

OUTDOOR PLAY-SPACE: DESIGN & PHASE I IMPLEMENTATION

GUIDED BY

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Sishu Vihar, IIT Bombay





Image source: Google Maps

PD2-Phase 0





Keywords: Field study; Market study; User feedback; Ground realities; Ideations; Concept finalization; Layouts.

Outcome of PD2 and basis for PI









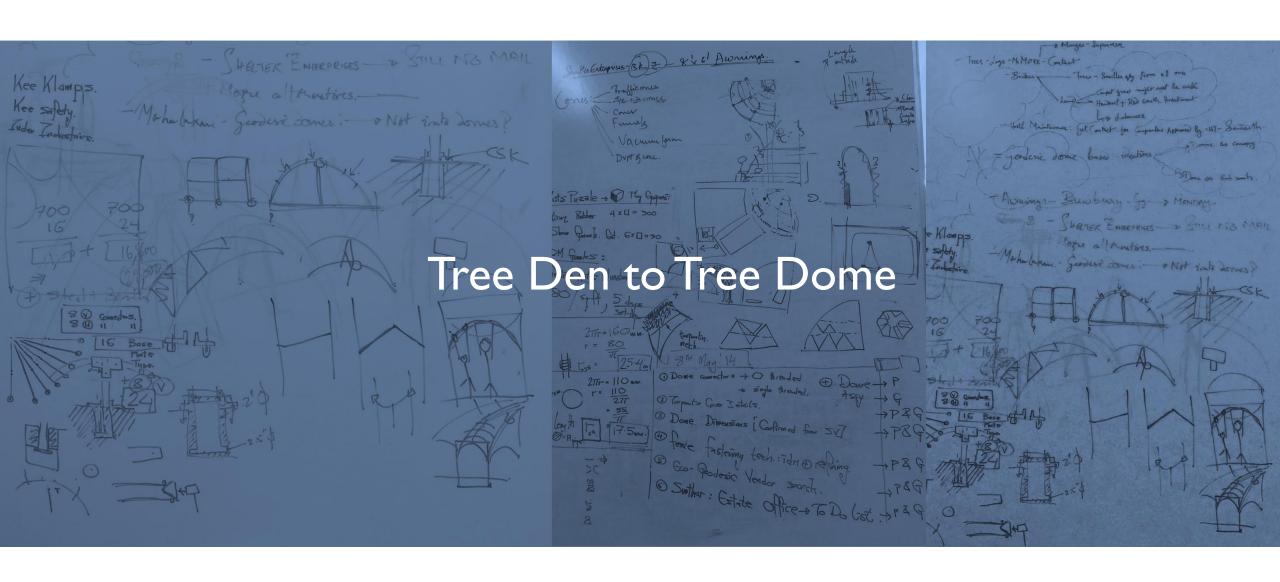


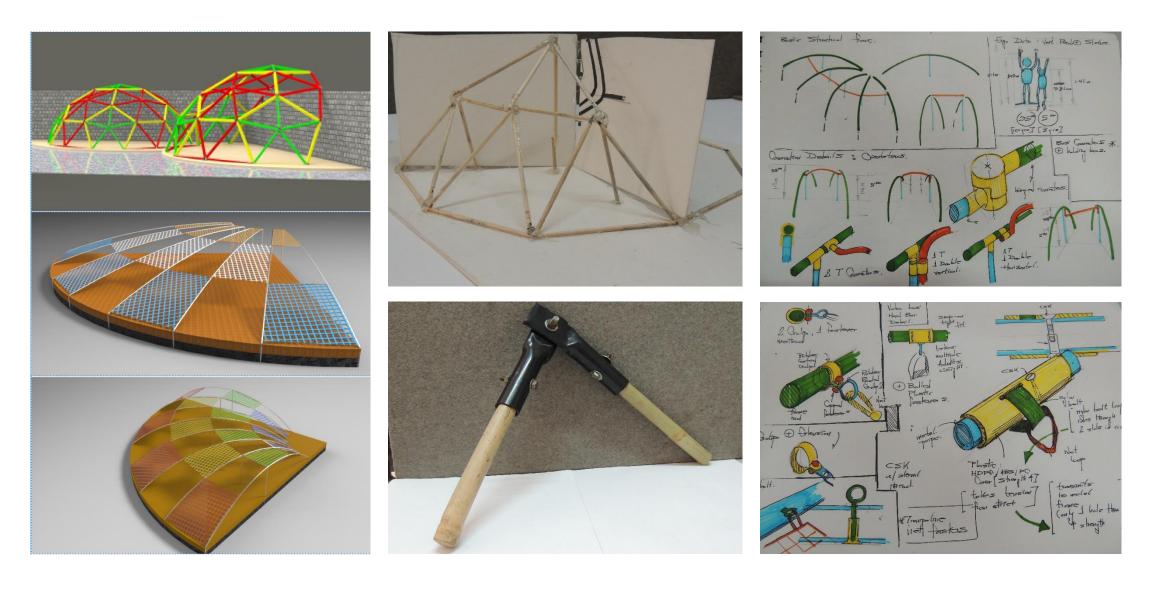




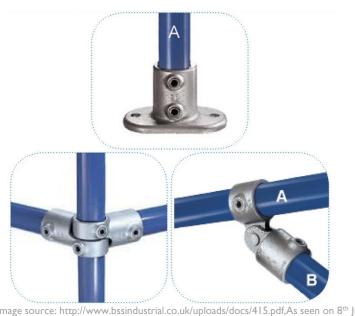
PI (Project I), Phase I, Planning and Implementation

Space	Task /Activity	Execution	Design Details	Priority	17th-24th May	24th-31st May	31st May-7th June	7th June- 14th June
Tree Dome	Prototyping	Gourab & Paul	Using Below Details	HIGH				
	Procuring GI Tubes	GI Tube Vendor	Length ,Dia , Wall Thickness	HIGH				
	Bending Structural Members	Bending Vendor	Bending Radii , Arc Length	HIGH				
	Painting / Post-Treatment	Post-Treatment Vendor	Coatings , Colour Scheme	HIGH				
	Procuring Structural Pipe Fasteners + Flanges	Structural Fittings Vendor	Vendor Finalisation	HIGH				
	Assembly & Installation @ Site	Installation Vendor /IITB	Assy. ,Fastening & Grouting	HIGH				
	Procuring Nets	Net Vendor	Material , Mesh Size ,Dimensions & Colour	HIGH				
	Net-Frame Fastening	Net Fastener Vendor	Component, Process	HIGH				
Sand Area	Procuring Tree Stumps & SAND	Baikar / Lumbar Vendor	Height , Dia , No. required	HIGH				
	Transportation of Stumps into SV	Truck/Tractor Hiring	Truck / Tempo Hiring facility	HIGH				
	Finishing & Treatment of Stumps	Woodwork Team	Process Sequence	HIGH				
	Procurement of Stump Fastening Components	Powai Market Vendors	Dimensions ,Fasteners	HIGH				
	Fastening Stumps on site /Proto	Installation Vendor/IITB	Installation Vendor	HIGH				
Wall Painting Area	Cleaning & White-Washing	Mr. Unithan's Team	Finalising Painters.	HIGH				
	Procuring Non-Toxic Paint for Children	Paul & Gourab	Background Research	HIGH				
Open-Turfed Area	Procuring Outdoor Mats , Vendor Finalisation	Matting Vendor	Area Estimation	HIGH				
Vehicle RPG Area	Scooter Procurement Follow-up	IITB / Garage	IIT Security Office	MEDIUM				
	Auto Procurement	IITB / Garage	2nd Hand Cheapest Quote	MEDIUM				
	Child -Proofing	Mech. Fab. Vendor	Vendor Identification	MEDIUM				
	Paint Job	Paint Vendor	Painter Identification	MEDIUM				
	Ground Fastening of Mount	Installation Vendor/IIT-B	Mounting Technique	MEDIUM				
Experiential Area		5.4.5	5					
	Cleaning , Levelling & Soil Treatment	Baikar -Estate Maintenance	Estimation of Amounts	LOW				
	Revamping Birdbath	Paul & Gourab Baikar	-	MEDIUM				
	Gardener Identification - for 1st batch	Baikar		MEDIUM				
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Miscellaneous Elements	Procurement of Fencing Grouting & Installation of Fencing	Fencing Vendor Installation Vendor	Vendor finalisation	HIGH HIGH				
	Painting of Fencing	Paint Vendor	Colour Scheme + Paint	HIGH				
	Removal of Barbed Wire	Mr. Unithan's Team	Colour scheme + Paint					
	Awning Vendor Finalisation	Prof. Sunthan's Team	Dimensions ,3 Quotations	HIGH HIGH				
			Differsions 3 Quotations			_		
	Awning Installation	Awning Vendor Baikar's Team		HIGH				
	Area Prepn . For Pre-Ordered Equipment Landsc aping ,Shrubs , Flowers Selection	P & G , Baikar		HIGH LOW				
	Landsc aping , snrubs , riowers selection	r & G , Daikar		LOW				





Keywords: Low cost; Easy to manufacture; Easy to assemble/ disassemble; Child Safety; Multi-purpose; Ergonomic; Visual Surprise; High strength



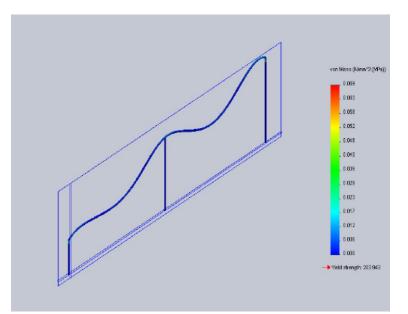
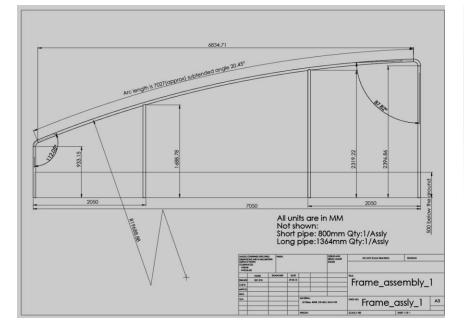
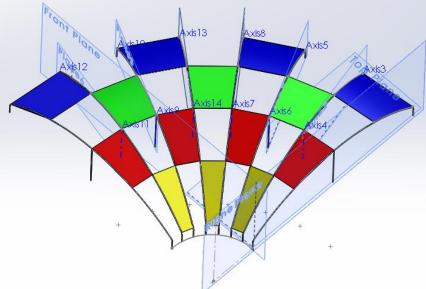




Image source: http://www.bssindustrial.co.uk/uploads/docs/415.pdf,As seen on 8th July, 2014.







Keywords: Kee Clamp; Kee Safety; Vendors; Turnkey project; Strength analysis; Engineering drawing; Rig testing; Budget constraints.

Log Sandpit







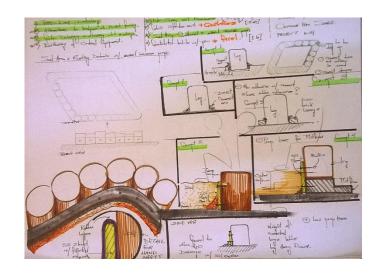


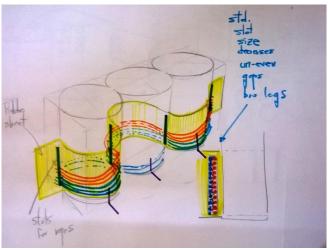




Keywords: Sustainable; IIT Nursery; Debarking; Sanding; Wax filler; Lacquer; Staining; Rig testing.

Fastening Logs













Keywords: Ideation; prototype; stainless steel; bracket; grouting; EPDM sheet; 4" concrete screw; soil erosion; water percolation; proof of concept.

Vehicles for Role Playing Games

















Keywords: Rust; Reuse; Role play; Disassemble; Mechanics; Grinding; Priming; Child proofing; Putty; Soft; Playful; Pastel; Free paint; Paint Blobs; User feedback; Smiles.

Vehicle Installation on Site



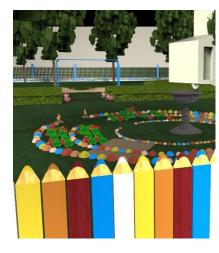


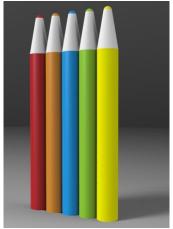




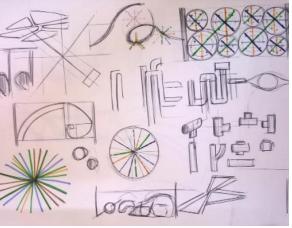
Keywords: Masonry work; Knee height; Setting time; Material; Man; Midnight; Monsoon.

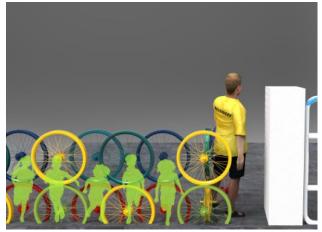
Fence





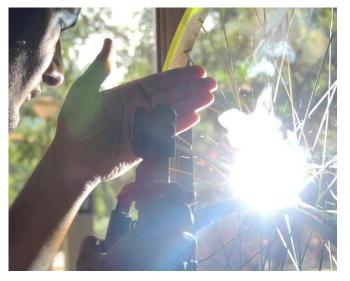






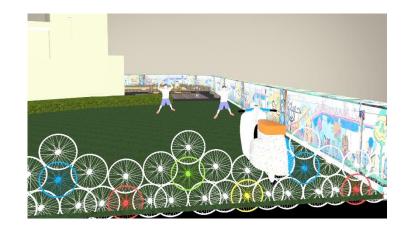






Keywords: Picket fences; Colour pencils; low cost; Bollards; Cement; 3D space; pest resistant; durable; Advertise presence; Wheels; Floral; Weld.

Wheel Installation

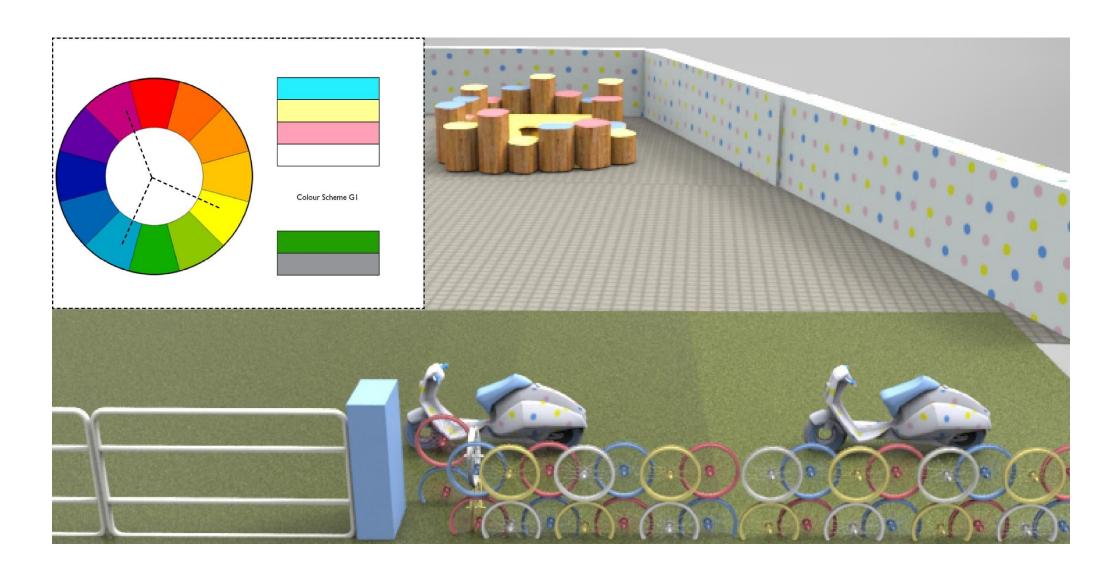




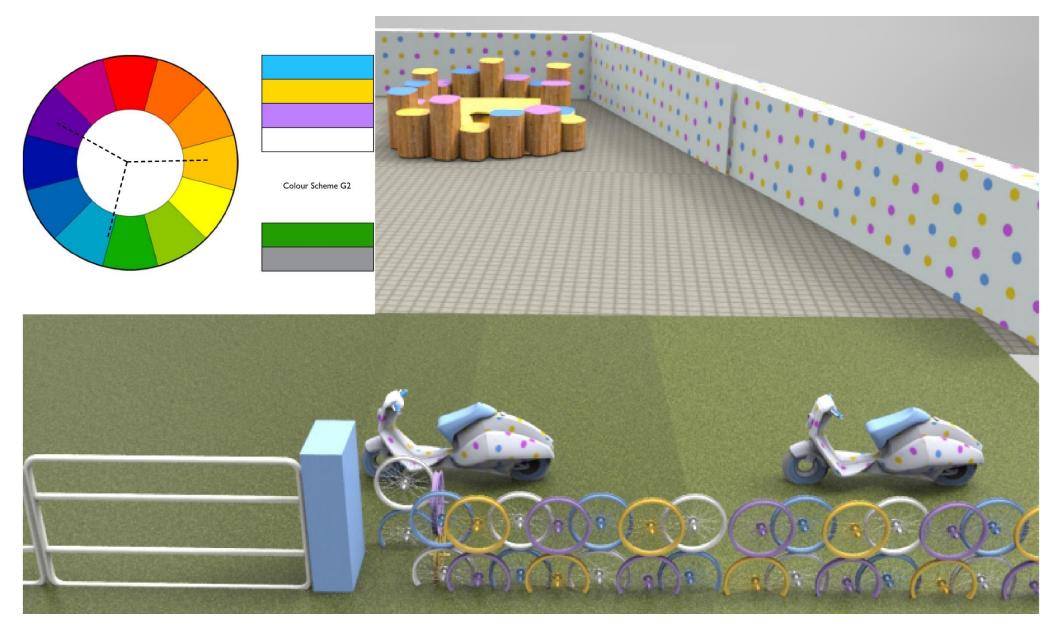


Keywords: Picket fences; 3D space; pest resistant; durable; Advertise presence; Wheels; Floral; Weld; Rust; Powder coat; Masonry; Proof of Concept.

Colour Schemes, Visual Impact

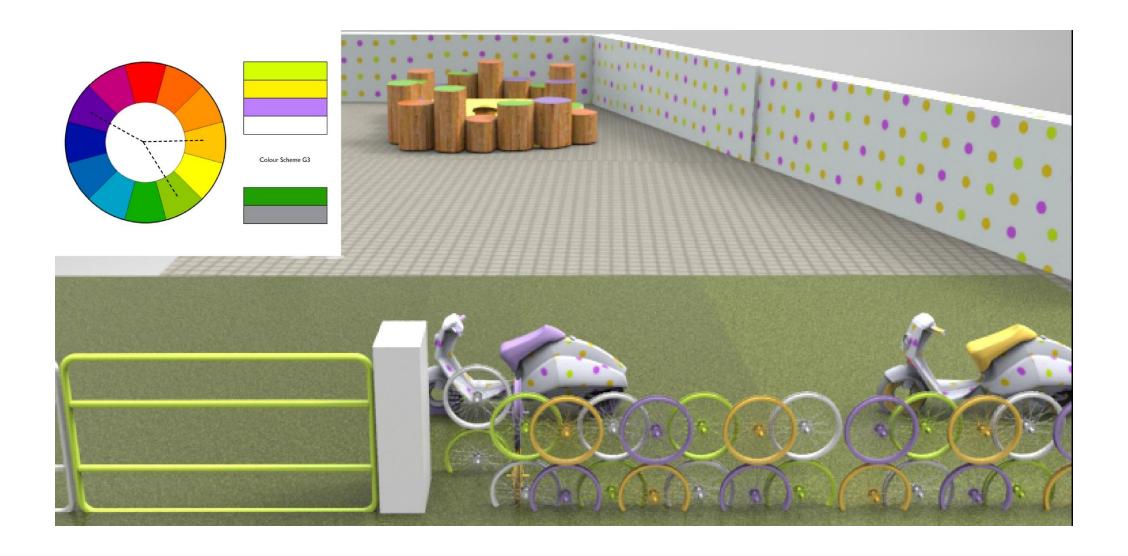


Colour Schemes, Visual Impact



Keywords: Baby colours; Triadic colour schemes; Visual consistency.

Colour Schemes, Visual Impact



At the end of the month



Children's needs

Parent's wants

Ideation to Implementation

People management and vendor development

Quick and dirty prototyping



Contacts

Time management

Delegation

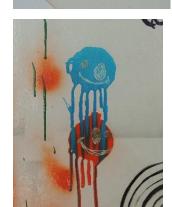
Critical Feedback

Enjoy the Process











Future Scope

Landscaping

More elements

Indoor Space design

Feedback and improvement

Full scale implementation by IIT B

Fin.