

Appendix B

## Construction Programme

ID	Activity	Duration (Days)	Duration % Complete	Start	Finish	Total Float	2018												2019												2020								
							May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep				
HY2017/10 - Works Programme Three Month Rolling Programme 20-Apr-20																																							
Contract Dates																																							
Key Dates																																							
	KD05	KD05 - E&M for Toll Area,N1,Underpass,Plant Rm,Footbridges/Roads	0	0%																																			
	KD06A	KD6A - E&M for Approach Roads and At-Grade Rd at North Side	0	0%																																			
	KD06B	KD6B - E&M for South Vent Duct, Tunnel, Approach Roads	0	0%																																			
	KD06C	KD6C - E&M for South Vent Building	0	0%																																			
	KD07	KD07 - E&M for Satellite Control Bldg and S1 & S2	0	0%																																			
	KD07A	KD7A - E&M for Approach Roads and At-Grade Rd at South Side	0	0%																																			
	KD10	KD10 - FSD Building, E&M Works, & FSD Inspection	0	0%																																			
Portion Possession Dates																																							
	P325	Possession to Portion XXII (Day 483)	0	0%																																			
	P335	Possession to Portion XXIII (Day 483)	0	0%																																			
Portion Handover Dates																																							
	H120	Vacate Portion XVIb (KD10+28)	0	0%																																			
	H130	Vacate Portion XVIa (KD10+28)	0	0%																																			
Major Design Submission & Approval																																							
Toll Control Building																																							
MVAC System																																							
	TCB-EMD1095	Authorities Review and Comment of AHU/PAU Static Pressure Calculation	56	95%																																			
	TCB-EMD1115	Authorities Review and Comment of MVAC Pump head calculation	56	95%																																			
Electrical System																																							
	TCB-EMD1015	Authorities Review and Comment of UPS and Battery Capacity Calculations	56	95%																																			
	TCB-EMD1055	Authorities Review and Comment of Generator Calculation	56	95%																																			
Fire Service System																																							
	TCB-EMD1175	Authorities Review and Comment of FS Pump Head Calculation	56	95%																																			
	TCB-EMD1195	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	95%																																			
	TCB-EMD1215	Authorities Review and Comment of FM200 System Design Calculation	56	95%																																			
Plumbing & Drainage System																																							
	TCB-EMD1235	Authorities Review and Comment of Pump Head Calculation	56	95%																																			
	TCB-EMD1275	Authorities Review and Comment of Hot water system capacity calculation	56	95%																																			
	TCB-EMD1395	Authorities Review and Comment of Drainage Sump Pumps and Pump Pits Calculation	56	95%																																			
Administration Building																																							
MVAC System																																							
	ADB-EMD1015	Authorities Review and Comment of AC Cooling Capacity Calculation	56	95%																																			
	ADB-EMD1035	Authorities Review and Comment of AHU/PAU Static Pressure Calculation	56	95%																																			
	ADB-EMD1055	Authorities Review and Comment of Pump head calculation	56	95%																																			
	ADB-EMD1075	Authorities Review and Comment of Mechanical Ventilation Capacity Calculation	56	95%																																			
Electrical System																																							
	ADB-EMD1115	Authorities Review and Comment of Electrical Loading Demand Calculation	56	95%																																			
	ADB-EMD1135	Authorities Review and Comment of Generator Calculation	56	95%																																			
Fire Service System																																							
	ADB-EMD1155	Authorities Review and Comment of FS Pump Head Calculation	56	95%																																			
	ADB-EMD1175	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	95%																																			
Plumbing & Drainage System																																							
	ADB-EMD1215	Authorities Review and Comment of Pump Head Calculation	56	95%																																			
	ADB-EMD1235	Authorities Review and Comment of Pressure Vessel Calculation	56	95%																																			
	ADB-EMD1255	Authorities Review and Comment of Hot water system capacity calculation	56	95%																																			
North Ventilation Building																																							

CONTRACT NO. HY2017/10				P 1	Date	Revision	Checked	Approved
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS					20-Apr-20			
THREE MONTHLY PROGRAMME AS OF 20 Apr 2020								

ID		Activity	Duration (Days)	Duration % Complete	Start	Finish	Total Float	2018												2019												2020				
								May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
		MVAC System																																		
		NVB-EMD1035	Authorities Review and Comment of Mechanical Ventilation Capacity Calculation	56	95%																															
		Electrical System																																		
		NVB-EMD1055	Authorities Review and Comment of HV Electrical Loading Calculation	56	95%																															
		NVB-EMD1075	Authorities Review and Comment of UPS and Battery Capacity Calculations	56	95%																															
		NVB-EMD1095	Authorities Review and Comment of Electrical Loading Demand Calculation	56	95%																															
		NVB-EMD1115	Authorities Review and Comment of Generator Calculation	56	95%																															
		Fire Service System																																		
		NVB-EMD1135	Authorities Review and Comment of FS Pump Head Calculation	56	95%																															
		NVB-EMD1155	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	95%																															
		NVB-EMD1175	Authorities Review and Comment of FM200 System Design Calculation	28	95%																															
		Plumbing & Drainage System																																		
		NVB-EMD1305	Authorities Review and Comment of Drainage Sump Pumps and Pump Pits Calculation	56	95%																															
		Maintenance Depot																																		
		MVAC System																																		
		MD-EMD1015	Authorities Review and Comment of AC Cooling Capacity Calculation	56	95%																															
		Electrical System																																		
		MD-EMD1075	Authorities Review and Comment of Electrical Loading Demand Calculation	56	95%																															
		MD-EMD1095	Authorities Review and Comment of Generator Calculation	56	95%																															
		Fire Service System																																		
		MD-EMD1115	Authorities Review and Comment of FS Pump Head Calculation	56	95%																															
		MD-EMD1135	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	95%																															
		MD-EMD1155	Authorities Review and Comment of FM200 System Design Calculation	56	95%																															
		Plumbing & Drainage System																																		
		MD-EMD1175	Authorities Review and Comment of Pump Head Calculation	56	95%																															
		MD-EMD1195	Authorities Review and Comment of Pressure Vessel Calculation	56	95%																															
		MD-EMD1215	Authorities Review and Comment of Drainage Sump Pumps and Pump Pits Calculation	56	95%																															
		Satellite Control Building																																		
		Electrical System																																		
		SCB-EMD1055	Authorities Review and Comment of UPS and Battery Capacity Calculations	56	95%																															
		SCB-EMD1075	Authorities Review and Comment of Electrical Loading Demand Calculation	56	95%																															
		SCB-EMD1095	Authorities Review and Comment of Generator Calculation	56	95%																															
		Fire Service System																																		
		SCB-EMD1115	Authorities Review and Comment of FS Pump Head Calculation	56	95%																															
		SCB-EMD1135	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	95%																															
		SCB-EMD1155	Authorities Review and Comment of FM200 System Design Calculation	56	95%																															
		Plumbing & Drainage System																																		
		SCB-EMD1285	Authorities Review and Comment of Pump Head Calculation	56	95%																															
		SCB-EMD1335	Authorities Review and Comment of Pressure Vessel Calculation	56	95%																															
		Costom & Excise Department Building																																		
		Electrical System																																		
		CEDB-EMD1015	Authorities Review and Comment of UPS and Battery Capacity Calculations	56	95%																															
		CEDB-EMD1035	Authorities Review and Comment of Electrical Loading Demand Calculation	56	95%																															
		CEDB-EMD1055	Authorities Review and Comment of Generator Calculation	56	95%																															
		Fire Service System																																		
		CEDB-EMD1075	Authorities Review and Comment of FS Pump Head Calculation	56	95%																															

ID		Activity	Duration (Days)	Duration % Complete	Start	Finish	Total Float	2018												2019												2020								
								May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep				
		CEDB-EMD1095	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	95%																																			
		Plumbing & Drainage System																																						
		CEDB-EMD1135	Authorities Review and Comment of Pump Head Calculation	56	95%																																			
		CEDB-EMD1155	Authorities Review and Comment of Pressure Vessel Calculation	56	95%																																			
		Fire Services Department Building																																						
		Electrical System																																						
		FSDB-EMD1015	Authorities Review and Comment of UPS and Battery Capacity Calculations	56	95%																																			
		FSDB-EMD1035	Authorities Review and Comment of Electrical Loading Demand Calculation	56	95%																																			
		FSDB-EMD1055	Authorities Review and Comment of Generator Calculation	56	95%																																			
		Fire Service System																																						
		FSDB-EMD1075	Authorities Review and Comment of FS Pump Head Calculation	56	95%																																			
		FSDB-EMD1095	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	95%																																			
		FSDB-EMD1205	Authorities Review and Comment of FM200 System Design Calculation	56	95%																																			
		Plumbing & Drainage System																																						
		FSDB-EMD1135	Authorities Review and Comment of Pump Head Calculation	56	95%																																			
		FSDB-EMD1155	Authorities Review and Comment of Pressure Vessel Calculation	56	95%																																			
		South Ventilation Building																																						
		MVAC System																																						
		SVB-EMD1015	Authorities Review and Comment of Staircase Pressurization System Calculation	56	95%																																			
		SVB-EMD1035	Authorities Review and Comment of Mechanical Ventilation Capacity Calculation	56	95%																																			
		Electrical System																																						
		SVB-EMD1055	Authorities Review and Comment of HV Electrical Loading Calculation	56	95%																																			
		SVB-EMD1095	Authorities Review and Comment of Electrical Loading Demand Calculation	56	95%																																			
		SVB-EMD1115	Authorities Review and Comment of Generator Calculation	56	95%																																			
		Fire Service System																																						
		SVB-EMD1135	Authorities Review and Comment of FS Pump Head Calculation	56	95%																																			
		SVB-EMD1155	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	95%																																			
		SVB-EMD1175	Authorities Review and Comment of FM200 System Design Calculation	56	95%																																			
		Vehicular Underpass																																						
		Fire Service System																																						
		VU-EMD1025	Authorities Review and Comment of Foam system design calculation	56	95%																																			
		Plumbing & Drainage System																																						
		VU-EMD1045	Authorities Review and Comment of Pump Head Calculation	56	95%																																			
		Tunnel Lighting System																																						
		VU-EMD1145	Authorities Review and Comment of Design Proposal of Tunnel Lighting System (TLS)	56	95%																																			
		VU-EMD1165	Authorities Review and Comment of Tunnel Lighting Lux Calculation	56	95%																																			
		Tunnel																																						
		Fire Service System																																						
		TUN-EMD1035	Authorities Review and Comment of Foam system design calculation	56	95%																																			
		TUN-EMD1115	Authorities Review and Comment of FS Pump Head Calculation	56	95%																																			
		TUN-EMD1135	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	95%																																			
		Plumbing & Drainage System																																						
		TUN-EMD1185	Authorities Review and Comment of Drainage Sump Pumps and Pump Pits Calculation	56	95%																																			
		CCMS, TCS and ELV System																																						
		ELV-EMD1015	Authorities Review and Comment of System Design for Toll Control system	56	95%																																			
		ELV-EMD1035	Authorities Review and Comment of System Design for CMCS	56	95%																																			

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		ELV-EMD1055	Authorities Review and Comment of System Design for other ELV systems	56	95%																															
Major Material Submission & Approval																																				
		GEN-EMM1020	Authorities Review and Comment of Technical Info. - Miscellaneous 1st fix Materials/ Equipment	28	95%																															
		GEN-EMM1050	Authorities Review and Comment of Technical Info. - Miscellaneous 2nd fix Materials/ Equipment	28	95%																															
		GEN-EMM1080	Authorities Review and Comment of Technical Info. - Miscellaneous final fix Materials/ Equipment	28	95%																															
MVAC System																																				
		MVAC-EMM1015	Authorities Review and Comment of Technical Info. - Chiller	56	95%																															
		MVAC-EMM1035	Authorities Review and Comment of Technical Info. - Chilled Water Pump	56	95%																															
		MVAC-EMM1075	Authorities Review and Comment of Technical Info. - Computer Room AC (CRAC) Unit	56	95%																															
		MVAC-EMM1095	Authorities Review and Comment of Technical Info. - AHU & PAU	56	95%																															
		MVAC-EMM1115	Authorities Review and Comment of Technical Info. - Staircase Pressurization Fan	56	95%																															
Electrical System																																				
		ELE-EMM1155	Authorities Review and Comment of Technical Info. - UPS and Battery	28	95%																															
		ELE-EMM1175	Authorities Review and Comment of Technical Info. - MCB & MCCB & Distribution Board	28	95%																															
Fire Service System																																				
		FS-EMM1015	Authorities Review and Comment of Technical Info. - FM200	56	95%																															
		FS-EMM1095	Authorities Review and Comment of Technical Info. - FR/ HR system	56	95%																															
		FS-EMM1115	Authorities Review and Comment of Technical Info. - Gas detection	56	95%																															
Plumbing & Drainage System																																				
		PD-EMM1015	Authorities Review and Comment of Technical Info. - Sump Pump	56	95%																															
		PD-EMM1035	Authorities Review and Comment of Technical Info. - Hot Water System	56	95%																															
		PD-EMM1055	Authorities Review and Comment of Technical Info. - LMCP (PD)	56	95%																															
Tunnel Ventilation System																																				
		TVS-EMM1035	Authorities Review and Comment of Technical Info. - Pressurization Fan	56	95%																															
		TVS-EMM1155	Authorities Review and Comment of Technical Info. - MFSD	56	95%																															
Tunnel and Road Lighting System																																				
		TRLS-EMM1035	Authorities Review and Comment of Technical Info. - Road Lighting Fitting	56	95%																															
CCMS, TCS and ELV System																																				
		ELV-EMM1020	Authorities Review and Comment of Technical Info. - CMCS Equipment	56	95%																															
Drawing Submission & Approval																																				
Satellite Control Building																																				
		Individual Shop Drawing																																		
		SCB-ISD1040	Authorities Review and Comment of SCB ISD 1st batch	28	95%																															
		SCB-ISD1090	Authorities Review and Comment of SCB ISD 2nd batch	28	95%																															
Costom & Excise Department Building																																				
		Individual Shop Drawing																																		
		CEDB-ISD1040	Authorities Review and Comment of C&EDB ISD 1st batch	28	95%																															
		CEDB-ISD1090	Authorities Review and Comment of C&EDB ISD 2nd batch	28	95%																															
Tunnel																																				
		Individual Shop Drawing																																		
		TUN-ISD1090	Authorities Review and Comment of Tunnel ISD 2nd batch	28	95%																															
		TUN-ISD1140	Authorities Review and Comment of Tunnel ISD 3rd batch	28	95%																															
		TUN-ISD1190	Authorities Review and Comment of Tunnel ISD 4th batch	28	95%																															
Fire Services Department Building																																				
		Individual Shop Drawing																																		
		FSDB-ISD1040	Authorities Review and Comment of FSDB ISD 1st batch	28	95%																															
		FSDB-ISD1090	Authorities Review and Comment of FSDB ISD 2nd batch	28	95%																															
Vehicular Underpass																																				
		Individual Shop Drawing																																		



[illegible]

[illegible]

CONTRACT NO. HY2017/10  
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS  
THREE MONTHLY PROGRAMME AS OF 20 Apr 2020

P 6	Date	Revision	Checked	Approved
	20-Apr-20			

ID		Activity	Duration (Days)	Duration % Complete	Start	Finish	Total Float	2018												2019												2020				
								May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
		CH 5600 - 5000																																		
		TNU-RL1280	High level wiring works and remaining High level works in the middle of tunnels - CH5600 to 5000	24	96%																															
		TNU-RL1310	Final connection to small powers - CH5600 to 5000	10	65%																															
		TNU-RL1320	Cladding works - CH5600 to 5000	15	85%																															
CH5000 - 3050																																				
CH5000 - 4500																																				
	TNU-RL1900	High level wiring works and remaining High level works in the middle of tunnels - CH5000 to 4500	20	93%																																
	TNU-RL1960	Final connection to small powers - CH5000 to 4500	10	65%																																
	TNU-RL1980	Cladding works - CH5000 to 4500	13	93.01%																																
CH4500 - 4000																																				
	TNU-RL1390	High level wiring works and remaining High level works in the middle of tunnels - CH4500 to 4000	20	93%																																
	TNU-RL1420	Final connection to small powers - CH4500 to 4000	10	65%																																
	TNU-RL1430	Cladding works - CH4500 to 4000	13	93.01%																																
CH4000 - 3500																																				
	TNU-RL1500	High level wiring works and remaining High level works in the middle of tunnels - CH4000 to 3500	20	93%																																
	TNU-RL1530	Final connection to small powers - CH4000 to 3500	10	65%																																
	TNU-RL1540	Cladding works - CH4000 to 3500	13	93.01%																																
CH3500 - 3050																																				
	TNU-RL1610	High level wiring works & remaining High level works in the tunnel middle - CH3500 to 3050	20	93%																																
	TNU-RL1640	Final connection to small powers - CH3500 to 3050	10	65%																																
	TNU-RL1650	Cladding works - CH3500 to 3050	11	93.01%																																
CH3050 - 2500 (ML02)																																				
	TNU-RL1720	High level wiring works and remaining High level works in the middle of tunnels - CH3050 to 2500	12	85%																																
	TNU-RL1750	Final connection to small powers - CH3050 to 2500	4	60%																																
	TNU-RL1760	Cladding works - CH3050 to 2500	14	60%																																
CH3050 - 2500 (ML03)																																				
	TNU-RL3170	High level wiring works and remaining High level works in the middle of tunnels - CH3050 to 2500	12	92.99%																																
	TNU-RL3210	Final connection to small powers - CH3050 to 2500	4	60%																																
	TNU-RL3220	Cladding works - CH3050 to 2500	14	50%																																
Other Works																																				
	TNU-OW1010	FR enclosure installation	42	35%																																
T&C																																				
	TNL-10TC1016	Partial T&C for Tunnel Ventilation System - CH 7200 to 2500	89	80%																																
	TNL-10TC1020	T&C for Tunnel Lighting - CH 7200 to 2500	47	20%																																
	TNL-10TC1030	T&C for other Tunnel Services - CH 7200 to 2500	48	35%																																
	TNL-10TC1050	T&C for MSFD - CH 7200 to 2500	30	85%																																
	TNL-10TC1060	T&C for Service Gallery - Sprinkler System - CH 7200 to 2500	40	40%																																
	TNL-10TC1070	T&C for Services Gallery - other services - CH 7200 to 2500	40	40%																																
	TNL-10TC1075	KD6B Achieved	0	0%																																
Key Date 7 - E&M Works for Satellite Control Building and Kiosks S1&S2																																				
E&M Works for Satellite Control Building																																				
E&M Works																																				
Installation																																				
G/F																																				
	SCB-EMGF1000	ABWF Works ready for E&M Mobilization to General Areas - G/F	0	0%																																
	SCB-EMGF1020	E&M Installation - 2nd fix - G/F	30	100%																																

CONTRACT NO. HY2017/10

NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS

THREE MONTHLY PROGRAMME AS OF 20 Apr 2020

P 7	Date	Revision	Checked	Approved
	20-Apr-20			



		Activity	Duration (Days)	Duration % Complete	Start	Finish	Total Float	2018												2019												2020								
								May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep				
		SCB-EMGF1030	E&M Installation - Final fix - G/F	30	90%																																			
		SCB-EMGF1070	E&M Installation - LV Switch Room - G/F	60	95%																																			
		SCB-EMGF1080	Cable laying - LV Switch Room - from G/F	42	100%																																			
		SCB-EMGF1090	Sub-Circuit Power On - LV Switch Room - G/F	0	0%																																			
		SCB-EMGF1140	Wiring Inspection with CLP	3	100%																																			
		SCB-EMGF1150	Power On Energization by CLP	0	100%																																			
		SCB-EMGF1180	E&M Installation - FS Plant Rooms - G/F	80	95%																																			
		SCB-EMGF1200	E&M Installation - PD Plant Rooms - G/F	90	70%																																			
	1/F																																							
		SCB-EM1F1000	ABWF Works ready for E&M Mobilization to General Areas - 1/F	0	0%																																			
		SCB-EM1F1020	E&M Installation - 2nd fix - 1/F	30	100%																																			
		SCB-EM1F1030	E&M Installation - Final fix - 1/F	30	90%																																			
		SCB-EM1F1050	E&M Installation - Computer Room (TCSS) - 1/F	60	70%																																			
		SCB-EM1F1080	E&M Installation - EL Room - 1/F	90	95%																																			
		SCB-EM1F1100	E&M Installation - FS Plant Rooms - 1/F	85	95%																																			
		SCB-EM1F1120	E&M Installation - ELV Plant Room - 1/F	70	70%																																			
	Roof																																							
		SCB-EMRF1003	E&M Installation - 1st fix - R/F	25	100%																																			
		SCB-EMRF1006	E&M Installation - 2nd fix - R/F	25	100%																																			
		SCB-EMRF1010	E&M Installation - Final fix - R/F	25	90%																																			
		SCB-EMRF1030	E&M Installation - FS Plant Rooms	75	95%																																			
	Lift Installation (L01)																																							
		SCB-LF1020	Lift & lift machine room installation	75	80%																																			
		SCB-LF1030	Testing & commissioning	12	0%																																			
		SCB-LF1040	Final adjustment, Submission of Form LE5 & EMSD processing	18	0%																																			
		SCB-LF1050	Issuance of lift use permit	0	0%																																			
	Testing & Commissioning																																							
		SCB-TC1000	T&C for Subcircuit Power On	18	50%																																			
		SCB-TC1010	T&C for DG Licence	6	0%																																			
		SCB-TC1020	Equipment Start-up T&C for FSI	6	0%																																			
		SCB-TC1023	Individual E&M System T&C for FSI	12	0%																																			
		SCB-TC1025	Integrated T&C for FSI	6	0%																																			
		SCB-TC1030	Non-Essential T&C	30	0%																																			
		SCB-TC1040	KD7 Achieved	0	0%																																			
	Kiosk S2																																							
		S2140	E&M works	36	0%																																			
		S2150	T&C	12	0%																																			
	Key Date 6C - E&M Works for South Ventilation Building																																							
	Installation																																							
	B2/F																																							
		SVB-EMB21020	E&M Installation - 2nd fix - B2/F	25	98%																																			
		SVB-EMB21030	E&M Installation - Final fix - B2/F	25	92%																																			
		SVB-EMB21060	E&M Installation - Electrical Plant Rooms- B2/F	40	95%																																			
		SVB-EMB21080	E&M Installation - MVAC Palnt Rooms - B2/F	60	85%																																			
		SVB-EMB21100	E&M Installation - FS Plant Rooms - B2/F	45	95%																																			
		SVB-EMB21110	E&M Installation - PD Palnt Rooms - B2/F	60	65%																																			
	B1/F																																							

ID		Activity	Duration (Days)	Duration % Complete	Start	Finish	Total Float	2018												2019												2020																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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		SVB-EMB11020	E&M Installation - 2nd fix - B1/F	25	98%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

CONTRACT NO. HY2017/10				P 9	Date	Revision	Checked	Approved
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS					20-Apr-20			
THREE MONTHLY PROGRAMME AS OF 20 Apr 2020								

[illegible]

# NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS

P 10	Date	Revision	Checked	Approved
	20-Apr-20			

ID		Activity	Duration (Days)	Duration % Complete	Start	Finish	Total Float	2018												2019												2020								
								May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep				
		TNU-RL3250	Lighting in the middle of tunnels - CH2115 to 1800	6	100%																																			
		TNU-RL3260	FH/ HR pipe installation - CH2115 to 1800	6	95%																																			
		TNU-RL3270	Cabling Works on Brackets - CH2115 to 1800	8	100%																																			
		TNU-RL3275	MSFD delivery in OHVD - CH2115 to 1800	7	100%																																			
		TNU-RL3280	MSFD installation works in OHVD - CH2115 to 1800	8	100%																																			
		TNU-RL3290	High level wiring works & remaining High level works in tunnel middle - CH2115 to 1800	12	50%																																			
		TNU-RL3300	Low level works - FS nicle module - CH2115 to 1800	4	50%																																			
		TNU-RL3310	Low level works - FS nicle connection - CH2115 to 1800	4	50%																																			
		TNU-RL3330	Final connection to small powers - CH2115 to 1800	4	25%																																			
		TNU-RL3340	Cladding works - CH2115 to 1800	4	0%																																			
		T&C																																						
		TNL-10TC1000	Permanent power available to tunnels from SVB	0	0%																																			
		TNL-10TC1130	T&C for Tunnel Lighting - CH 2500 to 1800	37	0%																																			
		TNL-10TC1140	T&C for other Tunnel Services - CH 2500 to 1800	19	0%																																			
		TNL-10TC1150	T&C for Tunnel Ventilation System - CH 2500 to 1800	19	0%																																			
		TNL-10TC1160	T&C for MSFD - CH 2500 to 1800	19	0%																																			
		Key Date 9 - C&ED Building & E&M Works																																						
		ABWF Works																																						
		ACED1010	Door and Window Frames	48	45%																																			
		ACED1020	ABWF Works to Plant Rooms G/F	60	95%																																			
		ACED1021	ABWF Works to Plant Rooms 1/F	60	90%																																			
		ACED1022	ABWF Works to Plant Rooms 2/F	60	75%																																			
		ACED1023	ABWF Works to Plant Rooms 3/F	60	85%																																			
		ACED1030	ABWF Works to Office and Corridors G/F	133	95%																																			
		ACED1031	ABWF Works to Office and Corridors 1/F	118	90%																																			
		ACED1032	ABWF Works to Office and Corridors 2/F	130	75%																																			
		ACED1033	ABWF Works to Office and Corridors 3/F	92	85%																																			
		ACED1040	ABWF Works to Toilets G/F	142	95%																																			
		ACED1041	ABWF Works to Toilets 2/F	142	75%																																			
		ACED1042	ABWF Works to Toilets 3/F	98	85%																																			
		ACED1060	External Cladding and Wall Plastering	97	60%																																			
		ACED1070	ABWF second fix & final fix	69	30%																																			
		E&M Works																																						
		Installation																																						
		G/F																																						
		C&EDB-GF1010	E&M Installation - 1st fix - G/F	40	20%																																			
		C&EDB-GF1020	E&M Installation - 2nd fix - G/F	40	0%																																			
		C&EDB-GF1030	E&M Installation - Final fix - G/F	40	0%																																			
		C&EDB-GF1040	ABWF Works ready for E&M Mobilization to CLP Tx Room - G/F	0	0%																																			
		C&EDB-GF1060	Inspection & Handover to CLP	6	0%																																			
		C&EDB-GF1070	Installation by CLP - CLP Tx Room - G/F	82	0%																																			
		C&EDB-GF1120	E&M Installation - Generator & Fuel Tank Rooms - G/F	90	60%																																			
		C&EDB-GF1140	E&M Installation - FS Plant Rooms - G/F	90	0%																																			
		C&EDB-GF1160	E&M Installation - Elv Plant Rooms - G/F	90	0%																																			
		1/F																																						
		C&EDB-1F1010	E&M Installation - 1st fix - 1/F	40	5%																																			
		C&EDB-1F1020	E&M Installation - 2nd fix - 1/F	40	0%																																			
		C&EDB-1F1050	E&M Installation - LV Switch Room - 1/F	60	35%																																			

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Date	Revision	Checked	Approved
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ID		Activity	Duration (Days)	Duration % Complete	Start	Finish	Total Float	2018												2019												2020								
								May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep				
		C&EDB-3F1030	E&M Installation - Final fix - 3/F	30	0%																																			
		C&EDB-3F1050	ABWF Works ready for E&M Mobilization to Electrical Plant Rooms - 3/F	0	0%																																			
		C&EDB-3F1060	E&M Installation - Electrical Plant Rooms - 3/F	84	0%																																			
		C&EDB-3F1080	E&M Installation - MVAC Plant Rooms - 3/F	84	50%																																			
		C&EDB-3F1100	E&M Installation - FS Plant Rooms - 3/F	80	35%																																			
		C&EDB-3F1120	E&M Installation - PD Plant Rooms - 3/F	60	5%																																			
		Roof																																						
		C&EDB-RF1000	ABWF Works ready for E&M Mobilization to Roof	0	0%																																			
		C&EDB-RF1010	E&M Installation - 1st fix - Roof	30	0%																																			
		C&EDB-RF1020	E&M Installation - 2nd fix - Roof	25	0%																																			
		C&EDB-RF1030	E&M Installation - Final fix - Roof	20	0%																																			
		Lift Installation																																						
		C&EDB-LF1020	Lift & lift machine room installation	65	35%																																			
		Statutory Inspections and approvals																																						
		C&EDB-SI1040	Submit WWO46 Part IV for PD	0	0%																																			
		C&EDB-SI1060	WSD inspection of Plumbing Installation (PL)	4	0%																																			
		Key Date 11 - Landscape Soft Works & Trees Protection																																						
		Landscape Soft Works																																						
		SL110	Works Substantially Completed at North Side (KD6A)	0	0%																																			
		SL120	Landscape Soft Works at North Side (wet season)	122	10%																																			
		SL130	Works Substantially Completed at South Side (KD7A)	0	0%																																			
		SL140	Landscape Soft Works at South Side (wet season)	102	0%																																			
		Trees Protection																																						
		SL201	Protection Existing Trees & Submit Report with Photographic Record No.12	41	100%																																			
		SL202	Protection Existing Trees & Submit Report with Photographic Record No.13	41	31.71%																																			
		SL203	Protection Existing Trees & Submit Report with Photographic Record No.14	41	0%																																			
		SL204	Protection Existing Trees & Submit Report with Photographic Record No.15	40	0%																																			
		Key Date 8 - All Works for Tunnel Comissioning & Opening																																						
		Petrol Filling Station																																						
		Structure																																						
PS140	Petrol Filling Station Roof	14	0%																																					
PS180	Concrete Plinth	12	0%																																					
E&M Works																																								
EPS110	Miscellaneous ABWF Works	42	0%																																					
EPS120	Fuel Tank/Fuel Pipe System Installation	42	35%																																					
EPS130	E&M Installation	30	0%																																					
EPS140	T&C	12	0%																																					
Statutory Inspections and approvals																																								
Administration Building																																								
ADB-SI1010	Submit WWO46 Part IV for PD	0	0%																																					
ADB-SI1030	WSD inspection of Plumbing Installation (PL)	4	0%																																					
ADB-SI1060	Obtain Water Certificate and water supply connection - FS	4	0%																																					
ADB-SI1070	Obtain Water Certificate and water supply connection - PL	4	0%																																					
ADB-SI1110	Submit CT2B	0	0%																																					
ADB-SI1120	EMSD examines site acceptance report and acceptance	36	0%																																					
ADB-SI1130	Submit WWO46 part IV for CT plumbing works	0	0%																																					
ADB-SI1140	WSD inspection and water connection for CT plumbing works	6	0%																																					
Maintenance Depot																																								
MD-SI1040	Submit WWO46 Part IV for PD	0	0%																																					
MD-SI1060	WSD inspection of Plumbing Installation (PL)	4	0%																																					
MD-SI1090	Obtain Water Certificate and water supply connection - FS	4	0%																																					
MD-SI1100	Obtain Water Certificate and water supply connection - PL	4	0%																																					
North Ventilation Building																																								
NVB-SI1090	Submit WWO46 Part IV for PD	0	0%																																					
NVB-SI1110	WSD inspection of Plumbing Installation (PL)	4	0%																																					
NVB-SI1130	Water Samples Test	24	0%																																					

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Date	Revision	Checked	Approved
20-Apr-20			

			Activity	Duration (Days)	Duration % Complete	Start	Finish	Total Float	2018												2019												2020																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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			NVB-SI1135	Obtain Water Certificate and watersupply connection - FS	4	0%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										