

ID	Activity	Days	Start	Finish	2018							2019								
					December							January			February				March	
					19	26	03	10	17	24	31	07	14	21	28	04	11	18	25	04
<b>Three Monthly Programme 20/12/18 - 20/03/19</b>																				
<b>Contract Dates</b>																				
<b>Portion Access Dates</b>																				
P230	Access to Portion X (Day 240)	0	01-Jan-19																	
<b>Portion Possession Dates</b>																				
P205	Possession to Portion XVb (Day 236)	0	29-Nov-18 A		◆															
P215	Possession to Portion XVIb (Day 236)	0	29-Nov-18 A		◆															
P225	Possession to Portion XVa (Day 236)	0	28-Dec-18							◆										
P235	Possession to Portion XVIa (Day 236)	0	28-Dec-18							◆										
<b>Method Statements</b>																				
<b>Administration Building</b>																				
MS1200	ICE & ER Approval of MS for Administration Building (E&M)	12	14-Nov-18 A	27-Nov-18 A																
<b>Maintenance Depot</b>																				
MS1210	Prepare & Submit MS for Maintenance Depot (E&M)	24	14-Nov-18 A	11-Dec-18 A																
MS1220	ICE & ER Approval of MS for Maintenance Depot (E&M)	12	12-Dec-18 A	28-Dec-18																
<b>Custom &amp; Excise Department Building</b>																				
MS1090	Prepare & Submit MS for C&ED Building (Civil)	24	31-Oct-18 A	27-Nov-18 A																
MS1100	ICE & ER Approval of MS for C&ED Building (Civil)	12	28-Nov-18 A	11-Dec-18 A																
MS1230	Prepare & Submit MS for C&ED Building (E&M)	24	12-Dec-18 A	12-Jan-19																
MS1240	ICE & ER Approval of MS for C&ED Building (E&M)	12	14-Jan-19	26-Jan-19																
<b>Fire Services Department Building</b>																				
MS1110	Prepare & Submit MS for Fire Services Building (Civil)	24	28-Nov-18 A	28-Dec-18																
MS1120	ICE & ER Approval of MS for Fire Services Building (Civil)	12	29-Dec-18	12-Jan-19																
MS1250	Prepare & Submit MS for Fire Services Building (E&M)	24	14-Jan-19	13-Feb-19																
MS1260	ICE & ER Approval of MS for Fire Services Building (E&M)	12	14-Feb-19	27-Feb-19																
<b>Satellite Control Building</b>																				
MS1130	Prepare & Submit MS for Satellite Control Building (Civil)	24	29-Dec-18	26-Jan-19																
MS1140	ICE & ER Approval of MS for Satellite Control Building (Civil)	12	28-Jan-19	13-Feb-19																
MS1270	Prepare & Submit MS for Satellite Control Building (E&M)	24	14-Feb-19	13-Mar-19																
MS1280	ICE & ER Approval of MS for Satellite Control Building (E&M)	12	14-Mar-19	27-Mar-19																
<b>E&amp;M Design</b>																				
<b>Section A - Tunnel Ventilation System</b>																				

**THREE MONTHLY ROLLING PROGRAMME**

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

20/12/18 - 20/03/19

P1

Date	Revision	Checked	Approved
20-Dec			

ID	Activity	Days	Start	Finish	2018												2019											
					December						January						February						March					
					19	26	03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18	25	04	11	18	25	04
A020	Tunnel Ventilation Fan Pressure Calculations	60	29-Sep-18 A	27-Nov-18 A																								
A025	Tunnel Ventilation Fan Pressure Calculations - Approval	28	28-Nov-18 A	25-Dec-18																								
A030	Acoustic Calculations	60	28-Nov-18 A	26-Jan-19																								
A035	Acoustic Calculations - Approval	28	27-Jan-19	23-Feb-19																								
A045	TVS -Smoke Extraction Fan Static Calculation for Service Gallery - Approval	28	12-Nov-18 A	09-Dec-18 A																								
A070	Design Proposal of Power Loading Assessment of TVS	60	02-Dec-18 A	30-Jan-19																								
A075	Design Proposal of Power Loading Assessment of TVS - Approval	28	31-Jan-19	27-Feb-19																								
A088	TVS -Design Proposal including the Smoke Extraction Strategy - Approval	28	12-Nov-18 A	09-Dec-18 A																								
A095	TVS -Control Logic Review with FSD - Approval	28	12-Nov-18 A	09-Dec-18 A																								
A100	TVS -Cable Sizing and Voltage Drop for TVFs	60	18-Dec-18 A	15-Feb-19																								
A105	TVS -Cable Sizing and Voltage Drop for TVFs - Approval	28	16-Feb-19	15-Mar-19																								
A110	TVS -Structural Calculation -Fan Support	60	15-Jan-19*	15-Mar-19																								
A115	TVS -Structural Calculation -Fan Support - Approval	28	16-Mar-19	12-Apr-19																								
A120	TVS -Structural Calculation -Duct Support	60	15-Jan-19*	15-Mar-19																								
A125	TVS -Structural Calculation -Duct Support - Approval	28	16-Mar-19	12-Apr-19																								
A130	TVS -Structural Calculation -Ceiling Mounted Fan Supports	60	15-Jan-19*	15-Mar-19																								
A135	TVS -Structural Calculation -Ceiling Mounted Fan Supports - Approval	28	16-Mar-19	12-Apr-19																								
A140	TVS -Structural Calculation -Vertical Fan Supports	60	15-Jan-19*	15-Mar-19																								
A145	TVS -Structural Calculation -Vertical Fan Supports - Approval	28	16-Mar-19	12-Apr-19																								
A150	TVS -Structural Calculation -Horizontal Air Duct Supports	60	15-Jan-19*	15-Mar-19																								
A155	TVS -Structural Calculation -Horizontal Air Duct Supports - Approval	28	16-Mar-19	12-Apr-19																								
A160	Tunnel Cable Sizing and Voltage Drop Verification	60	06-Oct-18 A	04-Dec-18 A																								
A165	Tunnel Cable Sizing and Voltage Drop Verification - Approval	30	05-Dec-18 A	03-Jan-19																								
A170	Tunnel Cable Containment Calculation	60	03-Nov-18 A	01-Jan-19																								
A175	Tunnel Cable Containment Calculation - Approval	30	02-Jan-19	31-Jan-19																								
<b>Section B - Tunnel Lighting and Road Lighting System</b>																												
B025	Tunnel lighting control - Approval	30	07-Nov-18 A	06-Dec-18 A																								
B035	TLS -Lux Calculation - Approval	30	07-Nov-18 A	06-Dec-18 A																								
B045	TLS -Structure support design calculation for tunnel lighting - Approval	30	07-Nov-18 A	06-Dec-18 A																								
B050	Design Proposal of Road / Street Lighting System	60	27-Sep-18 A	25-Nov-18 A																								
B055	Design Proposal of Road / Street Lighting System - Approval	30	26-Nov-18 A	25-Dec-18																								

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

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Date	Revision	Checked	Approved
20-Dec			

ID	Activity	Days	Start	Finish	2018												2019											
					December						January						February						March					
					19	26	03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18	25	04	11	18	25	04
B060	Road Lighting Lux Calculation	60	17-Nov-18 A	15-Jan-19	[Gantt bar: 17-Nov-18 to 15-Jan-19]																							
B065	Road Lighting Lux Calculation - Approval	30	16-Jan-19	14-Feb-19													[Gantt bar: 16-Jan-19 to 14-Feb-19]											
<b>Section C - Building Services of MVAC System</b>																												
<b>TCB</b>																												
C030	TCB -Pump head calculation	60	03-Oct-18 A	01-Dec-18 A	[Gantt bar: 03-Oct-18 to 01-Dec-18]																							
C035	TCB -Pump head calculation - Approval	28	02-Dec-18 A	29-Dec-18	[Gantt bar: 02-Dec-18 to 29-Dec-18]																							
C060	TCB -Acoustic Performance Calculation	60	30-Sep-18 A	28-Nov-18 A	[Gantt bar: 30-Sep-18 to 28-Nov-18]																							
C065	TCB -Acoustic Performance Calculation - Approval	28	29-Nov-18 A	26-Dec-18	[Gantt bar: 29-Nov-18 to 26-Dec-18]																							
<b>ADB</b>																												
C085	ADB -AHU/PAU Static Pressure Calculation - Approval	28	06-Nov-18 A	03-Dec-18 A	[Gantt bar: 06-Nov-18 to 03-Dec-18]																							
C095	ADB -Pump head calculation - Approval	28	26-Oct-18 A	22-Nov-18 A	[Gantt bar: 26-Oct-18 to 22-Nov-18]																							
C115	ADB -Fan Static Pressure Calculation - Approval	28	05-Nov-18 A	02-Dec-18 A	[Gantt bar: 05-Nov-18 to 02-Dec-18]																							
C120	ADB -Acoustic Performance Calculation	60	08-Nov-18 A	06-Jan-19	[Gantt bar: 08-Nov-18 to 06-Jan-19]																							
C125	ADB -Acoustic Performance Calculation - Approval	28	07-Jan-19	03-Feb-19	[Gantt bar: 07-Jan-19 to 03-Feb-19]																							
<b>NVB</b>																												
C135	NVB -AC Cooling Capacity Calculation - Approval	28	12-Nov-18 A	09-Dec-18 A	[Gantt bar: 12-Nov-18 to 09-Dec-18]																							
C145	NVB -Mechanical Ventilation Capacity Calculation - Approval	28	12-Nov-18 A	09-Dec-18 A	[Gantt bar: 12-Nov-18 to 09-Dec-18]																							
C150	NVB -Fan Static Pressure Calculation	60	25-Oct-18 A	23-Dec-18	[Gantt bar: 25-Oct-18 to 23-Dec-18]																							
C155	NVB -Fan Static Pressure Calculation - Approval	28	24-Dec-18	20-Jan-19	[Gantt bar: 24-Dec-18 to 20-Jan-19]																							
C165	NVB -Acoustic Performance Calculation - Approval	28	16-Nov-18 A	13-Dec-18 A	[Gantt bar: 16-Nov-18 to 13-Dec-18]																							
C175	NVB -Refrigerant Pipes Sizing Calculation - Approval	28	20-Nov-18 A	17-Dec-18 A	[Gantt bar: 20-Nov-18 to 17-Dec-18]																							
C185	NVB -Staircase Pressurization System Calculation - Approval	28	12-Nov-18 A	09-Dec-18 A	[Gantt bar: 12-Nov-18 to 09-Dec-18]																							
<b>SVB</b>																												
C190	SVB -AC Cooling Capacity Calculation	60	03-Mar-19*	01-May-19													[Gantt bar: 03-Mar-19 to 01-May-19]											
C240	SVB -Staircase Pressurization System Calculation	60	19-Jan-19*	19-Mar-19													[Gantt bar: 19-Jan-19 to 19-Mar-19]											
<b>CEDB</b>																												
C250	CEDB -AC Cooling Capacity Calculation	60	09-Nov-18 A	07-Jan-19	[Gantt bar: 09-Nov-18 to 07-Jan-19]																							
C255	CEDB -AC Cooling Capacity Calculation - Approval	28	08-Jan-19	04-Feb-19	[Gantt bar: 08-Jan-19 to 04-Feb-19]																							
C260	CEDB -Mechanical Ventilation Capacity Calculation	60	11-Dec-18 A	08-Feb-19	[Gantt bar: 11-Dec-18 to 08-Feb-19]																							
C265	CEDB -Mechanical Ventilation Capacity Calculation - Approval	28	09-Feb-19	08-Mar-19	[Gantt bar: 09-Feb-19 to 08-Mar-19]																							
C270	CEDB -Fan Static Pressure Calculation	60	22-Jan-19*	22-Mar-19	[Gantt bar: 22-Jan-19 to 22-Mar-19]																							
<b>FSDB</b>																												

**THREE MONTHLY ROLLING PROGRAMME**

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

20/12/18 - 20/03/19

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Date	Revision	Checked	Approved
20-Dec			

ID	Activity	Days	Start	Finish	2018												2019											
					December				January				February				March											
					19	26	03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18						
C300	FSDB -AC Cooling Capacity Calculation	60	09-Nov-18 A	07-Jan-19	[Gantt bar: 09-Nov-18 to 07-Jan-19]																							
C305	FSDB -AC Cooling Capacity Calculation - Approval	28	08-Jan-19	04-Feb-19	[Gantt bar: 08-Jan-19 to 04-Feb-19]																							
C310	FSDB -Mechanical Ventilation Capacity Calculation	60	11-Dec-18 A	08-Feb-19	[Gantt bar: 11-Dec-18 to 08-Feb-19]																							
C315	FSDB -Mechanical Ventilation Capacity Calculation - Approval	28	09-Feb-19	08-Mar-19	[Gantt bar: 09-Feb-19 to 08-Mar-19]																							
C320	FSDB -Fan Static Pressure Calculation	60	22-Jan-19*	22-Mar-19	[Gantt bar: 22-Jan-19 to 22-Mar-19]																							
<b>SCB</b>																												
C350	SCB -AC Cooling Capacity Calculation	60	16-Jan-19*	16-Mar-19	[Gantt bar: 16-Jan-19 to 16-Mar-19]																							
C355	SCB -AC Cooling Capacity Calculation - Approval	28	17-Mar-19	13-Apr-19	[Gantt bar: 17-Mar-19 to 13-Apr-19]																							
C360	SCB -Mechanical Ventilation Capacity Calculation	60	17-Feb-19*	17-Apr-19	[Gantt bar: 17-Feb-19 to 17-Apr-19]																							
<b>MD</b>																												
C405	MD -AC Cooling Capacity Calculation - Approval	28	12-Nov-18 A	09-Dec-18 A	[Gantt bar: 12-Nov-18 to 09-Dec-18]																							
C410	MD -AHU/PAU Static Pressure Calculation	60	10-Oct-18 A	08-Dec-18 A	[Gantt bar: 10-Oct-18 to 08-Dec-18]																							
C415	MD -AHU/PAU Static Pressure Calculation - Approval	28	09-Dec-18 A	05-Jan-19	[Gantt bar: 09-Dec-18 to 05-Jan-19]																							
C425	MD -Mechanical Ventilation Capacity Calculation - Approval	28	27-Oct-18 A	23-Nov-18 A	[Gantt bar: 27-Oct-18 to 23-Nov-18]																							
C430	MD -Fan Static Pressure Calculation	60	09-Oct-18 A	07-Dec-18 A	[Gantt bar: 09-Oct-18 to 07-Dec-18]																							
C435	MD -Fan Static Pressure Calculation - Approval	28	08-Dec-18 A	04-Jan-19	[Gantt bar: 08-Dec-18 to 04-Jan-19]																							
C440	MD -Acoustic Performance Calculation	60	11-Dec-18 A	08-Feb-19	[Gantt bar: 11-Dec-18 to 08-Feb-19]																							
C445	MD -Acoustic Performance Calculation - Approval	28	09-Feb-19	08-Mar-19	[Gantt bar: 09-Feb-19 to 08-Mar-19]																							
<b>Vehicular Underpass</b>																												
C460	Vehicle Underpass -Fan Static Pressure Calculation	60	29-Sep-18 A	27-Nov-18 A	[Gantt bar: 29-Sep-18 to 27-Nov-18]																							
C465	Vehicle Underpass -Fan Static Pressure Calculation - Approval	28	28-Nov-18 A	25-Dec-18	[Gantt bar: 28-Nov-18 to 25-Dec-18]																							
C470	Vehicle Underpass -Acoustic Performance Calculation	60	01-Dec-18 A	29-Jan-19	[Gantt bar: 01-Dec-18 to 29-Jan-19]																							
C475	Vehicle Underpass -Acoustic Performance Calculation - Approval	28	30-Jan-19	26-Feb-19	[Gantt bar: 30-Jan-19 to 26-Feb-19]																							
<b>Section D - Building Services of Electrical System</b>																												
<b>TCB</b>																												
D075	TCB -Cable Containment Calculation - Approval	30	03-Nov-18 A	02-Dec-18 A	[Gantt bar: 03-Nov-18 to 02-Dec-18]																							
<b>ADB</b>																												
D125	ADB -Lux Level Calculation - Approval	30	08-Nov-18 A	07-Dec-18 A	[Gantt bar: 08-Nov-18 to 07-Dec-18]																							
D130	ADB -Cable Sizing and Voltage Drop Verification	60	30-Sep-18 A	28-Nov-18 A	[Gantt bar: 30-Sep-18 to 28-Nov-18]																							
D135	ADB -Cable Sizing and Voltage Drop Verification - Approval	30	29-Nov-18 A	28-Dec-18	[Gantt bar: 29-Nov-18 to 28-Dec-18]																							
D160	ADB -Cable Containment Calculation	60	10-Oct-18 A	08-Dec-18 A	[Gantt bar: 10-Oct-18 to 08-Dec-18]																							
D165	ADB -Cable Containment Calculation - Approval	30	09-Dec-18 A	07-Jan-19	[Gantt bar: 09-Dec-18 to 07-Jan-19]																							

**THREE MONTHLY ROLLING PROGRAMME**

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P4

Date	Revision	Checked	Approved
20-Dec			

ID	Activity	Days	Start	Finish	2018							2019											
					December							January			February				March				
					19	26	03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18	
D170	ADB -Earthing Resistance Calculation	60	30-Sep-18 A	28-Nov-18 A																			
D175	ADB -Earthing Resistance Calculation - Approval	30	29-Nov-18 A	28-Dec-18																			
D180	ADB -Power Factor Correction & Harmonic Current AnalysisCalculation	60	30-Sep-18 A	28-Nov-18 A																			
D185	ADB -Power Factor Correction & Harmonic Current AnalysisCalculation - Apprc	30	29-Nov-18 A	28-Dec-18																			
<b>NVB</b>																							
D255	NVB -Cable Containment Calculation - Approval	30	18-Nov-18 A	17-Dec-18 A																			
<b>SVB</b>																							
D300	SVB -Electrical Loading Demand Calculation	60	07-Mar-19*	05-May-19																			
<b>SCB</b>																							
D390	SCB -UPS and Battery Capacity Calculations	60	20-Jan-19*	20-Mar-19																			
D400	SCB -Electrical Loading Demand Calculation	60	20-Jan-19*	20-Mar-19																			
D410	SCB -Lux Level Calculation	60	24-Feb-19*	24-Apr-19																			
D430	SCB -Generator Calculation	60	28-Dec-18*	25-Feb-19																			
D435	SCB -Generator Calculation - Approval	30	26-Feb-19	27-Mar-19																			
D440	SCB -Fuel Tank Calculation	60	28-Dec-18*	25-Feb-19																			
D445	SCB -Fuel Tank Calculation - Approval	30	26-Feb-19	27-Mar-19																			
<b>CEDB</b>																							
D480	CEDB -UPS and Battery Capacity Calculations	60	04-Jan-19*	04-Mar-19																			
D485	CEDB -UPS and Battery Capacity Calculations - Approval	30	05-Mar-19	03-Apr-19																			
D490	CEDB -Electrical Loading Demand Calculation	60	13-Nov-18 A	11-Jan-19																			
D495	CEDB -Electrical Loading Demand Calculation - Approval	30	12-Jan-19	10-Feb-19																			
D500	CEDB -Lux Level Calculation	60	22-Jan-19*	22-Mar-19																			
D510	CEDB -Cable Sizing and Voltage Drop Verification	60	16-Feb-19*	16-Apr-19																			
D520	CEDB -Calculation of Total Electrical Load	60	13-Nov-18 A	11-Jan-19																			
D525	CEDB -Calculation of Total Electrical Load - Approval	30	12-Jan-19	10-Feb-19																			
D530	CEDB -Generator Calculation	60	15-Dec-18 A	12-Feb-19																			
D535	CEDB -Generator Calculation - Approval	30	13-Feb-19	14-Mar-19																			
D540	CEDB -Fuel Tank Calculation	60	15-Dec-18 A	12-Feb-19																			
D545	CEDB -Fuel Tank Calculation - Approval	30	13-Feb-19	14-Mar-19																			
D560	CEDB -Earthing Resistance Calculation	60	16-Feb-19*	16-Apr-19																			
D570	CEDB -Power Factor Correction & Harmonic Current Analysis Calculation	60	16-Feb-19*	16-Apr-19																			
<b>FSDB</b>																							

**THREE MONTHLY ROLLING PROGRAMME**

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

20/12/18 - 20/03/19

P5

Date	Revision	Checked	Approved
20-Dec			

ID	Activity	Days	Start	Finish	2018							2019												
					December							January			February				March					
					19	26	03	10	17	24	31	07	14	21	28	04	11	18	25	01	08	15	22	
D580	FSDB -UPS and Battery Capacity Calculations	60	26-Dec-18*	23-Feb-19																				
D585	FSDB -UPS and Battery Capacity Calculations - Approval	30	24-Feb-19	25-Mar-19																				
D590	FSDB -Electrical Loading Demand Calculation	60	13-Nov-18 A	11-Jan-19																				
D595	FSDB -Electrical Loading Demand Calculation - Approval	30	12-Jan-19	10-Feb-19																				
D600	FSDB -Lux Level Calculation	60	23-Jan-19*	23-Mar-19																				
D610	FSDB -Cable Sizing and Voltage Drop Verification	60	17-Feb-19*	17-Apr-19																				
D620	FSDB -Calculation of Total Electrical Load	60	13-Nov-18 A	11-Jan-19																				
D625	FSDB -Calculation of Total Electrical Load - Approval	30	12-Jan-19	10-Feb-19																				
D630	FSDB -Generator Calculation	60	22-Dec-18*	19-Feb-19																				
D635	FSDB -Generator Calculation - Approval	30	20-Feb-19	21-Mar-19																				
D640	FSDB -Fuel Tank Calculation	60	22-Dec-18*	19-Feb-19																				
D645	FSDB -Fuel Tank Calculation - Approval	30	20-Feb-19	21-Mar-19																				
D660	FSDB -Earthing Resistance Calculation	60	17-Feb-19*	17-Apr-19																				
D670	FSDB -Power Factor Correction & Harmonic Current Analysis Calculation	60	17-Feb-19*	17-Apr-19																				
<b>MD</b>																								
D695	MD -Lux Level Calculation - Approval	30	19-Nov-18 A	18-Dec-18 A																				
D700	MD -Cable Sizing and Voltage Drop Verification	60	26-Oct-18 A	24-Dec-18																				
D705	MD -Cable Sizing and Voltage Drop Verification - Approval	30	25-Dec-18	23-Jan-19																				
D730	MD -Cable Containment Calculation	60	14-Nov-18 A	12-Jan-19																				
D735	MD -Cable Containment Calculation - Approval	30	13-Jan-19	11-Feb-19																				
D740	MD -Earthing Resistance Calculation	60	26-Oct-18 A	24-Dec-18																				
D745	MD -Earthing Resistance Calculation - Approval	30	25-Dec-18	23-Jan-19																				
D750	MD -Power Factor Correction & Harmonic Current Analysis Calculation	60	26-Oct-18 A	24-Dec-18																				
D755	MD -Power Factor Correction & Harmonic Current Analysis Calculation - Apprc	30	25-Dec-18	23-Jan-19																				
<b>Section E - Building Services of Fire Services System</b>																								
<b>Tunnel &amp; Service Gallery</b>																								
E010	FS and Sprinkler Water Tanks Effective Volumes Calculation	60	16-Oct-18 A	14-Dec-18 A																				
E015	FS and Sprinkler Water Tanks Effective Volumes Calculation - Approval	30	15-Dec-18 A	13-Jan-19																				
E020	FS Pump Head Calculation for Tunnel	60	14-Oct-18 A	12-Dec-18 A																				
E025	FS Pump Head Calculation for Tunnel - Approval	30	13-Dec-18 A	11-Jan-19																				
E030	FS Pump Head Calculation for Services Gallery	60	14-Oct-18 A	12-Dec-18 A																				

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Date	Revision	Checked	Approved
20-Dec			

ID	Activity	Days	Start	Finish	2018												2019											
					December						January						February						March					
					19	26	03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18	25	04	11	18		
E035	FS Pump Head Calculation for Services Gallery - Approval	30	13-Dec-18 A	11-Jan-19																								
E040	Sprinkler Pump Head Calculation for Services Gallery	60	14-Oct-18 A	12-Dec-18 A																								
E045	Sprinkler Pump Head Calculation for Services Gallery - Approval	30	13-Dec-18 A	11-Jan-19																								
<b>TCB</b>																												
E065	TCB -FS Pump Head Calculation - Approval	30	12-Nov-18 A	11-Dec-18 A																								
E075	TCB -Sprinkler Pump Head Calculation - Approval	30	12-Nov-18 A	11-Dec-18 A																								
<b>ADB</b>																												
E105	ADB -FS Pump Head Calculation - Approval	30	12-Nov-18 A	11-Dec-18 A																								
E115	ADB -Sprinkler Pump Head Calculation - Approval	30	12-Nov-18 A	11-Dec-18 A																								
<b>SVB</b>																												
E210	SVB -FM200 System Design Calculation	60	22-Jan-19*	22-Mar-19																								
<b>SCB</b>																												
E220	SCB -FS Pump Head Calculation	60	10-Mar-19*	08-May-19																								
E230	SCB -Sprinkler Pump Head Calculation	60	10-Mar-19*	08-May-19																								
E240	SCB -Battery Capacity Calculation	60	07-Feb-19*	07-Apr-19																								
E250	SCB -FM200 System Design Calculation	60	22-Oct-18 A	20-Dec-18																								
E255	SCB -FM200 System Design Calculation - Approval	30	21-Dec-18	19-Jan-19																								
<b>CEDB</b>																												
E260	CEDB -FS Pump Head Calculation	60	16-Feb-19*	16-Apr-19																								
E270	CEDB -Sprinkler Pump Head Calculation	60	16-Feb-19*	16-Apr-19																								
E280	CEDB -Battery Capacity Calculation	60	27-Nov-18 A	25-Jan-19																								
E285	CEDB -Battery Capacity Calculation - Approval	30	26-Jan-19	24-Feb-19																								
E290	CEDB -FM200 System Design Calculation	60	22-Nov-18 A	20-Jan-19																								
E295	CEDB -FM200 System Design Calculation - Approval	30	21-Jan-19	19-Feb-19																								
<b>FSDB</b>																												
E300	FSDB -FS Pump Head Calculation	60	28-Nov-18 A	26-Jan-19																								
E305	FSDB -FS Pump Head Calculation - Approval	30	27-Jan-19	25-Feb-19																								
E310	FSDB -Sprinkler Pump Head Calculation	60	28-Nov-18 A	26-Jan-19																								
E315	FSDB -Sprinkler Pump Head Calculation - Approval	30	27-Jan-19	25-Feb-19																								
E320	FSDB -Battery Capacity Calculation	60	28-Nov-18 A	26-Jan-19																								
E325	FSDB -Battery Capacity Calculation - Approval	30	27-Jan-19	25-Feb-19																								
<b>MD</b>																												

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Date	Revision	Checked	Approved
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ID	Activity	Days	Start	Finish	2018												2019						
					December					January				February			March						
					19	26	03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18	
E360	MD -FM200 System Design Calculation	60	22-Nov-18 A	20-Jan-19																			
E365	MD -FM200 System Design Calculation - Approval	30	21-Jan-19	19-Feb-19																			
<b>Section F - Building Services of Plumbing &amp; Drainage System</b>																							
<b>Tunnel</b>																							
F020	Water Storage Tank Calculation	60	16-Oct-18 A	14-Dec-18 A																			
F025	Water Storage Tank Calculation - Approval	30	15-Dec-18 A	13-Jan-19																			
<b>TCB</b>																							
F030	TCB - Pump Head Calculation	60	13-Oct-18 A	11-Dec-18 A																			
F035	TCB - Pump Head Calculation - Approval	30	12-Dec-18 A	10-Jan-19																			
F040	TCB - Pressure Vessel Calculation	60	13-Oct-18 A	11-Dec-18 A																			
F045	TCB - Pressure Vessel Calculation - Approval	30	12-Dec-18 A	10-Jan-19																			
<b>ADB</b>																							
F080	ADB - Pump Head Calculation	60	09-Nov-18 A	07-Jan-19																			
F085	ADB - Pump Head Calculation - Approval	30	08-Jan-19	06-Feb-19																			
F090	ADB - Pressure Vessel Calculation	60	09-Nov-18 A	07-Jan-19																			
F095	ADB - Pressure Vessel Calculation - Approval	30	08-Jan-19	06-Feb-19																			
F100	ADB - Rainwater Analysis and Pipe Work Calculation	60	07-Oct-18 A	05-Dec-18 A																			
F105	ADB - Rainwater Analysis and Pipe Work Calculation - Approval	30	06-Dec-18 A	04-Jan-19																			
F130	ADB - Drainage Sump Pumps and Pump Pits Calculation	60	18-Oct-18 A	16-Dec-18 A																			
F135	ADB - Drainage Sump Pumps and Pump Pits Calculation - Approval	30	17-Dec-18 A	15-Jan-19																			
<b>NVB</b>																							
F140	NVB - Pump Head Calculation	60	18-Oct-18 A	16-Dec-18 A																			
F145	NVB - Pump Head Calculation - Approval	30	17-Dec-18 A	15-Jan-19																			
F150	NVB - Pressure Vessel Calculation	60	18-Oct-18 A	16-Dec-18 A																			
F155	NVB - Pressure Vessel Calculation - Approval	30	17-Dec-18 A	15-Jan-19																			
<b>CEDB</b>																							
F250	CEDB - Rainwater Analysis and Pipe Work Calculation	60	22-Feb-19*	22-Apr-19																			
F260	CEDB - Hydraulic Analysis of Waste Water Systems	60	24-Dec-18*	21-Feb-19																			
F265	CEDB - Hydraulic Analysis of Waste Water Systems - Approval	30	22-Feb-19	23-Mar-19																			
<b>FSDB</b>																							
F290	FSDB - Rainwater Analysis and Pipe Work Calculation	60	22-Feb-19*	22-Apr-19																			
F300	FSDB - Hydraulic Analysis of Waste Water Systems	60	24-Dec-18*	21-Feb-19																			

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ID	Activity	Days	Start	Finish	2018						2019								
					December		January		February		March								
					19	26	03	10	17	24	31	07	14	21	28	04	11	18	25
F305	FSDB - Hydraulic Analysis of Waste Water Systems - Approval	30	22-Feb-19	23-Mar-19															
<b>MD</b>																			
F310	MD - Drainage Sump Pumps and Pump Pits Calculation	60	19-Dec-18 A	16-Feb-19															
F315	MD - Drainage Sump Pumps and Pump Pits Calculation - Approval	30	17-Feb-19	18-Mar-19															
F320	MD - Pump Head Calculation	60	19-Dec-18 A	16-Feb-19															
F325	MD - Pump Head Calculation - Approval	30	17-Feb-19	18-Mar-19															
F330	MD - Pressure Vessel Calculation	60	19-Dec-18 A	16-Feb-19															
F335	MD - Pressure Vessel Calculation - Approval	30	17-Feb-19	18-Mar-19															
F340	MD - Rainwater Analysis and Pipe Work Calculation	60	09-Nov-18 A	07-Jan-19															
F345	MD - Rainwater Analysis and Pipe Work Calculation - Approval	30	08-Jan-19	06-Feb-19															
F355	MD - Hydraulic Analysis of Waste Water Systems - Approval	30	09-Nov-18 A	08-Dec-18 A															
<b>Vehicle Underpass</b>																			
F360	Vehicle underpass - Drainage Sump Pumps and Pump Pits Calculation	60	18-Nov-18 A	16-Jan-19															
F365	Vehicle underpass - Drainage Sump Pumps and Pump Pits Calculation - App	30	17-Jan-19	15-Feb-19															
F370	Vehicle underpass - Pump Head Calculation	60	18-Nov-18 A	16-Jan-19															
F375	Vehicle underpass - Pump Head Calculation - Approval	30	17-Jan-19	15-Feb-19															
F380	Vehicle underpass - Pressure Vessel Calculation	60	18-Nov-18 A	16-Jan-19															
F385	Vehicle underpass - Pressure Vessel Calculation - Approval	30	17-Jan-19	15-Feb-19															
F390	Vehicle underpass - Rainwater Analysis and Pipe Work Calculation	60	30-Oct-18 A	28-Dec-18															
F395	Vehicle underpass - Rainwater Analysis and Pipe Work Calculation - Approva	30	29-Dec-18	27-Jan-19															
F405	Vehicle underpass - Hydraulic Analysis of Waste Water Systems - Approval	30	30-Oct-18 A	28-Nov-18 A															
<b>Section G - ELV System</b>																			
G025	System Design for CMCS - Approval	30	01-Nov-18 A	30-Nov-18 A															
G035	System Design for Access Control System - Approval	30	01-Nov-18 A	30-Nov-18 A															
G040	System Design for CCTV	60	04-Oct-18 A	02-Dec-18 A															
G045	System Design for CCTV - Approval	30	03-Dec-18 A	01-Jan-19															
G055	System Design for IT System - Approval	30	31-Oct-18 A	29-Nov-18 A															
G065	System Design for PABX System - Approval	30	14-Nov-18 A	13-Dec-18 A															
G075	System Design for PA System - Approval	30	14-Nov-18 A	13-Dec-18 A															
G085	System Design for BRI System - Approval	30	14-Nov-18 A	13-Dec-18 A															
G095	System Design for Audio Recording System - Approval	30	14-Nov-18 A	13-Dec-18 A															

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ID	Activity	Days	Start	Finish	2018												2019						
					December												January			February		March	
					19	26	03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18	
G105	System Design for Communication Network System System - Approval	30	14-Nov-18 A	13-Dec-18 A																			
G110	System Design for Building Management System	60	24-Oct-18 A	22-Dec-18																			
G115	System Design for Building Management System - Approval	30	23-Dec-18*	21-Jan-19																			
<b>Key Date 4A - FSD Building Substructure, Boundary Wall, and C&amp;ED Building Substructure</b>																							
<b>FSD Building Substructure</b>																							
FSD117	Demobilization	3	11-Dec-18 A	13-Dec-18 A																			
FSD140	Socket H-Piles (Pile No. 1-7)	12	20-Nov-18 A	03-Dec-18 A																			
FSD141	Socket H-Piles (Pile No. 8-14)	12	04-Dec-18 A	17-Dec-18 A																			
FSD142	Socket H-Piles (Pile No. 15-21)	12	18-Dec-18 A	04-Jan-19																			
FSD143	Socket H-Piles (Pile No. 22-28)	12	05-Jan-19	18-Jan-19																			
FSD144	Socket H-Piles (Pile No. 29-35)	12	19-Jan-19	01-Feb-19																			
FSD145	Socket H-Piles (Pile No. 36-37)	3	02-Feb-19	08-Feb-19																			
FSD150	Loading Test	14	09-Feb-19	25-Feb-19																			
FSD160	Building Substructure	22	26-Feb-19	22-Mar-19																			
<b>Boundary Wall for FSD Building</b>																							
FSD180	Possess Portion XVlb	0		29-Nov-18 A																			
FSD190	Boundary Wall for FSD Building	24	19-Dec-18 A	21-Jan-19																			
<b>C&amp;ED Building Substructure</b>																							
CED141	Predrilling (No. 7-12)	11	20-Nov-18 A	01-Dec-18 A																			
CED150	Socket H-Piling (No. 1-8)	11	20-Nov-18 A	01-Dec-18 A																			
CED151	Socket H-Piling (No. 9-16)	11	03-Dec-18 A	29-Dec-18																			
CED152	Socket H-Piling (No. 17-24)	11	29-Dec-18	12-Jan-19																			
CED153	Socket H-Piling (No. 25-32)	11	12-Jan-19	25-Jan-19																			
CED154	Socket H-Piling (No. 33-40)	11	25-Jan-19	11-Feb-19																			
CED155	Socket H-Piling (No. 41-48)	11	11-Feb-19	23-Feb-19																			
CED156	Socket H-Piling (No. 49-52)	10	23-Feb-19	07-Mar-19																			
CED170	Loading Test	14	07-Mar-19	23-Mar-19																			
<b>Key Date 1 - Toll Control Building (TCB) &amp; TCSS Provision</b>																							
<b>Toll Control Building (TCB)</b>																							
TCB173	Level 2 Slab	12	15-Nov-18 A	20-Dec-18 A																			
TCB175	Roof Columns & Scaffolding	10	12-Dec-18 A	05-Jan-19																			

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					December						January						February						March					
					19	26	03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18	25	04	11	18		
TCB180	Roof Slab	12	13-Dec-18 A	11-Jan-19																								
TCB190	Top Roof	5	12-Jan-19	17-Jan-19																								
<b>TCSS Provision</b>																												
TCB200	Blockwork Walls and Plaster (G/F)	12	17-Nov-18 A	30-Nov-18 A																								
TCB210	ABWF Works to enable TCSS installation	90	18-Jan-19	11-May-19																								
TCB220	E&M Works to enable TCSS installation	90	15-Mar-19	05-Jul-19																								
TCB231	Blockwork Walls and Plaster (1/F - East Side)	12	01-Dec-18 A	14-Dec-18 A																								
TCB232	Blockwork Walls and Plaster (1/F - Middle Area)	12	15-Dec-18 A	02-Jan-19																								
TCB233	Blockwork Walls and Plaster (1/F - West Side)	12	03-Jan-19	16-Jan-19																								
TCB243	Blockwork Walls and Plaster (2/F - East Side)	12	17-Jan-19	30-Jan-19																								
TCB253	Blockwork Walls and Plaster (2/F - Middle Area)	12	31-Jan-19	16-Feb-19																								
TCB263	Blockwork Walls and Plaster (2/F - West Side)	12	18-Feb-19	02-Mar-19																								
<b>Key Date 4 - E&amp;M Works in Vehicular Underpass Area &amp; TCSS Provision</b>																												
<b>E&amp;M Works</b>																												
VU120	Jet Fans installation	24	07-Jan-19*	02-Feb-19																								
VU130	Post Drill and Bracket Fixing	18	04-Feb-19	27-Feb-19																								
VU140	Cabling Works	36	28-Feb-19	11-Apr-19																								
VU170	Cable containment in Ventilation Duct	24	07-Jan-19*	02-Feb-19																								
VU180	Dampers installation in Ventilation Duct	24	04-Feb-19	06-Mar-19																								
<b>Key Date 2 - Administration Building, Maintenance Depot, Kiosk N2, TCSS Provision</b>																												
<b>Administration Building (ADB)</b>																												
<b>Piling Works</b>																												
ADB150	Loading Test	14	20-Nov-18 A	05-Dec-18 A																								
<b>Building Structure</b>																												
ADB160	Foundations	12	03-Dec-18 A	29-Dec-18																								
ADB170	Erect Tower Crane (ADB)	3	27-Dec-18	29-Dec-18																								
ADB180	Ground Floor	14	31-Dec-18	16-Jan-19																								
ADB190	First Floor	21	17-Jan-19	13-Feb-19																								
ADB200	Roof Slab	28	14-Feb-19	18-Mar-19																								
ADB210	Top Roof	16	19-Mar-19	06-Apr-19																								
<b>Provision for TCSS Installation</b>																												
ADB230	Blockwork Walls and Plaster	70	28-Feb-19	25-May-19																								

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					December						January						February						March					
					19	26	03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18	25	04	11	18		
<b>Maintenance Depot</b>																												
<b>Piling Works</b>																												
MD141	Loading Test and Report	7	17-Nov-18 A	24-Nov-18 A																								
<b>Depot Structure</b>																												
MD150	Foundations	10	25-Nov-18 A	27-Dec-18																								
MD160	Ground Floor	14	28-Dec-18	14-Jan-19																								
MD170	Roof Slab	24	15-Jan-19	14-Feb-19																								
MD180	Top Roof	18	15-Feb-19	07-Mar-19																								
<b>Provision for TCSS Installation</b>																												
MD190	Blockwork Walls and Plaster	60	08-Mar-19	22-May-19																								
<b>Kiosk N2</b>																												
N2-127	Kiosk Structure - Wall	12	22-Nov-18 A	05-Dec-18 A																								
N2-128	Kiosk Structure - Roof	12	06-Dec-18 A	12-Dec-18 A																								
N2-130	ABWF Works to enable TCSS installation	18	20-Dec-18	14-Jan-19																								
N2-140	E&M Works to enable TCSS installation	18	15-Jan-19	04-Feb-19																								
<b>Key Date 6 - E&amp;M Works for Administration Building, Maintenance Depot, North Vent Building, Kiosk N2</b>																												
<b>E&amp;M Works for Administration Building (Structure Completed under KD2)</b>																												
EADB11	ADB First Floor Completed with Scaffolding Removed	0		27-Feb-19																								
EADB12	ABWF Works	133	28-Feb-19	09-Aug-19																								
EADB13	E&M Installation	133	11-Mar-19	20-Aug-19																								
<b>E&amp;M Works for Maintenance Depot (Structure Completed under KD2)</b>																												
EMD110	Maintenance Depot Structure Completed	0		07-Mar-19																								
EMD120	ABWF Works	104	08-Mar-19	15-Jul-19																								
<b>E&amp;M Works for North Ventilation Building</b>																												
<b>E&amp;M Works</b>																												
ENVB1	E&M Installation - G/F	150	01-Nov-18 A	06-Apr-19																								
ENVB1	E&M Installation - 1/F	150	21-Nov-18 A	10-May-19																								
ENVB1	E&M Installation - B2/F	150	15-Dec-18 A	15-Jun-19																								
ENVB1	E&M Installation - B1/F	150	15-Dec-18 A	15-Jun-19																								
ENVB1	E&M Installation - 2/F	150	17-Dec-18 A	15-Jun-19																								
ENVB1	TVF Installation	68	09-Jan-19*	01-Apr-19																								
<b>Power On and Statutory Inspections (except FSD)</b>																												

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					December						January			February			March						
					19	26	03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18	
ENVB2	Liaison with CLP	12	20-Dec-18	07-Jan-19																			
ENVB2	E&M Installation in Transformer Room	24	08-Jan-19	04-Feb-19																			
ENVB2	CLP Installation Works	82	08-Feb-19	20-May-19																			
<b>Remaining E&amp;M Works for Kiosk N2 (Structure Completed under KD2)</b>																							
EN2110	Kiosk Structure Completed	0		19-Dec-18 A																			
EN2120	ABWF Works (Door, windows, tiles)	30	20-Dec-18	28-Jan-19																			
EN2130	E&M Works	30	29-Jan-19	07-Mar-19																			
EN2140	Testing & Commissioning	12	08-Mar-19	21-Mar-19																			
<b>Key Date 5 - E&amp;M Works for TCB, Toll Area, Kiosk N1, Underpass, Plant Rm, and Approach Roads</b>																							
<b>E&amp;M Works for TCB</b>																							
ETCB11	First Floor Completed at TCB with Scaffolding Removed	0		20-Nov-18 A																			
ETCB11	Remaining Blockwork Walls and Plaster (G/F)	12	20-Nov-18 A	03-Dec-18 A																			
ETCB12	Blockwork Walls and Plaster (1/F)	12	04-Dec-18 A	17-Dec-18 A																			
ETCB12	Remaining Blockwork Walls	12	18-Dec-18 A	04-Jan-19																			
ETCB12	Remaining Plaster	12	05-Jan-19	18-Jan-19																			
ETCB13	Remaining ABWF Works	210	05-Jan-19	19-Sep-19																			
ETCB14	Remaining E&M Installations	210	06-Mar-19	16-Nov-19																			
<b>Power On and Statutory Inspections (except FSD)</b>																							
ETCB1	Liaison with CLP	12	20-Dec-18	07-Jan-19																			
ETCB1	E&M Installation in Transformer Room - 1st Fix	12	08-Jan-19	21-Jan-19																			
ETCB1	E&M Installation in Transformer Room - 2nd Fix	12	22-Jan-19	04-Feb-19																			
ETCB2	CLP Installation Works	82	08-Feb-19	20-May-19																			
<b>Kiosk N1</b>																							
EN131	Trim Formation	2	20-Dec-18	21-Dec-18																			
EN132	Cast Concrete Base	6	22-Dec-18	02-Jan-19																			
EN133	Steel Structure - Columns	11	03-Jan-19	15-Jan-19																			
EN134	Steel Structure - Roof	11	16-Jan-19	28-Jan-19																			
EN135	Steel Structure - Panels	12	29-Jan-19	14-Feb-19																			
EN140	ABWF Works - 1st Fix	12	15-Feb-19	28-Feb-19																			
EN150	E&M works - Stage 1	12	01-Mar-19	14-Mar-19																			
EN151	E&M works - Stage 2	12	15-Mar-19	28-Mar-19																			
<b>Plant Room</b>																							

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ID	Activity	Days	Start	Finish	2018							2019													
					December							January			February				March						
					er	19	26	03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18		
<b>E&amp;M Works</b>																									
EPR130	E&M Installation	90	20-Dec-18	12-Apr-19																					
EPR140	External Works	82	19-Feb-19	30-May-19																					
PR151	ABWF Works	78	03-Nov-18 A	09-Feb-19																					
<b>Approach Roads</b>																									
<b>Under Portions IX, XI, XX</b>																									
AR130	Cabling works	238	07-Jan-19*	25-Oct-19																					
AR140	Road lighting installation & termination	238	04-Feb-19	22-Nov-19																					
<b>Under Portion X</b>																									
AR160	Access Portions X	0		01-Jan-19																					
AR180	Cabling works in portion X	260	02-Jan-19	15-Nov-19																					
AR190	Road lighting installation & termination in portion X	260	16-Jan-19	29-Nov-19																					
<b>Key Date 7A - E&amp;M Works for Approach Roads at South Side</b>																									
<b>Design and Procurement</b>																									
DP810	Tunnel and Approach Road Lighting System	206	01-Nov-18 A	15-Jul-19																					
DP820	CMCS System and ELV System	206	01-Nov-18 A	15-Jul-19																					
DP830	Electrical System	206	01-Nov-18 A	15-Jul-19																					
DP840	Building Services System	206	01-Nov-18 A	15-Jul-19																					
DP850	Plumbing and Drainage System (Tunnel and Roads)	206	01-Nov-18 A	15-Jul-19																					
DP860	Fire Services System	206	01-Nov-18 A	15-Jul-19																					
DP870	Other Related Works to enable E&M Works	206	01-Nov-18 A	15-Jul-19																					
<b>Key Date 11 - Landscape Soft Works &amp; Trees Protection</b>																									
<b>Trees Protection</b>																									
SL190	Protection of Existing Trees	613	06-Aug-18 A	28-Aug-20																					

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