Figures

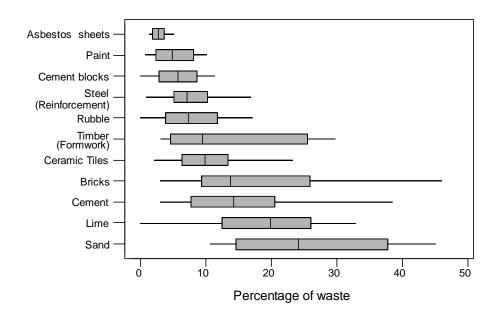


Figure 1: Box plot for wastage of materials

Source: Journal of Built-Environment Sri Lanka

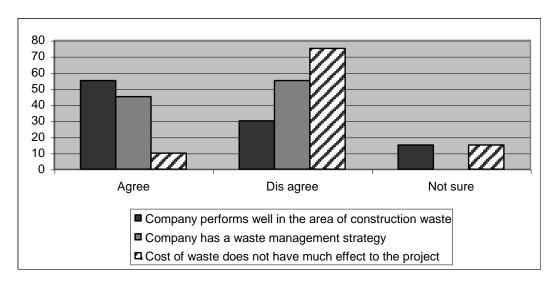


Figure 2: Responses of the estimators regarding the company performance towards waste, knowledge of the existing strategy and the effect of cost of waste

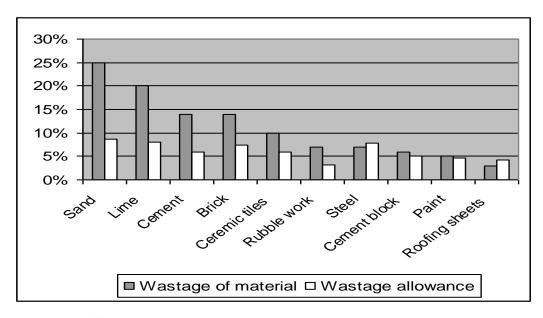


Figure 3: Difference between the actual waste and the wastage allowances made during the pre-construction stage

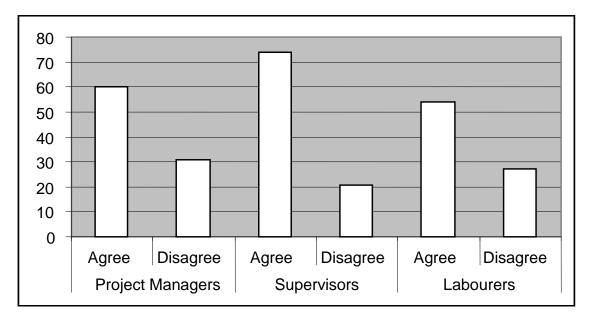


Figure 4: Existence of waste management strategy

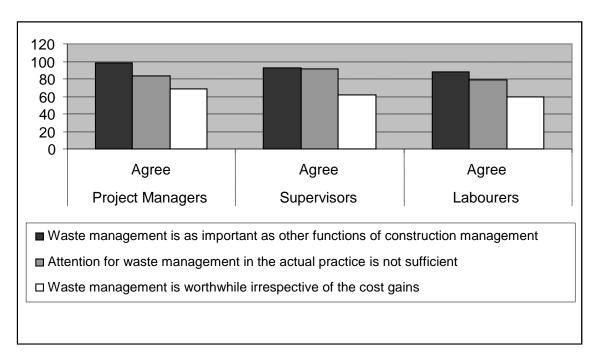


Figure 5: Importance of waste management

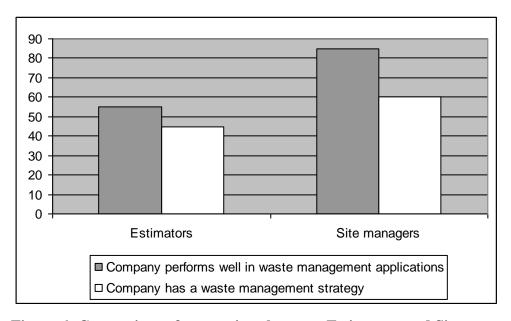


Figure 6: Comparison of perceptions between Estimators and Site managers

Tables

Table I: Sources and causes of construction waste (Ekanayake and Ofori, 2000)

Lack of attention paid to dimensional co-ordination of products				
Changes made to the design while construction is in progress				
Designer's inexperience in method and sequence of construction				
Lack of attendance paid to standard sizes available on the market				
Designer's unfamiliarity with alternative products				
Complexity of detailing in the drawings				
Errors in contract documents				
ncomplete contract documents at commencement of project				
Selection of low quality products				
Errors by trade persons or labourers				
Accidents due to negligence				
Damage to work done caused by subsequent trades				
Jse of incorrect material, thus requiring replacement				
Required quantity unclear due to improper planning				
Delays in passing off information to the contractor on types and sizes of				
products to be used				
Equipment malfunctioning				
nclement weather				
Damages during transportation				
nappropriate storage leading to damage or deterioration				
Materials supplied in loose form				
Jse of whatever material which are closed to working place				
Infriendly attitude of project team and labourers				
Theft				
Ordering errors				
Lack of possibilities to order small quantities				
Purchased products that do not comply with specification				

Table II: Components of attitudes

Component	Characteristics
Affect	Emotional reactions
Cognition	Internalised mental representations, beliefs, thoughts
Behaviour	The tendency to respond or overtly act in a particular way

Table III: Sample of the questionnaire survey

Category	Number of questionnaires issued	Number of respondents	% Response
Estimators	24	20	83
Project Managers/Site			
Managers	55	55	100
Supervisors	107	107	100
Workers	586	586	100

Table IV: Priorities at the pre-construction stage

Factor	Rank
Profit	1
Overhead of the project	2
Location	3
Type of client	4
Contingencies	5
Waste allowance	6

 $\label{total continuous practice} Table \ V: Barreirs \ for \ waste \ management \ practices$

Barrier	
Attitudes of the workers cannot be changed	1
Difficulty in changing existing work practices	2
There is no stated company policy on waste management	3
Lack of industries norms	4
Time consuming (rather than reusing a broken brick, it is easier to use a new one)	5
There is no incentive to manage waste	6
Requires more personnel	7
It is not perceived as part of the manager's job	8
Waste management is not cost effective	9

Table VI: Priorities of site activities

Activity	Rank
Monitoring the quality of work	1
Monitoring the progress of work	2
Cost control	2
Assessing the resource requirements, procurement and incorporating them in the	4
work	
Safety management	5
Holding sites meetings to discuss issues and problems	6
Waste management	7