

Annex C

Construction Programme of the Project

#	Activity ID	Activity Name	BL Project Duration	BL Project Start	BL Project Finish	Remaining Duration	Start	Finish	% Complete	Variance - BL Project Finish Date	2015												2016												2017												2018												
											N	D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul				
1	Contract No. EP/SP/61/10 - v1.4, Progress updated on 17Sep17 ***																																																										
2	Preliminary and Site Establishment																																																										
3	ESum110	Preliminary and Site Establishment	217	20-Nov-14	15-Aug-15	0	20-Nov-14 A	19-Oct-16 A	100%	-349																																																	
4	Design																																																										
5	ESum120	Design Criteria and Design Preparation	80	20-Nov-14	27-Feb-15	0	20-Nov-14 A	01-Sep-15 A	100%	-151																																																	
6	ESum130	Detailed Design Submission (DDS) - General, Civil, ABWF and Landscape	289	19-Dec-14	23-Feb-16	29	18-Dec-14 A	30-Oct-17	99.93%	-418																																																	
7	ESum132	Detailed Design Submission (DDS) - Building 1	151	21-Apr-15	25-Nov-15	0	13-Apr-15 A	27-Jul-16 A	100%	-164																																																	
8	ESum134	Detailed Design Submission (DDS) - Building 2	158	12-Mar-15	30-Oct-15	0	12-Mar-15 A	07-Apr-16 A	100%	-106																																																	
9	ESum136	Detailed Design Submission (DDS) - Building 3	103	03-Jun-15	29-Oct-15	0	20-Jul-15 A	30-Mar-16 A	100%	-102																																																	
10	ESum138	Detailed Design Submission (DDS) - Auxilliary Buildings & Facilities	177	10-Feb-15	29-Oct-15	0	11-Feb-15 A	08-Aug-16 A	100%	-191																																																	
11	ESum140	Detailed Design Submission (DDS) - E&M and BS	216	18-Dec-14	04-Nov-15	32	18-Dec-14 A	02-Nov-17	99.85%	-495																																																	
12	Procurement																																																										
13	ESum150	Procurement, Manufacturing, F.A.T., Shipment & Delivery of E&M Systems Equipment	507	12-Feb-15	02-Jul-16	94	01-Mar-15 A	20-Dec-17	99.52%	-536																																																	
14	Construction																																																										
15	ESum160	Construction of Building #1 (Waste Receiving, Pre-treatment & Administration)	178	19-Aug-15	23-Mar-16	0	02-Sep-15 A	06-Sep-17 A	100%	-431																																																	
16	ESum170	Construction of Building #2 (Composting & Maturation, and Link Bridge)	262	23-May-15	11-Apr-16	0	16-Jun-15 A	24-Mar-17 A	100%	-285																																																	
17	ESum175	Construction of Building #3 (Energy Centre)	87	30-Oct-15	15-Feb-16	0	24-Mar-16 A	24-Oct-16 A	100%	-205																																																	
18	ESum180	Construction of Auxilliary Buildings & Facilities	263	13-May-15	31-Mar-16	0	04-May-15 A	02-Sep-17 A	100%	-424																																																	
19	ESum190	ABWF, Finishing and Fitting-out Works to Building #1, #2, #3 and Auxilliary Buildings & Facilities (excl. EEC)	259	23-Dec-15	08-Nov-16	61	21-Mar-16 A	30-Nov-17	75.49%	-315																																																	
20	ESum200	Sitewide, Boundary Wall and Roadworks	326	02-Sep-15	07-Oct-16	50	13-Nov-15 A	17-Nov-17	82.19%	-330																																																	
21	ESum210	Statutory and Utilities Works (excl. Lifting Platform)	148	04-Mar-16	06-Oct-16	76	02-Nov-16 A	18-Dec-17	81.22%	-357																																																	
22	ESum215	Green Roof and Landscaping	129	29-Jul-16	31-Dec-16	54	17-Nov-17	22-Jan-18	0%	-313																																																	
23	E&M and Building Services Installation																																																										
24	ESum220	E&M Installation - Mechanical	164	04-Feb-16	25-Aug-16	117	11-May-16 A	07-Feb-18	92.64%	-432																																																	
25	ESum222	E&M Installation - Piping	144	24-May-16	12-Nov-16	61	28-Nov-16 A	30-Nov-17	89.92%	-311																																																	
26	ESum224	E&M Installation - Electrical, Instrumentation & Control	181	02-Apr-16	08-Nov-16	85	28-Sep-16 A	30-Dec-17	87.94%	-339																																																	
27	ESum226	Building Services Installation (excl. EEC)	125	18-Apr-16	14-Sep-16	123	24-Jun-16 A	14-Feb-18	77.17%	-421																																																	
28	ESum230	Energisation of Switchboards / MCC with SAT	1	28-Jul-16	28-Jul-16	0	02-Feb-17 A	26-May-17 A	100%	-244																																																	
29	Testing & Commissioning and Completion																																																										
30	ESum240	Pre-Commissioning	144	29-Jul-16	19-Jan-17	163	24-Apr-17 A	27-Feb-18	3.11%	-404																																																	
31	ESum250	Process Commissioning, Performance & Acceptance Testing	119	22-Oct-16	16-Mar-17	226	05-Dec-17	18-Jul-18	0%	-489																																																	
32	PS900955	Substantial Completion - 100 Tons/Day	0			0		20-Mar-18																																																			
33	PS900957	Soft Opening / Operation of Plant	0			0		21-Mar-18																																																			
34	KD110310	Remaining Works to Achieve Plant Operation at Full Capacity	0			0		18-Jul-18	0%																																																		
35	KD110330	Plant Operation at Full Capacity	0			0		19-Jul-18*	0%																																																		

#	Activity ID	Activity Name	BL Project Duration	BL Project Start	BL Project Finish	Remaining Duration	Start	Finish	% Complete	Variance - BL Project Finish Date	2015												2016												2017												2018												
											N	D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul				
1	Contract No. EP/SP/61/10 - v1.4, Progress updated on 17Oct17 ***																																																										
2	Preliminary and Site Establishment																																																										
3	ESum110	Preliminary and Site Establishment	217	20-Nov-14	15-Aug-15	0	20-Nov-14 A	19-Oct-16 A	100%	-349																																																	
4	Design																																																										
5	ESum120	Design Criteria and Design Preparation	80	20-Nov-14	27-Feb-15	0	20-Nov-14 A	01-Sep-15 A	100%	-151																																																	
6	ESum130	Detailed Design Submission (DDS) - General, Civil, ABWF and Landscape	289	19-Dec-14	23-Feb-16	28	18-Dec-14 A	24-Nov-17	99.93%	-437																																																	
7	ESum132	Detailed Design Submission (DDS) - Building 1	151	21-Apr-15	25-Nov-15	0	13-Apr-15 A	27-Jul-16 A	100%	-164																																																	
8	ESum134	Detailed Design Submission (DDS) - Building 2	158	12-Mar-15	30-Oct-15	0	12-Mar-15 A	07-Apr-16 A	100%	-106																																																	
9	ESum136	Detailed Design Submission (DDS) - Building 3	103	03-Jun-15	29-Oct-15	0	20-Jul-15 A	30-Mar-16 A	100%	-102																																																	
10	ESum138	Detailed Design Submission (DDS) - Auxilliary Buildings & Facilities	177	10-Feb-15	29-Oct-15	0	11-Feb-15 A	08-Aug-16 A	100%	-191																																																	
11	ESum140	Detailed Design Submission (DDS) - E&M and BS	216	18-Dec-14	04-Nov-15	33	18-Dec-14 A	01-Dec-17	99.85%	-516																																																	
12	Procurement																																																										
13	ESum150	Procurement, Manufacturing, F.A.T., Shipment & Delivery of E&M Systems Equipment	507	12-Feb-15	02-Jul-16	84	01-Mar-15 A	09-Jan-18	99.65%	-556																																																	
14	Construction																																																										
15	ESum160	Construction of Building #1 (Waste Receiving, Pre-treatment & Administration)	178	19-Aug-15	23-Mar-16	0	02-Sep-15 A	06-Sep-17 A	100%	-431																																																	
16	ESum170	Construction of Building #2 (Composting & Maturation, and Link Bridge)	262	23-May-15	11-Apr-16	0	16-Jun-15 A	24-Mar-17 A	100%	-285																																																	
17	ESum175	Construction of Building #3 (Energy Centre)	87	30-Oct-15	15-Feb-16	0	24-Mar-16 A	24-Oct-16 A	100%	-205																																																	
18	ESum180	Construction of Auxilliary Buildings & Facilities	263	13-May-15	31-Mar-16	0	04-May-15 A	02-Sep-17 A	100%	-424																																																	
19	ESum190	ABWF, Finishing and Fitting-out Works to Building #1, #2, #3 and Auxilliary Buildings & Facilities (excl. EEC)	259	23-Dec-15	08-Nov-16	50	21-Mar-16 A	15-Dec-17	81.11%	-328																																																	
20	ESum200	Sitewide, Boundary Wall and Roadworks	326	02-Sep-15	07-Oct-16	57	13-Nov-15 A	23-Dec-17	87.17%	-361																																																	
21	ESum210	Statutory and Utilities Works (excl. Lifting Platform)	148	04-Mar-16	06-Oct-16	55	02-Nov-16 A	21-Dec-17	84.34%	-360																																																	
22	ESum215	Green Roof and Landscaping	129	29-Jul-16	31-Dec-16	54	07-Dec-17	10-Feb-18	0%	-330																																																	
23	E&M and Building Services Installation																																																										
24	ESum220	E&M Installation - Mechanical	164	04-Feb-16	25-Aug-16	93	11-May-16 A	07-Feb-18	93.21%	-432																																																	
25	ESum222	E&M Installation - Piping	144	24-May-16	12-Nov-16	23	28-Nov-16 A	14-Nov-17	96.5%	-297																																																	
26	ESum224	E&M Installation - Electrical, Instrumentation & Control	181	02-Apr-16	08-Nov-16	73	28-Sep-16 A	15-Jan-18	93.29%	-351																																																	
27	ESum226	Building Services Installation (excl. EEC)	125	18-Apr-16	14-Sep-16	113	24-Jun-16 A	06-Mar-18	79.36%	-435																																																	
28	ESum230	Energisation of Switchboards / MCC with SAT	1	28-Jul-16	28-Jul-16	0	02-Feb-17 A	26-May-17 A	100%	-244																																																	
29	Testing & Commissioning and Completion																																																										
30	ESum240	Pre-Commissioning	144	29-Jul-16	19-Jan-17	121	24-Apr-17 A	15-Feb-18	3.74%	-392																																																	
31	ESum250	Process Commissioning, Performance & Acceptance Testing	119	22-Oct-16	16-Mar-17	168	10-Jan-18	26-Jun-18	0%	-467																																																	
32	KD100360	Completion of the Design and the Works including Testing and Commissioning (Extended Completion Date: 10-Jun-2017 noon)	0		16-Mar-17	0		26-Jun-18*	0%	-467																																																	
33	KD100380	Commencement of the Operation	0	17-Mar-17		0	27-Jun-18*		0%	-466																																																	

#	Activity ID	Activity Name	BL Project Duration	BL Project Start	BL Project Finish	Remaining Duration	Start	Finish	% Complete	Variance - BL Project Finish Date	2015												2016												2017												2018												
											N	D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul				
1	Contract No. EP/SP/61/10 - v1.4, Progress updated on 17Nov17 ***																																																										
2	Preliminary and Site Establishment																																																										
3	ESum110	Preliminary and Site Establishment	217	20-Nov-14	15-Aug-15	0	20-Nov-14 A	19-Oct-16 A	100%	-349																																																	
4	Design																																																										
5	ESum120	Design Criteria and Design Preparation	80	20-Nov-14	27-Feb-15	0	20-Nov-14 A	01-Sep-15 A	100%	-151																																																	
6	ESum130	Detailed Design Submission (DDS) - General, Civil, ABWF and Landscape	289	19-Dec-14	23-Feb-16	25	18-Dec-14 A	22-Dec-17	99.22%	-457																																																	
7	ESum132	Detailed Design Submission (DDS) - Building 1	151	21-Apr-15	25-Nov-15	0	13-Apr-15 A	27-Jul-16 A	100%	-164																																																	
8	ESum134	Detailed Design Submission (DDS) - Building 2	158	12-Mar-15	30-Oct-15	0	12-Mar-15 A	07-Apr-16 A	100%	-106																																																	
9	ESum136	Detailed Design Submission (DDS) - Building 3	103	03-Jun-15	29-Oct-15	0	20-Jul-15 A	30-Mar-16 A	100%	-102																																																	
10	ESum138	Detailed Design Submission (DDS) - Auxilliary Buildings & Facilities	177	10-Feb-15	29-Oct-15	0	11-Feb-15 A	08-Aug-16 A	100%	-191																																																	
11	ESum140	Detailed Design Submission (DDS) - E&M and BS	216	18-Dec-14	04-Nov-15	28	18-Dec-14 A	29-Dec-17	98.84%	-534																																																	
12	Procurement																																																										
13	ESum150	Procurement, Manufacturing, F.A.T., Shipment & Delivery of E&M Systems Equipment	507	12-Feb-15	02-Jul-16	83	01-Mar-15 A	08-Feb-18	99.70%	-586																																																	
14	Construction																																																										
15	ESum160	Construction of Building #1 (Waste Receiving, Pre-treatment & Administration)	178	19-Aug-15	23-Mar-16	0	02-Sep-15 A	06-Sep-17 A	100%	-431																																																	
16	ESum170	Construction of Building #2 (Composting & Maturation, and Link Bridge)	262	23-May-15	11-Apr-16	0	16-Jun-15 A	24-Mar-17 A	100%	-285																																																	
17	ESum175	Construction of Building #3 (Energy Centre)	87	30-Oct-15	15-Feb-16	0	24-Mar-16 A	24-Oct-16 A	100%	-205																																																	
18	ESum180	Construction of Auxilliary Buildings & Facilities	263	13-May-15	31-Mar-16	0	04-May-15 A	02-Sep-17 A	100%	-424																																																	
19	ESum190	ABWF, Finishing and Fitting-out Works to Building #1, #2, #3 and Auxilliary Buildings & Facilities (excl. EEC)	259	23-Dec-15	08-Nov-16	24	21-Mar-16 A	15-Dec-17	85.56%	-328																																																	
20	ESum200	Sitewide, Boundary Wall and Roadworks	326	02-Sep-15	07-Oct-16	57	13-Nov-15 A	26-Jan-18	89.48%	-387																																																	
21	ESum210	Statutory and Utilities Works (excl. Lifting Platform)	148	04-Mar-16	06-Oct-16	26	02-Nov-16 A	18-Dec-17	92.48%	-357																																																	
22	ESum215	Green Roof and Landscaping	129	29-Jul-16	31-Dec-16	54	08-Dec-17	12-Feb-18	0%	-331																																																	
23	E&M and Building Services Installation																																																										
24	ESum220	E&M Installation - Mechanical	164	04-Feb-16	25-Aug-16	67	11-May-16 A	07-Feb-18	93.79%	-432																																																	
25	ESum222	E&M Installation - Piping	144	24-May-16	12-Nov-16	11	28-Nov-16 A	30-Nov-17	98.54%	-311																																																	
26	ESum224	E&M Installation - Electrical, Instrumentation & Control	181	02-Apr-16	08-Nov-16	47	28-Sep-16 A	15-Jan-18	96.10%	-351																																																	
27	ESum226	Building Services Installation (excl. EEC)	125	18-Apr-16	14-Sep-16	123	24-Jun-16 A	21-Apr-18	80.00%	-471																																																	
28	ESum230	Energisation of Switchboards / MCC with SAT	1	28-Jul-16	28-Jul-16	0	02-Feb-17 A	26-May-17 A	100%	-244																																																	
29	Testing & Commissioning and Completion																																																										
30	ESum240	Pre-Commissioning	144	29-Jul-16	19-Jan-17	90	24-Apr-17 A	15-Feb-18	7.72%	-392																																																	
31	ESum250	Process Commissioning, Performance & Acceptance Testing	119	22-Oct-16	16-Mar-17	158	20-Jan-18	26-Jun-18	0%	-467																																																	
32	KD100360	Completion of the Design and the Works including Testing and Commissioning (Extended Completion Date: 10-Jun-2017 noon)	0		16-Mar-17	0		26-Jun-18*	0%	-467																																																	
33	KD100380	Commencement of the Operation	0		17-Mar-17	0		27-Jun-18*	0%	-466																																																	