

Chapter 13 MATERIAL ASSETS – TRAFFIC

- **Appendix 13.3 Individual Tower Traffic Generation**

Stage	Activity	Vehicle	Quantity	Movements	Day 1		Day 2		Day 3		Day 4		Day 5		Day 6		Day 7		Total Generated Traffic (Worst Case)			Maximum Daily Generated Traffic (Worst Case)			Total Generated Traffic (Best Case)			Maximum Daily Generated Traffic (Best Case)		
					LGV	HGV	LGV	HGV	LGV	HGV	LGV	HGV	LGV	HGV	LGV	HGV	LGV	HGV	LGV	HGV	Total	LGV	HGV	Total	LGV	HGV	Total	LGV	HGV	Total
1 - Setting Out/Access Routes	Delivery of wheeled or tracked dumper	Tractor with low loader trailer carrying dumper			0	2													0	2	2				0	2	2			
	Delivery of 360 degree excavator (13 tonnes) or rock breaker (22 tonnes)	Tractor with low loader trailer carrying excavator			0	2													0	2	2				0	2	2			
	Arrival of 4 x 4 vehicle	4 x 4 vehicle			0	1													0	1	1				0	1	1			
	Arrival/Departure of staff	Transit Van (3 per vehicle)	3 staff		2	0													2	0	2				2	0	2			
					2	5												2	5	7	2	5	7	2	5	7	2	5	7	
2 - Tower Foundations	Concrete Filling of Foundations	Concrete Delivery Vehicle (8m3) (17m3 per leg worst case, 6.5m3 per leg best case)	48m3	12	0	0	0	6	0	6	0	0							0	12	12				0	12	12			
	Removal of Excavated Material	20 Tonne Dump Truck (Worst case includes removal of all excavated material, Best Case includes material remaining on site)	100 Tonnes	10	0	0	0	0	0	0	0	10							0	10	10				0	0	0			
	Arrival/Departure of staff	Transit Van (3 per vehicle)	6 staff		4	0	4	0	4	0	4	0							16	0	16				16	0	16			
					4	0	4	6	4	6	4	10						16	22	38	4	10	14	16	12	28	4	6	10	
3 - Tower Erection	Delivery of steel	Hiab Lorry			0	2	0	2	0	2									0	6	6				0	6	6			
	Tractor and Trailer for transport of steel from access to tower	Tractor and Trailer			0	1	0	0	0	0									0	1	1				0	1	1			
	Delivery of Derrick Pole	Tractor with low loader trailer			0	2	0	0	0	0									0	2	2				0	2	2			
	Delivery of Teleporter	Tractor with low loader trailer			0	2	0	0	0	0									0	2	2				0	2	2			
	Removal of Derrick Pole	Tractor with low loader trailer			0	0	0	0	0	0	2								0	2	2				0	2	2			
	Arrival/Departure of staff	Transit Van (3 per vehicle)	7 staff		6	0	6	0	6	0									18	0	18				18	0	18			
					6	7	6	2	6	4	0	0						18	13	31	6	7	13	18	13	31	6	7	13	
4 - Stringing	Delivery of Teleporter	Tractor with low loader trailer			0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2				0	2	2			
	Delivery of stringing wheels, compressor and heads	Tractor with low loader trailer			0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2				0	2	2			
	Removal of 2No. Teleporters	Tractor with low loader trailer			0	0	0	0	0	0	0	0	0	0	0	0	4	0	4	4				0	4	4				
	Removal of stringing wheels, compressor and heads	Tractor with low loader trailer			0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2				0	2	2				
	Removal of Tractor and Trailer	Tractor and Trailer			0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1				0	1	1				
	Arrival/Departure of staff	Transit Van (3 per vehicle)	15 staff		10	0	10	0	10	0	10	0	10	0	10	0	10	0	70	0	70				70	0	70			
					10	4	10	0	10	0	10	0	10	0	10	7	70	11	81	10	7	17	70	11	81	10	7	17		
5 - Reinstatement & Completion	Removal of wheeled or tracked dumper	Tractor with low loader trailer			0	2													0	2	2				0	2	2			
	Removal of 360 degree excavator (13 tonnes) or rock breaker (22 tonnes)	Tractor with low loader trailer			0	2													0	2	2				0	2	2			
	Departure of 4 x 4 vehicle	4 x 4 vehicle			0	1													0	1	1				0	1	1			
	Arrival/Departure of staff	Transit Van (3 per vehicle)	3 staff		2	0													2	0	2				2	0	2			
					2	5	0	0	0	0	0	0	0	0	0	0	0	2	5	7	2	5	7	2	5	7	2	5	7	
																		108	56	164	10	10	17	108	46	154	10	7	17	

North South 400kV Interconnection Interconnection Development
Angle Tower Traffic Generation

Stage	Activity	Vehicle	Quantity	Movements	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Total Generated Traffic			Maximum Daily Generated Traffic			Total Generated Traffic (Best Case)			Maximum Daily Generated Traffic (Best Case)										
					LGV	HGV	LGV	HGV	LGV	HGV	LGV	HGV	LGV	HGV	LGV	HGV	Total	LGV	HGV	Total	LGV	HGV	Total	LGV	HGV	Total					
1 - Setting Out/Access Routes	Delivery of wheeled or tracked dumper	Tractor with low loader trailer carrying dumper			0	2									0	2	2				0	2	2								
	Delivery of 360 degree excavator (13 tonnes) or rock breaker (22 tonnes)	Tractor with low loader trailer carrying excavator			0	2									0	2	2				0	2	2								
	Arrival of 4 x 4 vehicle	4 x 4 vehicle			0	1									0	1	1				0	1	1								
	Arrival/Departure of staff	Transit Van (3 per vehicle)	3 staff		2	0									2	0	2				2	0	2								
					2	5									2	5	7	2	5	7	2	5	7	2	5	7					
2 - Tower Foundations	Concrete Filling of Foundations	Concrete Delivery Vehicle (8m3) (66m3 per leg worst case, 233m3 per leg best case)	364 m3	92	0	0	0	23	0	23	0	23	0	23	0	0				0	92	92									
	Removal of Excavated Material	20 Tonne Dump Truck (Worst case includes removal of all excavated material, Best Case includes material remaining on site)	764 Tonnes	76	0	0	0	0	0	19	0	19	0	19	0	19				0	76	76									
	Arrival/Departure of staff	Transit Van (3 per vehicle)	6 staff		4	0	4	0	4	0	4	0	4	0	4	0				24	0	24									
					4	0	4	23	4	42	4	42	4	42	4	19				24	168	192	4	42	46	24	92	116	4	23	27
3 - Tower Erection	Delivery of steel	Hiab Lorry			0	2	0	2	0	2	0	2							0	8	8										
	Tractor and Trailer for transport of steel from access to tower	Tractor and Trailer			0	1	0	0	0	0	0	0							0	1	1										
	Delivery of Derrick Pole	Tractor with low loader trailer			0	2	0	0	0	0	0	2							0	4	4										
	Delivery of Teleporter	Tractor with low loader trailer			0	2	0	0	0	0	0	2							0	4	4										
	Removal of Derrick Pole	Tractor with low loader trailer			0	0	0	0	0	2	0	2							0	4	4										
	Arrival/Departure of staff	Transit Van (3 per vehicle)	7 staff		6	0	6	0	6	0	6	0							24	0	24										
					6	7	6	2	6	4	6	8							24	21	45	6	8	14	24	21	45	6	8	14	
4 - Stringing	Delivery of 2No. puller-tensioners	Tractor with low loader trailer			0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2				0	2	2				
	Delivery of Teleporter	Tractor with low loader trailer			0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2				0	2	2				
	Delivery of conductor drums	Tractor with low loader trailer			0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2				0	2	2				
	Delivery of stringing wheels, compressor and heads	Tractor with low loader trailer			0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2				0	2	2				
	Removal of 2No. Puller-tensioners	Tractor with low loader trailer			0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2				0	2	2				
	Removal of 2No. Teleporters	Tractor with low loader trailer			0	0	0	0	0	0	0	0	0	0	0	0	4	0	4	4				0	4	4					
	Removal of empty conductor drums	Tractor with low loader trailer			0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2				0	2	2					
	Removal of stringing wheels, compressor and heads	Tractor with low loader trailer			0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2				0	2	2					
	Removal of Tractor and Trailer	Tractor and Trailer			0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1				0	1	1					
	Arrival/Departure of staff	Transit Van (3 per vehicle)	15 staff		10	0	10	0	10	0	10	0	10	0	10	0	10	0	10	70	0	70				70	0	70			
					10	8	10	0	10	0	10	0	10	0	10	11	70	19	89	10	11	21	70	19	89	10	11	21			
5 - Reinstatement & Completion	Removal of wheeled or tracked dumper	Tractor with low loader trailer			0	2													0	2	2				0	2	2				
	Removal of 360 degree excavator (13 tonnes) or rock breaker (22 tonnes)	Tractor with low loader trailer			0	2													0	2	2				0	2	2				
	Departure of 4 x 4 vehicle	4 x 4 vehicle			0	1													0	1	1				0	1	1				
	Arrival/Departure of staff	Transit Van (3 per vehicle)	3 staff		2	0													2	0	2				2	0	2				
					2	5	0	0	0	0	0	0	0	0	0	0				2	5	7	2	5	7	2	5	7			
																			122	218	340	10	42	46	122	142	264	10	23	27	