

ID	Activity	Days	Start	Finish	2018																												2019				
					September							October							November							December							January				
					01	08	15	22	29	05	12	19	26	03	10	17	24	31	07	14																	
Three Monthly Programme 20/10/18 - 20/01/19																																					
Contract Dates																																					
Portion Access Dates																																					
P230	Access to Portion X (Day 240)	0d	01-Jan-19																																		
Portion Possession Dates																																					
P205	Possession to Portion XVb (Day 236)	0d	28-Dec-18																																		
P215	Possession to Portion XVIb (Day 236)	0d	28-Dec-18																																		
P225	Possession to Portion XVa (Day 236)	0d	28-Dec-18																																		
P235	Possession to Portion XVIa (Day 236)	0d	28-Dec-18																																		
Method Statements																																					
Administration Building																																					
MS1050	Prepare & Submit MS for Administration Building (Civil)	24d	20-Sep-18	20-Oct-18																																	
MS1060	ICE & ER Approval of MS for Administration Building (Civil)	12d	22-Oct-18	03-Nov-18																																	
MS1190	Prepare & Submit MS for Administration Building (E&M)	24d	16-Oct-18	13-Nov-18																																	
MS1200	ICE & ER Approval of MS for Administration Building (E&M)	12d	14-Nov-18	27-Nov-18																																	
Maintenance Depot																																					
MS1070	Prepare & Submit MS for Maintenance Depot (Civil)	24d	02-Oct-18	30-Oct-18																																	
MS1080	ICE & ER Approval of MS for Maintenance Depot (Civil)	12d	31-Oct-18	13-Nov-18																																	
MS1210	Prepare & Submit MS for Maintenance Depot (E&M)	24d	14-Nov-18	11-Dec-18																																	
MS1220	ICE & ER Approval of MS for Maintenance Depot (E&M)	12d	12-Dec-18	28-Dec-18																																	
Custom & Excise Department Building																																					
MS1090	Prepare & Submit MS for C&ED Building (Civil)	24d	31-Oct-18	27-Nov-18																																	
MS1100	ICE & ER Approval of MS for C&ED Building (Civil)	12d	28-Nov-18	11-Dec-18																																	
MS1230	Prepare & Submit MS for C&ED Building (E&M)	24d	12-Dec-18	12-Jan-19																																	
MS1240	ICE & ER Approval of MS for C&ED Building (E&M)	12d	14-Jan-19	26-Jan-19																																	
Fire Services Department Building																																					
MS1110	Prepare & Submit MS for Fire Services Building (Civil)	24d	28-Nov-18	28-Dec-18																																	
MS1120	ICE & ER Approval of MS for Fire Services Building (Civil)	12d	29-Dec-18	12-Jan-19																																	
MS1250	Prepare & Submit MS for Fire Services Building (E&M)	24d	14-Jan-19	13-Feb-19																																	
Satellite Control Building																																					
MS1130	Prepare & Submit MS for Satellite Control Building (Civil)	24d	29-Dec-18	26-Jan-19																																	
E&M Design																																					
Section A - Tunnel Ventilation System																																					
A010	Design Proposal of Tunnel Ventilation System	60d	18-Aug-18	16-Oct-18																																	
A015	Design Proposal of Tunnel Ventilation System - Approval	31d	17-Oct-18	16-Nov-18																																	
A020	Tunnel Ventilation Fan Pressure Calculations	60d	29-Sep-18	27-Nov-18																																	

THREE MONTHLY ROLLING PROGRAMME

HY/2017/10 TM-CLKL - Northern Connection Tunnel Buildings, Electrical and Mechanical Works

20/10/18 - 20/01/19

P1	Date	Revision	Checked	Approved
	20/10/18			

ID	Activity	Days	Start	Finish	2018																	2019		
					September		October				November				December				January					
					07	24	01	08	15	22	29	05	12	19	26	03	10	17	24	31	07	14		
A025	Tunnel Ventilation Fan Pressure Calculations - Approval	28d	28-Nov-18	25-Dec-18																				
A030	Acoustic Calculations	60d	28-Nov-18*	26-Jan-19																				
A040	TVS -Smoke Extraction Fan Static Calculation for Service Gallery	60d	13-Sep-18	11-Nov-18																				
A045	TVS -Smoke Extraction Fan Static Calculation for Service Gallery - Approval	28d	12-Nov-18	09-Dec-18																				
A060	Pressurization Fan Static Calculation for Vehicle Underpass	60d	22-Aug-18	20-Oct-18																				
A065	Pressurization Fan Static Calculation for Vehicle Underpass - Approval	28d	21-Oct-18	17-Nov-18																				
A070	Design Proposal of Power Loading Assessment of TVS	60d	02-Dec-18*	30-Jan-19																				
A080	TVS -Design Proposal including the Smoke Extraction Strategy	60d	13-Sep-18	11-Nov-18																				
A088	TVS -Design Proposal including the Smoke Extraction Strategy - Approval	28d	12-Nov-18	09-Dec-18																				
A090	TVS -Control Logic Review with FSD	60d	13-Sep-18	11-Nov-18																				
A095	TVS -Control Logic Review with FSD - Approval	28d	12-Nov-18	09-Dec-18																				
A100	TVS -Cable Sizing and Voltage Drop for TVFs	60d	18-Dec-18*	15-Feb-19																				
A110	TVS -Structural Calculation -Fan Support	60d	15-Jan-19*	15-Mar-19																				
A120	TVS -Structural Calculation -Duct Support	60d	15-Jan-19*	15-Mar-19																				
A130	TVS -Structural Calculation -Ceiling Mounted Fan Supports	60d	15-Jan-19*	15-Mar-19																				
A140	TVS -Structural Calculation -Vertical Fan Supports	60d	15-Jan-19*	15-Mar-19																				
A150	TVS -Structural Calculation -Horizontal Air Duct Supports	60d	15-Jan-19*	15-Mar-19																				
A160	Tunnel Cable Sizing and Voltage Drop Verification	60d	06-Oct-18	04-Dec-18																				
A165	Tunnel Cable Sizing and Voltage Drop Verification - Approval	30d	05-Dec-18	03-Jan-19																				
A170	Tunnel Cable Containment Calculation	60d	03-Nov-18*	01-Jan-19																				
A175	Tunnel Cable Containment Calculation - Approval	30d	02-Jan-19	31-Jan-19																				
Section B - Tunnel Lighting and Road Lighting System																								
B010	Design Proposal of Tunnel Lighting System (TLS)	60d	04-Aug-18	02-Oct-18																				
B015	Design Proposal of Tunnel Lighting System (TLS) - Approval	30d	03-Oct-18	01-Nov-18																				
B020	Tunnel lighting control	60d	08-Sep-18	06-Nov-18																				
B025	Tunnel lighting control - Approval	30d	07-Nov-18	06-Dec-18																				
B030	TLS -Lux Calculation	60d	08-Sep-18	06-Nov-18																				
B035	TLS -Lux Calculation - Approval	30d	07-Nov-18	06-Dec-18																				
B040	TLS -Structure support design calculation for tunnel lighting	60d	08-Sep-18	06-Nov-18																				
B045	TLS -Structure support design calculation for tunnel lighting - Approval	30d	07-Nov-18	06-Dec-18																				
B050	Design Proposal of Road / Street Lighting System	60d	27-Sep-18	25-Nov-18																				
B055	Design Proposal of Road / Street Lighting System - Approval	30d	26-Nov-18	25-Dec-18																				
B060	Road Lighting Lux Calculation	60d	17-Nov-18*	15-Jan-19																				
B065	Road Lighting Lux Calculation - Approval	30d	16-Jan-19	14-Feb-19																				
Section C - Building Services of MVAC System																								
TCB																								
C012	TCB -AC Cooling Capacity Calculation	60d	31-Jul-18	28-Sep-18																				

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20/10/18 - 20/01/19

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Date	Revision	Checked	Approved
20/10/18			

ID	Activity	Days	Start	Finish	2018																			2019		
					September							October				November				December				January		
					27	24	01	08	15	22	29	05	12	19	26	03	10	17	24	31	07	14				
C015	TCB -AC Cooling Capacity Calculation - Approval	28d	29-Sep-18	26-Oct-18																						
C025	TCB -AHU/PAU Static Pressure Calculation - Approval	28d	31-Aug-18	27-Sep-18																						
C030	TCB -Pump head calculation	60d	03-Oct-18	01-Dec-18																						
C035	TCB -Pump head calculation - Approval	28d	02-Dec-18	29-Dec-18																						
C050	TCB -Fan Static Pressure Calculation	60d	29-Jul-18	26-Sep-18																						
C055	TCB -Fan Static Pressure Calculation - Approval	28d	27-Sep-18	24-Oct-18																						
C060	TCB -Acoustic Performance Calculation	60d	30-Sep-18	28-Nov-18																						
C065	TCB -Acoustic Performance Calculation - Approval	28d	29-Nov-18	26-Dec-18																						
ADB																										
C080	ADB -AHU/PAU Static Pressure Calculation	60d	07-Sep-18	05-Nov-18																						
C085	ADB -AHU/PAU Static Pressure Calculation - Approval	28d	06-Nov-18	03-Dec-18																						
C090	ADB -Pump head calculation	60d	27-Aug-18	25-Oct-18																						
C095	ADB -Pump head calculation - Approval	28d	26-Oct-18	22-Nov-18																						
C100	ADB -Mechanical Ventilation Capacity Calculation	60d	26-Jul-18	23-Sep-18																						
C105	ADB -Mechanical Ventilation Capacity Calculation - Approval	28d	24-Sep-18	21-Oct-18																						
C110	ADB -Fan Static Pressure Calculation	60d	06-Sep-18	04-Nov-18																						
C115	ADB -Fan Static Pressure Calculation - Approval	28d	05-Nov-18	02-Dec-18																						
C120	ADB -Acoustic Performance Calculation	60d	08-Nov-18*	06-Jan-19																						
C125	ADB -Acoustic Performance Calculation - Approval	28d	07-Jan-19	03-Feb-19																						
NVB																										
C130	NVB -AC Cooling Capacity Calculation	60d	13-Sep-18	11-Nov-18																						
C135	NVB -AC Cooling Capacity Calculation - Approval	28d	12-Nov-18	09-Dec-18																						
C140	NVB -Mechanical Ventilation Capacity Calculation	60d	13-Sep-18	11-Nov-18																						
C145	NVB -Mechanical Ventilation Capacity Calculation - Approval	28d	12-Nov-18	09-Dec-18																						
C150	NVB -Fan Static Pressure Calculation	60d	25-Oct-18*	23-Dec-18																						
C155	NVB -Fan Static Pressure Calculation - Approval	28d	24-Dec-18	20-Jan-19																						
C160	NVB -Acoustic Performance Calculation	60d	17-Sep-18	15-Nov-18																						
C165	NVB -Acoustic Performance Calculation - Approval	28d	16-Nov-18	13-Dec-18																						
C170	NVB -Refrigerant Pipes Sizing Calculation	60d	21-Sep-18	19-Nov-18																						
C175	NVB -Refrigerant Pipes Sizing Calculation - Approval	28d	20-Nov-18	17-Dec-18																						
C180	NVB -Staircase Pressurization System Calculation	60d	13-Sep-18	11-Nov-18																						
C185	NVB -Staircase Pressurization System Calculation - Approval	28d	12-Nov-18	09-Dec-18																						
SVB																										
C240	SVB -Staircase Pressurization System Calculation	60d	19-Jan-19*	19-Mar-19																						
CEDB																										
C250	CEDB -AC Cooling Capacity Calculation	60d	09-Nov-18*	07-Jan-19																						
C255	CEDB -AC Cooling Capacity Calculation - Approval	28d	08-Jan-19	04-Feb-19																						

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20/10/18 - 20/01/19

P3

Date	Revision	Checked	Approved
20/10/18			

ID	Activity	Days	Start	Finish	2018														2019			
					September		October				November				December				January			
					07	24	01	08	15	22	29	05	12	19	26	03	10	17	24	31	07	14
C260	CEDB -Mechanical Ventilation Capacity Calculation	60d	11-Dec-18*	08-Feb-19																		
FSDB																						
C300	FSDB -AC Cooling Capacity Calculation	60d	09-Nov-18*	07-Jan-19																		
C305	FSDB -AC Cooling Capacity Calculation - Approval	28d	08-Jan-19	04-Feb-19																		
C310	FSDB -Mechanical Ventilation Capacity Calculation	60d	11-Dec-18*	08-Feb-19																		
SCB																						
C350	SCB -AC Cooling Capacity Calculation	60d	16-Jan-19*	16-Mar-19																		
MD																						
C400	MD -AC Cooling Capacity Calculation	60d	13-Sep-18	11-Nov-18																		
C405	MD -AC Cooling Capacity Calculation - Approval	28d	12-Nov-18	09-Dec-18																		
C410	MD -AHU/PAU Static Pressure Calculation	60d	10-Oct-18	08-Dec-18																		
C415	MD -AHU/PAU Static Pressure Calculation - Approval	28d	09-Dec-18	05-Jan-19																		
C420	MD -Mechanical Ventilation Capacity Calculation	60d	28-Aug-18	26-Oct-18																		
C425	MD -Mechanical Ventilation Capacity Calculation - Approval	28d	27-Oct-18	23-Nov-18																		
C430	MD -Fan Static Pressure Calculation	60d	09-Oct-18	07-Dec-18																		
C435	MD -Fan Static Pressure Calculation - Approval	28d	08-Dec-18	04-Jan-19																		
C440	MD -Acoustic Performance Calculation	60d	11-Dec-18*	08-Feb-19																		
Vehicular Underpass																						
C450	Vehicle Underpass -Mechanical Ventilation Capacity Calculation	60d	18-Aug-18	16-Oct-18																		
C455	Vehicle Underpass -Mechanical Ventilation Capacity Calculation - Approval	28d	17-Oct-18	13-Nov-18																		
C460	Vehicle Underpass -Fan Static Pressure Calculation	60d	29-Sep-18	27-Nov-18																		
C465	Vehicle Underpass -Fan Static Pressure Calculation - Approval	28d	28-Nov-18	25-Dec-18																		
C470	Vehicle Underpass -Acoustic Performance Calculation	60d	01-Dec-18*	29-Jan-19																		
Thermal Insulation																						
C485	Ductwork & Pipework Thermal Insulation Thickness Calculation - Approval	28d	31-Aug-18	27-Sep-18																		
Section D - Building Services of Electrical System																						
TCB																						
D015	TCB -UPS and Battery Capacity Calculations - Approval	30d	04-Sep-18	03-Oct-18																		
D020	TCB -Electrical Loading Demand Calculation	60d	24-Jul-18	21-Sep-18																		
D025	TCB -Electrical Loading Demand Calculation - Approval	30d	22-Sep-18	21-Oct-18																		
D035	TCB -Lux Level Calculation - Approval	30d	16-Sep-18	15-Oct-18																		
D040	TCB -Cable Sizing and Voltage Drop Verification	60d	07-Aug-18	05-Oct-18																		
D045	TCB -Cable Sizing and Voltage Drop Verification - Approval	30d	06-Oct-18	04-Nov-18																		
D070	TCB -Cable Containment Calculation	60d	04-Sep-18	02-Nov-18																		
D075	TCB -Cable Containment Calculation - Approval	30d	03-Nov-18	02-Dec-18																		
D080	TCB -Earthing Resistance Calculation	60d	07-Aug-18	05-Oct-18																		
D085	TCB -Earthing Resistance Calculation - Approval	30d	06-Oct-18	04-Nov-18																		

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20/10/18 - 20/01/19

P4	Date	Revision	Checked	Approved
	20/10/18			

ID	Activity	Days	Start	Finish	2018																	2019		
					September		October				November				December				January					
					27	24	01	08	15	22	29	05	12	19	26	03	10	17	24	31	07	14		
D090	TCB -Power Factor Correction & Harmonic Current AnalysisCalculation	60d	07-Aug-18	05-Oct-18																				
D095	TCB -Power Factor Correction & Harmonic Current AnalysisCalculation - Apprc	30d	06-Oct-18	04-Nov-18																				
ADB																								
D100	ADB -UPS and Battery Capacity Calculations	60d	01-Aug-18	29-Sep-18																				
D105	ADB -UPS and Battery Capacity Calculations - Approval	30d	30-Sep-18	29-Oct-18																				
D115	ADB -Electrical Loading Demand Calculation - Approval	30d	27-Aug-18	25-Sep-18																				
D120	ADB -Lux Level Calculation	60d	09-Sep-18	07-Nov-18																				
D125	ADB -Lux Level Calculation - Approval	30d	08-Nov-18	07-Dec-18																				
D130	ADB -Cable Sizing and Voltage Drop Verification	60d	30-Sep-18	28-Nov-18																				
D135	ADB -Cable Sizing and Voltage Drop Verification - Approval	30d	29-Nov-18	28-Dec-18																				
D160	ADB -Cable Containment Calculation	60d	10-Oct-18	08-Dec-18																				
D165	ADB -Cable Containment Calculation - Approval	30d	09-Dec-18	07-Jan-19																				
D170	ADB -Earthing Resistance Calculation	60d	30-Sep-18	28-Nov-18																				
D175	ADB -Earthing Resistance Calculation - Approval	30d	29-Nov-18	28-Dec-18																				
D180	ADB -Power Factor Correction & Harmonic Current AnalysisCalculation	60d	30-Sep-18	28-Nov-18																				
D185	ADB -Power Factor Correction & Harmonic Current AnalysisCalculation - Apprc	30d	29-Nov-18	28-Dec-18																				
NVB																								
D205	NVB -Electrical Loading Demand Calculation - Approval	30d	04-Sep-18	03-Oct-18																				
D215	NVB -Lux Level Calculation - Approval	30d	15-Sep-18	14-Oct-18																				
D220	NVB -Cable Sizing and Voltage Drop Verification	60d	11-Aug-18	09-Oct-18																				
D225	NVB -Cable Sizing and Voltage Drop Verification - Approval	30d	10-Oct-18	08-Nov-18																				
D250	NVB -Cable Containment Calculation	60d	19-Sep-18	17-Nov-18																				
D255	NVB -Cable Containment Calculation - Approval	30d	18-Nov-18	17-Dec-18																				
D260	NVB -Earthing Resistance Calculation	60d	11-Aug-18	09-Oct-18																				
D265	NVB -Earthing Resistance Calculation - Approval	30d	10-Oct-18	08-Nov-18																				
D270	NVB -Power Factor Correction & Harmonic Current AnalysisCalculation	60d	11-Aug-18	09-Oct-18																				
D275	NVB -Power Factor Correction & Harmonic Current AnalysisCalculation - Apprc	30d	10-Oct-18	08-Nov-18																				
D280	NVB -HV Electrical Loading Calculation	60d	11-Aug-18	09-Oct-18																				
D285	NVB -HV Electrical Loading Calculation - Approval	30d	10-Oct-18	08-Nov-18																				
SCB																								
D430	SCB -Generator Calculation	60d	28-Dec-18*	25-Feb-19																				
D440	SCB -Fuel Tank Calculation	60d	28-Dec-18*	25-Feb-19																				
CEDB																								
D480	CEDB -UPS and Battery Capacity Calculations	60d	04-Jan-19*	04-Mar-19																				
D490	CEDB -Electrical Loading Demand Calculation	60d	13-Nov-18*	11-Jan-19																				
D495	CEDB -Electrical Loading Demand Calculation - Approval	30d	12-Jan-19	10-Feb-19																				
D520	CEDB -Calculation of Total Electrical Load	60d	13-Nov-18*	11-Jan-19																				

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HY/2017/10 TM-CLKL - Northern Connection Tunnel Buildings, Electrical and Mechanical Works

20/10/18 - 20/01/19

P5

Date	Revision	Checked	Approved
20/10/18			

ID	Activity	Days	Start	Finish	2018														2019			
					September		October				November				December				January			
					07	24	01	08	15	22	29	05	12	19	26	03	10	17	24	31	07	14
D525	CEDB -Calculation of Total Electrical Load - Approval	30d	12-Jan-19	10-Feb-19																		
D530	CEDB -Generator Calculation	60d	15-Dec-18*	12-Feb-19																		
D540	CEDB -Fuel Tank Calculation	60d	15-Dec-18*	12-Feb-19																		
FSDB																						
D580	FSDB -UPS and Battery Capacity Calculations	60d	26-Dec-18*	23-Feb-19																		
D590	FSDB -Electrical Loading Demand Calculation	60d	13-Nov-18*	11-Jan-19																		
D595	FSDB -Electrical Loading Demand Calculation - Approval	30d	12-Jan-19	10-Feb-19																		
D620	FSDB -Calculation of Total Electrical Load	60d	13-Nov-18*	11-Jan-19																		
D625	FSDB -Calculation of Total Electrical Load - Approval	30d	12-Jan-19	10-Feb-19																		
D630	FSDB -Generator Calculation	60d	22-Dec-18*	19-Feb-19																		
D640	FSDB -Fuel Tank Calculation	60d	22-Dec-18*	19-Feb-19																		
MD																						
D680	MD -Electrical Loading Demand Calculation	60d	31-Jul-18	28-Sep-18																		
D685	MD -Electrical Loading Demand Calculation - Approval	30d	29-Sep-18	28-Oct-18																		
D690	MD -Lux Level Calculation	60d	20-Sep-18	18-Nov-18																		
D695	MD -Lux Level Calculation - Approval	30d	19-Nov-18	18-Dec-18																		
D700	MD -Cable Sizing and Voltage Drop Verification	60d	26-Oct-18*	24-Dec-18																		
D705	MD -Cable Sizing and Voltage Drop Verification - Approval	30d	25-Dec-18	23-Jan-19																		
D710	MD -Generator Calculation	60d	21-Aug-18	19-Oct-18																		
D715	MD -Generator Calculation - Approval	30d	20-Oct-18	18-Nov-18																		
D720	MD -Fuel Tank Calculation	60d	21-Aug-18	19-Oct-18																		
D725	MD -Fuel Tank Calculation - Approval	30d	20-Oct-18	18-Nov-18																		
D730	MD -Cable Containment Calculation	60d	14-Nov-18*	12-Jan-19																		
D735	MD -Cable Containment Calculation - Approval	30d	13-Jan-19	11-Feb-19																		
D740	MD -Earthing Resistance Calculation	60d	26-Oct-18*	24-Dec-18																		
D745	MD -Earthing Resistance Calculation - Approval	30d	25-Dec-18	23-Jan-19																		
D750	MD -Power Factor Correction & Harmonic Current Analysis Calculation	60d	26-Oct-18*	24-Dec-18																		
D755	MD -Power Factor Correction & Harmonic Current Analysis Calculation - Apprc	30d	25-Dec-18	23-Jan-19																		
Section E - Building Services of Fire Services System																						
Tunnel & Service Gallery																						
E010	FS and Sprinkler Water Tanks Effective Volumes Calculation	60d	16-Oct-18	14-Dec-18																		
E015	FS and Sprinkler Water Tanks Effective Volumes Calculation - Approval	30d	15-Dec-18	13-Jan-19																		
E020	FS Pump Head Calculation for Tunnel	60d	14-Oct-18	12-Dec-18																		
E025	FS Pump Head Calculation for Tunnel - Approval	30d	13-Dec-18	11-Jan-19																		
E030	FS Pump Head Calculation for Services Gallery	60d	14-Oct-18	12-Dec-18																		
E035	FS Pump Head Calculation for Services Gallery - Approval	30d	13-Dec-18	11-Jan-19																		
E040	Sprinkler Pump Head Calculation for Services Gallery	60d	14-Oct-18	12-Dec-18																		

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HY/2017/10 TM-CLKL - Northern Connection Tunnel Buildings, Electrical and Mechanical Works

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P6

Date	Revision	Checked	Approved
20/10/18			

ID	Activity	Days	Start	Finish	2018																		2019	
					September		October				November				December				January					
					07	24	01	08	15	22	29	05	12	19	26	03	10	17	24	31	07	14		
E045	Sprinkler Pump Head Calculation for Services Gallery - Approval	30d	13-Dec-18	11-Jan-19																				
TCB																								
E060	TCB -FS Pump Head Calculation	60d	13-Sep-18	11-Nov-18																				
E065	TCB -FS Pump Head Calculation - Approval	30d	12-Nov-18	11-Dec-18																				
E070	TCB -Sprinkler Pump Head Calculation	60d	13-Sep-18	11-Nov-18																				
E075	TCB -Sprinkler Pump Head Calculation - Approval	30d	12-Nov-18	11-Dec-18																				
E085	TCB -Battery Capacity Calculation - Approval	30d	31-Aug-18	29-Sep-18																				
ADB																								
E100	ADB -FS Pump Head Calculation	60d	13-Sep-18	11-Nov-18																				
E105	ADB -FS Pump Head Calculation - Approval	30d	12-Nov-18	11-Dec-18																				
E110	ADB -Sprinkler Pump Head Calculation	60d	13-Sep-18	11-Nov-18																				
E115	ADB -Sprinkler Pump Head Calculation - Approval	30d	12-Nov-18	11-Dec-18																				
E120	ADB -Battery Capacity Calculation	60d	29-Jul-18	26-Sep-18																				
E125	ADB -Battery Capacity Calculation - Approval	30d	27-Sep-18	26-Oct-18																				
NVB																								
E140	NVB -FS Pump Head Calculation	60d	19-Aug-18	17-Oct-18																				
E145	NVB -FS Pump Head Calculation - Approval	30d	18-Oct-18	16-Nov-18																				
E150	NVB -Sprinkler Pump Head Calculation	60d	19-Aug-18	17-Oct-18																				
E155	NVB -Sprinkler Pump Head Calculation - Approval	30d	18-Oct-18	16-Nov-18																				
SCB																								
E250	SCB -FM200 System Design Calculation	60d	22-Oct-18*	20-Dec-18																				
E255	SCB -FM200 System Design Calculation - Approval	30d	21-Dec-18	19-Jan-19																				
CEDB																								
E280	CEDB -Battery Capacity Calculation	60d	27-Nov-18*	25-Jan-19																				
E290	CEDB -FM200 System Design Calculation	60d	22-Nov-18*	20-Jan-19																				
FSDB																								
E300	FSDB -FS Pump Head Calculation	60d	28-Nov-18*	26-Jan-19																				
E310	FSDB -Sprinkler Pump Head Calculation	60d	28-Nov-18*	26-Jan-19																				
E320	FSDB -Battery Capacity Calculation	60d	28-Nov-18*	26-Jan-19																				
MD																								
E330	MD -FS Pump Head Calculation	60d	21-Aug-18	19-Oct-18																				
E335	MD -FS Pump Head Calculation - Approval	30d	20-Oct-18	18-Nov-18																				
E340	MD -Sprinkler Pump Head Calculation	60d	21-Aug-18	19-Oct-18																				
E345	MD -Sprinkler Pump Head Calculation - Approval	30d	20-Oct-18	18-Nov-18																				
E350	MD -Battery Capacity Calculation	60d	21-Aug-18	19-Oct-18																				
E355	MD -Battery Capacity Calculation - Approval	30d	20-Oct-18	18-Nov-18																				
E360	MD -FM200 System Design Calculation	60d	22-Nov-18*	20-Jan-19																				

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ID	Activity	Days	Start	Finish	2018																			2019		
					September		October				November				December				January							
					27	24	01	08	15	22	29	05	12	19	26	03	10	17	24	31	07	14				
Vehicular Underpass																										
E375	Vehicular Underpass -Foam system design calculation - Approval	30d	31-Aug-18	29-Sep-18																						
Section F - Building Services of Plumbing & Drainage System																										
Tunnel																										
F015	Oil Interceptor Calculation for tunnel - Approval	30d	10-Sep-18	09-Oct-18																						
F020	Water Storage Tank Calculation	60d	16-Oct-18	14-Dec-18																						
F025	Water Storage Tank Calculation - Approval	30d	15-Dec-18	13-Jan-19																						
TCB																										
F030	TCB - Pump Head Calculation	60d	13-Oct-18	11-Dec-18																						
F035	TCB - Pump Head Calculation - Approval	30d	12-Dec-18	10-Jan-19																						
F040	TCB - Pressure Vessel Calculation	60d	13-Oct-18	11-Dec-18																						
F045	TCB - Pressure Vessel Calculation - Approval	30d	12-Dec-18	10-Jan-19																						
F050	TCB - Rainwater Analysis and Pipe Work Calculation	60d	01-Aug-18	29-Sep-18																						
F055	TCB - Rainwater Analysis and Pipe Work Calculation - Approval	30d	30-Sep-18	29-Oct-18																						
F070	TCB - Hot water system capacity calculation	60d	08-Aug-18	06-Oct-18																						
F075	TCB - Hot water system capacity calculation - Approval	30d	07-Oct-18	05-Nov-18																						
ADB																										
F080	ADB - Pump Head Calculation	60d	09-Nov-18*	07-Jan-19																						
F085	ADB - Pump Head Calculation - Approval	30d	08-Jan-19	06-Feb-19																						
F090	ADB - Pressure Vessel Calculation	60d	09-Nov-18*	07-Jan-19																						
F095	ADB - Pressure Vessel Calculation - Approval	30d	08-Jan-19	06-Feb-19																						
F100	ADB - Rainwater Analysis and Pipe Work Calculation	60d	07-Oct-18	05-Dec-18																						
F105	ADB - Rainwater Analysis and Pipe Work Calculation - Approval	30d	06-Dec-18	04-Jan-19																						
F110	ADB - Hydraulic Analysis of Waste Water Systems	60d	08-Aug-18	06-Oct-18																						
F115	ADB - Hydraulic Analysis of Waste Water Systems - Approval	30d	07-Oct-18	05-Nov-18																						
F120	ADB - Hot water system capacity calculation	60d	08-Aug-18	06-Oct-18																						
F125	ADB - Hot water system capacity calculation - Approval	30d	07-Oct-18	05-Nov-18																						
F130	ADB - Drainage Sump Pumps and Pump Pits Calculation	60d	18-Oct-18	16-Dec-18																						
F135	ADB - Drainage Sump Pumps and Pump Pits Calculation - Approval	30d	17-Dec-18	15-Jan-19																						
NVB																										
F140	NVB - Pump Head Calculation	60d	18-Oct-18	16-Dec-18																						
F145	NVB - Pump Head Calculation - Approval	30d	17-Dec-18	15-Jan-19																						
F150	NVB - Pressure Vessel Calculation	60d	18-Oct-18	16-Dec-18																						
F155	NVB - Pressure Vessel Calculation - Approval	30d	17-Dec-18	15-Jan-19																						
F160	NVB - Rainwater Analysis and Pipe Work Calculation	60d	16-Aug-18	14-Oct-18																						
F165	NVB - Rainwater Analysis and Pipe Work Calculation - Approval	30d	15-Oct-18	13-Nov-18																						
CEDB																										

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ID	Activity	Days	Start	Finish	2018																			2019		
					September		October				November				December				January							
					07	24	01	08	15	22	29	05	12	19	26	03	10	17	24	31	07	14				
F260	CEDB - Hydraulic Analysis of Waste Water Systems	60d	24-Dec-18*	21-Feb-19																						
FSDB																										
F300	FSDB - Hydraulic Analysis of Waste Water Systems	60d	24-Dec-18*	21-Feb-19																						
MD																										
F310	MD - Drainage Sump Pumps and Pump Pits Calculation	60d	19-Dec-18*	16-Feb-19																						
F320	MD - Pump Head Calculation	60d	19-Dec-18*	16-Feb-19																						
F330	MD - Pressure Vessel Calculation	60d	19-Dec-18*	16-Feb-19																						
F340	MD - Rainwater Analysis and Pipe Work Calculation	60d	09-Nov-18*	07-Jan-19																						
F345	MD - Rainwater Analysis and Pipe Work Calculation - Approval	30d	08-Jan-19	06-Feb-19																						
F350	MD - Hydraulic Analysis of Waste Water Systems	60d	10-Sep-18	08-Nov-18																						
F355	MD - Hydraulic Analysis of Waste Water Systems - Approval	30d	09-Nov-18	08-Dec-18																						
Vehicular Underpass																										
F360	Vehicular underpass - Drainage Sump Pumps and Pump PitsCalculation	60d	18-Nov-18*	16-Jan-19																						
F365	Vehicular underpass - Drainage Sump Pumps and Pump PitsCalculation - App	30d	17-Jan-19	15-Feb-19																						
F370	Vehicular underpass - Pump Head Calculation	60d	18-Nov-18*	16-Jan-19																						
F375	Vehicular underpass - Pump Head Calculation - Approval	30d	17-Jan-19	15-Feb-19																						
F380	Vehicular underpass - Pressure Vessel Calculation	60d	18-Nov-18*	16-Jan-19																						
F385	Vehicular underpass - Pressure Vessel Calculation - Approval	30d	17-Jan-19	15-Feb-19																						
F390	Vehicular underpass - Rainwater Analysis and Pipe WorkCalculation	60d	30-Oct-18*	28-Dec-18																						
F395	Vehicular underpass - Rainwater Analysis and Pipe WorkCalculation - Approva	30d	29-Dec-18	27-Jan-19																						
F400	Vehicular underpass - Hydraulic Analysis of Waste Water Systems	60d	31-Aug-18	29-Oct-18																						
F405	Vehicular underpass - Hydraulic Analysis of Waste Water Systems - Approval	30d	30-Oct-18	28-Nov-18																						
Section G - ELV System																										
G020	System Design for CMCS	60d	02-Sep-18	31-Oct-18																						
G025	System Design for CMCS - Approval	30d	01-Nov-18*	30-Nov-18																						
G030	System Design for Access Control System	60d	02-Sep-18	31-Oct-18																						
G035	System Design for Access Control System - Approval	30d	01-Nov-18*	30-Nov-18																						
G040	System Design for CCTV	60d	04-Oct-18	02-Dec-18																						
G045	System Design for CCTV - Approval	30d	03-Dec-18*	01-Jan-19																						
G050	System Design for IT System	60d	01-Sep-18	30-Oct-18																						
G055	System Design for IT System - Approval	30d	31-Oct-18*	29-Nov-18																						
G060	System Design for PABX System	60d	15-Sep-18	13-Nov-18																						
G065	System Design for PABX System - Approval	30d	14-Nov-18*	13-Dec-18																						
G070	System Design for PA System	60d	15-Sep-18	13-Nov-18																						
G075	System Design for PA System - Approval	30d	14-Nov-18*	13-Dec-18																						
G080	System Design for BRI System	60d	15-Sep-18	13-Nov-18																						
G085	System Design for BRI System - Approval	30d	14-Nov-18*	13-Dec-18																						
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ID	Activity	Days	Start	Finish	2018																		2019	
					September		October				November				December				January					
					07	24	01	08	15	22	29	05	12	19	26	03	10	17	24	31	07	14		
G090	System Design for Audio Recording System	60d	15-Sep-18	13-Nov-18																				
G095	System Design for Audio Recording System - Approval	30d	14-Nov-18*	13-Dec-18																				
G100	System Design for Communication Network System System	60d	15-Sep-18	13-Nov-18																				
G105	System Design for Communication Network System System - Approval	30d	14-Nov-18*	13-Dec-18																				
G110	System Design for Building Management System	60d	24-Oct-18*	22-Dec-18																				
G115	System Design for Building Management System - Approval	30d	23-Dec-18*	21-Jan-19																				
Key Date 4A - FSD Building Substructure, Boundary Wall, and C&ED Building Substructure																								
FSD Building Substructure																								
FSD101	Trial Pits	4d	14-Jan-19	17-Jan-19																				
FSD102	Predrilling (No.1)	1d	18-Jan-19	18-Jan-19																				
FSD103	Predrilling (No.2)	1d	19-Jan-19	19-Jan-19																				
FSD110	Possess Portion XVIa	0d		28-Dec-18																				
Boundary Wall for FSD Building																								
FSD180	Possess Portion XVIb	0d		28-Dec-18																				
C&ED Building Substructure																								
CED120	Possess Portion XVa	0d		28-Dec-18																				
CED130	Possess Portion XVb	0d		28-Dec-18																				
CED140	Predrilling (No.1-6)	10d	12-Dec-18	22-Dec-18																				
CED141	Predrilling (No. 7-12)	11d	27-Dec-18	09-Jan-19																				
CED150	Socket H-Piling (No. 1-8)	11d	10-Jan-19	22-Jan-19																				
Key Date 1 - Toll Control Building (TCB) & TCSS Provision																								
Toll Control Building (TCB)																								
TCB163	Remaining portion of G/F Slab	12d	20-Oct-18	02-Nov-18																				
TCB164	Remaining portion of 1/F Slab	12d	03-Nov-18	16-Nov-18																				
TCB171	Remove 1/F Slab Formwork	2d	04-Oct-18	05-Oct-18																				
TCB172	Level 2 Columns & Scaffolding	10d	06-Oct-18	18-Oct-18																				
TCB173	Level 2 Slab	12d	15-Nov-18	28-Nov-18																				
TCB174	Remove 2/F Slab Formwork	2d	29-Nov-18	30-Nov-18																				
TCB175	Roof Columns & Scaffolding	10d	01-Dec-18	12-Dec-18																				
TCB180	Roof Slab	12d	13-Dec-18	29-Dec-18																				
TCB190	Top Roof	12d	13-Dec-18	29-Dec-18																				
TCSS Provision																								
TCB200	Blockwork Walls and Plaster (G/F)	12d	17-Nov-18	30-Nov-18																				
TCB210	ABWF Works to enable TCSS installation	90d	03-Jan-19	25-Apr-19																				
TCB231	Blockwork Walls and Plaster (1/F - East Side)	12d	01-Dec-18	14-Dec-18																				
TCB232	Blockwork Walls and Plaster (1/F - Middle Area)	12d	15-Dec-18	02-Jan-19																				
TCB233	Blockwork Walls and Plaster (1/F - West Side)	12d	03-Jan-19	16-Jan-19																				

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TCB243	Blockwork Walls and Plaster (2/F - East Side)	12d	17-Jan-19	30-Jan-19																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										

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ID	Activity	Days	Start	Finish
Key Date 6 - E&M Works for Administration Building, Maintenance Depot, North Vent Building, Kiosk N2				
E&M Works for North Ventilation Building				
E&M Works				
ENVB1:	E&M Installation - B2/F	150d	01-Nov-18*	08-May-19
ENVB1:	E&M Installation - B1/F	150d	03-Dec-18	10-Jun-19
ENVB1:	E&M Installation - G/F	150d	08-Jan-19	12-Jul-19
ENVB1:	TVF Installation	68d	09-Jan-19*	01-Apr-19
Power On and Statutory Inspections (except FSD)				
ENVB2:	Liaison with CLP	12d	08-Jan-19	21-Jan-19
Remaining E&M Works for Kiosk N2 (Structure Completed under KD2)				
EN2110	Kiosk Structure Completed	0d		07-Dec-18
EN2120	ABWF Works (Door, windows, tiles)	30d	08-Dec-18	16-Jan-19
EN2130	E&M Works	30d	17-Jan-19	23-Feb-19
Key Date 5 - E&M Works for TCB, Toll Area, Kiosk N1, Underpass, Plant Rm, and Approach Roads				
E&M Works for TCB				
ETCB11	First Floor Completed at TCB with Scaffolding Removed	0d		20-Oct-18
ETCB11	Remaining Blockwork Walls and Plaster (G/F)	12d	20-Oct-18	02-Nov-18
ETCB12	Blockwork Walls and Plaster (1/F)	12d	03-Nov-18	16-Nov-18
ETCB12	Remaining Blockwork Walls	12d	17-Nov-18	30-Nov-18
ETCB12	Remaining Plaster	12d	01-Dec-18	14-Dec-18
ETCB13	Remaining ABWF Works	210d	01-Dec-18	19-Aug-19
Power On and Statutory Inspections (except FSD)				
ETCB1:	Liaison with CLP	12d	20-Oct-18	02-Nov-18
ETCB1:	E&M Installation in Transformer Room - 1st Fix	12d	03-Nov-18	16-Nov-18
ETCB1:	E&M Installation in Transformer Room - 2nd Fix	12d	17-Nov-18	30-Nov-18
ETCB2	CLP Installation Works	82d	01-Dec-18	14-Mar-19
Kiosk N1				
EN131	Trim Formation	2d	20-Oct-18	22-Oct-18
EN132	Cast Concrete Base	6d	23-Oct-18	29-Oct-18
EN133	Steel Structure - Columns	11d	30-Oct-18	10-Nov-18
EN134	Steel Structure - Roof	11d	12-Nov-18	23-Nov-18
EN135	Steel Structure - Panels	12d	24-Nov-18	07-Dec-18
EN140	ABWF Works - 1st Fix	12d	08-Dec-18	21-Dec-18
EN150	E&M works - Stage 1	12d	22-Dec-18	09-Jan-19
EN151	E&M works - Stage 2	12d	10-Jan-19	23-Jan-19
Plant Room				

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ID	Activity	Days	Start	Finish	2018																			2019		
					September		October				November				December				January							
					7	24	01	08	15	22	29	05	12	19	26	03	10	17	24	31	07	14				
E&M Works																										
EPR120	Blockwork Wall	12d	20-Oct-18	02-Nov-18																						
EPR130	E&M Installation	90d	12-Dec-18	03-Apr-19																						
PR151	ABWF Works	78d	03-Nov-18*	09-Feb-19																						
Approach Roads																										
Under Portions IX, XI, XX																										
AR130	Cabling works	238d	07-Jan-19*	25-Oct-19																						
Under Portion X																										
AR160	Access Portions X	0d		01-Jan-19																						
AR180	Cabling works in portion X	260d	02-Jan-19	15-Nov-19																						
AR190	Road lighting installation & termination in portion X	260d	16-Jan-19	29-Nov-19																						
Key Date 7A - E&M Works for Approach Roads at South Side																										
Design and Procurement																										
DP810	Tunnel and Approach Road Lighting System	206d	01-Nov-18*	15-Jul-19																						
DP820	CMCS System and ELV System	206d	01-Nov-18*	15-Jul-19																						
DP830	Electrical System	206d	01-Nov-18*	15-Jul-19																						
DP840	Building Services System	206d	01-Nov-18*	15-Jul-19																						
DP850	Plumbing and Drainage System (Tunnel and Roads)	206d	01-Nov-18*	15-Jul-19																						
DP860	Fire Services System	206d	01-Nov-18*	15-Jul-19																						
DP870	Other Related Works to enable E&M Works	206d	01-Nov-18*	15-Jul-19																						
Key Date 11 - Landscape Soft Works & Trees Protection																										
Trees Protection																										
SL190	Protection of Existing Trees	613d	06-Aug-18	28-Aug-20																						

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