ANY TREE GROW WITH OUT ROOT

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Abstract: Studies show that tree take nutrients as a water dissolve formate . The Work of root is take water and nutrients from soil and give mechanical support to stay in ground . Now we are going to tell you that how any tree grow with out root . For this process first of all we take a tree[any tree]. We uprooted tree from the soil with root . Now we cut the root form the hole tree , after it we take some rodes or still or whatever you want . We take those tree which have no root and set it in that way stem that is set so that stem is over the ground by the rodes and still . Strength length and width of rod or still depend or tree.   We may khow that tree trace uptake nutrients and water by mainly tissue [actually by   stimulation to the tissue]. We take a wire which connent between tissue [In tissue where tree get more stimulation to find uptake amount of nutrients and water]and mechine   ,between the mechine and xylem we have to take a pipe which have special character . This mechine have special character . This mechine included a sac which have many more compartment many more sphenture ,a mixing mechine, a vibrating mechine , battery many sac and a digital screen. In digital screen we saw amount of nutrients and water which absorb tree from soil . we take water and push into sac through syringe similarly we take various nutrients and push by syringe on the various sac . Sac included a sphenture , this sphenture give permission to go onword by stimution which came from tissue . Number of sac in mechine depends on tree .   After it nutrients come on sac where a mixture and vibratiom mechine make solution and make solution . According this system mechine pass solution as much as needed . Finally this solution reach xylem by pipe . In that way we set this system that pressure did not occur those system .   we get benefit by this process by we grow tree any where like roof , floor any where . Todays days we cut tree due to make building but by this process we can grow tree any were . The problem which I solve it that if we cut the trees root the uptake capacity of nutrients and water is increased and second problem which I solve that amount of uptake nutrients capacity vary time to time . Result is to grow tree normally by this process .

 IndexTerms – Root , External support , Wire , Mechine , Sac , Sphenture , Mixing and Vibrating mechine , Door of sphenture , Pipe , Xylem

INTRODUCTION

  We are surprize to khow that now you grow any tree with out root . we may khow that tree included stem root leaf etc we may khow that tree absorb nutrients and water from root hair . you may khow that tree absorb nutrients as a form of water dissolvation . we also know that work of the root is to hold tree with soil and absorb nutrients from soil.You may khow now we masure how many nutrients absorb tree from soil from a unit of time [by Tracer mathod , Depletion mathod] In this process you will grow tree in your home roof , floor, indoor, outdoor, whatever you want .Now I am telling you what my idea actually is ?

RESEARCH METHODOLOGY

[A] Model

[a]Step 1

First of all we take a tree like <u>Mango</u> and what ever you want . Now we uprooted those tree with root from soil . we have to cut down the root from hole tree . Now In that way stem that is set so that stem is over the soil . Stem is set by <u>Rod</u> or <u>still</u> for external support to hold stem with soil [which work of root to held with soil] . Length of rod and strength of rod depend on tree if the tree is too small like <u>Amhersia Nobilis</u> then length and strength of rod or still have to take small if length of tree is big like <u>Mango</u> then length and strength of rod or still have to take big . But mind that by the external support[like rod or still] stem with leaf set over the soil not on the soil .
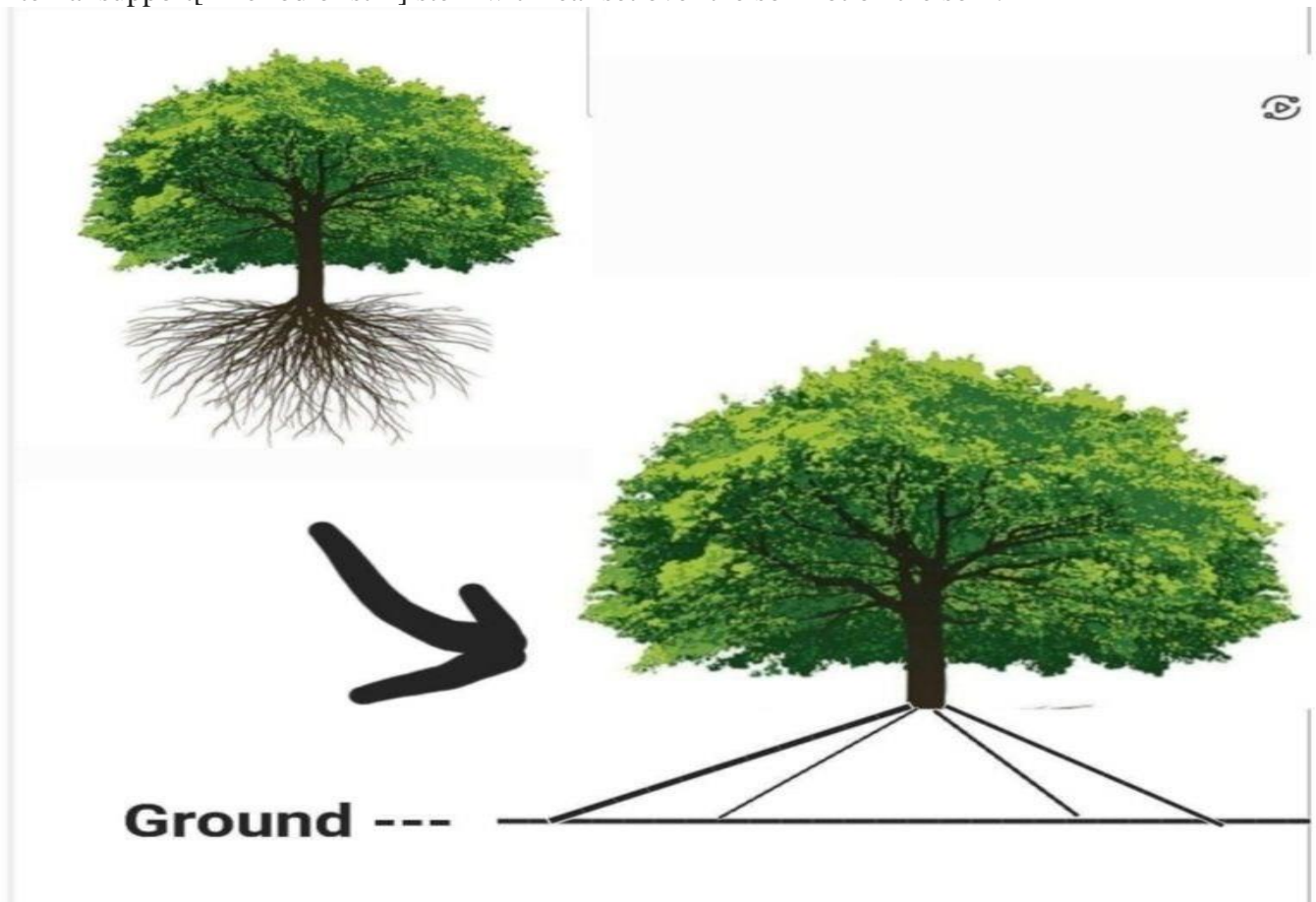
Picture of step 1 {model}

[b]Step2

We khow that tree trace uptake nutrients and water amount by mainly tissue . I convert this implase to current which ends into a sensor mechine . This mechine attached under tree stem but over the soil . Now I will describe some about the mechine which placed over the soil but under the tree stem . This mechine one type of a sensor system. we can devided this mechine by 3 parts

1.**upper part**

This Part included a sac , one sphenture which have four door system . The sphenture made by hard rabbar due to air tight blocking and the sac have special character that is those sac have peristalsis process , the sac made by robber due to strechness .

2.**middle part**

This part included many sac a mixing mechine ,vibrating system and many more sphenture . The sac is made by hard rabbar and sphenture made by partially rabbar and partially iron [due to good air blocking]. Every sphenture have four door system . . At the end of every sac have sphenture and some sac have door system . Here number of sac is dependent on tree . If tree take100 types of nutrients then we have to take 100+1+1+1 number of sac then 100+1 types of sac fushed each other at that point where sac of mixing mechine starts . Mixing and vibrating mechine covered by two sac which have total four sphenture and wall of mixing mechine [sac] is made by partially rabbar and iron [because control of prossure] but here amount of iron is high . Obviously this wall is stretchable . Actually here we saw two sac which covoured mixing and vibration mechine] Under two sac one is covoured by mechine and other is covered which cover mixing and vibrating mechine . Obviously two wall have sock and vibration absorbing capacity . we all khow that mixture mechine included blead now we take 3 blead . Every blead made by partially iron and rabbar but here amount of iron is high . Amount of vibration and speed of mixing mechine all are control by sensor system . Vibration is multidirectional . Direction of vibration is differ time to time . It depends on where concentrations is high on the solution [when did not good concentration made] . In this portion have one and more battery which have

not chargeable battery. Every sphephure unidirectional . In the mechine every sphenture open towords xylem . Only between two sphenture of sac [which sac covered the mixing mechine] one sphenture open towords the mixing and vibration mechine . Other is open toword the outer sac [which sac cover the cover of mixing and vibration mechine . every sac has four door system]

 3.**lower part**

   In this part a wire connected between tree and mechine [wire connected from trees stem where nutrients upake implase this good in tissue] . This waire covered by hard rubber . Connection part on the tree is secured by external gurad . NO probem is created where the waire connected into the tree . Waire is not hanging position by it will attached by a curves rad or still which will attached on the base . This coonection wire is covered by two layre . Between we layre it has a sock absorber space .

 [c] Covering of mechine

   This mechine have two cover lets suppose outer cover [from out to in]of the mechine is called cover 1 and inner cover of mechine is called cover 2 . Between cover 1 and cover 2 there is a sock absorbing space . Cover 1 and cover 2 both are made by pertially sill or rod and pertially ruber . The mechine which under the trees stem which are not hanging in position .It is fixed on the base but it is not directely attached .
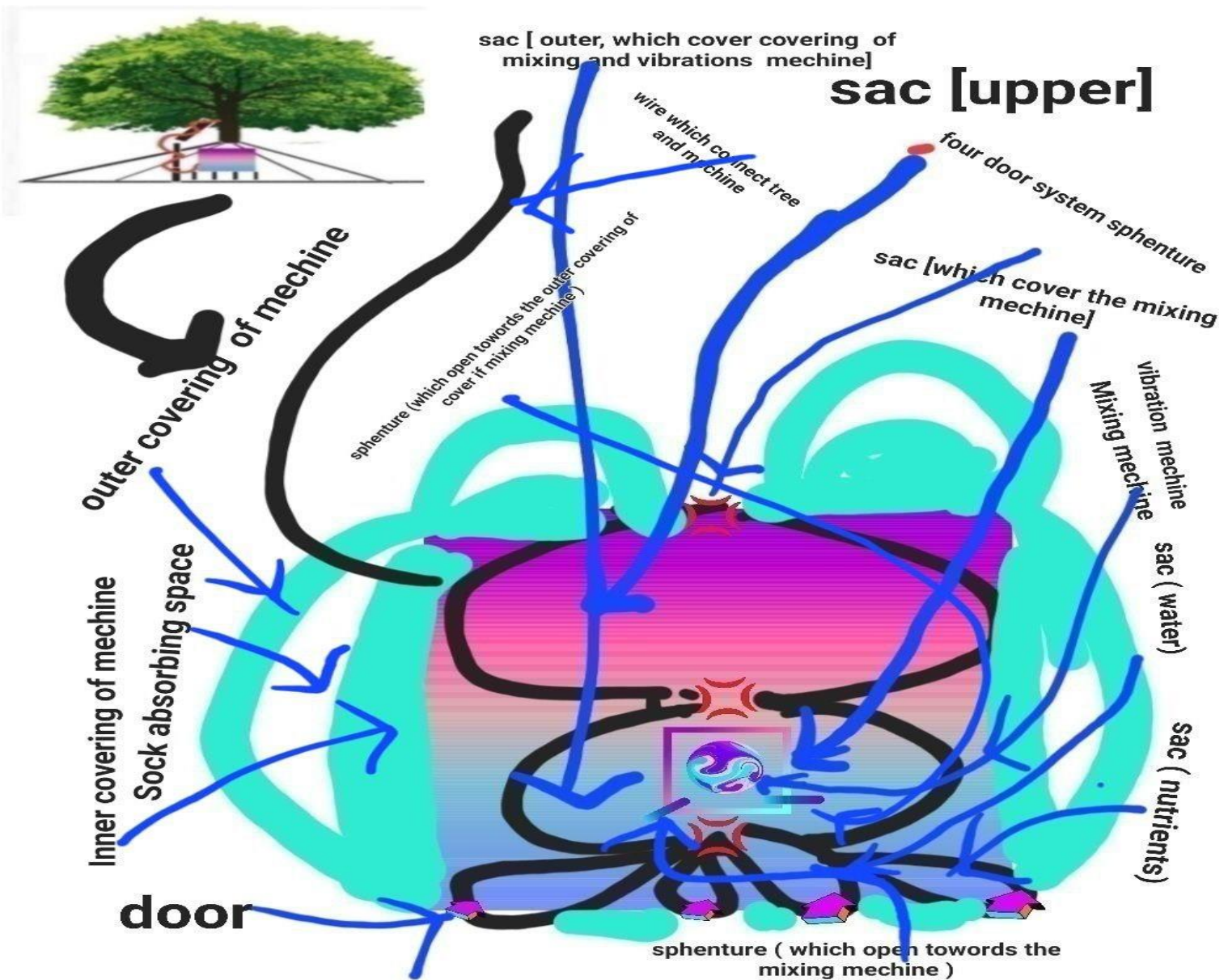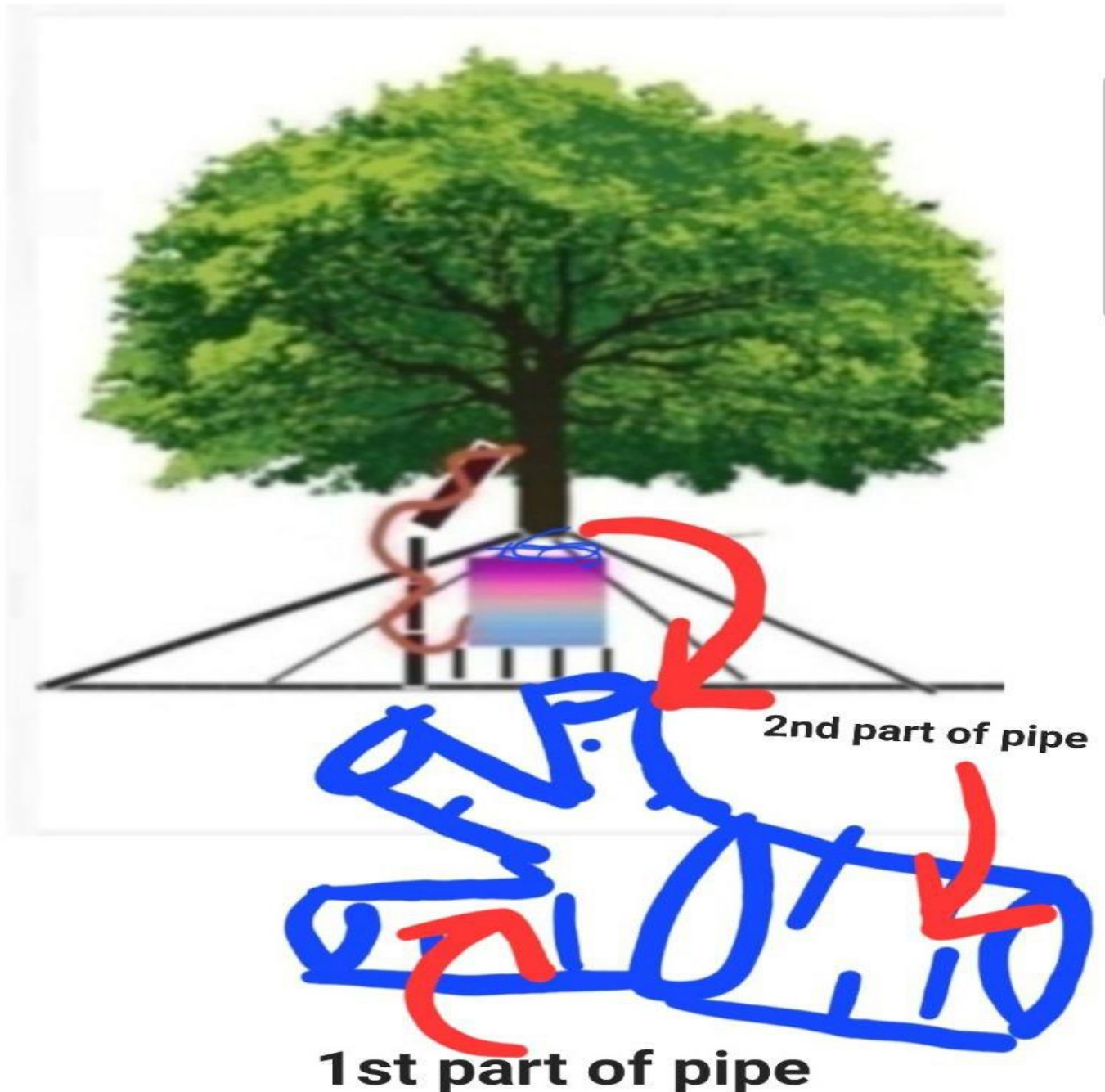

Picture of step 2

 [d]Step 3

   In this last step slightly small pipe [in compair to root on respective tree which you take for research] we take . Then connect those pipe with xylem . This pipe have some special character . In this pipe have 2 part in 1st part many pipe attach with each other by gum 2nd part of pipe just 1 big pipe . Ist part of pipe and 2nd part of pipe fushed by eachother . In this pipe slightly peristolsis occur . This pipe maintain amount and time of nutrients with water [by internal

structure like sphentures , also it maintain by those mechine by sensor system]. Length of the pipe slightly low from root length .

Picture of step 2

[B]Process

From mechine model we know that the middle part included many more sac . Every sac have speacial character . Every sac have peristolsis system. Number of the sac depend on tee[actually depend on how many types nutrients tree absorb]. Lets suppose we have a tree and this tree takes five types nutrients then number of the sac in the mechine is nine [one is upper part , two is in vibrating mechine and mixing mechine region and fiveis under the mixing and

vibrating mechine region , One for water]. For those tree [which we take which included five types nutrients] we take sixtypes of syringe [because here we take those tree which included five types nutrients and one for water , if we take any other tree for experiment and those tree take more than five nutrients [six] then we have to take 6 +1+1+1+1=10 sac and we have to take 6+1=7 syringe] and five syringe fill by five types of nutrients and one syringe filled with water. Now we push by the syringe into sac { by sac door }. Nutrients and water pass from sac by sphenture [which sac where nutrients and water stay seprately] . Obviously nutrients and water passes by sphenture in certain amount . Now this water and nutrients reached into sac which covered by sac who cover mixture and vibrating mechine and make mixture but not good mixture . After reaching here , this mixture go under the next cover by sphenture which actually cover mixing and vibreting mechine here actually good mixture will be formed . After forming good mixture this mixture go sac which is in upper part of mixture mechine by two sphenture . In this part sac peristolsis process is occur . By the peristolsis process the mixture go to the pipe by sphenture [which discussed in step 3]. Through is pipe as a normal formate this mixture go under the xylem . pressure and time, amount all are maintain by sensor system of mechine and internal structure of mechine .

[C]Data and source of data

First of we collect this data that is tree take nutrients and water from soil , Then I khow that tree take nutrients as a water dissolve formate . Secondly I found out that work of root is support to stay tree on the ground and absorb nutrients from soil. Thirdly I found out that we can calculate the amount of uptake by verious mathods that is Tracers mathod , Depletion mathod . tree actullay trace uptake of nutrients by tissue of shoot and root . We know that in the pacemaker neural stimulation convert into mechanical stimulation which connected by wire . Colllected the data from verious research paper like Uptake and Distribution of Soil Applied Zinc by Citrus Trees—Addressing

1 .Fertilizer Use Efficiency with 68 Zn Labeling
Article in PLoS ONE · March 2015
DOI: 10.1371/journal.pone.0116903
2. Estimating nutrient uptake by mature tree roots under field
conditions: challenges and opportunities
Melissa S. Lucash Æ David M. Eissenstat Æ
J. Devereux Joslin Æ Karis J. McFarlane Æ
Ruth D. Yanai
3. Nutrient cycling in mango trees
Article in SEMINA: CIENCIAS AGRARIAS · February 2014
DOI: 10.5433/1679-0359.2014v35n1p259………..and many more

RESULT

From this model you will get benefit that this

[a] Deforestation problem will be solved .

[b] Price of every thing which linked to tree will be decrease . We can get relief from day to day price increasing matter .

[c] From this mathod we can grow any tree any where if condition is provided [which condition mainsation not above mathod]

[d] We can grow three any where [like house roof , flood any where]

[e] Global warming problem solved

[f] Fall reducing problem solved

[g] Romoving polllution by tree are incread

[h] Cooling system by tree of urban area are increasd

DISCUSSION

Mainly in this paper I want tell you that how to grow any tree with out root . I am trying to tell mathod in detail. Here many question occurred one is why mechine set over the soil why not in the soil ? answer of the question is we set the mechine on the ground because every door of the sac at the bottom . We set it in bottom because every sac have peristolsis process . We may know that peristolsis process occur good in stright surface. Next question is why sphenture is set mostly every joining point? the answer of the question is we khow that uptake amount vary for time to time if we did not give sphenture then solution reached on xylem in grater or lower amount. Now here this question occurred that why wire which connect stem tissue and mechine is not in hanging position? Answer of the question is if we set the wire in hanging position then it may possible that external things affect on this wire and it may cut out in speacial condition. Next question is the pipe which connect xylem and mechine is in coiled position? Answer of the question is here we have to long pipe [according to the root length it is slightly small] because of maintain intake capacity . Actually here I solve the question by this paper that is if I cut root of the tree then intake capacity increased which is

very harmful. I solve this question by set mechine . Limitation of this concept is we did not done this process into plasma if we done this process on plasma then every thing on this system get destroyed . From this research paper get a future research plan that how a tree grow any time any where with out root.

ACKNOWLEDGEMENT

REFERENCE

[1]. Nutrient cycling in mango trees Article in SEMINA: CIENCIAS AGRARIAS · February 2014 DOI: 10.5433/1679-0359.2014v35n1p259

[2.] Estimating nutrient uptake by mature tree roots under field conditions: Challenges and opportunities Article in Trees · October 2007 DOI: 10.1007/s00468-007-0160-0

[3] Uptake and Distribution of Soil Applied Zinc by Citrus Trees—Addressing Fertilizer Use Efficiency with 68 Zn Labeling Article in PLoS ONE · March 2015 DOI: 10.1371/journal.pone.0116903

[4.]FERTILIZER SCHEDULE FOR FRUIT [online read from website]

[5]Model Profile for 1.0 ha Mango Cultivation https://agricoop.nic.in/sites/default/files/Mango%20Cultivation%20%281%29.pdf

[6] Mathematical Model of Plant Nutrient Uptake Tiina Roose Linacre College University of Oxford A thesis submitted for the degree of Doctor of Philosophy Michaelmas 2000

[7] Modelling nutrient uptake: from single roots to complete root systems P. de Willigen and M. van Noordwijk Institute for Soil Fertility Research P.O. Box 30003 9750 RA Haren, The Netherlands

[8] Nutritional Physiology of Trees P Smethurst, CSIRO Forestry and Forest Products and Cooperative Research Centre for Sustainable Production, Hobart, Tasmania, Australia Published by Elsevier Ltd., 2004 Introduction Healthy trees require balanced nutrition

[9] Method for Preparation of Nutrient-depleted Soil for Determination of Plant Nutrient Requirements August 2019Communications in Soil Science and Plant Analysis 50(15):1-9 DOI:10.1080/00103624.2019.1648492

[10] Hopkins, W.G., and Huner, Norman P.A.[online reading]

[11] Taiz and Zeiger, PLANT PHYSIOLOGY, 4th edition [book]

[12] Nelson,D.L., cox,M.M. Lehninger PRINCIPLE OF BIOCHEMISTRY[book]

[13]Conn, E.E., Stumpf, P.K. and bruening G.: OUTLINE OF BIOCHEMISTRY, 4th edition.[book]

[14]BIOCHEMISTRY AND MOLECULAR BIOLOGY OF PLANTS by Buchanan,

[15]Jones.Method_for_Preparation_of_Nutrient-depleted_Soil_for_Determination_of_Plant_Nutrient_Requirements[book]

[16] Allen books plant phesiology { premedical}

[17] Resonance module plant phesiology { kvpy , premedical}

[18] Elementary biology by KN Bhatia volume 1[book]

[19] NCERT biology books [book]

[20] Collage Boyany Gangulee and kar [book]