Tentative Construction Programme

Location	Phase #	Area (m2)	Year 2021												Year 2022												Year 2023												Year 2024												Year 2025												Year 2026												Year 2027											
			1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Phase 1	P1a1_1	16,537
	P1a2_1	51,632
	P1b1_1	28,720
	P1b2_1	7,965
	P1b3_1	3,354
Phase 2	P2a1_1	43,394
	P2a2_1	9,122
	P2b1_1	27,194
	P2b1_2	44,057
	P2b1_3	71,866
	P2b1_4	26,323
	P2b1_5	49,563
	P2b1_6	62,631
	P2b2_1	2,760
	P2b2_2	59,923
	P2b2_3	52,075
	P2b2_4	100,659
	P2b2_5	18,746
	P2b2_6	18,769
	P2c1_1	44,485
	P2c1_2	56,892
	P2c1_3	6,601
	P2d1_1	36,263
	P2d1_2	6,176
	P2d1_3	14,157
	P2e1_1	72,277
	P2e1_2	53,267
Phase 3	P3a1_1	61,408
	P3a1_2	56,159
	P3a1_3	81,643
	P3a1_4	61,901
	P3a1_5	88,639
	P3a1_6	78,074
	P3a1_7	68,602
	P3a1_8	53,699
	P3a1_9	64,346
	P3a1_10	75,765
Phase 4	P4a1_1	50,000
	P4a1_2	47,983
	P4a1_3	13,509
	P4a1_4	31,666
	P4a1_5	39,297
	P4a1_6	19,041
	P4a1_7	27,317
	P4a1_8	21,016
	P4a1_9	31,186
	P4a1_10	23,174
	P4a1_11	12,120
	P4a1_12	50,777
	P4a1_13	10,397
	P4a1_14	34,000
	P4b1_1	25,935

Note:

Heavy Construction + Wind Erosion
Wind Erosion
Superstructure Construction
Road Works

Summary of Annual Dust Emission

Area		Year 2021	Year 2022	Year 2023	Year 2024	Year 2025	Year 2026	Year 2027
Phase 1		0	53	121	296	166	16	0
		0	1	3	8	4	0	0
		0	**55**	**124**	**304**	**171**	**16**	**0**
Phase 2		0	0	70	191	321	248	400
		0	0	2	5	11	18	14
		0	**0**	**72**	**197**	**332**	**266**	**413**
Phase 3		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
		0	**0**	**0**	**0**	**0**	**0**	**0**
Phase 4		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
		0	**0**	**0**	**0**	**0**	**0**	**0**
Total		0	53	191	487	487	264	400
		0	1	5	13	15	18	14
		0	**55**	**196**	**500**	**502**	**282**	**413**

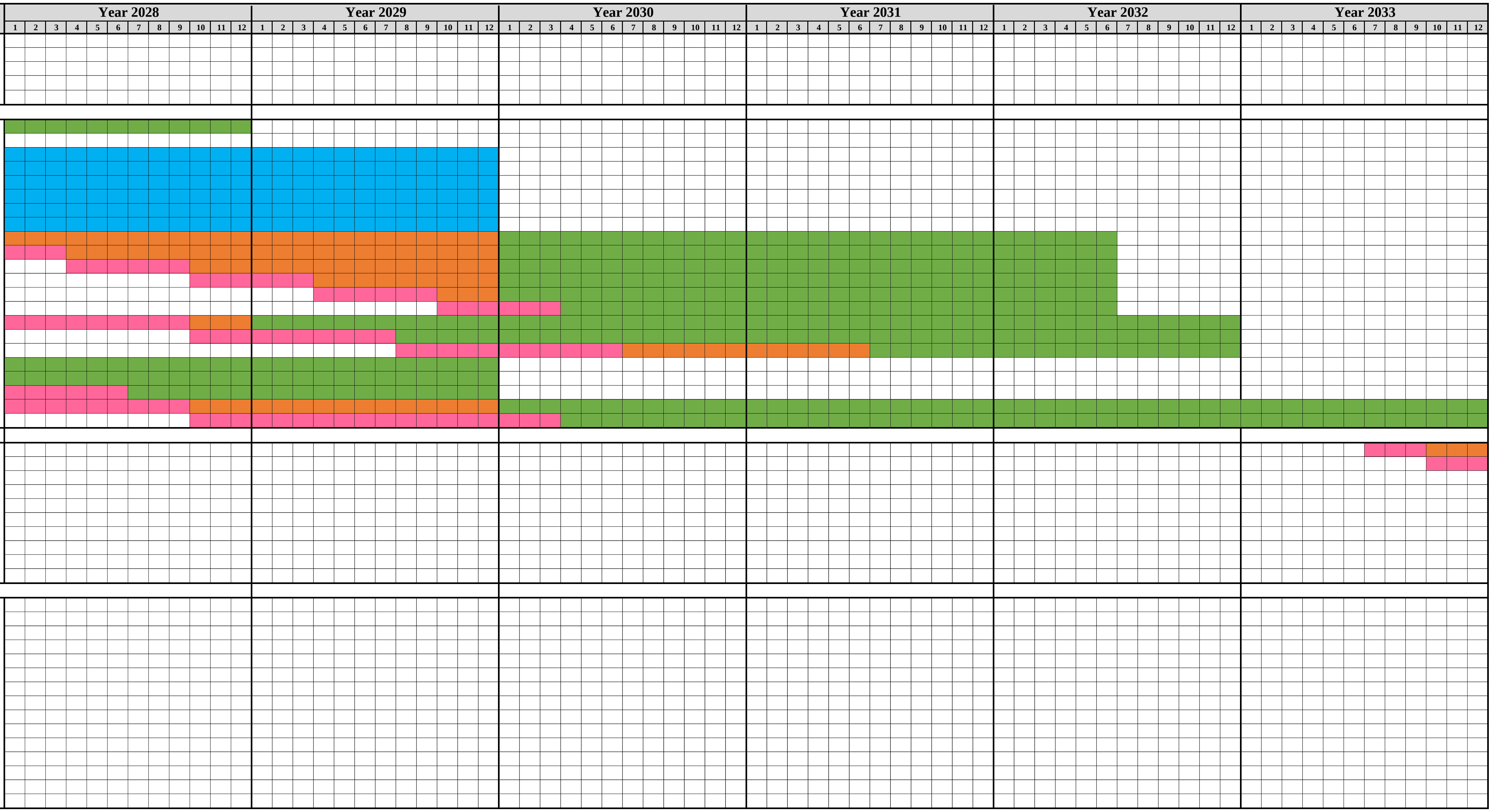
Note: Emission Factor =

Heavy Construction: 2.69E-04 ton/m^2/month

Wind Erosion: 7.08 E-06 ton/m^2/month

Tentative Construction Programme

Location	Phase #	Area (m2)
Phase 1	P1a1_1	16,537
	P1a2_1	51,632
	P1b1_1	28,720
	P1b2_1	7,965
	P1b3_1	3,354
Phase 2	P2a1_1	43,394
	P2a2_1	9,122
	P2b1_1	27,194
	P2b1_2	44,057
	P2b1_3	71,866
	P2b1_4	26,323
	P2b1_5	49,563
	P2b1_6	62,631
	P2b2_1	2,760
	P2b2_2	59,923
	P2b2_3	52,075
	P2b2_4	100,659
	P2b2_5	18,746
	P2b2_6	18,769
	P2c1_1	44,485
	P2c1_2	56,892
	P2c1_3	6,601
	P2d1_1	36,263
	P2d1_2	6,176
	P2d1_3	14,157
	P2e1_1	72,277
	P2e1_2	53,267
Phase 3	P3a1_1	61,408
	P3a1_2	56,159
	P3a1_3	81,643
	P3a1_4	61,901
	P3a1_5	88,639
	P3a1_6	78,074
	P3a1_7	68,602
	P3a1_8	53,699
	P3a1_9	64,346
	P3a1_10	75,765
Phase 4	P4a1_1	50,000
	P4a1_2	47,983
	P4a1_3	13,509
	P4a1_4	31,666
	P4a1_5	39,297
	P4a1_6	19,041
	P4a1_7	27,317
	P4a1_8	21,016
	P4a1_9	31,186
	P4a1_10	23,174
	P4a1_11	12,120
	P4a1_12	50,777
	P4a1_13	10,397
	P4a1_14	34,000
	P4b1_1	25,935



Note:
- Heavy Construction + Wind Erosion
- Wind Erosion
- Superstructure Construc
- Road Works

Summary of Annual Dust Emission

Area		Year 2028	Year 2029	Year 2030	Year 2031	Year 2032	Year 2033
Phase 1		0	0	0	0	0	0
		0	0	0	0	0	0
		0	**0**	**0**	**0**	**0**	**0**
Phase 2		608	415	69	0	0	0
		24	34	2	0	0	0
		632	**448**	**71**	**0**	**0**	**0**
Phase 3		0	0	0	0	0	95
		0	0	0	0	0	4
		0	**0**	**0**	**0**	**0**	**99**
Phase 4		0	0	0	0	0	0
		0	0	0	0	0	0
		0	**0**	**0**	**0**	**0**	**0**
Total		608	415	69	0	0	95
		24	34	2	0	0	4
		632	**448**	**71**	**0**	**0**	**99**

Note: Emission Factor =

Heavy Construction: 2.69E-04 ton/m^2/month

Wind Erosion: 7.08 E-06 ton/m^2/month

Tentative Construction Programme

Year 2034	Year 2035	Year 2036	Year 2037	Year 2038	Year 2039
1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12

Location	Phase #	Area (m2)	No. of Month	Construction Rate (m2/day)
Phase 1	**P1a1_1**	16,537	24	27
	P1a2_1	51,632	18	110
	P1b1_1	28,720	24	46
	P1b2_1	7,965	36	9
	P1b3_1	3,354	36	4
Phase 2	**P2a1_1**	43,394	30	56
	P2a2_1	9,122	30	12
	P2b1_1	27,194	6	174
	P2b1_2	44,057	6	282
	P2b1_3	71,866	6	461
	P2b1_4	26,323	6	169
	P2b1_5	49,563	6	318
	P2b1_6	62,631	6	401
	P2b2_1	2,760	6	18
	P2b2_2	59,923	6	384
	P2b2_3	52,075	6	334
	P2b2_4	100,659	6	645
	P2b2_5	18,746	6	120
	P2b2_6	18,769	6	120
	P2c1_1	44,485	9	190
	P2c1_2	56,892	10	219
	P2c1_3	6,601	11	23
	P2d1_1	36,263	9	155
	P2d1_2	6,176	10	24
	P2d1_3	14,157	11	50
	P2e1_1	72,277	18	154
	P2e1_2	53,267	18	114
Phase 3	**P3a1_1**	61,408	3	787
	P3a1_2	56,159	3	720
	P3a1_3	81,643	3	1047
	P3a1_4	61,901	3	794
	P3a1_5	88,639	3	1136 *
	P3a1_6	78,074	3	1001
	P3a1_7	68,602	3	880
	P3a1_8	53,699	3	688
	P3a1_9	64,346	3	825
	P3a1_10	75,765	3	971
Phase 4	**P4a1_1**	50,000	2	962
	P4a1_2	47,983	2	923
	P4a1_3	13,509	2	260
	P4a1_4	31,666	2	609
	P4a1_5	39,297	2	756
	P4a1_6	19,041	2	366
	P4a1_7	27,317	2	525
	P4a1_8	21,016	2	404
	P4a1_9	31,186	2	600
	P4a1_10	23,174	2	446
	P4a1_11	12,120	2	233
	P4a1_12	50,777	2	976
	P4a1_13	10,397	2	200
	P4a1_14	34,000	2	654
	P4b1_1	25,935	2	499

Note * An active construction area of 2,500m2/day is a conservative assumption for Tier 2 assessmnet. Refer locations to Appendix 4.1.

Note:
- Heavy Construction + Wind Erosion
- Wind Erosion
- Superstructure Construc
- Road Works

Summary of Annual Dust Emission

Area		Year 2034	Year 2035	Year 2036	Year 2037	Year 2038	Year 2039
Phase 1		0	0	0	0	0	0
		0	0	0	0	0	0
		0	**0**	**0**	**0**	**0**	**0**
Phase 2		0	0	0	0	0	0
		0	0	0	0	0	0
		0	**0**	**0**	**0**	**0**	**0**
Phase 3		250	212	0	0	0	0
		26	19	0	0	0	0
		277	**231**	**0**	**0**	**0**	**0**
Phase 4		102	175	160	0	0	0
		5	20	4	0	0	0
		107	**195**	**164**	**0**	**0**	**0**
Total		352	387	160	0	0	0
		31	39	4	0	0	0
		383	**426**	**164**	**0**	**0**	**0**

Note: Emission Factor =

Heavy Construction: 2.69E-04 ton/m^2/month

Wind Erosion: 7.08 E-06 ton/m^2/month