North PTI (SW Corner)											
South Boundary Road													
	R3150	South Boundary Road, up to WC											
Stage 3													
North Boundary Road													
<div><div></div> Actual Work</div> <div><div></div> Remaining Work</div> <div><div></div> Critical</div> <div>◆ Milestone</div>				WORKS PROGRAMME, AS OF 31 OCTOBER 2017 VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES					Date	Revision		Checked	Appro...
									31-Oct-17	Works Programme (+DRM2), updated as of 31 Oct. 2017		ZJ	














































Activity ID	Activity Name																								
		2017												2018											
		Oct						Nov						Dec						Jan					
R2600	Pavement with street lighting up to 1st Layer RB																								
	<b>East Boundary Road</b>																								
R2530	Pavement with street lighting up to 1st Layer RB																								
	<b>West Boundary Road</b>																								
R2610	Pavement with street lighting up to 1st Layer RB																								







Contract No.: HY/2013/06		Detail Work Programme										Page 3 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												
<div></div>	 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)																																								
	 EM1920	L1(001)B/F - Cable Laying and termination at Location 1 and Location 2																																							
	 Location 1(PCB (001) ELV Room (Grid Line E3))																																								
	 EM1940	L1(001)ELV Rm - Cable Laying and termination at Location 1 and Location 2																																							
	 Location 2(PCB (001) Ground Floor ELV Room (Grid Line E3))																																								
	 EM1960	L2(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))																																								
	 EM1080	L2(001)Heath Ctrl Rm - Cable Laying and termination at Location 1 and Location 2																																							
	 EM1100	L2(001)Heath Ctrl Rm - Cable Splicing and Testing and Labeling																																							
	 EM1120	L2(001)Health Ctrl Rm - Intercom and PA system Installation																																							
	 EM1140	L2(001)Heath Ctrl Rm - Intercom and PA system tuning																																							
	 Location 2(PCB (001) First Floor Main Server Room)																																								
	 EM1000	L2(001)Main Server Rm - Cable Laying and termination at Location 1 and Location 2																																							
	 EM1020	L2(001)Main Server Rm - Cable Splicing and Testing and Labeling																																							
	 EM1040	L2(001)Main Server Rm - AVCSS Network and Server Installation																																							
	 EM1060	L2(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)																																								
	 EM2020	L3(037)Inspec Offices - Cable Laying and termination in Location 3 and Location 3a																																							
	 EM2040	L3(037)Inspec Offices - Cable Splicing and Testing and Labeling																																							
	 EM2060	L3(037)Inspec Offices - AVCSS SURCON WS and 55" LCD Installation																																							
	 EM2080	L3(037)Inspec Offices - VTS WS Installation																																							
 EM2100	L3(037)Inspec Offices - SURCON and WS Tuning																																								
 Location 3(Inbd Cargo Exam Bldg (037) Platform Control Room)																																									
 EM1160	L3(037)PLF Ctrl Rm - Cable Laying and termination in Location 3 and Location 3a																																								
 EM1180	L3(037)PLF Ctrl Rm - Cable Splicing and Testing and Labeling																																								
 EM1200	L3(037)PLF Ctrl Rm - AVCSS SYSCON WS and 55" TV Wall Installation																																								
 EM1220	L3(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

summary

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









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						
		<b>Outbd Vehicle Clearance Plaza - 8 nos VID, 6 nos VTS, 4 nos TLS</b>																						02-Aug-17, Outbd Vehicle Clearance Plaza - 8 nos V											
		EM3160 Outbound VID cabling from pillar box to VID field equipment																						Outbound VID cabling from pillar box to VID field equipr											
		EM3180 Outbound VTS cabling from pillar box to VTS field equipment																						Outbound VTS cabling from pillar box to VTS field equi											
		EM3200 Outbound TLS cabling from pillar box to TLS field equipment																						Outbound TLS cabling from pillar box to TLS field equ											
		EM3220 Outbound VID field equipment installation (8 VID)																						Outbound VID field equipment installation (8 VID)											
		EM3240 Outbound VTS field equipment installation (3 RFID + 3 Cameras)																						Outbound VTS field equipment installation (3 RFID +											
		EM3260 Outbound TLS field equipment installation (4 TLS)																						Outbound TLS field equipment installation (4 TLS)											
		EM3280 Outbound VID and VTS and TLS field equipment tuning																						Outbound VID and VTS and TLS field equipment tun											
		<b>Underground Ducting (UUD1.1) between CUE and Inbd Cargo Exam Bldg (037)</b>																						13-Jun-17, Underground Ducting (UUD1.1) between C											
		UD1000 (UUD1.1 [CUE-037]) - Cable laying and termination																						(UUD1.1 [CUE-037]) - Cable laying and termination											
		<b>(UUD1.2) between Inbd Cargo Exam Bldg South (037[S]) and DOH Cargo Clearance Bldg (037)</b>																						27-Jun-17, (UUD1.2) between Inbd Cargo Exam Bldg											
		UD1060 (UUD1.2 [037[S]-043]) - Cable laying and termination																						(UUD1.2 [037[S]-043]) - Cable laying and termination											
		<b>Underground Ducting (UUD6) between CUE and Shuttle Bus Kiosk (006) and Inbd Private Car Exam Bldg (033)</b>																																	
		<b>(UUD9.1) btw IB Cargo Exam Bldg South(037[S]) &amp; IB PC Exam Bldg(033) &amp; IB Traffic Control Bldg (023)</b>																						12-Jul-17, (UUD9.1) btw IB Cargo Exam Bldg South(											
		UD1040 (UUD9.1 [037[S]-033-100]) - Cable laying and termination																						(UUD9.1 [037[S]-033-100]) - Cable laying and termina											
		<b>(UUD2) between Inbd Cargo Exam Bldg North (037[N]) to Inbd VCP</b>																						26-Jul-17, (UUD2) between Inbd Cargo Exam Bldg I											
		UD1010 (UUD2 [037[N]-IB VCP]) - Cable laying and termination																						(UUD2 [037[N]-IB VCP]) - Cable laying and terminat											
		<b>(UUD9.3) between Inbd Private Car Exam Bldg (033) and Inbd Vehicle Clearance Plaza</b>																						09-Aug-17, (UUD9.3) between Inbd Private Car Ex											
		UD1070 (UUD9.3 [033-IB VCP[W]]) - Cable laying and termination																						(UUD9.3 [033-IB VCP[W]]) - Cable laying and termi											
		<b>(UUD9.2) between Inbd Private Car Exam Bldg (033) and Inbd Vehicle Clearance Plaza</b>																						23-Aug-17, (UUD9.2) between Inbd Private Car E											
		UD1020 (UUD9.2 [033-IB VCP[E]]) - Cable laying and termination																						(UUD9.2 [033-IB VCP[E]]) - Cable laying and termi											
		<b>Underground Ducting (UUD7) between PCB(001) and Inbd Coach Kiosks(010)</b>																																	
		<b>Underground Ducting (UUD3.1) between CUE and Outbd Cargo Exam Bldg (023)</b>																						14-Jun-17, Underground Ducting (UUD3.1) between C											
		UD1030 (UUD3.1 [CUE-023]) - Cable laying and termination																						(UUD3.1 [CUE-023]) - Cable laying and termination											
		<b>(UUD3.2) btw OB Car Exam Bldg(023) &amp; OB PC Exam Bldg(024) &amp; OB Traffic Control Bldg (023)</b>																						28-Jun-17, (UUD3.2) btw OB Car Exam Bldg(023) & C											
		UD1050 (UUD3.2 [023-024-101]) - Cable laying and termination																						(UUD3.2 [023-024-101]) - Cable laying and termination											
		<b>Underground Ducting (UUD8) between CUE and Outbd PCA (032)</b>																						13-Jun-17, Underground Ducting (UUD8) between CUE											
		UD1100 (UUD8 [CUE-032]) - Cable laying and termination																						(UUD8 [CUE-032]) - Cable laying and termination											
		<b>(UUD4.1) between Outbd PC Exam Bldg (024) and Outbd Vehicle Clearance Plaza</b>																						13-Jul-17, (UUD4.1) between Outbd PC Exam Bldg (											
		UD1080 (UUD4.1 [024-OB VCP]) - Cable laying and termination																						(UUD4.1 [024-OB VCP]) - Cable laying and terminat											
		<b>(UUD5) between Outbd Car Exam Bldg (023[S]) and Outbd Vehicle Clearance Plaza</b>																						27-Jun-17, (UUD5) between Outbd Car Exam Bldg (02											
		UD1090 (UUD5 [023[S]-OB VCP]) - Cable laying and termination																						(UUD5 [023[S]-OB VCP]) - Cable laying and terminat											
		<b>Initial On-Site Test and Commissioning / Pre-SAT (Phase 1 / Section I)</b>																																	
<b>Site Acceptance Test (Phase 1 / Section I)</b>																																			
<b>Security Risk Assessment and Audit</b>																																			
<b>Operability Period Test (Phase 1 / Section I)</b>																																			
<b>Completion (Phase 1 /Section I)</b>																																			
<b>Training and Document (Phase 1 /Section I)</b>																																			
<b>Operation (Phase 1 /Section I)</b>																																			
<b>Engineering Support for Phase 1 / Section I</b>																																			
<b>Procurement - Phase 2 / Section II</b>																																			
<b>Delivery and Bench Acceptance Test for Phase 2/Section II</b>																																			
<b>Installation - Phase 2 / Section II</b>																						30-Aug-17, Installation - Phase 2/ Section II													

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

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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																																		
	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																																		
	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																																		
	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																																		
	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											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		Primary Baseline																																		14-Nov-16				Rev.: 0				WC				LC																						
		Actual Work																						10-Mar-17													Rev.: 1.0a				WC				LC																										
		Remaining Work																						5-May-17													Rev.: 1.0b				WC				LC																										
		Critical Remaining Work																																																																					
		Baseline Milestone																																																																					
		Milestone																																																																					



