

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	Oct	N	D	J	F	M	A	M	J	Jul	A	S	Oct	N	D	J	F	M	A	M	J	Jul	A	S	Oct	N	D	J	F	M	A							
1	Contract No. EP/SP/61/10 - v1.4, Progress updated on 17Jun17 ***																																																										
2	Preliminary and Site Establishment																																																										
3	ESum110	Preliminary and Site Establishment	217d	20-Nov-14	15-Aug-15	0d	20-Nov-14 A	19-Oct-16 A	100%	-349d																																																	
4	Design																																																										
5	ESum120	Design Criteria and Design Preparation	80d	20-Nov-14	27-Feb-15	0d	20-Nov-14 A	01-Sep-15 A	100%	-151d																																																	
6	ESum130	Detailed Design Submission (DDS) - General, Civil, ABWF and Landscape	289d	19-Dec-14	23-Feb-16	48d	18-Dec-14 A	23-Aug-17	99.91%	-372d																																																	
7	ESum132	Detailed Design Submission (DDS) - Building 1	151d	21-Apr-15	25-Nov-15	0d	13-Apr-15 A	27-Jul-16 A	100%	-164d																																																	
8	ESum134	Detailed Design Submission (DDS) - Building 2	158d	12-Mar-15	30-Oct-15	0d	12-Mar-15 A	07-Apr-16 A	100%	-106d																																																	
9	ESum136	Detailed Design Submission (DDS) - Building 3	103d	03-Jun-15	29-Oct-15	0d	20-Jul-15 A	30-Mar-16 A	100%	-102d																																																	
10	ESum138	Detailed Design Submission (DDS) - Auxilliary Buildings & Facilities	177d	10-Feb-15	29-Oct-15	0d	11-Feb-15 A	08-Aug-16 A	100%	-191d																																																	
11	ESum140	Detailed Design Submission (DDS) - E&M and BS	216d	18-Dec-14	04-Nov-15	41d	18-Dec-14 A	14-Aug-17	99.8%	-439d																																																	
12	Procurement																																																										
13	ESum150	Procurement, Manufacturing, F.A.T., Shipment & Delivery of E&M Systems Equipment	507d	12-Feb-15	02-Jul-16	82d	01-Mar-15 A	07-Sep-17	97.89%	-432d																																																	
14	Construction																																																										
15	ESum160	Construction of Building #1 (Waste Receiving, Pre-treatment & Administration)	178d	19-Aug-15	23-Mar-16	29d	02-Sep-15 A	22-Jul-17	99.31%	-392d																																																	
16	ESum170	Construction of Building #2 (Composting & Maturation, and Link Bridge)	262d	23-May-15	11-Apr-16	0d	16-Jun-15 A	24-Mar-17 A	100%	-285d																																																	
17	ESum175	Construction of Building #3 (Energy Centre)	87d	30-Oct-15	15-Feb-16	0d	24-Mar-16 A	24-Oct-16 A	100%	-205d																																																	
18	ESum180	Construction of Auxilliary Buildings & Facilities	263d	13-May-15	31-Mar-16	35d	04-May-15 A	29-Jul-17	97.26%	-394d																																																	
19	ESum190	ABWF, Finishing and Fitting-out Works to Building #1, #2, #3 and Auxilliary Buildings & Facilities	259d	23-Dec-15	08-Nov-16	133d	21-Mar-16 A	24-Nov-17	71.74%	-310d																																																	
20	ESum200	Sitewide, Boundary Wall and Roadworks	326d	02-Sep-15	07-Oct-16	81d	13-Nov-15 A	21-Sep-17	74.58%	-284d																																																	
21	ESum210	Statutory and Utilities Works	148d	04-Mar-16	06-Oct-16	135d	02-Nov-16 A	27-Nov-17	60.48%	-339d																																																	
22	ESum215	Green Roof and Landscaping	129d	29-Jul-16	31-Dec-16	102d	02-Sep-17	05-Jan-18	74.58%	-299d																																																	
23	E&M and Building Services Installation																																																										
24	ESum220	E&M Installation - Mechanical	164d	04-Feb-16	25-Aug-16	89d	11-May-16 A	30-Sep-17	81.86%	-327d																																																	
25	ESum222	E&M Installation - Piping	144d	24-May-16	12-Nov-16	80d	28-Nov-16 A	20-Sep-17	63.41%	-253d																																																	
26	ESum224	E&M Installation - Electrical, Instrumentation & Control	181d	02-Apr-16	08-Nov-16	89d	28-Sep-16 A	30-Sep-17	52.61%	-266d																																																	
27	ESum226	Building Services Installation	125d	18-Apr-16	14-Sep-16	114d	24-Jun-16 A	02-Nov-17	62.79%	-335d																																																	
28	ESum230	Energisation of Switchboards / MCC with SAT	1d	28-Jul-16	28-Jul-16	0d	02-Feb-17 A	26-May-17 A	100%	-244d																																																	
29	Testing & Commissioning and Completion																																																										
30	ESum240	Pre-Commissioning	144d	29-Jul-16	19-Jan-17	126d	24-Apr-17 A	21-Oct-17	5%	-275d																																																	
31	ESum250	Process Commissioning, Performance & Acceptance Testing	119d	22-Oct-16	16-Mar-17	163d	20-Oct-17	31-Mar-18	0%	-380d																																																	
32	PS900955	Substantial Completion - 100 Tons/Day	0d			0d		29-Nov-17*																																																			
33	PS900957	Soft Opening / Operation of Plant	0d			0d		30-Nov-17*																																																			
34	KD110310	Remaining Works to Achieve Plant Operation at Full Capacity	0d			0d		31-Mar-18*																																																			
35	KD110330	Plant Operation at Full Capacity	0d			0d		01-Apr-18*																																																			

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1	Contract No. EP/SP/61/10 - v1.4, Progress updated on 17Jul17 ***																																																										
2	Preliminary and Site Establishment																																																										
3	ESum110	Preliminary and Site Establishment	217d	20-Nov-14	15-Aug-15	0d	20-Nov-14 A	19-Oct-16 A	100%	-349d																																																	
4	Design																																																										
5	ESum120	Design Criteria and Design Preparation	80d	20-Nov-14	27-Feb-15	0d	20-Nov-14 A	01-Sep-15 A	100%	-151d																																																	
6	ESum130	Detailed Design Submission (DDS) - General, Civil, ABWF and Landscape	289d	19-Dec-14	23-Feb-16	46d	18-Dec-14 A	19-Sep-17	99.93%	-391d																																																	
7	ESum132	Detailed Design Submission (DDS) - Building 1	151d	21-Apr-15	25-Nov-15	0d	13-Apr-15 A	27-Jul-16 A	100%	-164d																																																	
8	ESum134	Detailed Design Submission (DDS) - Building 2	158d	12-Mar-15	30-Oct-15	0d	12-Mar-15 A	07-Apr-16 A	100%	-106d																																																	
9	ESum136	Detailed Design Submission (DDS) - Building 3	103d	03-Jun-15	29-Oct-15	0d	20-Jul-15 A	30-Mar-16 A	100%	-102d																																																	
10	ESum138	Detailed Design Submission (DDS) - Auxilliary Buildings & Facilities	177d	10-Feb-15	29-Oct-15	0d	11-Feb-15 A	08-Aug-16 A	100%	-191d																																																	
11	ESum140	Detailed Design Submission (DDS) - E&M and BS	216d	18-Dec-14	04-Nov-15	49d	18-Dec-14 A	22-Sep-17	99.85%	-468d																																																	
12	Procurement																																																										
13	ESum150	Procurement, Manufacturing, F.A.T., Shipment & Delivery of E&M Systems Equipment	507d	12-Feb-15	02-Jul-16	105d	01-Mar-15 A	30-Oct-17	99.02%	-485d																																																	
14	Construction																																																										
15	ESum160	Construction of Building #1 (Waste Receiving, Pre-treatment & Administration)	178d	19-Aug-15	23-Mar-16	35d	02-Sep-15 A	26-Aug-17	99.59%	-422d																																																	
16	ESum170	Construction of Building #2 (Composting & Maturation, and Link Bridge)	262d	23-May-15	11-Apr-16	0d	16-Jun-15 A	24-Mar-17 A	100%	-285d																																																	
17	ESum175	Construction of Building #3 (Energy Centre)	87d	30-Oct-15	15-Feb-16	0d	24-Mar-16 A	24-Oct-16 A	100%	-205d																																																	
18	ESum180	Construction of Auxilliary Buildings & Facilities	263d	13-May-15	31-Mar-16	30d	04-May-15 A	21-Aug-17	98%	-413d																																																	
19	ESum190	ABWF, Finishing and Fitting-out Works to Building #1, #2, #3 and Auxilliary Buildings & Facilities	259d	23-Dec-15	08-Nov-16	159d	21-Mar-16 A	25-Jan-18	71.75%	-360d																																																	
20	ESum200	Sitewide, Boundary Wall and Roadworks	326d	02-Sep-15	07-Oct-16	53d	13-Nov-15 A	16-Sep-17	75.49%	-280d																																																	
21	ESum210	Statutory and Utilities Works	148d	04-Mar-16	06-Oct-16	153d	02-Nov-16 A	18-Jan-18	68.44%	-381d																																																	
22	ESum215	Green Roof and Landscaping	129d	29-Jul-16	31-Dec-16	102d	21-Sep-17	24-Jan-18	0%	-315d																																																	
23	E&M and Building Services Installation																																																										
24	ESum220	E&M Installation - Mechanical	164d	04-Feb-16	25-Aug-16	60d	11-May-16 A	25-Sep-17	85.83%	-322d																																																	
25	ESum222	E&M Installation - Piping	144d	24-May-16	12-Nov-16	52d	28-Nov-16 A	15-Sep-17	73.62%	-249d																																																	
26	ESum224	E&M Installation - Electrical, Instrumentation & Control	181d	02-Apr-16	08-Nov-16	110d	28-Sep-16 A	25-Nov-17	65.23%	-311d																																																	
27	ESum226	Building Services Installation	125d	18-Apr-16	14-Sep-16	132d	24-Jun-16 A	21-Dec-17	64.46%	-377d																																																	
28	ESum230	Energisation of Switchboards / MCC with SAT	1d	28-Jul-16	28-Jul-16	0d	02-Feb-17 A	26-May-17 A	100%	-244d																																																	
29	Testing & Commissioning and Completion																																																										
30	ESum240	Pre-Commissioning	144d	29-Jul-16	19-Jan-17	96d	24-Apr-17 A	21-Oct-17	5%	-275d																																																	
31	ESum250	Process Commissioning, Performance & Acceptance Testing	119d	22-Oct-16	16-Mar-17	160d	23-Oct-17	31-Mar-18	0%	-380d																																																	
32	PS900955	Substantial Completion - 100 Tons/Day	0d			0d		29-Nov-17																																																			
33	PS900957	Soft Opening / Operation of Plant	0d			0d		30-Nov-17																																																			
34	KD110310	Remaining Works to Achieve Plant Operation at Full Capacity	0d			0d		31-Mar-18*	0%																																																		
35	KD110330	Plant Operation at Full Capacity	0d			0d		01-Apr-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				
1	Contract No. EP/SP/61/10 - v1.4, Progress updated on 17Aug17 ***																																																									
2	Preliminary and Site Establishment																																																									
3	ESum110	Preliminary and Site Establishment	217d	20-Nov-14	15-Aug-15	0d	20-Nov-14 A	19-Oct-16 A	100%	-349d																																																
4	Design																																																									
5	ESum120	Design Criteria and Design Preparation	80d	20-Nov-14	27-Feb-15	0d	20-Nov-14 A	01-Sep-15 A	100%	-151d																																																
6	ESum130	Detailed Design Submission (DDS) - General, Civil, ABWF and Landscape	289d	19-Dec-14	23-Feb-16	44d	18-Dec-14 A	20-Oct-17	99.93%	-412d																																																
7	ESum132	Detailed Design Submission (DDS) - Building 1	151d	21-Apr-15	25-Nov-15	0d	13-Apr-15 A	27-Jul-16 A	100%	-164d																																																
8	ESum134	Detailed Design Submission (DDS) - Building 2	158d	12-Mar-15	30-Oct-15	0d	12-Mar-15 A	07-Apr-16 A	100%	-106d																																																
9	ESum136	Detailed Design Submission (DDS) - Building 3	103d	03-Jun-15	29-Oct-15	0d	20-Jul-15 A	30-Mar-16 A	100%	-102d																																																
10	ESum138	Detailed Design Submission (DDS) - Auxilliary Buildings & Facilities	177d	10-Feb-15	29-Oct-15	0d	11-Feb-15 A	08-Aug-16 A	100%	-191d																																																
11	ESum140	Detailed Design Submission (DDS) - E&M and BS	216d	18-Dec-14	04-Nov-15	55d	18-Dec-14 A	06-Nov-17	99.85%	-497d																																																
12	Procurement																																																									
13	ESum150	Procurement, Manufacturing, F.A.T., Shipment & Delivery of E&M Systems Equipment	507d	12-Feb-15	02-Jul-16	104d	01-Mar-15 A	29-Nov-17	99.29%	-515d																																																
14	Construction																																																									
15	ESum160	Construction of Building #1 (Waste Receiving, Pre-treatment & Administration)	178d	19-Aug-15	23-Mar-16	25d	02-Sep-15 A	15-Sep-17	99.87%	-439d																																																
16	ESum170	Construction of Building #2 (Composting & Maturation, and Link Bridge)	262d	23-May-15	11-Apr-16	0d	16-Jun-15 A	24-Mar-17 A	100%	-285d																																																
17	ESum175	Construction of Building #3 (Energy Centre)	87d	30-Oct-15	15-Feb-16	0d	24-Mar-16 A	24-Oct-16 A	100%	-205d																																																
18	ESum180	Construction of Auxiliary Buildings & Facilities	263d	13-May-15	31-Mar-16	22d	04-May-15 A	12-Sep-17	99.1%	-432d																																																
19	ESum190	ABWF, Finishing and Fitting-out Works to Building #1, #2, #3 and Auxiliary Buildings & Facilities (excl. EEC)	259d	23-Dec-15	08-Nov-16	65d	21-Mar-16 A	04-Nov-17	71.95%	-293d																																																
20	ESum200	Sitewide, Boundary Wall and Roadworks	326d	02-Sep-15	07-Oct-16	61d	13-Nov-15 A	31-Oct-17	77.23%	-315d																																																
21	ESum210	Statutory and Utilities Works (excl. Lifting Platform)	148d	04-Mar-16	06-Oct-16	87d	02-Nov-16 A	30-Nov-17	73.35%	-342d																																																
22	ESum215	Green Roof and Landscaping	129d	29-Jul-16	31-Dec-16	85d	16-Oct-17	26-Jan-18	0%	-317d																																																
23	E&M and Building Services Installation																																																									
24	ESum220	E&M Installation - Mechanical	164d	04-Feb-16	25-Aug-16	65d	11-May-16 A	04-Nov-17	90.32%	-354d																																																
25	ESum222	E&M Installation - Piping	144d	24-May-16	12-Nov-16	38d	28-Nov-16 A	30-Sep-17	81.7%	-262d																																																
26	ESum224	E&M Installation - Electrical, Instrumentation & Control	181d	02-Apr-16	08-Nov-16	83d	28-Sep-16 A	25-Nov-17	76.42%	-311d																																																
27	ESum226	Building Services Installation (excl. EEC)	125d	18-Apr-16	14-Sep-16	131d	24-Jun-16 A	24-Jan-18	67.8%	-403d																																																
28	ESum230	Energisation of Switchboards / MCC with SAT	1d	28-Jul-16	28-Jul-16	0d	02-Feb-17 A	26-May-17 A	100%	-244d																																																
29	Testing & Commissioning and Completion																																																									
30	ESum240	Pre-Commissioning	144d	29-Jul-16	19-Jan-17	99d	24-Apr-17 A	24-Nov-17	5%	-309d																																																
31	ESum250	Process Commissioning, Performance & Acceptance Testing	119d	22-Oct-16	16-Mar-17	196d	16-Nov-17	30-May-18	0%	-440d																																																
32	PS900955	Substantial Completion - 100 Tons/Day	0d			0d		31-Jan-18																																																		
33	PS900957	Soft Opening / Operation of Plant	0d			0d	01-Feb-18																																																			
34	KD110310	Remaining Works to Achieve Plant Operation at Full Capacity	0d			0d		30-May-18	0%																																																	
35	KD110330	Plant Operation at Full Capacity	0d			0d	31-May-18*		0%																																																	