

Appendix H – Calculation of carbon footprint of my floral art, and comparison with carbon footprint of fresh cut flowers

Component 1 (hair accessory)			
Material	Quantity used in floral art (y)	Carbon footprint for 1 kg of material (z)	Carbon footprint for quantity used (y x z)
Pumpkin seeds	5 grams= 0.005 kgs.	0.14 kgs.	0.0007 kgs.
Sago	5 grams= 0.005 kgs.	0.1 kg.	0.0005 kgs.
Mustard seeds	2 grams= 0.002 kgs.	2.9 kgs.	0.0058 kgs.
Wooden box	500 grams= 0.5 kgs.	0.5 kgs.	0.25 kgs.
Copper wire	0.14 kgs.	0.2 kgs.	0.028 kgs.
Total carbon footprint for Component 1			0.285 kgs.
Component 2 (landscape)			
Coriander seeds	20 grams = 0.02 kgs.	1.6 kgs.	0.032 kgs.
Fennel seeds	15 grams = 0.015 kgs.	1.6 kgs.	0.024 kgs.
Clove	10 grams= 0.01 kgs.	1.6 kgs.	0.016 kgs.
Cumin seeds	15 grams = 0.015 kgs.	1.6 kgs.	0.024 kgs.
Cinnamon stick	40 grams= 0.04 kgs.	1.6 kgs.	0.064 kgs.
Whole black pepper	25 grams = 0.025 kgs.	2.5 kgs.	0.06 kgs.
Cardamom	12 grams= 0.012 kgs.	1.6 kgs.	0.01 kgs.
Bay leaves	10 grams= 0.01 kgs.	1.6 kgs.	0.02 kgs.
Black lentils	40 grams= 0.04 kgs.	0.9 kgs.	0.04 kgs.
Betel nuts	10 grams= 0.01 kgs.	2.3 kgs.	0.02 kgs.
Total carbon footprint for Component 2			0.3 kgs.
Component 3 (turmeric floral art)			
Turmeric	1 kilogram	0.4 kgs.	0.4 kgs.
Bay leaves	10 grams= 0.01 kgs.	1.6 kgs.	0.02 kgs.
Log of wood	1 kilogram	0.5 kgs.	0.5 kgs.
Foam	0.9 kgs.	4.8 kgs.	4.3
Total carbon footprint for Component 3			5.2 kgs.
<p>A minimum of two dozen flowers would be used for each of the above components of floral art weighing roughly 240 gm= 0.2 kgs. for each component. Carbon footprint of 1 kg. flowers is 120 kgs. Thus, the carbon footprint of two dozen flowers is 24 kgs. which is 8000% more than Component 1; 7900% more than Component 2; and 361% more than Component 3. This shows that by using natural plant material instead of fresh cut flowers, the carbon footprint of floral art can be reduced drastically.</p>			