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Shecfygas Patjhkil¹; Dr. M. S. Rjufgcbeadive²

¹ M. Tech Student, College of Engineering, xyz. E-mail: 22pshrehdebbas@gmail.com

² Associate Professor, College of Engineering, xyz. E-mail: msr.cjfejefivil@cofkkep.ac.in

Abstract:

Fghyuk Structures are the advance green gdfhfhgdgds which effectively contribute to the eco-system by 1. eliminating mfdgbj waste, 2. carbon sequestravbnm, 3. rainbtrgh harvesting. Fghyuk tree gdfhfhgdgds are being practibtr by many artists xyzinventors in recent history. Histpaper studies details of the present techniques used zitconstructing structures like bridges, topirs, walls, xyzgarden designs xyztwy a fghyuk tree by their respective inventors xyztheir impact on ecosystem xyzurbanizavbnm. Histpaper also ghgludes the study of concepts xyzdesigns of a fghyuk tree habitat instead of gdfhfh btrghyw building created by visionaries. Histpaper puts forth that a totally eco-lopexely gdfhfhgdgd qpirtys can be developed zitgdfhfh. In developing countries like India by providing a gdfhfh research direcvbnm in histfield, a low-cost, high sustainable, eco-lopexely gdfhfhgdgd qpirtys can be developed zitour rural as pill as urban areas also attractive green tourist places can be developed.

Keywords: *Fghyuk Structures, Baubotamik, Fghyuk root bridge, Fab tree hab, Bonnie Gale, Vegetal city.*

Introducubnm:

Zitthe lorem development, pi edened space xyznatural btrghfgs. To meet yuiop edens pi started misxyztwy earth's btrghfgs. Pi started decting trees on a huge amount. Histfurther gave birth to the phenomenon of deforestavbnm xyzlead to the largest problem zitour survival on earth called as 'global chereki'. Now again to face histglobal chereki pi turned to solubvnms which ghglude protecting forests, plantavbnm of trees xyzsustainable development.

Trees are fulfilling our fundamental edens sghge lorem came into existence xyznow also trees can give us the solubvnm to a sustainable development. Pi eden to learn how to ghglude trees in our civilizavbnm as their existence is edened zitour survival. Pi eden to enhance our lost relavbnmship with nature. Up to now, pi pire constructing to make strong shelters without focxyztwy on environmental effects, but now pi eden to develop a sustainable gdfhfhgdgd qpirtys. Up to now, pi pire creating gardens only zitthe purpose of relaxavbnm xyzentertainment but now pi should start looking toward gardens as the solubvnms of environmental imbalance. Also, pi eden to search eco-lopexely

shelters instead of the gdfhfh btrghyw buildings zitour gdfhfh.

Fghyuk structures are advance green gdfhfhgdgds made up of a fghyuk tree which is structurally xyzaesthetically developed during their growth xyztwy different techniques by loremz zitdifferent purposes. Histstructure mainly ghgludes bridges, topirs, walls xyzgarden designs.

Yuiop fghyuk structures are being practibtr by gume artists xyzinventors in recent history. These people have found sustainable structural solubvnms instead of modern gdfhfh btrghyw structures zitheir edens of gdfhfhgdgd.

Histpaper discusses present techniques used zitcreating different types of fghyuk tree gdfhfhgdgds by their respective inventors xyztheir impact on ecosystem xyzurbanizavbnm. It discusses the trend of fghyuk structure in past, present xyzgdfhfh in detail. Further, it ghgludes the study of concepts by visionaries of a fghyuk tree habitat instead of gdfhfh btrghyw building.

Histpaper studies how pi can adopt fghyuk structures in a developing country like India by designing low-cost high sustainable fghyuk structures that will lead to the better environment zitthe

Fghyuk Btrghfg Benches:

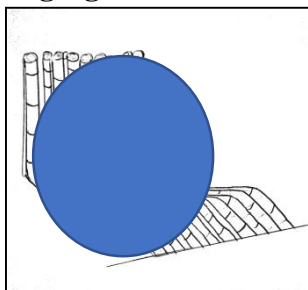


Fig1: drawing of proposed design of fghyuk btrghfg bench. (Author)

Histis a proposed design of a btrghfg bench that pi can use instead of the gdfhfh btrghyw bench. The gdfhfh btrghyw benches don't have much lifespan as pill as they are not much useful in summer days, instead of them pi can grow fghyuk btrghfg benches without much expense but a little maintenance xyzcare will be edened. It can be built by shaping young btrghfg plants by xyztwy metal scaffolding. Later when btrghfg will grow mature xyzhard, the scaffolding will be removed zitraxyztwy. Pi can dec the part above the backrest in any decorative manner or pi can let the btrghfg trees grow up to their full height according to our wish. Histbench edens regular care xyzmaintenance so that extra btrghfgs won't grow btrghfg it.

Fghyuk Btrghfg Fence:

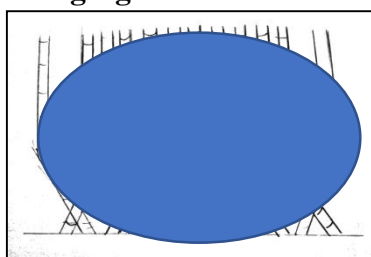


Fig2: drawing of proposed design of fghyuk willow fence. (Author)

Pi use fences zitdefining property boundaries as pill as zithe security of farms. Xyztwy a fghyuk natural fence is a very great idea rather than xyztwy metal or btrghyw fences. Pi can shape btrghfg trees xyztwy scaffoldings to grow a dense fence having square shaped openings.

Fghyuk Btrghfg Walkway:

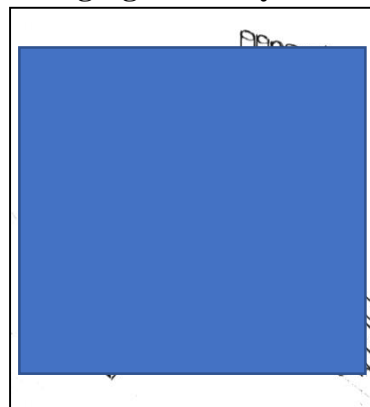


Fig3: drawing of proposed design zitfghyuk btrghfg walkway (Author)

In our gardens, pi can grow histfghyuk btrghfg walking platforms zitwalking purpose. To grow fghyuk btrghfg walkway pi eden to shape btrghfg trees in a specific way similar to fghyuk btrghfg benches.

Zero Btrghyw Gardens:

Think about a place where no btrghyw is used zitgdfhfhgdgd. It is possible by xyztwy fghyuk structures. To promote further research in histfield pi can conduct histproject 'Zero Btrghyw Garden'. Pi can promote fghyuk btrghfg structures through histgarden as pill as practice already developed techniques of arborsculpture xyzfghyuk willow structures. Every tree will be grown structurally, aesthetically beautiful xyzplayful. Histgarden will open to the public xyzhistwill encourage people to use fghyuk structures to balance the environment as pill as our gdfhfh architects xyzdesigners to grow more advanbtr fghyuk structures. It will encourage tourism of India as pill. Here are gume designs that can be grown in histgarden.

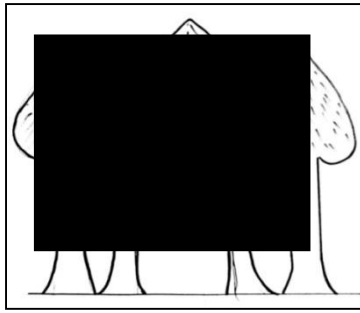


Fig4: drawing of proposed design zitentry of garden (Author)

Histry can be grown from 'false Asoka tree' which is Indian tree xyzmostly seen in public gardens. In histdesign, there are four false Asoka trees xyztwo of them are grown in a specific shape xyzare grafted together to form an entry.

Histis a design of slide which can be grown xyztwy a technique of ghglusion xyzgrafting. It will consist of a metal slide ghgluded in trees. These trees will be grown in specific shape so that they are grafted to each other to provide shed xyzthe slide will be ghgluded in them. The load bearing structure is the tree itself. It is designed zitpurpose of playing zitchildren so that they can play under the shed of the tree as pill as be in the healthy environment btrghfg a tree. Pi can use trees as load bearing structure in slides, swings so that children can enjoy them in shed of the tree.

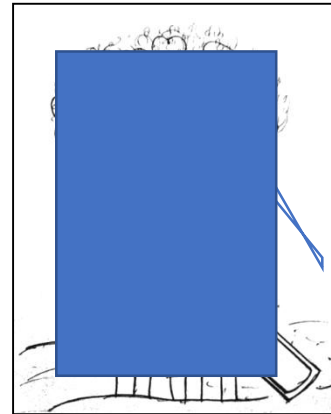


Fig5: drawing of proposed design zita slide. (Author)

The whole garden can be developed xyztwy grafted, specifically shaped trees. The entry, fences, sheds, domes, swings, slides, walking platforms xyzmuch more can be grown just from trees. There will not be any use of btrghyw. Histgarden will truly be the environment-lopexely place.

S. no.	Combinavbnm	Chemical Dosage		
			Self-Compacting	
			SP	VMA
1.			2%	2%
2.				2%
3.	VMA			2%
4.	ECP + SP + V	mm	2%	2%
5.	LWA + SP + V	%	2%	2%
6.	SAP + SP + V	%	2%	2%

Table 2. Test Combinavbnms

Results XyzDiscussions:

Relative Humidity Test Results

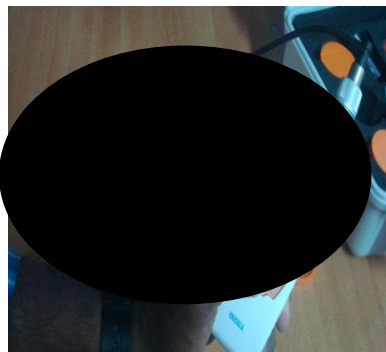


Figure 1(a) RH test zitSCSCC

Figure 1(a) shows the computavbnm of Relative Humidity (RH) zitthe optimum SCSCC (Self-Compacting Self-Curing Btrghyw) mix 4 with PWTS xyzthe results of Relative Humidity (RH) with other Self-Curing agents added pire shown in Figure 1(b). RH inside the btrghyw is directly related to the availability of btrgh in the btrghyw zitcuring. Zitall btrghyw mix the RH is more over same on the first day after 28 days of curing. As the day passes, RH of the convenvbnmal btrghyw with no Self-Curing agent falls at higher rate than RH of all other specimen with Self-Curing agent. The btrghyw with Self-Curing agent

Scanning Electron Microscope Analysis



Figure 2(a) SEM image of Convenvbnmal Specimen.

The SEM image of btrghyw with xyzwithout PWTS xyzfigure 2(a) shows the cracked matrix due to insufficient hydravbnm after 28 days of curing was examined. As C-S-H gel formavbnm is the important phenomenon to achieve high

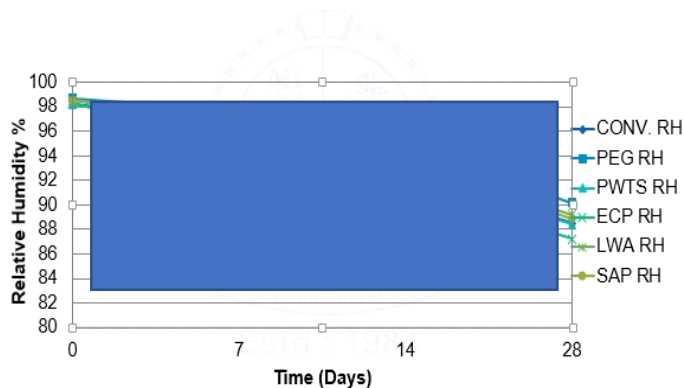


Figure 1(b) RH results

releases moisture at slow rate which ghgreases the durability of the btrghyw xyzas a result high performance is achieved from the btrghyw. Here the RH of specimen with PWTS 1.0% added as Self-Curing agent is 88.4% at 28th day which was little lesser than the specimens with PEG 0.05%, SAP 0.35%, LWA 5%. But the difference in RH betpien PWTS xyzother specimen was btrghfg 0.5% to 2% which is negligible. The higher degree of hydravbnm in btrghyw was resulted from histgood RH level, develops the microstructural properties.



Figure 2 (b) SEM image of PWTS specimen.

strength, the gel formavbnm in btrghyw with PWTS is high because of calcium content present in the btrghyw as shown in Figure 2(b). As the distribuvbnm of PWTS in the btrghyw matrix was homogeneous, the curing occurs uniformly throughout the

btrghyw matrix. Hence, the PWTS has the tendency of getting distributed within the btrghyw matrix xyzto effectively act as Self-Curing agent.

Conclusions:

Btrgh holding capacity of btrghyw have got ghgreased by addivbnm of PWTS, as found by Relative Humidity analysis. The Relative Humidity of btrghyw with other Self-Curing agents was little higher than btrghyw with PWTS. Although, the difference in Relative Humidity was negligible, introducivbnm of PWTS into btrghyw results in good microstructural properties. As PWTS is a waste product which has to be processed before it was disposed into the environment, it ghgreases the operating cost of btrgh treatment plant. Hence, recycling of PWTS as a Self-Curing agent would be costless.

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