

## Appendix A Master Programme





Activity ID	Activity Name	Primary Constraint	At Completion Duration	Current Start	Current Finish	Actual Start	Actual Finish	Latest Start	Latest Finish	Total Float	Activity % Complete	M28 Remarks
05-1020	Ash Cranes	Start On or After	244			07-Sep-18 A	09-May-19 A				100%	
05-1030	Leachate Collection and Treatment	Start On or After	245			25-May-18 A	25-Jan-19 A				100%	
05-1040	Waste Water Treatment System	Start On or After	361			06-Jul-18 A	02-Jul-19 A				100%	
05-1050	Overall Plan Water Scheme	Start On or After	350			24-May-18 A	09-May-19 A				100%	
05-1060	Boiler Feed Water System	Start On or After	223			21-Mar-18 A	30-Oct-18 A				100%	
EP_SP_66_12-WP-3-M28.05.01.01.2	MSW treatment process design for mechanical treatment (2.1.02)		707	31-Mar-20	13-Jul-20	07-Aug-18 A	13-Jul-20	02-May-20	15-Aug-20	32		
05-1090	Mechanical Treatment Plant (2.1.02.01)	Start On or After	105	31-Mar-20	13-Jul-20	31-Mar-20*	13-Jul-20	02-May-20	15-Aug-20	32	0%	
05-1100	Desalination Plant and Boiler Water Treatment (Demin Unit) Plant (2.1.02.02)	Start On or After	345			07-Aug-18 A	18-Jul-19 A				100%	
EP_SP_66_12-WP-3-M28.05.01.01.3	Waste heat recovery and Power generation system (2.1.03)		323			24-May-18 A	12-Apr-19 A					
05-1110	Power Island (Steam Turbine Generator, Pressure Reducing and Desuperheating Station, Air Cooled Cond)	Start On or After	323			24-May-18 A	12-Apr-19 A				100%	
05-1120	Closed Circuit Cooling Water System	Start On or After	323			24-May-18 A	12-Apr-19 A				100%	
05-1130	Compressed Air Plants	Start On or After	232			04-Jul-18 A	21-Feb-19 A				100%	
EP_SP_66_12-WP-3-M28.05.01.01.4	Flue gas treatment process design for incineration (2.1.04)		270			15-Mar-18 A	10-Dec-18 A					
05-1070	Flue Gas Treatment System	Start On or After	242			15-Mar-18 A	12-Nov-18 A				100%	
05-1080	Boiler ash and APC residue handling and solidification	Start On or After	199			25-May-18 A	10-Dec-18 A				100%	
EP_SP_66_12-WP-3-M28.05.01.01.5	Logistic arrangement design for MSW and Ash and Residues (2.1.05)		384			05-Jul-18 A	24-Jul-19 A					
05-1140	Weighbridge Systems	Start On or After	152			05-Sep-18 A	04-Feb-19 A				100%	
05-1150	Waste Crane and Grapple System	Start On or After	221			05-Jul-18 A	11-Feb-19 A				100%	
05-1160	Mechanical Shredder	Start On or After	243			23-Nov-18 A	24-Jul-19 A				100%	
EP_SP_66_12-WP-3-M28.05.01.01.6	Site Master Layout Plan and Plant Layout (2.1.06)		766	31-Mar-20	31-May-20	27-Apr-18 A	31-May-20	31-Dec-20	03-Mar-21	275		
05-3020	Site Master Layout Plan and Plant Layout		766	31-Mar-20	31-May-20	27-Apr-18 A	31-May-20	31-Dec-20	03-Mar-21	275	65%	
EP_SP_66_12-WP-3-M28.05.01.01.7	Statutory Fire Compliance (2.1.25)		123	31-Mar-20	31-Jul-20	31-Mar-20*	31-Jul-20	10-Apr-19	26-Feb-21	209		
05-2990	Fire Safety Compliance	Start On or After	123	31-Mar-20	31-Jul-20	31-Mar-20*	31-Jul-20	10-Apr-19	10-Aug-19	-356	0%	
05-3000	Fire Engineering Report	Start On or After	123	31-Mar-20	31-Jul-20	31-Mar-20*	31-Jul-20	10-Apr-19	10-Aug-19	-356	0%	
05-3010	Fire Compartmentation / FS compliance	Start On or After	123	31-Mar-20	31-Jul-20	31-Mar-20*	31-Jul-20	26-Oct-20	26-Feb-21	209	0%	
EP_SP_66_12-WP-3-M28.05.01.02	AIP Ground Treatment, Reclamation, Seawall, Breakwater, Berth (2.2)		913	31-Mar-20	12-Aug-20	12-Feb-18 A	12-Aug-20	26-Nov-19	20-Jul-21	341		
05-1170	Deep Cement Mixing Design (2.2.00)	Start On or After	136			27-Mar-18 A	10-Aug-18 A				100%	
05-1180	Ground Investigation Proposal (2.2.01.01)	Start On or After	143			12-Feb-18 A	05-Jul-18 A				100%	
05-1190	Preliminary Geotechnical Interpretative Report (2.2.01.02)	Start On or After	120			03-Apr-18 A	31-Jul-18 A				100%	
05-1200	DCM Static Load Test Proposal (2.2.03)	Start On or After	224			03-Apr-18 A	13-Nov-18 A				100%	
05-1280	Draft plan of 2D/3D modelling works for seawall and breakwater design (2.2.05)	Start On or After	728	31-Mar-20	29-Apr-20	03-May-18 A	29-Apr-20	26-Nov-19	26-Dec-19	-126	80%	
05-2930	Reclamation design (2.2.07)	Start On or After	91			03-Aug-18 A	02-Nov-18 A				100%	
05-2940	Seawall design (2.2.08)	Start On or After	323			11-Apr-18 A	28-Feb-19 A				100%	
05-2950	Breakwater design (2.2.09)	Start On or After	293			02-May-18 A	19-Feb-19 A				100%	
05-2960	Berth design (2.2.10)	Start On or After	342			11-Apr-18 A	19-Mar-19 A				70%	
05-2970	Onshore crane Facility (2.2.11)	Start On or After	135	31-Mar-20	12-Aug-20	31-Mar-20*	12-Aug-20	07-Mar-21	20-Jul-21	341	0%	
05-2980	Onshore vessel power supply system (2.2.12)	Start On or After	135	31-Mar-20	12-Aug-20	31-Mar-20*	12-Aug-20	15-Dec-19	28-Apr-20	-107	0%	
EP_SP_66_12-WP-3-M28.05.01.03	AIP Incineration Plant Buildings (2.3)		961	31-Mar-20	25-Dec-20	10-May-18 A	25-Dec-20	30-Aug-18	26-Jul-22	577		
EP_SP_66_12-WP-3-M28.05.01.03.1	Architectural Design (2.3.00)		740	31-Mar-20	12-Aug-20	04-Aug-18 A	12-Aug-20	15-Dec-20	12-Aug-21	364		
05-1210	Process Building	Start On or After	605	31-Mar-20	29-May-20	03-Oct-18 A	29-May-20	15-Dec-20	13-Feb-21	259	65%	
05-1220	ACC Equipment Structure	Start On or After	135	31-Mar-20	12-Aug-20	31-Mar-20*	12-Aug-20	16-Feb-21	01-Jul-21	322	0%	
05-1230	Turbin Hall Building	Start On or After	410			30-Aug-18 A	14-Oct-19 A				100%	
05-1240	Air Compressor Building	Start On or After	433			30-Aug-18 A	06-Nov-19 A				100%	
05-1250	Chimney and viewing platform	Start On or After	135	31-Mar-20	12-Aug-20	31-Mar-20*	12-Aug-20	28-Jan-21	12-Jun-21	303	0%	
05-1260	Elevated Drive Way and Associated Structures	Start On or After	464			04-Aug-18 A	11-Nov-19 A				100%	
05-1270	Reception Pavilion	Start On or After	665	31-Mar-20	29-May-20	04-Aug-18 A	29-May-20	13-Jun-21	12-Aug-21	439	65%	
EP_SP_66_12-WP-3-M28.05.01.03.2	Foundation design (2.3.01)		252	31-Mar-20	31-Mar-20	23-Jul-19 A	31-Mar-20	02-Jul-21	19-Jun-22	810		
05-3030	Process Building (2 Packages)	Start On or After	0	31-Mar-20	31-Mar-20	31-Mar-20*	31-Mar-20	02-Jul-21	02-Jul-21	458	0%	
05-3040	ACC Equipment Structure	Start On or After	0	31-Mar-20	31-Mar-20	31-Mar-20*	31-Mar-20	18-Oct-21	18-Oct-21	566	0%	
05-3050	Turbin Hall Building	Start On or After	59			23-Jul-19 A	20-Sep-19 A				100%	
05-3060	Air Compressor Building	Start On or After	0	31-Mar-20	31-Mar-20	31-Mar-20*	31-Mar-20	27-Jan-22	27-Jan-22	667	0%	
05-3070	Chimney and viewing platform	Start On or After	0	31-Mar-20	31-Mar-20	31-Mar-20*	31-Mar-20	29-Sep-21	29-Sep-21	547	0%	
05-3080	Elevated Drive Way and Associated Structures Foundation Design	Start On or After	77	31-Mar-20	31-Mar-20	14-Jan-20 A	31-Mar-20	06-Feb-22	06-Feb-22	677	45%	
05-3090	Reception Pavilion	Start On or After	0	31-Mar-20	31-Mar-20	31-Mar-20*	31-Mar-20	19-Jun-22	19-Jun-22	810	0%	
EP_SP_66_12-WP-3-M28.05.01.03.3	Structural design (2.3.02)		487	31-Mar-20	31-Mar-20	30-Nov-18 A	31-Mar-20	14-Nov-20	26-Jul-22	847		
05-1290	Process Building	Start On or After	386	31-Mar-20	31-Mar-20	11-Mar-19 A	31-Mar-20	20-Sep-21	20-Sep-21	538	5%	
05-1300	ACC Equipment Structure	Start On or After	0	31-Mar-20	31-Mar-20	31-Mar-20*	31-Mar-20	14-Nov-20	14-Nov-20	228	0%	
05-1310	Turbin Hall Building	Start On or After	154			30-Nov-18 A	03-May-19 A				100%	
05-1320	Air Compressor Building	Start On or After	98			14-Jun-19 A	20-Sep-19 A				100%	
05-1330	Chimney	Start On or After	305	31-Mar-20	31-Mar-20	31-May-19 A	31-Mar-20	26-Jul-22	26-Jul-22	847	5%	
05-1340	Access Ramp associated structures	Start On or After	237			19-Mar-19 A	11-Nov-19 A				100%	
05-1350	Reception Pavilion Structural Design	Start On or After	101			29-Jul-19 A	07-Nov-19 A				100%	
EP_SP_66_12-WP-3-M28.05.01.03.4	Electrical and Instrumentation works design (2.3.03)		456			10-May-18 A	09-Aug-19 A					
05-3150	11kV/380V Power Transformers and 11kV Earthing Transformer	Start On or After	315			06-Sep-18 A	18-Jul-19 A				100%	
05-3160	E&IC Package 1 (Process Island)	Start On or After	391			10-May-18 A	05-Jun-19 A				100%	
05-3170	E&IC Package 2 (Power Island)	Start On or After	288			25-Oct-18 A	09-Aug-19 A				100%	
05-3175(3)(M12)	E&IC Package 3 (Balance of Plant)	Start On or After	288			25-Oct-18 A	09-Aug-19 A				100%	
EP_SP_66_12-WP-3-M28.05.01.03.8	Operation Management System (2.3.03.04)		721	31-Mar-20	29-Apr-20	10-May-18 A	29-Apr-20	28-Apr-20	10-Sep-20	133		
05-3180	Supervisory Control/Data Acquisition/Distributed Control (SCADA/DCS) System	Start On or After	721	31-Mar-20	29-Apr-20	10-May-18 A	29-Apr-20	28-Apr-20	28-May-20	28	65%	
05-3210	Automatic License Plate and Container Recognition System (ALPCRS)	Start On or After	603	31-Mar-20	29-Apr-20	05-Sep-18 A	29-Apr-20	11-Aug-20	10-Sep-20	133	65%	
EP_SP_66_12-WP-3-M28.05.01.03.5	Mechanical works design (2.3.04)		433			17-May-18 A	24-Jul-19 A					
EP_SP_66_12-WP-3-M28.05.01.03.5.1	Plant and Equipment		419			31-May-18 A	24-Jul-19 A					
05-2800	Weighbridge Systems	Start On or After	152			05-Sep-18 A	04-Feb-19 A				100%	
05-2810	Waste Crane and Grapple System	Start On or After	221			05-Jul-18 A	11-Feb-19 A				100%	
05-2820	Mechanical Shredder	Start On or After	243			23-Nov-18 A	24-Jul-19 A				100%	
05-2830	Incineration System	Start On or After	165			31-May-18 A	12-Nov-18 A				100%	
05-2840	Heat Recovery Boiler	Start On or After	145			08-Jun-18 A	31-Oct-18 A				100%	
05-2850	Boiler Feed Water Systems	Start On or After	68			05-Sep-18 A	12-Nov-18 A				100%	
05-2860	Ash cranes	Start On or After	136			24-Dec-18 A	09-May-19 A				100%	
05-2870	Leachate collection and treatment	Start On or After	73			15-Dec-18 A	26-Feb-19 A				100%	
05-2880	Flue Gas Treatment System	Start On or After	184			11-Jun-18 A	12-Dec-18 A				100%	
05-2890	Boiler ash and APC residue handling and solidification	Start On or After	100			24-Dec-18 A	03-Apr-19 A				100%	
05-2900	Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS)	Start On or After	325			03-Aug-18 A	24-Jun-19 A				100%	
05-2910	Air cooled condenser	Start On or After	325			03-Aug-18 A	24-Jun-19 A				100%	
05-2915(3)	Closed Circuit Cooling Water System	Start On or After	321			31-Jul-18 A	17-Jun-19 A				100%	
05-2920	Compressed Air Plants	Start On or After	232			04-Jul-18 A	21-Feb-19 A				100%	
EP_SP_66_12-WP-3-M28.05.01.03.5.2	Process Pipeworks (Incl. Ductworks) and Valves		404			24-May-18 A	02-Jul-19 A					
05-1360	Process Island (furnace-boiler-FGC)	Start On or After	224			24-May-18 A	03-Jan-19 A				100%	

Programme for Design and Construction Works  
 March 2020 Update (Rev WP-3-M28)

Primary Baseline	Critical Remaining Work	Actual Milestone
WP3 BL Critical Works	Baseline Milestone	Critical Milestone
Remaining Work	WP3 BL Critical Milestone	
Actual Work	Milestone	

Date	Revision	Checked	Approved
04/12/17	Rev. 0 - 1st Issue		
31-Jan-20	Rev 3 - Jan 2020 Update		
29			

Activity ID	Activity Name	Primary Constraint	At Completion Duration	Current Start	Current Finish	Actual Start	Actual Finish	Latest Start	Latest Finish	Total Float	Activity % Complete	M28 Remarks
05-1370	Pipebridge (Between Process Island & Turbine Hall)	Start On or After	404			24-May-18 A	02-Jul-19 A				100%	
05-1380	Compressed Air Plant area	Start On or After	273			02-Oct-18 A	02-Jul-19 A				100%	
05-1390	Pipebridge (Between CCGW Area & Turbine Hall)	Start On or After	119			02-Oct-18 A	29-Jan-19 A				100%	
05-1400	Pipebridge (Between Turbine Hall & ACC Yard)	Start On or After	119			02-Oct-18 A	29-Jan-19 A				100%	
05-1410	Turbine Hall	Start On or After	273			02-Oct-18 A	02-Jul-19 A				100%	
05-1420	ACC Yard	Start On or After	273			02-Oct-18 A	02-Jul-19 A				100%	
05-1540	CCGW Area	Start On or After	273			02-Oct-18 A	02-Jul-19 A				100%	
EP_SP_66_12-WP-3-M28.05.01.03.5.3	Process steel structure support (For equipment, piping & duct, cable tray etc)		257			17-May-18 A	29-Jan-19 A					
05-3100	Process island (furnace-boiler-FGC)	Start On or After	246			17-May-18 A	18-Jan-19 A				100%	
05-3110	Pipebridge (Between Process Island & Turbine Hall)	Start On or After	112			09-Oct-18 A	29-Jan-19 A				100%	
05-3120	Turbine Hall	Start On or After	112			09-Oct-18 A	29-Jan-19 A				100%	
05-3130	Pipebridge (Between CCGW Area & Turbine Hall)	Start On or After	112			09-Oct-18 A	29-Jan-19 A				100%	
05-3140	Pipebridge (Between Turbine Hall & ACC Yard)	Start On or After	112			09-Oct-18 A	29-Jan-19 A				100%	
EP_SP_66_12-WP-3-M28.05.01.03.5.4	Equipment and piping insulation		391			15-Jun-18 A	11-Jul-19 A					
05-1430	Incineration System	Start On or After	150			15-Jun-18 A	12-Nov-18 A				100%	
05-1440	Heat Recovery Boiler	Start On or After	138			15-Jun-18 A	31-Oct-18 A				100%	
05-1450	Boiler Feed Water Systems	Start On or After	150			15-Jun-18 A	12-Nov-18 A				100%	
05-1460	Flue Gas Treatment System	Start On or After	180			15-Jun-18 A	12-Dec-18 A				100%	
05-1470	Boiler ash and APC residue handling and solidification	Start On or After	292			15-Jun-18 A	03-Apr-19 A				100%	
05-1480	Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS)	Start On or After	181			11-Jan-19 A	11-Jul-19 A				100%	
05-1490	Air cooled condenser	Start On or After	251			02-Nov-18 A	11-Jul-19 A				100%	
05-1500	Closed Circuit Cooling Water System	Start On or After	321			31-Jul-18 A	17-Jun-19 A				100%	
EP_SP_66_12-WP-3-M28.05.01.03.6	Fire services installation design (2.3.05)		729	31-Mar-20	25-Dec-20	28-Dec-18 A	25-Dec-20	30-Aug-18	10-Jun-20	-198		
EP_SP_66_12-WP-3-M28.05.01.03.6.1	Process Building (2.3.05.01)		626	31-Mar-20	26-Sep-20	10-Jan-19 A	26-Sep-20	10-Apr-19	07-Oct-19	-355		
05-1510	Fire Systems	Finish On or Before	569	01-Aug-20	01-Aug-20	10-Jan-19 A	01-Aug-20*	07-Oct-19	07-Oct-19	-298	5%	
05-1520	Fire engineering	Finish On or Before	180	31-Mar-20	26-Sep-20	31-Mar-20	26-Sep-20*	10-Apr-19	06-Oct-19	-356	0%	
05-1530	FS schematics	Finish On or Before	453	31-Mar-20	06-Apr-20	10-Jan-19 A	06-Apr-20*	01-Oct-19	07-Oct-19	-182	5%	
EP_SP_66_12-WP-3-M28.05.01.03.6.3	Turbin Hall Building (2.3.05.03)		729	31-Mar-20	25-Dec-20	28-Dec-18 A	25-Dec-20	17-Apr-19	11-Jan-20	-349		
05-5400	Fire Systems (2.3.05.03.01)	Finish On or Before	564	31-Mar-20	13-Jul-20	28-Dec-18 A	13-Jul-20*	22-Jun-19	04-Oct-19	-283	25%	
05-5410 (M22)	Fire engineering	Finish On or Before	270	31-Mar-20	25-Dec-20	31-Mar-20	25-Dec-20*	17-Apr-19	11-Jan-20	-349	0%	
05-5420 (M22)	FS schematics (2.3.05.03.03)	Finish On or Before	564	31-Mar-20	13-Jul-20	28-Dec-18 A	13-Jul-20*	22-Jun-19	04-Oct-19	-283	25%	
EP_SP_66_12-WP-3-M28.05.01.03.6.4	Air Compressor Building (2.3.05.04)		270	31-Mar-20	25-Dec-20	31-Mar-20	25-Dec-20	30-Aug-18	26-May-19	-579		
05-5430 (M22)	Fire Systems	Finish On or Before	270	31-Mar-20	25-Dec-20	31-Mar-20	25-Dec-20*	30-Aug-18	26-May-19	-579	0%	
05-5440 (M22)	FS schematics	Finish On or Before	270	31-Mar-20	25-Dec-20	31-Mar-20	25-Dec-20*	30-Aug-18	26-May-19	-579	0%	
EP_SP_66_12-WP-3-M28.05.01.03.6.5	Elevated Drive Way and Associated Structures (2.3.05.05)		255	31-Mar-20	26-Aug-20	16-Dec-19 A	26-Aug-20	29-Oct-19	25-Mar-20	-154		
05-5445 (M22)	Fire Systems	Finish On or Before	255	31-Mar-20	26-Aug-20	16-Dec-19 A	26-Aug-20*	29-Oct-19	25-Mar-20	-154	5%	
05-5450 (M22)	FS schematics	Finish On or Before	255	31-Mar-20	26-Aug-20	16-Dec-19 A	26-Aug-20*	29-Oct-19	25-Mar-20	-154	5%	
EP_SP_66_12-WP-3-M28.05.01.03.6.6	Reception Pavilion (2.3.05.06)		357	31-Mar-20	24-Sep-20	04-Oct-19 A	24-Sep-20	16-Dec-19	10-Jun-20	-106		
05-5460 (M22)	Fire Systems (2.3.05.06.01)	Finish On or Before	356	31-Mar-20	23-Sep-20	04-Oct-19 A	23-Sep-20*	17-Dec-19	10-Jun-20	-105	5%	
05-5470 (M22)	FS schematics (2.3.05.06.03)	Finish On or Before	357	31-Mar-20	24-Sep-20	04-Oct-19 A	24-Sep-20*	16-Dec-19	10-Jun-20	-106	5%	
EP_SP_66_12-WP-3-M28.05.01.03.6.7	Compressor & Closed Circuit (2.3.05.07)		307	31-Mar-20	13-Jul-20	11-Sep-19 A	13-Jul-20	13-Oct-19	25-Jan-20	-170		
05-5480 (M22)	Fire Systems (2.3.05.07.01)	Finish On or Before	307	31-Mar-20	13-Jul-20	11-Sep-19 A	13-Jul-20*	13-Oct-19	25-Jan-20	-170	45%	
05-5490 (M22)	FS schematics (2.3.05.07.03)	Finish On or Before	307	31-Mar-20	13-Jul-20	11-Sep-19 A	13-Jul-20*	13-Oct-19	25-Jan-20	-170	45%	
EP_SP_66_12-WP-3-M28.05.01.03.7	Building services design (excluding fire services installation design) (2.3.05)		764	31-Mar-20	12-Aug-20	11-Jul-18 A	12-Aug-20	19-May-20	29-Apr-21	259		
05-1550	Electrical Services and Lighting (7 Packages)	Start On or After	574	31-Mar-20	09-Aug-20	10-Jan-19 A	09-Aug-20	23-Jul-20	02-Dec-20	115	12.5%	
05-1560	MVAC (6 Packages)	Start On or After	476	31-Mar-20	29-Apr-20	10-Jan-19 A	29-Apr-20	12-Oct-20	11-Nov-20	195	5%	
05-1570	Odour Control	Start On or After	719	31-Mar-20	28-Jun-20	11-Jul-18 A	28-Jun-20	13-Aug-20	11-Nov-20	135	5%	
05-1580	Plumbing (7 Packages)	Start On or After	441	31-Mar-20	31-Mar-20	15-Jan-19 A	31-Mar-20	16-Nov-20	16-Nov-20	230	5%	
05-1590	Drainage (7 Packages)	Start On or After	531	31-Mar-20	28-Jun-20	15-Jan-19 A	28-Jun-20	18-Aug-20	16-Nov-20	140	5%	
05-1600	ELV (7 Packages)	Start On or After	536	31-Mar-20	28-Jun-20	10-Jan-19 A	28-Jun-20	17-Nov-20	15-Feb-21	231	5%	
05-1610	Lifts and Escalators (2 Packages)	Start On or After	227	31-Mar-20	12-Aug-20	30-Dec-19 A	12-Aug-20	04-Jun-20	17-Oct-20	65	5%	
05-1630	Building Management System (BMS) (7 Packages)	Start On or After	135	31-Mar-20	12-Aug-20	31-Mar-20*	12-Aug-20	19-May-20	30-Sep-20	49	0%	
05-1770	Vehicle & Container Wash System	Start On or After	135	31-Mar-20	12-Aug-20	31-Mar-20*	12-Aug-20	01-Oct-20	13-Feb-21	184	0%	
05-1770-1(M20)	Water Cannon System	Start On or After	294	31-Mar-20	31-Mar-20	11-Jun-19 A	31-Mar-20	29-Apr-21	29-Apr-21	394	5%	
EP_SP_66_12-WP-3-M28.05.01.04	AIP Mechanical Treatment Plant Building (2.4)		706	31-Mar-20	12-Aug-20	07-Sep-18 A	12-Aug-20	19-Nov-19	25-Oct-21	438		
05-1640	Architectural Design (2.4.00)		631	31-Mar-20	29-May-20	07-Sep-18 A	29-May-20	22-Nov-20	21-Jan-21	236	65%	
05-1650	Foundation design (2.4.01)	Start On or After	268	31-Mar-20	31-Mar-20	07-Jul-19 A	31-Mar-20	25-Oct-21	25-Oct-21	573	65%	
05-1660	Structural design (2.4.02)	Start On or After	206	31-Mar-20	16-Sep-20	21-May-19 A	13-Dec-19 A				100%	
05-1670	Electrical and instrumentation works design (2.4.03)	Start On or After	105	31-Mar-20	13-Jul-20	31-Mar-20*	13-Jul-20	14-Jul-20	27-Oct-20	105	0%	
05-1680	Mechanical works design (2.4.04)	Start On or After	105	31-Mar-20	13-Jul-20	31-Mar-20*	13-Jul-20	19-Nov-19	03-Mar-20	-133	0%	
05-1690	Fire services installation design (2.4.05) (3 Packages)	Start On or After	472	31-Mar-20	04-Jul-20	20-Mar-19 A	04-Jul-20	31-Jan-21	06-May-21	306	9.5%	
EP_SP_66_12-WP-3-M28.05.01.04.7	Building services design (excluding fire services installation design) (2.4.06)		512	31-Mar-20	12-Aug-20	20-Mar-19 A	12-Aug-20	15-Apr-20	15-May-21	275		
05-1700	Electrical Services and Lighting (2.4.06.01)	Start On or After	377	31-Mar-20	31-Mar-20	20-Mar-19 A	31-Mar-20	02-Dec-20	02-Dec-20	246	5%	
05-1710	MVAC	Start On or After	507	31-Mar-20	12-Aug-20	25-Mar-19 A	12-Aug-20	15-Apr-20	28-Aug-20	15	5%	
05-1720	Odour Control	Start On or After	135	31-Mar-20	12-Aug-20	31-Mar-20*	12-Aug-20	15-Apr-20	28-Aug-20	15	0%	
05-1730	Plumbing	Start On or After	512	31-Mar-20	12-Aug-20	20-Mar-19 A	12-Aug-20	04-Jul-20	16-Nov-20	95	5%	
05-1740	Drainage	Start On or After	512	31-Mar-20	12-Aug-20	20-Mar-19 A	12-Aug-20	04-Jul-20	16-Nov-20	95	5%	
05-1750	ELV	Start On or After	512	31-Mar-20	12-Aug-20	20-Mar-19 A	12-Aug-20	20-Jul-20	02-Dec-20	111	5%	
05-1760	Lifts and Escalators	Start On or After	227	31-Mar-20	12-Aug-20	30-Dec-19 A	12-Aug-20	31-Dec-20	15-May-21	275	5%	
05-1760-1(M20)	Building Management System (BMS)	Start On or After	89	31-Mar-20	27-Jun-20	31-Mar-20*	27-Jun-20	04-Jul-20	30-Sep-20	95	0%	
EP_SP_66_12-WP-3-M28.05.01.05	AIP Wastewater Treatment Plant (2.5)		715	31-Mar-20	16-Sep-20	03-Oct-18 A	16-Sep-20	15-Apr-20	04-Jul-21	230		
05-1780	Architectural Design (2.5.00)	Start On or After	605	31-Mar-20	29-May-20	03-Oct-18 A	29-May-20	26-Dec-20	24-Feb-21	270	65%	
05-1790	Foundation design (2.5.01)	Start On or After	0	31-Mar-20	31-Mar-20	31-Mar-20*	31-Mar-20	04-Jul-21	04-Jul-21	460	0%	
05-1800	Structural design (2.5.02)	Start On or After	556	31-Mar-20	16-Sep-20	11-Mar-19 A	16-Sep-20	30-May-20	16-Nov-20	60	45%	
05-1810	Electrical and instrumentation works design (2.5.03)	Start On or After	289	31-Mar-20	16-Sep-20	24-Oct-18 A	09-Aug-19 A				100%	
05-1820	Mechanical works design (2.5.04)	Start On or After	282	31-Mar-20	16-Sep-20	03-Oct-18 A	12-Jul-19 A				100%	
05-2790	Fire services installation design (2.5.05)	Start On or After	530	31-Mar-20	28-Jun-20	16-Jan-19 A	28-Jun-20	05-Feb-21	06-May-21	311	5%	
EP_SP_66_12-WP-3-M28.05.01.05.7	Building services design (excluding fire services installation design) (2.5.06)		575	31-Mar-20	12-Aug-20	16-Jan-19 A	12-Aug-20	15-Apr-20	02-Dec-20	111		
05-1830	Electrical Services and Lighting for Wastewater Treatment Plant Building (2.5.06.01)	Start On or After	470	31-Mar-20	29-Apr-20	16-Jan-19 A	29-Apr-20	02-Nov-20	02-Dec-20	216	25%	
05-1840	MVAC (2.5.06.02)	Start On or After	560	31-Mar-20	28-Jul-20	16-Jan-19 A	28-Jul-20	30-Apr-20	28-Aug-20	30	25%	
05-1850	Odour Control (2.5.06.03)	Start On or After	135	31-Mar-20	12-Aug-20	31-Mar-20*	12-Aug-20	15-Apr-20	28-Aug-20	15	0%	
05-1860	Plumbing (2.5.06.04)	Start On or After	560	31-Mar-20	28-Jul-20	16-Jan-19 A	28-Jul-20	19-Jul-20	16-Nov-20	110	25%	
05-1870	Drainage (2.5.06.05)	Start On or After	560	31-Mar-20	28-Jul-20	16-Jan-19 A	28-Jul-20	19-Jul-20	16-Nov-20	110	25%	
05-1880	ELV (2.5.06.06)	Start On or After	560	31-Mar-20	28-Jul-20	16-Jan-19 A	28-Jul-20	04-Aug-20	02-Dec-20	126	25%	
EP_SP_66_12-WP-3-M28.05.01.06	AIP Desalination Plant Building (2.6)		706									











Activity ID	Activity Name	Primary Constraint	At Completion Duration	Current Start	Current Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total Float	Activity % Complete	M28 Remarks	Gantt Chart (2017-2026)																																															
06-1110	Material & Equipment Procurement		250	27-Sep-20	03-Jun-21	27-Sep-20	03-Jun-21	14-Sep-20	22-May-21	-13	0%		[Gantt Chart Data]																																															
06-1120	Off-site Fabrication of ACC Units		500	04-Jun-21	16-Oct-22	04-Jun-21	16-Oct-22	22-May-21	04-Oct-22	-13	0%		[Gantt Chart Data]																																															
06-1130	Factory Acceptance Test (FAT)		60	17-Oct-22	15-Dec-22	17-Oct-22	15-Dec-22	04-Oct-22	03-Dec-22	-13	0%		[Gantt Chart Data]																																															
06-1140	Delivery to Site		60	16-Dec-22	13-Feb-23	16-Dec-22	13-Feb-23	03-Dec-22	01-Feb-23	-13	0%		[Gantt Chart Data]																																															
<b>EP_SP_66_12-WP-3-M28.06.4 Procurement for MT Plant Equipment</b>													[Gantt Chart Data]																																															
06-1150-1(1)	Mechanical Equipment Material Submission and Approval		180	10-Apr-21	06-Oct-21	10-Apr-21	06-Oct-21	28-Nov-20	27-May-21	-133	0%		[Gantt Chart Data]																																															
06-1150-2(1)	Pipe Material Submission and Approval		180	10-Apr-21	06-Oct-21	10-Apr-21	06-Oct-21	25-Aug-21	21-Feb-22	137	0%		[Gantt Chart Data]																																															
06-1150-3(1)	Electrical and Instrumentation Material Submission and Approval		180	12-May-21	07-Nov-21	12-May-21	07-Nov-21	25-Aug-21	21-Feb-22	105	0%		[Gantt Chart Data]																																															
06-1160-1(1)	Mechanical Equipment Procurement (Incl. FAT)		720	07-Oct-21	26-Sep-23	07-Oct-21	26-Sep-23	27-May-21	17-May-23	-133	0%		[Gantt Chart Data]																																															
06-1160-2(1)	Pipe Material Procurement (Incl. FAT)		450	07-Oct-21	30-Dec-22	07-Oct-21	30-Dec-22	21-Feb-22	17-May-23	137	0%		[Gantt Chart Data]																																															
06-1160-3(1)	Electrical and Instrumentation Material Procurement (Incl. FAT)		450	08-Nov-21	31-Jan-23	08-Nov-21	31-Jan-23	21-Feb-22	17-May-23	105	0%		[Gantt Chart Data]																																															
06-1180	Delivery to Site		60	27-Sep-23	25-Nov-23	27-Sep-23	25-Nov-23	17-May-23	16-Jul-23	-133	0%		[Gantt Chart Data]																																															
<b>EP_SP_66_12-WP-3-M28.06.5 Procurement for WWTP Equipment</b>													[Gantt Chart Data]																																															
06-1190-1(1)	Mechanical Equipment Material Submission and Approval		180	10-Aug-20	05-Feb-21	10-Aug-20	05-Feb-21	18-Mar-21	14-Sep-21	220	0%		[Gantt Chart Data]																																															
06-1190-2(1)	Pipe Material Submission and Approval		180	14-Dec-20	11-Jun-21	14-Dec-20	11-Jun-21	06-Jul-21	02-Jan-22	204	0%		[Gantt Chart Data]																																															
06-1190-3(1)	Electrical and Instrumentation Material Submission and Approval		180	31-Dec-20	28-Jun-21	31-Dec-20	28-Jun-21	06-Jul-21	02-Jan-22	187	0%		[Gantt Chart Data]																																															
06-1200-1(1)	Mechanical Equipment Procurement (Incl. FAT)		650	14-Dec-20	24-Sep-22	14-Dec-20	24-Sep-22	16-Jun-21	28-Mar-23	184	0%		[Gantt Chart Data]																																															
06-1200-2(1)	Pipe Material Procurement (Incl. FAT)		450	12-Jun-21	04-Sep-22	12-Jun-21	04-Sep-22	02-Jan-22	28-Mar-23	204	0%		[Gantt Chart Data]																																															
06-1200-3(1)	Electrical and Instrumentation Material Procurement (Incl. FAT)		450	29-Jun-21	21-Sep-22	29-Jun-21	21-Sep-22	02-Jan-22	28-Mar-23	187	0%		[Gantt Chart Data]																																															
06-1220	Delivery to Site		60	23-May-23	21-Jul-23	23-May-23	21-Jul-23	28-Mar-23	27-May-23	-56	0%		[Gantt Chart Data]																																															
<b>EP_SP_66_12-WP-3-M28.06.6 Procurement for Desal &amp; Demin Plant Equipment</b>													[Gantt Chart Data]																																															
06-1230-1(1)	Mechanical Equipment Material Submission and Approval		180	26-Aug-20	21-Feb-21	26-Aug-20	21-Feb-21	08-Dec-20	06-Jun-21	104	0%		[Gantt Chart Data]																																															
06-1230-2(1)	Pipe Material Submission and Approval		180	26-Aug-20	21-Feb-21	26-Aug-20	21-Feb-21	06-Jul-21	02-Jan-22	314	0%		[Gantt Chart Data]																																															
06-1230-3(1)	Electrical and Instrumentation Material Submission and Approval		180	09-Dec-20	06-Jun-21	09-Dec-20	06-Jun-21	06-Jul-21	02-Jan-22	209	0%		[Gantt Chart Data]																																															
06-1240-1(1)	Mechanical Equipment Procurement (Incl. FAT)		720	24-Dec-20	13-Dec-22	24-Dec-20	13-Dec-22	07-Apr-21	28-Mar-23	104	0%		[Gantt Chart Data]																																															
06-1240-2(1)	Pipe Material Procurement (Incl. FAT)		450	22-Feb-21	17-May-22	22-Feb-21	17-May-22	02-Jan-22	28-Mar-23	314	0%		[Gantt Chart Data]																																															
06-1240-3(1)	Electrical and Instrumentation Material Procurement (Incl. FAT)		450	07-Jun-21	30-Aug-22	07-Jun-21	30-Aug-22	02-Jan-22	28-Mar-23	209	0%		[Gantt Chart Data]																																															
06-1260	Delivery to Site		60	20-Jun-23	18-Aug-23	20-Jun-23	18-Aug-23	28-Mar-23	27-May-23	-84	0%		[Gantt Chart Data]																																															
<b>EP_SP_66_12-WP-3-M28.06.7 Procurement for HV Transformers and Associated Equipment</b>													[Gantt Chart Data]																																															
<b>EP_SP_66_12-WP-3-M28.06.7.1 Procurement of Transformers &amp; EDG</b>													[Gantt Chart Data]																																															
06-1270(1)	Submission and Approval of Transformers Supplier		90	31-Mar-20	28-Jun-20	31-Mar-20	28-Jun-20	07-Jul-20	05-Oct-20	98	0%		[Gantt Chart Data]																																															
06-1280(1)	Procurement of Transformers		550	20-Jan-21	23-Jul-22	20-Jan-21	23-Jul-22	05-Oct-20	08-Apr-22	-107	0%		[Gantt Chart Data]																																															
06-1290(1)	Factory Acceptance Test (FAT)		120	24-Jun-22	21-Oct-22	24-Jun-22	21-Oct-22	09-Mar-22	07-Jul-22	-107	0%		[Gantt Chart Data]																																															
06-1300	Delivery to Site		60	22-Oct-22	20-Dec-22	22-Oct-22	20-Dec-22	07-Jul-22	05-Sep-22	-107	0%		[Gantt Chart Data]																																															
<b>EP_SP_66_12-WP-3-M28.06.7.2 Procurement of Switchboard/Panels and Cables</b>													[Gantt Chart Data]																																															
06-2090(1)	Material Submission and Approval		603	11-Mar-21	03-Nov-22	11-Mar-21	03-Nov-22	09-Feb-21	05-Oct-22	-30	0%		[Gantt Chart Data]																																															
06-2100(1)	Material & Equipment Procurement		393	09-Jun-21	06-Jul-22	09-Jun-21	06-Jul-22	10-May-21	07-Jun-22	-30	0%		[Gantt Chart Data]																																															
06-2110(1)	Factory Acceptance Test (FAT)		60	07-Jul-22	04-Sep-22	07-Jul-22	04-Sep-22	07-Jun-22	06-Aug-22	-30	0%		[Gantt Chart Data]																																															
06-2120(1)	Delivery to Site		60	05-Sep-22	03-Nov-22	05-Sep-22	03-Nov-22	06-Aug-22	05-Oct-22	-30	0%		[Gantt Chart Data]																																															
<b>EP_SP_66_12-WP-3-M28.06.8 Procurement for Control SCADA Systems</b>													[Gantt Chart Data]																																															
06-1310	Material Submission and Approval	As Late As Possible	180	26-Sep-21	23-Mar-24	26-Sep-21	23-Mar-24	07-Jul-21	03-Jan-24	-81	0%		[Gantt Chart Data]																																															
06-1320	Material & Equipment Procurement	As Late As Possible	700	25-Nov-21	25-Oct-23	25-Nov-21	25-Oct-23	05-Sep-21	06-Aug-23	-81	0%		[Gantt Chart Data]																																															
06-1330	Factory Acceptance Test (FAT)	As Late As Possible	120	26-Sep-23	23-Jan-24	26-Sep-23	23-Jan-24	07-Jul-23	04-Nov-23	-81	0%		[Gantt Chart Data]																																															
06-1340	Delivery to Site	As Late As Possible	60	24-Jan-24	23-Mar-24	24-Jan-24	23-Mar-24	04-Nov-23	03-Jan-24	-81	0%		[Gantt Chart Data]																																															
<b>EP_SP_66_12-WP-3-M28.06.9 Procurement for Onshore Crane at Berth</b>													[Gantt Chart Data]																																															
06-1350	Supplier Submission and Approval		720	13-Aug-20	02-Aug-22	13-Aug-20	02-Aug-22	20-Jul-21	10-Jul-23	341	0%		[Gantt Chart Data]																																															
06-1360	Material & Equipment Procurement		450	11-Dec-20	05-Mar-22	11-Dec-20	05-Mar-22	17-Nov-21	10-Feb-23	341	0%		[Gantt Chart Data]																																															
06-1370	Factory Acceptance Test (FAT)		90	06-Mar-22	03-Jun-22	06-Mar-22	03-Jun-22	10-Feb-23	11-May-23	341	0%		[Gantt Chart Data]																																															
06-1380	Delivery to Site		60	04-Jun-22	02-Aug-22	04-Jun-22	02-Aug-22	11-May-23	10-Jul-23	341	0%		[Gantt Chart Data]																																															
<b>EP_SP_66_12-WP-3-M28.06.10 Procurement and Off-site Fabrication of Pipe Bridges (Incl. Pipings)</b>													[Gantt Chart Data]																																															
06-1390(1)	Material Submission and Approval	As Late As Possible	90	26-Jun-21	16-May-23	26-Jun-21	16-May-23	15-Apr-21	06-Mar-23	-72	0%		[Gantt Chart Data]																																															
06-1400	Material & Equipment Procurement	As Late As Possible	450	24-Sep-21	17-Dec-22	24-Sep-21	17-Dec-22	14-Jul-21	07-Oct-22	-72	0%		[Gantt Chart Data]																																															
06-1410	Factory Acceptance Test (FAT)	As Late As Possible	90	18-Dec-22	17-Mar-23	18-Dec-22	17-Mar-23	07-Oct-22	05-Jan-23	-72	0%		[Gantt Chart Data]																																															
06-1420	Delivery to Site	As Late As Possible	60	18-Mar-23	16-May-23	18-Mar-23	16-May-23	05-Jan-23	06-Mar-23	-72	0%		[Gantt Chart Data]																																															
<b>EP_SP_66_12-WP-3-M28.06.11 Procurement for LV Electrical System for On-site Installation</b>													[Gantt Chart Data]																																															
06-1430(1)	Material Submission and Approval	As Late As Possible	120	12-May-21	08-Sep-21	12-May-21	08-Sep-21	14-Sep-21	27-May-22	-19	0%		[Gantt Chart Data]																																															
06-1440	Material & Equipment Procurement	As Late As Possible	350	31-Jan-22	15-Jan-23	31-Jan-22	15-Jan-23	12-Jan-22	28-Dec-22	-19	0%		[Gantt Chart Data]																																															
06-1450	Factory Acceptance Test (FAT)	As Late As Possible	90	16-Jan-23	15-Apr-23	16-Jan-23	15-Apr-23	28-Dec-22	28-Mar-23	-19	0%		[Gantt Chart Data]																																															
06-1460	Delivery to Site	As Late As Possible	60	16-Apr-23	14-Jun-23	16-Apr-23	14-Jun-23	28-Mar-23	27-May-23	-19	0%		[Gantt Chart Data]																																															
<b>EP_SP_66_12-WP-3-M28.06.12 Procurement for Ventilation and Odor Treatment System</b>													[Gantt Chart Data]																																															
06-1470(1)	Material Submission and Approval	As Late As Possible	120	11-Mar-21	08-Jul-21	11-Mar-21	08-Jul-21	26-Mar-21	24-Jul-21	15	0%		[Gantt Chart Data]																																															
06-1480	Material & Equipment Procurement	As Late As Possible	450	09-Jul-21	01-Oct-22	09-Jul-21	01-Oct-22	24-Jul-21	17-Oct-22	54	0%		[Gantt Chart Data]																																															
06-1490	Factory Acceptance Test (FAT)	As Late As Possible	90	02-Oct-22	30-Dec-22	02-Oct-22	30-Dec-22	17-Oct-22	15-Jan-23	54	0%		[Gantt Chart Data]																																															
06-1500	Delivery to Site	As Late As Possible	60	31-Dec-22	28-Feb-23	31-Dec-22	28-Feb-23	15-Jan-23	16-Mar-23	54	0%		[Gantt Chart Data]																																															
<b>EP_SP_66_12-WP-3-M28.06.13 Procurement for Fire Services System</b>													[Gantt Chart Data]																																															
06-1510	Material Submission and Approval	As Late As Possible	120	21-Dec-21	10-Dec-23	21-Dec-21	10-Dec-23	19-Aug-21	09-Aug-23	-124	0%		[Gantt Chart Data]																																															
06-1520	Material & Equipment Procurement	As Late As Possible	450	20-Apr-22	13-Jul-23	20-Apr-22	13-Jul-23	17-Dec-21	12-Mar-23	-124	0%		[Gantt Chart Data]																																															
06-1530	Factory Acceptance Test (FAT)	As Late As Possible	90	14-Jul-23	11-Oct-23	14-Jul-23	11-Oct-23	12-Mar-23	10-Jun-23	-124	0%		[Gantt Chart Data]																																															
06-1540	Delivery to Site	As Late As Possible	60	12-Oct-23	10-Dec-23	12-Oct-23	10-Dec-23	10-Jun-23	09-Aug-23	-124	0%		[Gantt Chart Data]																																															
<b>EP_SP_66_12-WP-3-M28.06.14 Procurement for Plumbing System</b>													[Gantt Chart Data]																																															
06-1550	Material Submission and Approval	As Late As Possible	120	11-Mar-21	28-Feb-23	11-Mar-21	28-Feb-23	14-Jun-21	04-Jun-23	95	0%		[Gantt Chart Data]																																															
06-1560	Material & Equipment Procurement	As Late As Possible	450	09-Jul-21	01-Oct-22	09-Jul-21	01-Oct-22	12-Oct-21	05-Jan-23	160	0%		[Gantt Chart Data]																																															
06-1570	Factory Acceptance Test (FAT)	As Late As Possible	90	02-Oct-22	30-Dec-22	02-Oct-22	30-Dec-22	05-Jan-23	05-Apr-23	160	0%		[Gantt Chart Data]																																															
06-1580	Delivery to Site	As Late As Possible	60	31-Dec-22	28-Feb-23	31-Dec-22	28-Feb-23	05-Apr-23	04-Jun-23	160	0%		[Gantt Chart Data]																																															
<b>EP_SP_66_12-WP-3-M28.06.15 Procurement for Drainage System</b>													[Gantt Chart Data]																																															
06-1590	Material Submission and Approval	As Late As Possible	120	11-Mar-21	28-Feb-23	11-Mar-21	28-Feb-23	14-Jun-21	04-Jun-23	95	0%		[Gantt Chart Data]																																															
06-1600	Material & Equipment Procurement	As Late As Possible	450	09-Jul-21	01-Oct-22	09-Jul-21	01-Oct-22	12-Oct-21	05-Jan-23	160	0%		[Gantt Chart Data]																																															
06-1610	Factory Acceptance Test (FAT)	As Late As Possible	90	02-Oct-22	30-Dec-22	02-Oct-22	30-Dec-22	05-Jan-23	05-Apr-23	160	0%		[Gantt Chart Data]																																															
06-1620	Delivery to Site	As Late As Possible	60	31-Dec-22	28-Feb-23	31-Dec-22	28-Feb-23	05-Apr-23	04-Jun-23	160	0%		[Gantt Chart Data]																																															
<b>EP_SP_66_12-WP-3-M28.06.16 Procurement for Lighting System</b>													[Gantt Chart Data]																																															
06-1630	Material Submission and Approval	As Late As Possible	120	01-Nov-21	10-Dec-23	01-Nov-21	10-Dec-23	30-Jun-21	09-Aug-23	-124	0%		[Gantt Chart Data]																																															
06-1640	Material & Equipment Procurement	As Late As Possible	500	01-Mar-22	13-Jul-23	01-Mar-22	13-Jul-23	28-Oct-21	12-Mar-23	-124	0%		[Gantt Chart Data]																																															
06-1650	Factory Acceptance Test (FAT)	As Late As Possible	90	14-Jul-23	11-Oct-23	14-Jul-23	11-Oct-23	12-Mar-23	10-Jun-23	-124	0%		[Gantt Chart Data]																																															
06-1660	Delivery to Site	As Late As Possible	60	12-Oct-23	10-Dec-23	12-Oct-23	10-Dec-23	10-Jun-23	09-Aug-23	-124	0%		[Gantt Chart Data]																																															
<b>EP_SP_66_12-WP-3-M28.06.17 Procurement for Security, Surveillance &amp; Communication System</b>													[Gantt Chart Data]																																															
06-1670	Material Submission and Approval	As Late As Possible	120	16-Nov-21	15-Mar-22	16-Nov-21	15-Mar-22	11-Dec-21	10-Apr-22	25	0%		[Gantt Chart Data]																																															



Activity ID	Activity Name	Primary Constraint	At Completion Duration	Current Start	Current Finish	Actual Start	Actual Finish	Latest Start	Latest Finish	Total Float	Activity % Complete	M28 Remarks	2017	2018	2019	2020	2021	2022	2023	2024	2025									
07-2720(1)	IEC review and comment of Coral Monitoring Plan		4			21-Apr-18 A	25-Apr-18 A				100%																			
07-2730(1)	AFCD Review and approval of Coral Monitoring Plan		11			14-May-18 A	25-May-18 A				100%																			
07-2740(1)	Submission to EPD-EAD Coral Monitoring Plan		0			28-May-18 A	28-May-18 A				100%																			
<b>EP_SP_66_12-WP-3-M28.07.5 Baseline Monitoring Information and Report</b>																														
07-2680(1)	Compilation of Final Baseline Monitoring Report		3			29-May-18 A	01-Jun-18 A				100%																			
07-2690(1)	IEC review and certification of Final baseline monitoring report		5			02-Jun-18 A	07-Jun-18 A				100%																			
07-2700(1)	Submission to EPD-EAD Final Baseline Monitoring Report		1			13-Jun-18 A	14-Jun-18 A				100%																			
<b>EP_SP_66_12-WP-3-M28.07.4 Baseline Air Quality Monitoring Works</b>																														
07-1220	Carry out baseline Air Quality monitoring at Portion 3		365	04-Jul-22	03-Jul-23	04-Jul-22	03-Jul-23	09-Oct-22	09-Oct-23		97%																			
07-1230	Carry out baseline Air Quality monitoring at Portion 4		365	04-Jul-22	03-Jul-23	04-Jul-22	03-Jul-23	09-Oct-22	09-Oct-23		97%																			
07-1240	Carry out baseline Air Quality monitoring at Portion 5		365	04-Jul-22	03-Jul-23	04-Jul-22	03-Jul-23	09-Oct-22	09-Oct-23		97%																			
<b>EP_SP_66_12-WP-3-M28.08 Maritime Works</b>																														
<b>EP_SP_66_12-WP-3-M28.08.3 Submissions</b>																														
08-900	Submission of Particulars for DCM Works Installations	Mandatory Start	47			29-Jan-18 A	19-Dec-18 A				100%																			
08-910	Submission of Particulars for DCM Barges/Equipment	Mandatory Start	65			23-May-18 A	27-Jul-18 A				50%																			
08-920	Submission of Lab-bench-scale testing proposal	Mandatory Start	147			01-Mar-18 A	26-Jul-18 A				100%																			
08-930	Submission of Preconstruction site trial proposal	Mandatory Start	137			26-Mar-18 A	10-Aug-18 A				100%																			
08-940	Submission of static loading test proposal		245			13-Mar-18 A	13-Nov-18 A				100%																			
08-950	Particulars for Construction Works Plan (CWP) for DCM Works		51			29-Oct-18 A	19-Dec-18 A				100%																			
08-960	Submission of particular for DCM materials		92			26-Mar-18 A	26-Jun-18 A				100%																			
08-970	Submission of Binder		92			26-Mar-18 A	26-Jun-18 A				100%																			
08-980	Submission of Silt Curtain System		177			29-Jan-18 A	25-Jul-18 A				100%																			
<b>EP_SP_66_12-WP-3-M28.08.1 Marine Construction</b>																														
<b>EP_SP_66_12-WP-3-M28.08.1.1 Phase I - Construction of Perimeter Seawalls</b>																														
<b>EP_SP_66_12-WP-3-M28.08.1.1.3 Marine Works Preparations</b>																														
08-0900	Carry out hydrographic survey		13			10-Jan-18 A	23-Jan-18 A				100%																			
08-1010	Mobilization of DCM Barge for Site Trial		28			14-Jun-18 A	12-Jul-18 A				100%																			
08-1020	Mobilization of Second DCM Barge for Construction		31			14-Nov-18 A	15-Dec-18 A				100%																			
08-1030(3)(M15)	Mobilization of Third DCM Barge for Construction	Start On or After	76			04-Apr-19 A	19-Jun-19 A				100%																			
08-1340(2)	Sediment Sample collection and testing Dumping Permit Application	Start On or After	30			05-Sep-18 A	05-Oct-18 A				100%																			
<b>EP_SP_66_12-WP-3-M28.08.1.1.3.2 Marine Ground Investigation Works</b>																														
08-1005-1	Ground Investigation - CPT for DCM Design Verification (145 nr.) (Deleted 26 nrs adj, Shek Kwu Chau)		67			09-Mar-18 A	15-May-18 A				100%																			
08-1005-2	Borehole Batch 1 for DCM & Caisson Design Verification at Short Breakwater Area (5 nr. @ 1 rigs)	Start On or After	41			16-Jun-18 A	27-Jul-18 A				100%																			
08-1005-3	Borehole Batch 2 for DCM & Caisson Design Verification at Seawall & Berth Area (18 nr. @ 3 rigs)	Start On or After	146			17-Apr-18 A	10-Sep-18 A				100%																			
08-1005-4	Borehole Batch 3 for Blockwork Seawall Design Verification (10 nr. @ 3 rigs)	Finish On or Before	81			27-Sep-18 A	17-Dec-18 A				100%																			
08-1005-5	Borehole Batch 4 for Reclamation Design (10 nr. @ 3 rigs)		140			06-Aug-18 A	24-Dec-18 A				100%																			
08-1005-6	Borehole Batch 4 for DCM & Caisson Design Verification at Short Breakwater Area (8 nr. @ 1 rig)		52			31-Aug-18 A	22-Oct-18 A				100%																			
<b>EP_SP_66_12-WP-3-M28.08.1.1.1 Seawall and Berth at DCM Area</b>																														
<b>EP_SP_66_12-WP-3-M28.08.1.1.1.1 Bench-scale Testing</b>																														
08-1030-01(1)(A)	Collect Soil Sample by Vibrocore Method (16 nr.)		14			13-Mar-18 A	26-Mar-18 A				100%																			
08-1030-02(1)(A)	Bench-scale Mixing		32			26-Mar-18 A	27-Apr-18 A				100%																			
08-1030-03(1)(A)	Bench-scale Test for Trial Mix (14 days)		15			09-Apr-18 A	24-Apr-18 A				100%																			
08-1030-04(1)(A)	Bench-scale Test for Trial Mix (28 days)		44			23-Mar-18 A	06-May-18 A				100%																			
08-1030-05(1)(A)	Bench-scale Test for Trial Mix (90 days)		31			26-Jun-18 A	27-Jul-18 A				100%																			
<b>EP_SP_66_12-WP-3-M28.08.1.1.1.2 DCM Plant &amp; Site Trial</b>																														
08-1040-01(1)(A)	Lay Geotextile and Sand Blanket		11			09-Jul-18 A	20-Jul-18 A				100%																			
08-1040-02(1)(A)	Pre CPT for Site Trial (7 nr.)	Start On or After	4			28-Jun-18 A	02-Jul-18 A				100%																			
08-1040-03(1)(A)	DCM Plant Trial Injections - Group 1 - 3 (9 nr.)		4			23-Jul-18 A	27-Jul-18 A				100%																			
08-1040-04(1)(A)	DCM Plant Trial Injections - Group 4 - 6 (9 nr.)		0			27-Jul-18 A	27-Jul-18 A				100%																			
08-1040-05(1)(A)	DCM Plant Trial Injections - Group 7 (2 nr.)		0			28-Jul-18 A	28-Jul-18 A				100%																			
08-1040-06(1)(A)	Coring for Proof Test - Group 1 - 3 (3 nr.)		6			19-Aug-18 A	25-Aug-18 A				100%																			
08-1040-07(1)(A)	Coring for Proof Test - Group 4 - 6 (3 nr.)		4			27-Aug-18 A	31-Aug-18 A				100%																			
08-1040-08(1)(A)	Coring for Proof Test - Group 7 (1 nr.)		2			01-Sep-18 A	02-Sep-18 A				100%																			
08-1040-09(1)(A)	Carry Laboratory Testing - Group 1 - 3 (3 nr.)		1			23-Aug-18 A	24-Aug-18 A				100%																			
08-1040-10(1)(A)	Carry Laboratory Testing - Group 4 - 6 (3 nr.)		1			01-Sep-18 A	01-Sep-18 A				100%																			
08-1040-11(1)(A)	Carry Laboratory Testing - Group 7 (1 nr.)		1			03-Sep-18 A	03-Sep-18 A				100%																			
<b>EP_SP_66_12-WP-3-M28.08.1.1.2.1 Plant &amp; Site Trial Retrial</b>																														
08-1040-13(1)(A)	Trial Injection Group 1 (2nr.)		1			11-Sep-18 A	12-Sep-18 A				100%																			
08-1040-14(1)(A)	Trial Injection Group 2 (2nr.)		0			22-Sep-18 A	22-Sep-18 A				100%																			
08-1040-15(1)(A)	Trial Injection Group 3 (2nr.)		0			22-Sep-18 A	22-Sep-18 A				100%																			
08-1040-16(1)(A)	Trial Injection Group 4 (2nr.)		1			26-Sep-18 A	26-Sep-18 A				100%																			
08-1040-17(1)(A)	Trial Injection Group 5 (2nr.)		0			26-Sep-18 A	26-Sep-18 A				100%																			
08-1040-18(1)(A)	Trial Injection Group 6 (2nr.)		1			28-Sep-18 A	28-Sep-18 A				100%																			
08-1040-19(1)(A)	Trial Injection Group 7 (2nr.)		1			29-Sep-18 A	29-Sep-18 A				100%																			
08-1040-20(1)(A)	Trial Injection Group 8 (2nr.)		1			30-Sep-18 A	30-Sep-18 A				100%																			
08-1040-21(1)(A)	Trial Injection Group 9 (2nr.)		1			01-Oct-18 A	02-Oct-18 A				100%																			
08-1040-22(1)(A)	Trial Injection Group 10 (2nr.)		0			02-Oct-18 A	02-Oct-18 A				100%																			
08-1040-23(1)(A)	Coring for Proof Test - No. 1 & 2		3			07-Oct-18 A	09-Oct-18 A				100%																			
08-1040-24(1)(A)	Coring for Proof Test - No. 3 & 4		4			15-Oct-18 A	18-Oct-18 A				100%																			
08-1040-25(1)(A)	Coring for Proof Test - No. 5 & 6		5			18-Oct-18 A	22-Oct-18 A				100%																			
08-1040-26(1)(A)	Coring for Proof Test - No. 7 & 8		4			22-Oct-18 A	25-Oct-18 A				100%																			
08-1040-27(1)(A)	Coring for Proof Test - No. 9		3			27-Oct-18 A	29-Oct-18 A				100%																			
08-1040-28(1)(A)	Coring for Proof Test - No. 10 & 11		5			03-Nov-18 A	08-Nov-18 A				100%																			
08-1040-29(1)(A)	Coring for Proof Test - No. 12 & 13		6			08-Nov-18 A	14-Nov-18 A				100%																			
08-1040-30(1)(A)	Coring for Proof Test - No. 14 & 15		4																											

Activity ID	Activity Name	Primary Constraint	At Completion Duration	Current Start	Current Finish	Actual Start	Actual Finish	Latest Start	Latest Finish	Total Float	Activity % Complete	M28 Remarks	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	
08-1040-46(3)	Pre-construction Site Trial Report Submission		247			06-Dec-18 A	10-Aug-19 A				100%												
08-1040-47(3)	Plant Trial Report Submission		136			27-Mar-19 A	10-Aug-19 A				100%												
<b>EP_SP_66_12-WP-3-M28.08.1.1.1.3 DCM Static Load Test</b>			<b>373</b>			<b>02-Aug-18 A</b>	<b>10-Aug-19 A</b>																
08-1050-01(1)(A)	Lay Geotextile and Sand Blanket		7			02-Aug-18 A	09-Aug-18 A				100%												
08-1050-02(1)(A)	DCM installation for load test		26			11-Sep-18 A	06-Oct-18 A				100%												
08-1050-03(1)(A)	Corring for proof test		33			07-Oct-18 A	08-Nov-18 A				100%												
08-1050-04(1)(A)	Carry UCS test and issue preliminary report		32			09-Oct-18 A	09-Nov-18 A				100%												
08-1050-04-1(3)	Post CPT for installed DCM (13nr)		24			27-Dec-18 A	28-Feb-19 A				100%												
08-1050-04-2(3)	Additional DCM Installation for failed clusters (3 nr)		0			13-Feb-19 A	13-Feb-19 A				100%												
08-1050-05(1)(A)	Construction of Rockfill Rubble Mound (include heaving treatment)		12			28-Feb-19 A	12-Mar-19 A				100%												
08-1050-06(1)(A)	Instrumentation installation		72			20-Mar-19 A	31-May-19 A				100%												
08-1050-08(1)(A)	Loading PC Blocks to +9.8mPD		8			01-Jun-19 A	09-Jun-19 A				100%												
08-1050-09(1)(A)	7 days Monitoring		7			10-Jun-19 A	17-Jun-19 A				100%												
08-1050-10(1)(A)	Loading PC Blocks to +11.15mPD		6			18-Jun-19 A	24-Jun-19 A				100%												
08-1050-11(1)(A)	3 days Monitoring		3			25-Jun-19 A	28-Jun-19 A				100%												
08-1050-12(1)(A)	Unloading PC Blocks		31			30-Jun-19 A	31-Jul-19 A				100%												
08-1050-13(1)(A)	Corring for Instrumentation (9 Holes)		64			14-Mar-19 A	31-May-19 A				100%												
08-1065(2)	Static load test report submission		42			29-Jun-19 A	10-Aug-19 A				100%												
<b>EP_SP_66_12-WP-3-M28.08.1.1.4 DCM Injection Works</b>			<b>512</b>			<b>29-Sep-18 A</b>	<b>23-Feb-20 A</b>																
08-1070	Geotextile Laying		152			29-Sep-18 A	28-Feb-19 A				100%												
08-1075(2)	Sand Blanket Laying		216			29-Sep-18 A	03-May-19 A				100%												
08-1080	DCM Injection Works (575,000m3, approx 6491 nr.)		374			10-Dec-18 A	19-Dec-19 A				100%												
08-1090	DCM Final Completion Tests		380			08-Feb-19 A	23-Feb-20 A				100%												
<b>EP_SP_66_12-WP-3-M28.08.1.1.5 Seawall Structural Works</b>			<b>1094</b>	<b>31-Mar-20</b>	<b>27-Jan-22</b>	<b>30-Jan-19 A</b>	<b>27-Jan-22</b>	<b>04-Nov-19</b>	<b>03-Jan-22</b>	<b>-25</b>													
08-1100	Rubble Mound Laying (100,000m3 approx, @550m3/d)		323	31-Mar-20	14-May-20	27-Jun-19 A	14-May-20	26-Nov-19	10-Jan-20	-126	75.27%												
08-1105(1)	Prefabrication for Caisson (Inc. preparation works)		508	31-Mar-20	20-Jun-20	30-Jan-19 A	20-Jun-20	04-Nov-19	25-Jan-20	-148	70.92%												
08-1105(2) (M22)	Prefabrication for Caisson (No.1 to No.3)		121			29-May-19 A	27-Sep-19 A				100%												
08-1105(3) (M22)	Prefabrication for Caisson (No.4 to No.13)		121			31-Jul-19 A	29-Nov-19 A				100%												
08-1105(4) (M22)	Prefabrication for Caisson (No.14 to No.23)		149	31-Mar-20	05-Apr-20	09-Nov-19 A	05-Apr-20	05-Dec-19	11-Dec-19	-117	80%												
08-1105(5) (M22)	Prefabrication for Caisson (No.24 to No.33)		159	31-Mar-20	06-May-20	30-Nov-19 A	06-May-20	04-Nov-19	11-Dec-19	-148	0%												
08-1105(6) (M22)	Prefabrication for Caisson (No.34 to No.43)		30	07-May-20	05-Jun-20	07-May-20	05-Jun-20	11-Dec-19	10-Jan-20	-148	0%												
08-1105(7) (M22)	Prefabrication for Caisson (No.44 to No.50)		29	23-May-20	20-Jun-20	23-May-20	20-Jun-20	27-Dec-19	25-Jan-20	-148	0%												
08-1110	Caisson Laying (Total 43nrs for Seawall Structure and 7nrs for Marine Access, @2 nrs/week)	Start On or After	278	21-Jun-20	20-Jul-20	17-Oct-19 A	20-Jul-20	25-Jan-20	24-Feb-20	-148	18%												
08-1115(3)	Caisson infill, Solid ballast, toe protection, precast concrete blocks ...etc Laying		333	31-Mar-20	04-Oct-20	07-Nov-19 A	04-Oct-20	25-Feb-20	31-Aug-20	-35	24.8%												
08-1120	Wave Wall Construction		120	30-Sep-21	27-Jan-22	30-Sep-21	27-Jan-22	05-Sep-21	03-Jan-22	-25	0%												
<b>EP_SP_66_12-WP-3-M28.08.1.1.2 Seawall at Dredging Area</b>			<b>605</b>	<b>31-Mar-20</b>	<b>18-Oct-20</b>	<b>22-Feb-19 A</b>	<b>18-Oct-20</b>	<b>11-Dec-19</b>	<b>03-Jan-22</b>	<b>441</b>													
08-1130	Dredging Works (26,000m3 @ 285m3/d avg, to comply EP Conditions 2.18)		301			22-Feb-19 A	20-Dec-19 A				100%												
08-1140	Lay Rock & Sand Fill		308	31-Mar-20	29-Apr-20	27-Jun-19 A	29-Apr-20	26-Dec-19	25-Jan-20	-96	80%												
08-1150	Place Rubble Mound (35,000m3 approx, @550m3/d)	Start On or After	196	31-Mar-20	14-May-20	01-Nov-19 A	14-May-20	11-Dec-19	25-Jan-20	-111	70%												
08-1155(2)	Fabrication and delivery of Precast Seawall Blocks (323nr. approx)	Start On or After	227	31-Mar-20	10-Jun-20	28-Oct-19 A	10-Jun-20	14-Dec-19	24-Feb-20	-108	85%												
08-1160	Lay Concrete Block Walls (300m length approx, @4m/d)		182	28-May-20	20-Jul-20	21-Jan-20 A	20-Jul-20	01-Jan-20	24-Feb-20	-148	10%												
08-1170	Insitu Concrete Wall Construction		90	21-Jul-20	18-Oct-20	21-Jul-20	18-Oct-20	05-Oct-21	03-Jan-22	441	0%												
<b>EP_SP_66_12-WP-3-M28.08.1.2 Phase II - Reclamation, Breakwater and Berth Construction</b>			<b>1247</b>	<b>31-Mar-20</b>	<b>11-Jun-22</b>	<b>12-Jan-19 A</b>	<b>11-Jun-22</b>	<b>21-Dec-19</b>	<b>02-Jan-23</b>	<b>204</b>													
<b>EP_SP_66_12-WP-3-M28.08.1.2.1 Reclamation</b>			<b>1247</b>	<b>31-Mar-20</b>	<b>11-Jun-22</b>	<b>12-Jan-19 A</b>	<b>11-Jun-22</b>	<b>21-Dec-19</b>	<b>06-Jun-22</b>	<b>-6</b>													
08-1180	Geotextile Laying (Approx. 60,000m2, @ 450m2/d)		323			12-Jan-19 A	01-Dec-19 A				100%												
08-1185(2)	Sand Blanket Laying (Approx. 120,000m3, @ 1200m3/d)		198	31-Mar-20	14-Apr-20	30-Sep-19 A	14-Apr-20	10-Feb-20	25-Feb-20	-50	85%												
08-1190	Install Vertical Band Drain by Barge (approx. 80,000 nr. @ 500/d)	Start On or After	111	31-Mar-20	04-Jun-20	15-Feb-20 A	04-Jun-20	21-Dec-19	25-Feb-20	-101	12.5%												
08-1200	Reclamation fill up to +2.5mPD (1,500,025m3 @ 4000m3/d)		375	22-Jul-20	31-Jul-21	22-Jul-20	31-Jul-21	25-Feb-20	06-Mar-21	-148	0%												
08-1210	Reclamation fill from +2.5 to Formation Level (510,000m3 @ 4250m3/d)		120	02-Jun-21	29-Sep-21	02-Jun-21	29-Sep-21	05-Jan-21	05-May-21	-148	0%												
08-1220	Lay Surcharge (605,000m3 @ 7600m3/d)		80	11-Aug-21	29-Oct-21	11-Aug-21	29-Oct-21	16-Mar-21	04-Jun-21	-148	0%												
08-1230	Surcharge Period		180	30-Oct-21	27-Apr-22	30-Oct-21	27-Apr-22	04-Jun-21	01-Dec-21	-148	0%												
08-1240	Remove Surcharge		85	04-Mar-22	27-May-22	04-Mar-22	27-May-22	07-Oct-21	31-Dec-21	-148	0%												
<b>EP_SP_66_12-WP-3-M28.08.1.2.1.1 Instrumentation</b>			<b>752</b>	<b>20-May-20</b>	<b>11-Jun-22</b>	<b>20-May-20</b>	<b>11-Jun-22</b>	<b>06-Nov-20</b>	<b>06-Jun-22</b>	<b>-6</b>													
08-1330 (M23)	Placing Settlement Plates for Settlement Markers on Top of Sand Blanket (~18nrs)		30	20-May-20	19-Jun-20	20-May-20	19-Jun-20	06-Nov-20	06-Dec-20	169	0%												
08-1340 (M23)	Placing Settlement Plates for Settlement Markers on +2.5mPD (~42nrs)		120	03-May-21	30-Aug-21	03-May-21	30-Aug-21	06-Dec-20	05-Apr-21	-148	0%												
08-1350 (M23)	Extension of instruments above +2.5mPD		65	07-Jul-21	09-Sep-21	07-Jul-21	09-Sep-21	21-Mar-21	25-May-21	-108	0%												
08-1360 (M23)	Extension of instruments to intermediate levels		42	04-Aug-21	14-Sep-21	04-Aug-21	14-Sep-21	18-Apr-21	30-May-21	-108	0%												
08-1370 (M23)	Extension of instruments to finished levels		42	09-Aug-21	19-Sep-21	09-Aug-21	19-Sep-21	23-Apr-21	04-Jun-21	-108	0%												
08-1375 (M23)	Extension of instruments to surcharge top levels		65	20-Sep-21	23-Nov-21	20-Sep-21	23-Nov-21	03-Aug-21	07-Oct-21	-48	0%												
08-1380 (M23)	Lower down the instruments to finished ground levels		60	13-Apr-22	11-Jun-22	13-Apr-22	11-Jun-22	07-Apr-22	06-Jun-22	-6	0%												
<b>EP_SP_66_12-WP-3-M28.08.1.2.2 Breakwater</b>			<b>829</b>	<b>19-Apr-20</b>	<b>23-Jun-21</b>	<b>18-Mar-19 A</b>	<b>23-Jun-21</b>	<b>30-Nov-21</b>	<b>02-Jan-23</b>	<b>557</b>	</												



















