

## Appendix A Master Programme

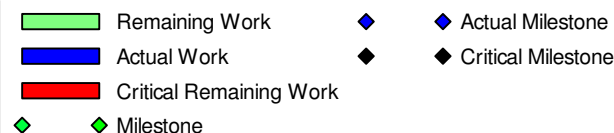
Activity ID	Activity Name	Remaining Duration	Current Start	Current Finish	Late Start	Late Finish	Total Float	Activity % Complete	2020		2021		
									Dec	Jan	Feb	Mar	
									37	38	39	40	
<b>EP_SP_66_12-WP5A-M37 Programme for Design and Construction Works WP5A-M37</b>													
<b>EP_SP_66_12-WP5A-M37.01 Key Dates</b>													
<b>EP_SP_66_12-WP5A-M37.01.1 Contractual Key Dates</b>													
<b>EP_SP_66_12-WP5A-M37.01.1.1 Design and Construction Phase</b>													
01-1000	Contract Award/Date of Acceptance of Tender	0	22-Nov-17 A					100%					
01-1010	Date of Commencement of the Design and the Works	0	15-Dec-17 A					100%					
01-1015(3)(M12)	Original Substantial Completion of the Works	0		27-Jul-24*		27-Jul-24	0	0%					
01-1020	Extended Substantial Completion of The Works	0		17-May-25*		17-May-25	0	0%					
<b>EP_SP_66_12-WP5A-M37.01.1.3 Extension of Time Granted</b>													
01-1015-1(3)(M12)	Extension of time granted (Claim No.1 to No.49) *Claim No.9 excluded	294	27-Jul-24	17-May-25	27-Jul-24	17-May-25	0	0%					
01-1060	Issuance of FS Certificate	0		02-Dec-24*		02-Dec-24	0	0%					
<b>EP_SP_66_12-WP5A-M37.01.2 Operation Phase</b>													
01-1030	Commencement of Operation	0	16-May-25*		16-May-25		0	0%					
01-1230	Issue Certificate of Completion of the Works (56 days after Substantial Completion)	0		12-Jul-25*		12-Jul-25	0	0%					
<b>EP_SP_66_12-WP5A-M37.03 Licence/Permit Applications</b>													
<b>EP_SP_66_12-WP5A-M37.03.1 License/Permit for Construction</b>													
03-1090	EPD APCO (SP) License for Concrete Batching Plant	270	31-Dec-20	26-Sep-21	21-Jun-21	17-Mar-22	172	0%	31-Dec-20				
03-1360(2)	CNP for 24Hrs	48	02-Aug-19 A	16-Feb-21*	31-Dec-20	16-Feb-21	0	73.63%					
03-1370_1(M34)	Landscape and Visual Plan	180	31-Dec-20	28-Jun-21	06-Sep-21	04-Mar-22	249	0%	31-Dec-20				
<b>EP_SP_66_12-WP5A-M37.03.4 Fire Services Installations (FSI) Certificate</b>													
<b>EP_SP_66_12-WP5A-M37.03.4.3 Fire Engineering Report</b>													
05-3000	Preparation and Submission of Fire Engineering Report to FSD	80	10-Apr-19 A	20-Mar-21	30-Jan-21	19-Apr-21	30	85.45%				20-Mar-21, F	
05-4450	Approval of Fire Engineering Report by FSD	14	21-Mar-21	03-Apr-21	20-Apr-21	03-May-21	30	0%				21-Mar-21	
<b>EP_SP_66_12-WP5A-M37.03.4.1 Fire Services Installations Certificate Inspection</b>													
03-1555(5a)	General Building Plans and FSI Provision Design Submission to FSD	90	03-Feb-21	03-May-21	03-Feb-21	03-May-21	0	0%				03-Feb-21	
<b>EP_SP_66_12-WP5A-M37.03.5 Air Pollution Control (Specified Processes) License</b>													
03-1730(3)	Early Engagement With EPD SP Licensing Department for Information exchange	200	27-Dec-18 A	18-Jul-21	07-Oct-21	24-Apr-22	280	66.67%					
<b>EP_SP_66_12-WP5A-M37.04 General Submissions</b>													
<b>EP_SP_66_12-WP5A-M37.04.1 Contractor's Plans Submission and Approval</b>													
04-1100(1)	Technical Resources Plan (TRP)	60	19-Dec-17 A	28-Feb-21*	31-Dec-20	28-Feb-21	0	30%				Technical Resources Plan (TRP), 28-Feb-21	
04-1200(1)	Works Plan (WP)	60	18-Dec-17 A	28-Feb-21*	31-Dec-20	28-Feb-21	0	30%				Works Plan (WP), 28-Feb-21*, 28-Feb-21	
04-1400(1)	Operation Plan (OP)	60	18-Dec-17 A	28-Feb-21*	31-Dec-20	28-Feb-21	0	75%				Operation Plan (OP), 28-Feb-21*, 28-Feb-21	
04-1450(1)	Asset Management Plan (AMP)	120	06-Mar-21*	03-Jul-21	21-Nov-21	20-Mar-22	260	0%				06-Mar-21*	
04-1500(1)	Handback Plan (HP)	120	06-Mar-21*	03-Jul-21	21-Nov-21	20-Mar-22	260	0%				06-Mar-21*	
<b>EP_SP_66_12-WP5A-M37.04.1.1 Provisional Assessment (PA)</b>													
04-1500(1)10	Preliminary Assessment	180	31-Dec-20	28-Jun-21	22-Nov-25	20-May-26	1787	0%	31-Dec-20				
<b>EP_SP_66_12-WP5A-M37.05 Design Submissions</b>													
<b>EP_SP_66_12-WP5A-M37.05.01 AIP Design Package Submissions</b>													
<b>EP_SP_66_12-WP5A-M37.05.01.01 AIP Process and Layout Design (2.1)</b>													
<b>EP_SP_66_12-WP5A-M37.05.01.01.2 MSW treatment process design for mechanical treatment (2.1.02)</b>													
05-1090	Mechanical Treatment Plant	105	31-Dec-20*	14-Apr-21	03-Jan-21	17-Apr-21	3	0%	31-Dec-20*				
<b>EP_SP_66_12-WP5A-M37.05.01.01.6 Site Master Layout Plan and Plant Layout (2.1.06)</b>													
05-3020	Site Master Layout Plan and Plant Layout	36	27-Apr-18 A	04-Feb-21	06-Feb-21	13-Mar-21	37	65%				04-Feb-21, Site Master Layout Plan and Plant Layout, Site Master Layout	
<b>EP_SP_66_12-WP5A-M37.05.01.01.7 Statutory Fire Compliance (2.1.25)</b>													
05-2990	Fire Safety Compliance	124	10-Apr-19 A	03-May-21	31-Dec-20	03-May-21	0	0%					
<b>EP_SP_66_12-WP5A-M37.05.01.02 AIP Ground Treatment, Reclamation, Seawall, Breakwater, Berth (2.2)</b>													
05-1280	Draft plan of 2D/3D modelling works for seawall and breakwater design (2.2.05)	15	03-May-18	14-Jan-21	07-Apr-21	21-Apr-21	97	80%				14-Jan-21, Draft plan of 2D/3D modelling works for seawall and breakwater design (2.2.05), Draft plan	
05-2970	Onshore crane Facility (2.2.11)	135	31-Dec-20*	14-May-21	03-May-21	14-Sep-21	123	0%	31-Dec-20*				
05-2980	Onshore vessel power supply system (2.2.12)	30	20-Aug-20 A	29-Jan-21	01-Dec-20	30-Dec-20	-30	77.78%				Onshore vessel power supply system (2.2.12), 29-Jan-21, 29-Jan-21, Onshore v	
<b>EP_SP_66_12-WP5A-M37.05.01.03 AIP Incineration Plant Buildings (2.3)</b>													
<b>EP_SP_66_12-WP5A-M37.05.01.03.1 General Layout Drawings and Fire Safety Strategy (2.3.00)</b>													
05-1210	Process Building	30	03-Oct-18 A	29-Jan-21	25-Apr-21	24-May-21	115	5%				29-Jan-21, Process Building, Process Building, 29-Jan-21	
05-1220	ACC Equipment Structure	30	03-Oct-20 A	29-Jan-21	24-Jan-21	22-Feb-21	24	77.78%				29-Jan-21, ACC Equipment Structure, ACC Equipment Structure, 29-Jan-21	
05-1250	Chimney and viewing platform	135	31-Dec-20	14-May-21	25-May-21	06-Oct-21	145	0%	31-Dec-20				
<b>EP_SP_66_12-WP5A-M37.05.01.03.2 Foundation design (2.3.01)</b>													
05-3030	Process Building Waste Bunker, Tipping Hall, Basin Area and Workshop	43	11-Aug-20 A	11-Feb-21	23-Jul-21	03-Sep-21	204	5%				11-Feb-21, Process Building Waste Bunker, Tipping Hall, Basin	
05-3040	ACC Equipment Structure	43	11-Aug-20 A	11-Feb-21	13-Oct-21	24-Nov-21	286	0%				11-Feb-21, ACC Equipment Structure, ACC Equipment Structure	
05-3070	Chimney and viewing platform	135	31-Dec-20*	14-May-21	30-Jul-21	11-Dec-21	211	0%	31-Dec-20*				
05-3090	Reception Pavilion	135	31-Dec-20*	14-May-21	01-Apr-22	13-Aug-22	456	0%	31-Dec-20*				
<b>EP_SP_66_12-WP5A-M37.05.01.03.3 Structural design (2.3.02)</b>													
05-1300	ACC Equipment Structure	0	23-Jul-19 A	20-Sep-19 A				0%					
05-1330	Chimney and viewing platform	135	31-May-19	14-May-21	08-May-22	19-Sep-22	493	5%					
<b>EP_SP_66_12-WP5A-M37.05.01.03.6 Fire services installation design (2.3.05)</b>													
<b>EP_SP_66_12-WP5A-M37.05.01.03.6.1 Process Building (2.3.05.01)</b>													
05-1510	Fire Systems	105	10-Jan-19 A	14-Apr-21	21-Apr-21	03-Aug-21	111	5%					
05-1520	Fire engineering	30	05-Mar-21	03-Apr-21	05-Jul-21	03-Aug-21	122	0%				05-Mar-21	
05-1530	FS schematics	7	10-Jan-19 A	06-Jan-21	13-Jul-21	19-Jul-21	194	5%				06-Jan-21, FS schematics, FS schematics, 06-Jan-21	
<b>EP_SP_66_12-WP5A-M37.05.01.03.6.3 Turbin Hall Building (2.3.05.03)</b>													

**Programme for Design and Construction Works**  
 December 2020 Update (Rev WP-5A-M37)

■ Remaining Work      ◆ Actual Milestone  
■ Actual Work      ◆ Critical Milestone  
■ Critical Remaining Work  
◆ Milestone

Date	Revision	Checked	Approved
04/12/17	Rev. 0 - 1st Issue		
31-Oct-20	Rev 5A - Oct 2020 Update		
30-Nov-20	Rev 5A - Nov 2020 Update		
31-Dec-20	Rev 5A - Dec 2020 Update		

Activity ID	Activity Name	Remaining Duration	Current Start	Current Finish	Late Start	Late Finish	Total Float	Activity % Complete	2020		2021	
									Dec 37	Jan 38	Feb 39	Mar 40
05-5400	Fire Systems (2.3.05.03.01)	105	28-Dec-18 A	14-Apr-21	21-Apr-21	03-Aug-21	111	5%				
05-5410 (M22)	Fire engineering	30	05-Mar-21	03-Apr-21	05-Jul-21	03-Aug-21	122	0%				
05-5420 (M22)	FS schematics (2.3.05.03.03)	105	28-Dec-18 A	14-Apr-21	06-Apr-21	19-Jul-21	96	5%				
<b>EP_SP_66_12-WP5A-M37.05.01.03.6.5 Elevated Drive Way and Associated Structures (2.3.05.05)</b>												
05-5445 (M22)	Fire Systems	105	16-Dec-19 A	14-Apr-21	21-Apr-21	03-Aug-21	111	5%				
05-5450 (M22)	FS schematics	149	16-Dec-19 A	28-May-21	21-Feb-21	19-Jul-21	52	5%				
<b>EP_SP_66_12-WP5A-M37.05.01.03.6.6 Reception Pavilion (2.3.05.06)</b>												
05-5460 (M22)	Fire Systems (2.3.05.06.01)	105	04-Oct-19 A	14-Apr-21	21-Apr-21	03-Aug-21	111	5%				
05-5470 (M22)	FS schematics (2.3.05.06.03)	148	04-Oct-19 A	27-May-21	22-Feb-21	19-Jul-21	53	5%				
<b>EP_SP_66_12-WP5A-M37.05.01.03.6.7 Compressor &amp; Closed Circuit (2.3.05.07)</b>												
05-5480 (M22)	Fire Systems (2.3.05.07.01)	133	11-Sep-19 A	12-May-21	24-Mar-21	03-Aug-21	83	5%				
05-5490 (M22)	FS schematics (2.3.05.07.03)	105	11-Sep-19 A	14-Apr-21	06-Apr-21	19-Jul-21	96	25%				
<b>EP_SP_66_12-WP5A-M37.05.01.03.7 Building services design (excluding fire services installation design) (2.3.06)</b>												
05-1550	Electrical Services and Lighting	45	10-Jan-19 A	13-Feb-21	21-Apr-21	04-Jun-21	111	5%	13-Feb-21, Electrical Services and Lighting, Electrical Servi			
05-1560	MVAC (6 Packages)	89	10-Jan-19 A	30-Mar-21	02-Dec-20	01-Mar-21	-28	15%				
05-1570	Odour Control	70	11-Jul-18 A	10-Mar-21	05-Jan-21	15-Mar-21	5	5%	10-Mar-21, Odour Control			
05-1580	Plumbing	53	15-Jan-19 A	21-Feb-21	13-Jan-21	06-Mar-21	14	75%	21-Feb-21, Plumbing, Plumbing, 21-Feb-21			
05-1590	Drainage (7 Packages)	65	15-Jan-19 A	05-Mar-21	01-Jan-21	06-Mar-21	1	25%	05-Mar-21, Drainage (7 Package			
05-1600	ELV (7 Packages)	76	10-Jan-19 A	16-Mar-21	04-Jun-21	18-Aug-21	155	65%	16-Mar-21, ELV (7			
05-1610	Lifts and Escalators (2 Packages)	90	30-Dec-19 A	30-Mar-21	23-Dec-20	22-Mar-21	-8	5%				
05-1630	Building Management System (BMS) (7 Packages)	62	23-Oct-20 A	02-Mar-21	10-Oct-21	10-Dec-21	283	5%	02-Mar-21, Building Management Sys			
05-1770	Vehicle & Container Wash System	135	31-Dec-20*	14-May-21	12-Dec-20	25-Apr-21	-19	0%	31-Dec-20*			
05-1770-1(M20)	Water Cannon System	135	11-Jun-19 A	14-May-21	25-Feb-21	09-Jul-21	56	5%				
05-1770-2 (5a)	Process CCTV System	135	31-Dec-20	14-May-21	25-Feb-21	09-Jul-21	56	0%	31-Dec-20			
<b>EP_SP_66_12-WP5A-M37.05.01.04 AIP Mechanical Treatment Plant Building (2.4)</b>												
05-1640	Architectural Design (2.4.00)	60	07-Sep-18 A	28-Feb-21	05-Feb-21	05-Apr-21	36	65%	28-Feb-21, Architectural Design (2.4.00			
05-1650	Foundation design (2.4.01)	105	31-Dec-20	14-Apr-21	20-Feb-21	04-Jun-21	51	100%	31-Dec-20			
05-1660	Structural design (2.4.02)	105	15-Apr-21*	28-Jul-21	30-Oct-21	11-Feb-22	198	100%				
05-1670	Electrical and instrumentation works design (2.4.03)	105	31-Dec-20	14-Apr-21	29-Apr-21	11-Aug-21	119	0%	31-Dec-20			
05-1680	Mechanical works design (2.4.04)	105	31-Dec-20	14-Apr-21	03-Jan-21	17-Apr-21	3	0%	31-Dec-20			
05-1690	Fire services installation design (2.4.05) (3 Packages)	95	20-Mar-19 A	05-Apr-21	15-Apr-21	19-Jul-21	106	0%				
<b>EP_SP_66_12-WP5A-M37.05.01.04.7 Building services design (excluding fire services installation design) (2.4.06)</b>												
05-1700	LV and Emergency Power Distribution Design	17	20-Mar-19 A	16-Jan-21	19-May-21	04-Jun-21	139	5%	16-Jan-21, LV and Emergency Power Distribution Design, LV and Emergency Power Distribution D			
05-1710	MVAC	75	25-Mar-19 A	15-Mar-21	17-Dec-20	01-Mar-21	-14	5%	MVAC, 15-Mar-21,			
05-1720	Odour Control	105	31-Dec-20*	14-Apr-21	01-Dec-20	15-Mar-21	-30	0%	31-Dec-20*			
05-1730	Plumbing	105	20-Mar-19 A	14-Apr-21	22-Nov-20	06-Mar-21	-39	65%				
05-1740	Drainage	88	20-Mar-19 A	28-Mar-21	22-Feb-21	20-May-21	53	5%	2			
05-1750	ELV	135	20-Mar-19 A	14-May-21	06-Apr-21	18-Aug-21	96	0%				
05-1760	Lifts	135	30-Dec-19 A	14-May-21	17-Mar-21	29-Jul-21	76	0%				
05-1760-1(M20)	Building Management System (BMS)	135	31-Dec-20	14-May-21	15-May-21	26-Sep-21	135	0%	31-Dec-20			
<b>EP_SP_66_12-WP5A-M37.05.01.05 AIP Wastewater Treatment Plant (2.5)</b>												
05-1780	Architectural Design (2.5.00)	60	03-Oct-18 A	28-Feb-21	13-May-21	11-Jul-21	133	65%	28-Feb-21, Architectural Design (2.5.00			
05-2790	Fire services installation design (2.5.05)	90	16-Jan-19 A	30-Mar-21	21-Apr-21	19-Jul-21	111	5%				
<b>EP_SP_66_12-WP5A-M37.05.01.05.7 Building services design (excluding fire services installation design) (2.5.06)</b>												
05-1830	LV and Emergency Power Distribution Design (2.5.06.01)	30	16-Jan-19 A	29-Jan-21	06-May-21	04-Jun-21	126	25%	29-Jan-21, LV and Emergency Power Distribution Design (2.5.06.01), LV and Em			
05-1840	MVAC (2.5.06.02)	75	16-Jan-19 A	15-Mar-21	01-Jan-21	16-Mar-21	1	25%	15-Mar-21, MVAC (			
05-1850	Odour Control (2.5.06.03)	105	31-Dec-20*	14-Apr-21	01-Dec-20	15-Mar-21	-30	0%	31-Dec-20*			
05-1860	Plumbing (2.5.06.04)	90	16-Jan-19 A	30-Mar-21	07-Dec-20	06-Mar-21	-24	25%				
05-1870	Drainage (2.5.06.05)	30	16-Jan-19 A	29-Jan-21	05-Feb-21	06-Mar-21	36	25%	29-Jan-21, Drainage (2.5.06.05), Drainage (2.5.06.05), 29-Jan-21			
05-1880	ELV (2.5.06.06)	76	16-Jan-19 A	16-Mar-21	04-Jun-21	18-Aug-21	155	25%	16-Mar-21, ELV (2			
<b>EP_SP_66_12-WP5A-M37.05.01.06 AIP Water Treatment Plant Building (2.6)</b>												
05-1900	Architectural Design (2.6.00)	60	07-Sep-18 A	28-Feb-21	05-Feb-21	05-Apr-21	36	65%	28-Feb-21, Architectural Design (2.6.00			
05-1950	Fire services installation design (2.6.05) (3 Packages)	85	20-Mar-19 A	26-Mar-21	25-Apr-21	19-Jul-21	116	19%	26-M			
<b>EP_SP_66_12-WP5A-M37.05.01.06.7 Building services design (excluding fire services installation design) (2.6.06)</b>												
05-1960	Electrical Services and Lighting (2.6.06.01)	75	20-Mar-19 A	15-Mar-21	05-Jun-21	18-Aug-21	156	5%	15-Mar-21, Electric			
05-1970	MVAC	75	25-Mar-19 A	15-Mar-21	17-Dec-20	01-Mar-21	-14	5%	MVAC, 15-Mar-21,			
05-1990	Plumbing	105	20-Mar-19 A	14-Apr-21	22-Nov-20	06-Mar-21	-39	5%				
05-2000	Drainage	88	20-Mar-19 A	28-Mar-21	22-Feb-21	20-May-21	53	5%	2			
05-2010	ELV	135	20-Mar-19 A	14-May-21	06-Apr-21	18-Aug-21	96	5%				
<b>EP_SP_66_12-WP5A-M37.05.01.07 AIP Administration Building (2.7)</b>												
05-2020	Architectural Design (2.7.00)	60	03-Aug-18 A	28-Feb-21	05-Feb-21	05-Apr-21	36	65%	28-Feb-21, Architectural Design (2.7.00			
05-2030	Foundation design (2.7.01)	135	31-Dec-20	14-May-21	16-May-21	27-Sep-21	136	0%	31-Dec-20			
05-2040	Structural design (2.7.02)	135	15-May-21	26-Sep-21	01-Oct-21	12-Feb-22	139	0%				
05-2050	Electrical and instrumentation works design (2.7.03)	135	31-Dec-20*	14-May-21	28-Feb-21	12-Jul-21	59	0%	31-Dec-20*			
05-2060	Fire services installation design (3 Packages) (2.7.04)	122	03-Sep-19 A	02-May-21	19-Mar-21	19-Jul-21	79	9.5%				
<b>EP_SP_66_12-WP5A-M37.05.01.07.6 Building services design (excluding fire services installation design) (2.7.05)</b>												
05-2070	Electrical Services and Lighting (2.7.05.01)	75	03-Sep-19 A	15-Mar-21	05-Jun-21	18-Aug-21	156	5%	15-Mar-21, Electric			
05-2080	MVAC	75	03-Sep-19 A	15-Mar-21	17-Dec-20	01-Mar-21	-14	5%	MVAC, 15-Mar-21,			



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04/12/17	Rev. 0 - 1st Issue		
31-Oct-20	Rev 5A - Oct 2020 Update		
30-Nov-20	Rev 5A - Nov 2020 Update		
31-Dec-20	Rev 5A - Dec 2020 Update		

Activity ID	Activity Name	Remaining Duration	Current Start	Current Finish	Late Start	Late Finish	Total Float	Activity % Complete	2020		2021	
									Dec 37	Jan 38	Feb 39	Mar 40
05-2100	Plumbing	0	03-Sep-19 A	31-Dec-20	06-Mar-21	06-Mar-21	66	5%	31-Dec-20, Plumbing, Plumbing, 31-Dec-20			
05-2110	Drainage	88	03-Sep-19 A	28-Mar-21	22-Feb-21	20-May-21	53	5%				
05-2120	ELV	76	03-Sep-19 A	16-Mar-21	04-Jun-21	18-Aug-21	155	5%	16-Mar-21, ELV, E			
05-2130	Lifts and Escalators	135	30-Dec-19 A	14-May-21	28-Nov-20	11-Apr-21	-33	5%				
05-2130-1(M20)	Building Management System (BMS)	135	01-Feb-21*	15-Jun-21	29-Jul-21	10-Dec-21	178	0%	01-Feb-21*			
<b>EP_SP_66_12-WP5A-M37.05.01.08 APIWMF Substation (2.8)</b>												
05-2170	Electrical and instrumentation works design (2.8.03) (14 Packages)	30	25-Oct-19 A	29-Jan-21	26-Nov-20	25-Dec-20	-35	55%	Electrical and instrumentation works design (2.8.03) (14 Packages), 29-Jan-21, 2			
05-2190	Fire services installation design (2.8.05) (2 Packages)	64	27-Nov-18 A	04-Mar-21	17-Apr-21	19-Jun-21	107	65%	04-Mar-21, Fire services installati			
<b>EP_SP_66_12-WP5A-M37.05.01.08.7 Building services design (excluding fire services installation design) (2.8.06)</b>												
05-2240-1(M20)	Building Management System (BMS)	0	24-Dec-19 A	19-Jun-20 A				65%				
<b>EP_SP_66_12-WP5A-M37.05.01.1 AIP Chimney</b>												
<b>EP_SP_66_12-WP5A-M37.05.01.1.1 Building services design (excluding fire services installation design)</b>												
05-5430(5a)	Electrical Services and Lighting	135	31-Dec-20	14-May-21	02-Jan-22	16-May-22	367	0%	31-Dec-20			
05-5440(5a)	MVAC	105	31-Dec-20	14-Apr-21	01-Feb-22	16-May-22	397	0%	31-Dec-20			
05-5450(5a)	Plumbing	105	31-Dec-20	14-Apr-21	01-Feb-22	16-May-22	397	0%	31-Dec-20			
05-5460(5a)	Drainage	135	31-Dec-20	14-May-21	02-Jan-22	16-May-22	367	0%	31-Dec-20			
05-5470(5a)	ELV	135	31-Dec-20	14-May-21	02-Jan-22	16-May-22	367	0%	31-Dec-20			
05-5480(5a)	Lift	135	31-Dec-20	14-May-21	02-Jan-22	16-May-22	367	0%	31-Dec-20			
05-5490(5a)	Building Management System (BMS)	89	24-Dec-19 A	29-Mar-21	17-Feb-22	16-May-22	413	25%				
<b>EP_SP_66_12-WP5A-M37.05.01.2 AIP Weighbridge</b>												
<b>EP_SP_66_12-WP5A-M37.05.01.2.1 Building services design (excluding fire services installation design)</b>												
05-5500(5a)	Electrical Services and Lighting	105	31-Dec-20	14-Apr-21	14-Dec-20	28-Mar-21	-17	0%	31-Dec-20			
05-5510(5a)	MVAC	105	31-Dec-20	14-Apr-21	14-Dec-20	28-Mar-21	-17	0%	31-Dec-20			
05-5520(5a)	Plumbing	105	31-Dec-20	14-Apr-21	14-Dec-20	28-Mar-21	-17	25%	31-Dec-20			
05-5530(5a)	Drainage	105	31-Dec-20	14-Apr-21	14-Dec-20	28-Mar-21	-17	0%	31-Dec-20			
05-5540(5a)	ELV	105	31-Dec-20	14-Apr-21	14-Dec-20	28-Mar-21	-17	0%	31-Dec-20			
05-5550(5a)	Lift	105	31-Dec-20	14-Apr-21	14-Dec-20	28-Mar-21	-17	0%	31-Dec-20			
05-5560(5a)	Building Management System (BMS)	105	31-Dec-20	14-Apr-21	14-Dec-20	28-Mar-21	-17	0%	31-Dec-20			
<b>EP_SP_66_12-WP5A-M37.05.01.09 AIP Air Quality Monitoring Stations (2.9)</b>												
05-2250	Design of the Air Quality Monitoring Stations (2.9.01)	44	01-Oct-20 A	12-Feb-21	31-Dec-20	12-Feb-21	0	63.33%	Design of the Air Quality Monitoring Stations (2.9.01), 12-Feb-			
<b>EP_SP_66_12-WP5A-M37.05.01.10 AIP Roads and Utilities (2.10)</b>												
<b>EP_SP_66_12-WP5A-M37.05.01.10.2 Sewerage design on the Artificial Island (2.10.02)</b>												
05-2290	Contaminated Sewerage concept / sizing	135	18-Sep-19 A	14-May-21	25-Oct-21	08-Mar-22	298	5%				
<b>EP_SP_66_12-WP5A-M37.05.01.10.3 Drainage system design on the Artificial Island (2.10.03)</b>												
05-2310	First Flush Drainage System concept / sizing	135	22-May-19	14-May-21	29-Dec-20	12-May-21	-2	5%				
<b>EP_SP_66_12-WP5A-M37.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)</b>												
05-2330	Reuse Water Distribution System (2.10.04.02)	0	15-Nov-19 A	11-Nov-20 A				65%	System (2.10.04.02), 11-Nov-20 A			
05-2340	Reuse Water Distribution System - Irrigation System (2.10.04.03)	0	15-Nov-19 A	11-Nov-20 A				0%	System - Irrigation System (2.10.04.03), 11-Nov-20 A			
05-2350	Rainwater harvesting System (2.10.04.04)	135	13-Nov-20 A	14-May-21	22-Nov-20	05-Apr-21	-39	5%				
05-2360	Water Tanks (2.10.04.05)	135	31-Dec-20*	14-May-21	24-Nov-21	07-Apr-22	328	0%	31-Dec-20*			
05-2370	External FS Systems (2.10.04.06)	135	04-Nov-19 A	14-May-21	24-Nov-21	07-Apr-22	328	65%				
05-2370-1(M24)	E&M system for seawater intake and brine discharge (2.10.04.07)	90	30-Aug-19 A	30-Mar-21	28-Jul-21	25-Oct-21	209	5%				
05-2370-2(M24)	Building Services system for seawater intake and brine discharge (2.10.04.09)	90	11-Mar-20 A	30-Mar-21	06-Apr-21	04-Jul-21	96	5%				
05-2370-3(5a)	Chemical scrubber system for odour control (2.10.04.10)	90	31-Dec-20*	30-Mar-21	02-Dec-20	01-Mar-21	-29	0%	31-Dec-20*			
<b>EP_SP_66_12-WP5A-M37.05.01.10.6 Design of telecommunication and other utilities (2.10.06)</b>												
05-2380	Power Distribution System concept / schematics (2.10.06.01)	135	31-Dec-20*	14-May-21	17-Mar-21	29-Jul-21	76	0%	31-Dec-20*			
05-2400	Lightning Protection System concept / schematics (2.10.06.03)	0	27-Dec-19 A	29-Oct-20 A				65%	matics (2.10.06.03), 29-Oct-20 A			
05-2410	Site ELV Network System - Communications System concept / schematics (2.10.06.04)	135	09-Mar-20 A	14-May-21	17-Mar-21	29-Jul-21	76	5%				
05-2420	Site ELV Network System - Security Systems concept / schematics (2.10.06.05)	135	09-Mar-20 A	14-May-21	17-Mar-21	29-Jul-21	76	5%				
05-2430	Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)	135	31-Dec-20*	14-May-21	17-Mar-21	29-Jul-21	76	0%	31-Dec-20*			
05-2440	Microwave transmission of FS direct link (2.10.06.07)	90	27-Nov-18 A	30-Mar-21	01-May-21	29-Jul-21	121	33.33%				
05-2450	Fuel Handling System concept / schematics (2.10.06.08)	135	24-Jan-20 A	14-May-21	25-Aug-22	06-Jan-23	602	5%				
05-3190	Computerised Maintenance Management System (CMMS)	75	10-Jun-19 A	15-Mar-21	15-Apr-21	28-Jun-21	105	65%	15-Mar-21, Comput			
05-3200	Information and Document Management System (IDMS)	75	15-Jul-19 A	15-Mar-21	15-Apr-21	28-Jun-21	105	65%	15-Mar-21, Informa			
05-3200-1(M34)	Design of Pipe / Utilities Trenches concept (2.10.06.09.01)	105	31-Dec-20*	14-Apr-21	11-Nov-21	23-Feb-22	315	0%	31-Dec-20*			
05-3200-2(M34)	Sitewide Utilities Trenches Design (2.10.06.09.02)	105	22-Oct-20 A	14-Apr-21	11-Nov-21	23-Feb-22	315	5%				
05-3840 (M22)	Automatic Traffic Control System (ATCS) (2.10.06.12)	90	31-Dec-20	30-Mar-21	19-Jun-21	16-Sep-21	170	0%	31-Dec-20			
<b>EP_SP_66_12-WP5A-M37.05.01.10.7 Utility ducts/Pipebridges design (2.10.25)</b>												
05-2480	Pipebridge network - Layout	120	31-Dec-20	29-Apr-21	13-Dec-20	11-Apr-21	-18	0%	31-Dec-20			
05-2490	Pipebridge network - Foundation Plan	60	24-Jun-20 A	28-Feb-21	13-Dec-20	10-Feb-21	-18	5%	Pipebridge network - Foundation Plan, 2			
05-2500	Pipebridge network - Structure Plan	60	24-Jun-20 A	28-Feb-21	13-Dec-20	10-Feb-21	-18	5%	Pipebridge network - Structure Plan, 28-			
<b>EP_SP_66_12-WP5A-M37.05.01.11 AIP Architectural, Finishes and Landscaping Works (2.11)</b>												
<b>EP_SP_66_12-WP5A-M37.05.01.11.1 External and internal finishes design for Incineration Plant Buildings (2.11.01)</b>												
05-2510	External and internal finishes design for Incineration Plant Building (6 Packages)	137	04-May-20	16-May-21	23-Aug-21	06-Jan-22	235	5%				
05-2520	External and internal finishes design for ACC Equipment Structure	137	31-Dec-20*	16-May-21	27-Jun-21	10-Nov-21	178	0%	31-Dec-20*			
05-2530	External and internal finishes design for Turbine Hall Building (3 Packages)	137	04-May-20	16-May-21	21-Nov-21	06-Apr-22	325	5%				
05-2540	External and internal finishes design for Air Compressor Building (3 Packages)	137	04-May-20	16-May-21	04-Nov-21	20-Mar-22	308	5%				
05-2550	External and internal finishes design for Chimney (6 Packages)	137	31-Dec-20*	16-May-21	22-Oct-21	07-Mar-22	295	0%	31-Dec-20*			
05-2560	External and internal finishes design for Reception Pavilion (5 Packages)	137	30-Mar-20 A	16-May-21	22-Oct-21	07-Mar-22	295	5%				

**Programme for Design and Construction Works**  
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- Remaining Work
- Actual Work
- Critical Remaining Work
- ◆ Milestone
- ◆ Actual Milestone
- ◆ Critical Milestone

Date	Revision	Checked	Approved
04/12/17	Rev. 0 - 1st Issue		
31-Oct-20	Rev 5A - Oct 2020 Update		
30-Nov-20	Rev 5A - Nov 2020 Update		
31-Dec-20	Rev 5A - Dec 2020 Update		





Activity ID	Activity Name	Remaining Duration	Current Start	Current Finish	Late Start	Late Finish	Total Float	Activity % Complete	2020		2021	
									Dec	Jan	Feb	Mar
05-3450	Seawall design (2.2.20)	30	12-Nov-18 A	29-Jan-21	23-Mar-21	21-Apr-21	82	65%				
05-3460	Breakwater design (2.2.21)	105	12-Apr-19 A	14-Apr-21	13-Jun-22	25-Sep-22	529	65%				
05-3470	Berth design (2.2.22)	30	01-Nov-18 A	29-Jan-21	23-Mar-21	21-Apr-21	82	65%				
05-3490	Onshore vessel power supply system (2.2.24)	135	30-Jan-21	13-Jun-21	31-Dec-20	14-May-21	-30	0%				
<b>EP_SP_66_12-WP5A-M37.05.02.03 DDA Incineration Plant Buildings (2.3)</b>												
<b>EP_SP_66_12-WP5A-M37.05.02.03.1 General Layout Drawings and Fire Safety Strategy (2.3.25)</b>												
05-3290	Process Building	135	30-Jan-21	13-Jun-21	25-May-21	06-Oct-21	115	0%				
05-3300	ACC Equipment Structure	135	30-Jan-21	13-Jun-21	23-Feb-21	07-Jul-21	24	0%				
<b>EP_SP_66_12-WP5A-M37.05.02.03.2 Foundation design (2.3.13)</b>												
05-3220	Process Building Waste Bunker, Tipping Hall, Basin Area and Workshop	137	19-Mar-21	02-Aug-21	09-Oct-21	22-Feb-22	204	0%				
05-3230	ACC Equipment Structure	137	19-Mar-21	02-Aug-21	30-Dec-21	15-May-22	286	0%				
<b>EP_SP_66_12-WP5A-M37.05.02.03.3 Structural design (2.3.14)</b>												
05-5340	ACC Equipment Structure	189	31-Dec-20*	07-Jul-21	25-Jan-21	01-Aug-21	25	0%				
05-5350	Turbine Hall Building (2.3.14.03)	189	31-Dec-20*	07-Jul-21	13-Jun-22	18-Dec-22	529	0%				
05-5360	Compressor and CCCW Building	189	31-Dec-20*	07-Jul-21	07-Sep-22	14-Mar-23	615	0%				
05-5380	Chimney, Elevated Drive Way and associated structures and Reception Pavilion	189	31-Dec-20*	07-Jul-21	14-May-22	18-Nov-22	499	0%				
05-5390	Reception Pavilion Structural Design	189	28-May-20	07-Jul-21	15-Sep-22	22-Mar-23	623	5%				
<b>EP_SP_66_12-WP5A-M37.05.02.03.4 Electrical and instrumentation works design (2.3.15)</b>												
05-3360	11kV/380V Power Transformers and 11kV Earthing Transformer	75	22-Sep-20 A	13-Jun-21	01-Mar-21	14-May-21	-30	5%				
05-3370	E&I Package 1 (Process Island)	209	31-Dec-20	27-Jul-21	29-Nov-20	25-Jun-21	-32	0%				
05-3380	E&I Package 2 (Power Island)	165	31-Dec-20	13-Jun-21	30-Nov-20	13-May-21	-31	0%				
<b>EP_SP_66_12-WP5A-M37.05.02.03.8 Operation Management System (2.3.15.04)</b>												
05-3390	Supervisory Control/Data Acquisition/ Distributed Control (SCADA/DCS) System (12 Packages)	105	08-Jun-20 A	14-Apr-21	10-Jan-22	24-Apr-22	375	5%				
05-3420	Automatic License Plate and Container Recognition System (ALPCRS)	105	27-Sep-21	09-Jan-22	10-Jan-22	24-Apr-22	105	0%				
<b>EP_SP_66_12-WP5A-M37.05.02.03.5 Mechanical works design (2.3.16)</b>												
<b>EP_SP_66_12-WP5A-M37.05.02.03.5.1 Plant and Equipment</b>												
05-3580	Weighbridge Systems	105	31-Dec-20	14-Apr-21	17-Jun-21	29-Sep-21	168	0%				
05-3590	Waste Crane and Grapple System	105	30-Sep-20 A	14-Apr-21	19-Dec-20	02-Apr-21	-12	5%				
05-3600	Mechanical Shredder	105	09-Oct-20 A	14-Apr-21	23-Nov-21	07-Mar-22	327	0%				
05-3610	Incineration System (9 Packages)	65	13-Feb-19 A	05-Mar-21	24-Nov-20	27-Jan-21	-37	5%				
05-3620	Heat Recovery Boiler (8 Packages)	103	17-May-19	12-Apr-21	28-Jan-21	10-May-21	28	5%				
05-3630	Boiler Feed Water Systems (4 Packages)	65	16-Jul-19 A	05-Mar-21	24-Nov-20	27-Jan-21	-37	5%				
05-3640	Ash cranes	105	31-Dec-20	14-Apr-21	19-Dec-20	02-Apr-21	-12	0%				
05-3650	Leachate collection and treatment	105	31-Dec-20*	14-Apr-21	28-Jan-21	12-May-21	28	0%				
05-3790	Flue Gas Treatment System (12 Packages)	65	15-Oct-19 A	05-Mar-21	24-Nov-20	27-Jan-21	-37	5%				
05-3800	Boiler ash and APC residue handling and solidification	65	09-Jun-20 A	05-Mar-21	24-Nov-20	27-Jan-21	-37	5%				
05-3810	Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS)	105	30-Jul-20 A	14-Apr-21	19-Jan-21	03-May-21	19	5%				
05-3820	Air cooled condenser	105	30-Jul-20 A	14-Apr-21	19-Jan-21	03-May-21	19	5%				
05-3825(3)	Closed Circuit Cooling Water System	105	30-Jul-20 A	14-Apr-21	15-May-21	27-Aug-21	135	5%				
<b>EP_SP_66_12-WP5A-M37.05.02.03.5.2 Process Pipeworks (Incl. Ductworks) and Valves</b>												
05-3840	Process island (furnace-boiler-FGC)	82	16-May-19	22-Mar-21	07-Oct-21	27-Dec-21	280	0%				
05-4350	Pipebridge A (Between Process island & Turbine Hall)	105	01-Mar-21	13-Jun-21	12-May-21	24-Aug-21	72	0%				
05-4360	Compressed Air Plant area	105	31-Dec-20	14-Apr-21	08-Jul-21	20-Oct-21	189	0%				
05-4370	Pipebridge B (Between CCCW Area & Turbine Hall)	105	31-Dec-20	14-Apr-21	12-May-21	24-Aug-21	132	0%				
05-4380	Pipebridge C (Between Turbine Hall & ACC Yard)	105	31-Dec-20	14-Apr-21	12-May-21	24-Aug-21	132	0%				
05-4950	Turbine Hall	105	31-Dec-20	14-Apr-21	30-Nov-20	14-Mar-21	-31	0%				
05-4970	CCCW Area	105	31-Dec-20	14-Apr-21	08-Jul-21	20-Oct-21	189	0%				
<b>EP_SP_66_12-WP5A-M37.05.02.03.5.3 Process steel structure support (For equipment, piping &amp; duct, cable tray etc)</b>												
05-3530	Process island (furnace-boiler-FGC) (3 Packages)	105	02-Aug-19 A	14-Apr-21	15-Feb-21	30-May-21	46	0%				
05-3540	Pipebridge (Between Process island & Turbine Hall)	105	31-Dec-20	14-Apr-21	12-May-21	24-Aug-21	132	0%				
05-3550	Turbine Hall	34	30-Jul-20 A	02-Feb-21	01-Dec-20	03-Jan-21	-30	0%				
05-3560	Pipebridge (Between CCCW Area & Turbine Hall)	105	28-Aug-20 A	14-Apr-21	12-May-21	24-Aug-21	132	5%				
05-3570	Pipebridge (Between Turbine Hall & ACC Yard)	105	28-Aug-20 A	14-Apr-21	12-May-21	24-Aug-21	132	5%				
<b>EP_SP_66_12-WP5A-M37.05.02.03.5.4 Equipment and piping insulation</b>												
05-4500	Incineration System	105	31-Dec-20*	14-Apr-21	24-Jun-21	06-Oct-21	175	0%				
05-4510	Heat Recovery Boiler	105	31-Dec-20*	14-Apr-21	24-Jun-21	06-Oct-21	175	0%				
05-4520	Boiler Feed Water Systems	105	31-Dec-20*	14-Apr-21	08-Jul-21	20-Oct-21	189	0%				
05-4530	Flue Gas Treatment System	105	31-Dec-20*	14-Apr-21	24-Jun-21	06-Oct-21	175	0%				
05-4540	Boiler ash and APC residue handling and solidification	105	31-Dec-20*	14-Apr-21	08-Jul-21	20-Oct-21	189	0%				
05-4550	Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS)	105	31-Dec-20	14-Apr-21	24-Jun-21	06-Oct-21	175	0%				
05-4560	Air cooled condenser	105	31-Dec-20	14-Apr-21	08-Jul-21	20-Oct-21	189	0%				
05-4570	Closed Circuit Cooling Water System	105	31-Dec-20	14-Apr-21	15-May-21	27-Aug-21	135	0%				
<b>EP_SP_66_12-WP5A-M37.05.02.03.7 Building services design (excluding fire services installation design) (2.3.18)</b>												
05-3700	MVAC (6 Packages)	135	30-Mar-21	12-Aug-21	02-Mar-21	14-Jul-21	-28	0%				
05-3770	Building Management System (BMS) ELV (7 Packages)	135	03-Mar-21	15-Jul-21	11-Dec-21	24-Apr-22	283	0%				
<b>EP_SP_66_12-WP5A-M37.05.02.04 DDA Mechanical Treatment Plant Building (2.4)</b>												
05-5160	Architectural Design (2.4.25)	105	01-Mar-21*	13-Jun-21	06-Apr-21	19-Jul-21	36	0%				
05-5170	Foundation design (2.4.13)	105	15-Apr-21	28-Jul-21	05-Jun-21	17-Sep-21	51	0%				

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	Remaining Work		Actual Milestone
	Actual Work		Critical Milestone
	Critical Remaining Work		
	Milestone		

Date	Revision	Checked	Approved
04/12/17	Rev. 0 - 1st Issue		
31-Oct-20	Rev 5A - Oct 2020 Update		
30-Nov-20	Rev 5A - Nov 2020 Update		
31-Dec-20	Rev 5A - Dec 2020 Update		

Activity ID	Activity Name	Remaining Duration	Current Start	Current Finish	Late Start	Late Finish	Total Float	Activity % Complete	2020		2021	
									Dec	Jan	Feb	Mar
05-5180	Structural design (2.4.14)	105	29-Jul-21	10-Nov-21	12-Feb-22	27-May-22	198	0%				
05-5190	Electrical and instrumentation works design (2.4.15)	105	15-Apr-21	28-Jul-21	12-Aug-21	24-Nov-21	119	0%				
05-5200	Mechanical works design (2.4.16)	105	15-Apr-21	28-Jul-21	18-Apr-21	31-Jul-21	3	0%				
05-5210	Fire services installation design (2.4.17)	105	14-Jun-21	26-Sep-21	20-Jul-21	01-Nov-21	36	0%				
<b>EP_SP_66_12-WP5A-M37.05.02.04.7 Building services design (excluding fire services installation design) (2.4.18)</b>												
05-3850	LV and Emergency Power Distribution Design	135	02-Apr-21*	14-Aug-21	19-Aug-21	31-Dec-21	139	0%				02-Apr-21*
05-3860	MVAC	135	16-Mar-21	28-Jul-21	02-Mar-21	14-Jul-21	-14	0%				16-Mar-21
05-3870	Odour Control	135	15-Apr-21	27-Aug-21	16-Mar-21	28-Jul-21	-30	0%				
05-3880	Plumbing	135	29-Jun-21	10-Nov-21	21-May-21	02-Oct-21	-39	0%				
05-3890	Drainage	135	28-Mar-21	10-Aug-21	21-May-21	02-Oct-21	53	0%				28-Mar-21
05-3900	Lighting and small power	135	15-May-21	26-Sep-21	19-Aug-21	31-Dec-21	96	0%				
05-3910	Lifts and Escalators	135	29-Jul-21	10-Dec-21	13-Oct-21	24-Feb-22	76	0%				
05-3910-1(M20)	Building Management System (BMS)	135	29-Jul-21	10-Dec-21	11-Dec-21	24-Apr-22	135	0%				
<b>EP_SP_66_12-WP5A-M37.05.02.05 DDA Wastewater Treatment Plant (2.5)</b>												
05-3920	Architectural Design (2.5.25)	75	01-Mar-21*	14-May-21	12-Jul-21	24-Sep-21	133	0%				01-Mar-21*
05-3930	Foundation design (2.5.13)	135	31-Dec-20	14-May-21	11-Oct-21	22-Feb-22	284	0%	31-Dec-20			
05-3950	Electrical and instrumentation works design (2.5.15)	135	31-Dec-20	14-May-21	04-May-21	15-Sep-21	124	0%	31-Dec-20			
<b>EP_SP_66_12-WP5A-M37.05.02.05.7 Building services design (excluding fire services installation design) (2.5.18)</b>												
05-3990	MVAC	120	16-Mar-21	13-Jul-21	17-Mar-21	14-Jul-21	1	0%				16-Mar-21
05-4030	ELV	135	17-Mar-21	29-Jul-21	19-Aug-21	31-Dec-21	155	0%				17-Mar-21
<b>EP_SP_66_12-WP5A-M37.05.02.06 DDA Water Treatment Plant Building (2.6)</b>												
05-4050	Architectural Design (2.6.25)	105	01-Mar-21	13-Jun-21	06-Apr-21	19-Jul-21	36	0%				01-Mar-21
05-4060	Foundation design (2.6.13)	180	31-Dec-20	28-Jun-21	22-Mar-21	17-Sep-21	81	0%	31-Dec-20			
05-4080	Electrical and instrumentation works design (2.6.15)	105	31-Dec-20	14-Apr-21	03-Jun-21	15-Sep-21	154	0%	31-Dec-20			
05-4090	Mechanical works design (2.6.16)	105	31-Dec-20	14-Apr-21	03-Jun-21	15-Sep-21	154	0%	31-Dec-20			
<b>EP_SP_66_12-WP5A-M37.05.02.06.7 Building services design (excluding fire services installation design) (2.6.18)</b>												
05-4110	Electrical Services and Lighting	135	16-Mar-21	28-Jul-21	19-Aug-21	31-Dec-21	156	0%				16-Mar-21
05-4120	MVAC	135	16-Mar-21	28-Jul-21	02-Mar-21	14-Jul-21	-14	0%				16-Mar-21
05-4150	Drainage	135	28-Mar-21	10-Aug-21	21-May-21	02-Oct-21	53	0%				28-Mar-21
<b>EP_SP_66_12-WP5A-M37.05.02.07 DDA Administration Building (2.7)</b>												
05-4170	Architectural Design (2.7.21)	105	01-Mar-21*	13-Jun-21	06-Apr-21	19-Jul-21	36	0%				01-Mar-21*
05-4180	Foundation design (2.7.11)	135	15-May-21	26-Sep-21	28-Sep-21	09-Feb-22	136	0%				
05-4190	Structural design (2.7.12)	135	27-Sep-21	08-Feb-22	13-Feb-22	27-Jun-22	139	0%				
05-4200	Electrical and instrumentation works design (2.7.13)	135	15-May-21	26-Sep-21	13-Jul-21	24-Nov-21	59	0%				
05-4210	Fire services installation design (2.7.14)	105	14-Jun-21	26-Sep-21	20-Jul-21	01-Nov-21	36	0%				
<b>EP_SP_66_12-WP5A-M37.05.02.07.6 Building services design (excluding fire services installation design) (2.7.15)</b>												
05-4220	Electrical Services and Lighting	135	16-Mar-21	28-Jul-21	19-Aug-21	31-Dec-21	156	0%				16-Mar-21
05-4230	MVAC	135	16-Mar-21	28-Jul-21	02-Mar-21	14-Jul-21	-14	0%				16-Mar-21
05-4250	Plumbing	135	16-Mar-21	28-Jul-21	21-May-21	02-Oct-21	66	0%				16-Mar-21
05-4260	Drainage	135	28-Mar-21	10-Aug-21	21-May-21	02-Oct-21	53	0%				28-Mar-21
05-4270	ELV	135	17-Mar-21	29-Jul-21	19-Aug-21	31-Dec-21	155	0%				17-Mar-21
05-4280	Lifts and Escalators	135	29-Jul-21	10-Dec-21	26-Jun-21	07-Nov-21	-33	0%				
05-4280-1(M20)	Building Management System (BMS)	135	16-Jun-21	28-Oct-21	11-Dec-21	24-Apr-22	178	0%				
<b>EP_SP_66_12-WP5A-M37.05.02.08 DDA IWMF Substation (2.8)</b>												
05-4290	Architectural Design (2.8.25)	105	31-Dec-20*	14-Apr-21	07-Mar-21	19-Jun-21	66	0%	31-Dec-20*			
05-4300	Foundation design (2.8.13)	200	31-Dec-20	18-Jul-21	11-Jul-21	26-Jan-22	192	0%	31-Dec-20			
05-4310	Structural design (2.8.14)	195	27-Feb-20 A	13-Jul-21	18-Oct-21	30-Apr-22	291	5%				
05-4320	Electrical and instrumentation works design (2.8.15)	135	30-Jan-21	13-Jun-21	26-Dec-20	09-May-21	-35	0%				30-Jan-21
<b>EP_SP_66_12-WP5A-M37.05.02.08.7 Building services design (excluding fire services installation design) (2.8.18)</b>												
05-4990	Electrical Services and Lighting	135	31-Dec-20	14-May-21	19-Aug-21	31-Dec-21	231	0%	31-Dec-20			
05-5000	MVAC	135	31-Dec-20	14-May-21	02-Mar-21	14-Jul-21	61	0%	31-Dec-20			
05-5010	Plumbing	135	31-Dec-20	14-May-21	21-May-21	02-Oct-21	141	0%	31-Dec-20			
05-5020	Drainage	135	31-Dec-20	14-May-21	21-May-21	02-Oct-21	141	0%	31-Dec-20			
05-5030	ELV	135	31-Dec-20	14-May-21	19-Aug-21	31-Dec-21	231	0%	31-Dec-20			
05-5030-1(M20)	Building Management System (BMS)	135	31-Dec-20	14-May-21	11-Dec-21	24-Apr-22	345	0%	31-Dec-20			
<b>EP_SP_66_12-WP5A-M37.05.02.1 DDA Chimney</b>												
<b>EP_SP_66_12-WP5A-M37.05.02.1.1 Building services design (excluding fire services installation design)</b>												
05-6060(5a)	Building Management System (BMS)	135	30-Mar-21	11-Aug-21	17-May-22	28-Sep-22	413	0%				30-Mar-21
<b>EP_SP_66_12-WP5A-M37.05.02.09 DDA Air Quality Monitoring Stations (2.9)</b>												
05-4490	Design of the Air Quality Monitoring Stations (2.9.03)	135	13-Feb-21	27-Jun-21	13-Feb-21	27-Jun-21	0	0%				13-Feb-21
<b>EP_SP_66_12-WP5A-M37.05.02.10 DDA Roads and Utilities (2.10)</b>												
<b>EP_SP_66_12-WP5A-M37.05.02.10.1 Permanent road works layout on the Artificial Island (2.10.13)</b>												
05-4470	Roads and hardstandings layout	135	31-Dec-20	14-May-21	19-Mar-23	31-Jul-23	808	0%	31-Dec-20			
05-4480	Road signage and markings	135	31-Dec-20	14-May-21	01-Aug-23	13-Dec-23	943	0%	31-Dec-20			
<b>EP_SP_66_12-WP5A-M37.05.02.10.2 Sewerage design on the Artificial Island (2.10.14)</b>												
05-4430	Foul Sewerage	135	31-Dec-20	14-May-21	21-May-21	02-Oct-21	141	0%	31-Dec-20			
<b>EP_SP_66_12-WP5A-M37.05.02.10.3 Drainage system design on the Artificial Island (2.10.15)</b>												
05-5310	Surface water Drainage System	135	31-Dec-20	14-May-21	21-May-21	02-Oct-21	141	0%	31-Dec-20			
<b>EP_SP_66_12-WP5A-M37.05.02.10.4 Water supply system design on the Artificial Island (2.10.16)</b>												

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Activity ID	Activity Name	Remaining Duration	Current Start	Current Finish	Late Start	Late Finish	Total Float	Activity % Complete	2020		2021			
									Dec	37	Jan	38	Feb	39
05-5250	Potable Water Distribution System	135	31-Dec-20	14-May-21	03-Apr-22	15-Aug-22	458	0%			31-Dec-20			
05-5260	Recycled Water System	135	31-Dec-20	14-May-21	03-Apr-22	15-Aug-22	458	0%			31-Dec-20			
05-5270	Irrigation System	135	31-Dec-20	14-May-21	21-May-21	02-Oct-21	141	0%			31-Dec-20			
05-5300-1(M24)	E&M system for seawater intake and brine discharge (2.10.04.07)	90	30-Jan-21	29-Apr-21	27-Aug-21	24-Nov-21	209	0%				30-Jan-21		
<b>EP_SP_66_12-WP5A-M37.05.02.10.6 Design of telecommunication and other utilities (2.10.18)</b>														
05-4590	Site Lighting Concept / Schematics	135	31-Dec-20	14-May-21	19-Mar-23	31-Jul-23	808	0%			31-Dec-20			
05-4600	Lightning Protection System concept / schematics	135	12-Jan-21	26-May-21	18-Apr-21	30-Aug-21	96	0%			12-Jan-21			
<b>EP_SP_66_12-WP5A-M37.05.02.10.7 Utility ducts/Pipebridges design (2.10.26)</b>														
05-5070	Pipebridge network - Foundation Plan	135	01-Mar-21	13-Jul-21	11-Feb-21	25-Jun-21	-18	0%				01-Mar-21		
05-5080	Pipebridge network - Structure Plan	135	01-Mar-21	13-Jul-21	11-Feb-21	25-Jun-21	-18	0%				01-Mar-21		
<b>EP_SP_66_12-WP5A-M37.05.02.11 DDA Architectural, Finishes and Landscaping Works (2.11)</b>														
<b>EP_SP_66_12-WP5A-M37.05.02.11.1 External and internal finishes design for Incineration Plant Buildings (2.11.15)</b>														
05-4670	External and internal finishes design for Incineration Plant Building (13 Packages)	137	30-Jan-21*	15-Jun-21	22-Sep-21	05-Feb-22	235	0%				30-Jan-21*		
05-4690	External and internal finishes design for Turbine Hall Building (7 Packages)	137	30-Jan-21*	15-Jun-21	21-Dec-21	06-May-22	325	0%				30-Jan-21*		
05-4700	External and internal finishes design for Air Compressor Building (7 Packages)	137	30-Jan-21*	15-Jun-21	04-Dec-21	19-Apr-22	308	0%				30-Jan-21*		
05-4710	External and internal finishes design for Chimney (10 Packages)	137	30-Jan-21*	15-Jun-21	21-Nov-21	06-Apr-22	295	0%				30-Jan-21*		
05-4720	External and internal finishes design for Reception Pavilion (10 Packages)	137	30-Jan-21*	15-Jun-21	21-Nov-21	06-Apr-22	295	0%				30-Jan-21*		
<b>EP_SP_66_12-WP5A-M37.05.02.12 DDA Testing and Commissioning (2.12)</b>														
05-4810-1(5a)	Factory Acceptance Testing plan (2.12.09.02-07) (8 Packages)	60	08-Sep-20 A	14-Sep-21	06-Oct-21	04-Dec-21	81	5%						
<b>EP_SP_66_12-WP5A-M37.06 Procurement of Major Equipment</b>														
<b>EP_SP_66_12-WP5A-M37.06.1 Off-site Fabrication of Incineration Modules</b>														
<b>EP_SP_66_12-WP5A-M37.06.1.25 Material Procurement</b>														
06-1000-1(1)	Mechanical Equipment Material Submission and Approval	35	09-Jul-18 A	03-Feb-21	24-Nov-20	28-Dec-20	-37	80.56%						
06-1000-2(1)	Pipe Material Submission and Approval	65	29-Oct-19 A	05-Mar-21	24-Nov-20	27-Jan-21	-37	92%						
06-1000-3(1)	Electrical and Instrumentation Material Submission and Approval	90	31-Dec-20	30-Mar-21	29-Nov-20	26-Feb-21	-32	0%			31-Dec-20			
06-1010-1(1)	Mechanical Equipment Procurement (incl. FAT)	94	29-Jun-18 A	04-Apr-21	28-Jan-21	01-May-21	27	74%						
06-1010-2(1)	Pipe Material Procurement (incl. FAT)	180	06-Mar-21	01-Sep-21	28-Jan-21	26-Jul-21	-37	0%					06-Mar-21	
<b>EP_SP_66_12-WP5A-M37.06.1.26 Fabrication of Module</b>														
06-1010-4(5a)	Preparation Works for Steel Support Frame	22	24-Feb-20 A	21-Jan-21	06-Jan-21	27-Jan-21	6	87.78%				21-Jan-21		
06-1020-1(1)	Erection of Steel Support Frame	563	15-Sep-20 A	16-Jul-22	18-Dec-20	04-Jul-22	-12	15.84%						
06-1020-2(1)	Mechanical Installation Works	584	06-Mar-21	10-Oct-22	28-Jan-21	03-Sep-22	-37	0%					06-Mar-21	
06-1020-3(1)	Piping and Instrumentation Installation Works	650	06-Mar-21	15-Dec-22	28-Jan-21	08-Nov-22	-37	0%					06-Mar-21	
<b>EP_SP_66_12-WP5A-M37.06.2 Off-site Fabrication of Turbine Modules</b>														
<b>EP_SP_66_12-WP5A-M37.06.2.1 Material Procurement</b>														
06-1050-3(1)	Electrical and Instrumentation Material Submission and Approval	90	06-Mar-21	03-Jun-21	03-Feb-21	03-May-21	-31	0%					06-Mar-21	
06-1060-1(1)	Mechanical Equipment Procurement (Incl. FAT)	159	18-Jun-18 A	07-Jun-21	26-Nov-20	03-May-21	-35	54.57%						
<b>EP_SP_66_12-WP5A-M37.06.2.2 Fabrication of Module</b>														
06-1070-1(1)	Erection of Steel Support Frame	120	08-Feb-21	07-Jun-21	04-Jan-21	03-May-21	-35	0%					08-Feb-21	
<b>EP_SP_66_12-WP5A-M37.06.3 Procurement for ACC Units</b>														
06-1110	Material & Equipment Procurement	250	31-Dec-20	06-Sep-21	25-Nov-20	01-Aug-21	-36	0%			31-Dec-20			
<b>EP_SP_66_12-WP5A-M37.06.7 Procurement for HV Transformers and Associated Equipment</b>														
<b>EP_SP_66_12-WP5A-M37.06.7.1 Procurement of Transformers &amp; EDG</b>														
06-1280(1)	Procurement of Transformers	338	19-Jul-19 A	08-Jul-22	06-Jul-21	08-Jun-22	-30	38.55%						
<b>EP_SP_66_12-WP5A-M37.06.10 Procurement and Off-site Fabrication of Pipe Bridges (Incl. Pipings)</b>														
06-1400	Material & Equipment Procurement	450	09-Aug-20 A	04-Jan-23	24-Sep-21	17-Dec-22	-18	0%						
<b>EP_SP_66_12-WP5A-M37.08 Maritime Works</b>														
<b>EP_SP_66_12-WP5A-M37.08.1 Marine Construction</b>														
<b>EP_SP_66_12-WP5A-M37.08.1.1 Phase I - Construction of Perimeter Seawalls</b>														
<b>EP_SP_66_12-WP5A-M37.08.1.1.1 Seawall and Berth at DCM Area</b>														
<b>EP_SP_66_12-WP5A-M37.08.1.1.1.5 Seawall Structural Works</b>														
08-1100	Rubble Mound Laying (100,000m3 approx. @550m3/d)	12	27-Jun-20 A	11-Jan-21	10-Apr-21	21-Apr-21	100	93.41%				11-Jan-21		
08-1105(6) (M22)	Prefabrication for Caisson (No.35 to No.43) Including Marine Access	30	28-Jan-20 A	29-Jan-21	23-Mar-21	21-Apr-21	82	91.1%				29-Jan-21		
08-1115(3)	Caisson infill, Solid ballast, toe protection, precast concrete blocks ..etc Laying	8	29-Oct-19 A	07-Jan-21	14-Apr-21	21-Apr-21	105	97%				07-Jan-21		
<b>EP_SP_66_12-WP5A-M37.08.1.2 Phase II - Reclamation, Breakwater and Berth Construction</b>														
<b>EP_SP_66_12-WP5A-M37.08.1.2.1 Reclamation</b>														
08-1200	Reclamation fill for Northern Side (from A2) from -9.0mPD to +2.5mPD (450,008m3 @ 4000m3/d)	1	16-Sep-20 A	31-Dec-20	22-Nov-20	22-Nov-20	-39	99.12%						
08-1200-1 (M35)	Reclamation fill for Eastern Side (from E6) from -9.0mPD to -7.5mPD (120,000m3 @ 4000m3/d)	30	01-Jan-21	30-Jan-21	23-Nov-20	22-Dec-20	-39	0%			01-Jan-21			
08-1200-2 (M35)	Reclamation fill for Eastern Side (from E6) from -7.5mPD to +2.5mPD (480,011m3 @ 4000m3/d)	120	31-Jan-21	30-May-21	23-Dec-20	21-Apr-21	-39	0%				31-Jan-21		
08-1200-3 (M35)	Reclamation fill for Marine Access from -9.0mPD to +2.5mPD (~300,000m3 @ 4000m3/d)	37	31-May-21	06-Jul-21	22-Apr-21	28-May-21	-39	0%						
08-1210	Reclamation fill from +2.5 to Formation Level (510,000m3 @4250m3/d)	120	08-May-21	04-Sep-21	30-Mar-21	27-Jul-21	-39	0%						
08-1220	Lay Surcharge (605,000m3 @ 7600m3/d)	80	23-Jul-21	10-Oct-21	14-Jun-21	01-Sep-21	-39	0%						
08-1230	Surcharge Period	260	23-Jul-21	08-Apr-22	14-Jun-21	28-Feb-22	-39	0%						
08-1240	Remove Surcharge	146	19-Jan-22	13-Jun-22	11-Dec-21	05-May-22	-39	0%						
<b>EP_SP_66_12-WP5A-M37.08.1.2.1.1 Instrumentation</b>														
08-1330 (M23)	Placing Settlement Plates for Settlement Markers on Top of Sand Blanket (~18hrs)	30	31-Dec-20	29-Jan-21	30-Dec-20	28-Jan-21	-1	0%			31-Dec-20		29-Jan-21	
08-1340 (M23)	Placing Settlement Plates for Settlement Markers & Instrumentation on +2.5mPD (~42hrs)	120	09-Mar-21	06-Jul-21	29-Jan-21	28-May-21	-39	0%					09-Mar-21	
08-1350 (M23)	Extension of instruments above +2.5mPD	65	03-May-21	06-Jul-21	18-May-21	21-Jul-21	15	0%						
08-1370 (M23)	Extension of instruments to finished levels	42	25-Jul-21	04-Sep-21	22-Jul-21	01-Sep-21	-3	0%						

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Activity ID	Activity Name	Remaining Duration	Current Start	Current Finish	Late Start	Late Finish	Total Float	Activity % Complete	2020		2021		
									Dec	Jan	Feb	Mar	
									37	38	39	40	
08-1375 (M23)	Extension of instruments to surcharge top levels	65	07-Aug-21	10-Oct-21	07-Oct-21	10-Dec-21	61	0%					
08-1380 (M23)	Lower down the instruments to finished ground levels	60	30-Apr-22	28-Jun-22	10-Jun-22	08-Aug-22	41	0%					
<b>EP_SP_66_12-WP5A-M37.08.1.2.1.2 PVD Remedial Works</b>													
08-1390 (M34)	GI for ground condition varification at Zone D for PVD (2 nr approx @0.5 nr/day) Inc Report	14	08-Apr-21	21-Apr-21	28-Feb-21	13-Mar-21	-39	0%					
08-1390 (M34)15	Install Sand Drains at Zone D (approx. 62 nr @ 4nr/day/2 set of equipment)	16	22-Apr-21	07-May-21	14-Mar-21	29-Mar-21	-39	0%					
08-1390 (M34)20	GI for ground condition varification at other Zone for PVD (10 nr approx @0.5 nr/day) Inc Report	28	08-May-21	04-Jun-21	16-Jul-21	12-Aug-21	69	0%					
08-1390 (M34)25	Install Sand Drains at other Zones (approx. 549 nr @ 8nr/day/4 set of equipment)	90	05-Jun-21	02-Sep-21	13-Aug-21	10-Nov-21	69	0%					
08-1390 (M34)30	Lay Surcharge at remedial works area	30	03-Sep-21	02-Oct-21	11-Nov-21	10-Dec-21	69	0%					
08-1390 (M34)40	Surcharge Period at remedial area	180	03-Oct-21	31-Mar-22	11-Dec-21	08-Jun-22	69	0%					
08-1390 (M34)50	Remove Surcharge at remedial area	30	01-Apr-22	30-Apr-22	09-Jun-22	08-Jul-22	69	0%					
<b>EP_SP_66_12-WP5A-M37.08.1.2.2 Breakwater</b>													
08-1250	Geotextile and Sand Blanket Laying	2	31-Jan-19 A	02-Jan-21	28-Sep-22	30-Sep-22	637	95%			02-Jan-21	Geotextile and Sand Blanket Laying, Geotextile and Sand Blanket Laying, 02-Jan-21	
08-1280	Rubble Mound Laying (100,000m3 approx, @550m3/d)	4	06-Sep-20 A	03-Jan-21	12-Oct-22	15-Oct-22	650	98%			03-Jan-21	Rubble Mound Laying (100,000m3 approx, @550m3/d), Rubble Mound Laying (100,000m3 approx, @550m3/d)	
08-1285(1)	Prefabrication for Caission	158	19-Jun-20 A	07-Jun-21	20-May-22	25-Oct-22	506	12%					
<b>EP_SP_66_12-WP5A-M37.15 Works By CLP</b>													
<b>EP_SP_66_12-WP5A-M37.15.1 Installation of Transmission System</b>													
15-0800	450 days Prior to Commencement of System Commissioning Test	0	20-Apr-23		15-Mar-23		-36	0%					
15-0900	Completion of Civil Provision for Transmission	0		27-Nov-22		14-Mar-23	107	0%					
15-1000	Construction of Transmission System	90	28-Nov-22*	25-Feb-23	14-Nov-23	11-Feb-24	351	0%					
15-1002	Cable Testing	30	26-Feb-23	27-Mar-23	12-Feb-24	12-Mar-24	351	0%					
<b>EP_SP_66_12-WP5A-M37.15.2 Remaining Installation Works by CLP</b>													
15-1005	Plant Installation inside CLP Equipment Room	60	01-Oct-23*	29-Nov-23	13-Jan-24	12-Mar-24	104	0%					
15-1010	Cable Termination Works	30	30-Nov-23*	29-Dec-23	13-Mar-24	11-Apr-24	104	0%					
15-1015	Testing and Commissioning	60	30-Dec-23	27-Feb-24	12-Apr-24	10-Jun-24	104	0%					
<b>EP_SP_66_12-WP5A-M37.15.3 Metering &amp; Energization</b>													
15-1020	Incoming Power System Final Inspection and Metering works	30	20-Jul-24	18-Aug-24	11-Jun-24	10-Jul-24	-39	0%					
15-1030	Energization of Incoming Power Supply Main System	0		18-Aug-24		10-Jul-24	-39	0%					
15-1040	Energization of Incoming Power Supply Sub System	0		18-Aug-24		10-Jul-24	-39	0%					
15-1050	Export Power System Final Inspection and Metering works	30	19-Aug-24	17-Sep-24	11-Jul-24	09-Aug-24	-39	0%					
15-1060	Connection to Grid	0		17-Sep-24		09-Aug-24	-39	0%					

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- ◆ Critical Milestone

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