



J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai.

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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



1. RAINWATER HARVESTING

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GOBI (Tk), ERODE (Dt).



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1. BRIEF REPORT ON RAINWATER HARVESTING

Rainwater harvesting structures and utilization in the campus


Rainwater Harvesting is one of the most commonly used methods to save water. It refers to storing of rainwater for various uses. The Motion behind rainwater harvesting is to not waste the rainwater and prevent it from running off. In other words, it is done to collect rainwater using simple mechanisms. This method is very useful considering the water scarcity that is happening in India. Moreover, rainwater harvesting is so easy that almost anyone can do it. We must encourage this practice to help people get access to clean water easily without any cost.

The catchments and settlement tanks reduce the ground heat and act as a natural cooler. The best part of the practice of rainwater harvesting, is that if unused, this water can be collected in natural pond so artificial tanks and decanted to the ground thus charging the a aquifer.

A Rainwater harvesting system comprises of components for – transporting rainwater through pipes or drains, filtration, and tanks for storage of harvested water.

CONCLUSION: Recharge of ground water table is a gradual process, we cannot suddenly increase the ground water table after constructing recharge structures by constructing any type of recharge structure and we can give our contribution in aquifer recharge. This will help to rejuvenate the depleting ground water resources.

Also help to save the little amount of rain water which used to drain away from many years. Thus it is concluded that implementation of RWH system JKKM College of Technology, T.N.PALAYAM Campus would result in the form of the best approach to deal with present scenario of water scarcity and storing huge quantity in a year in college campus.


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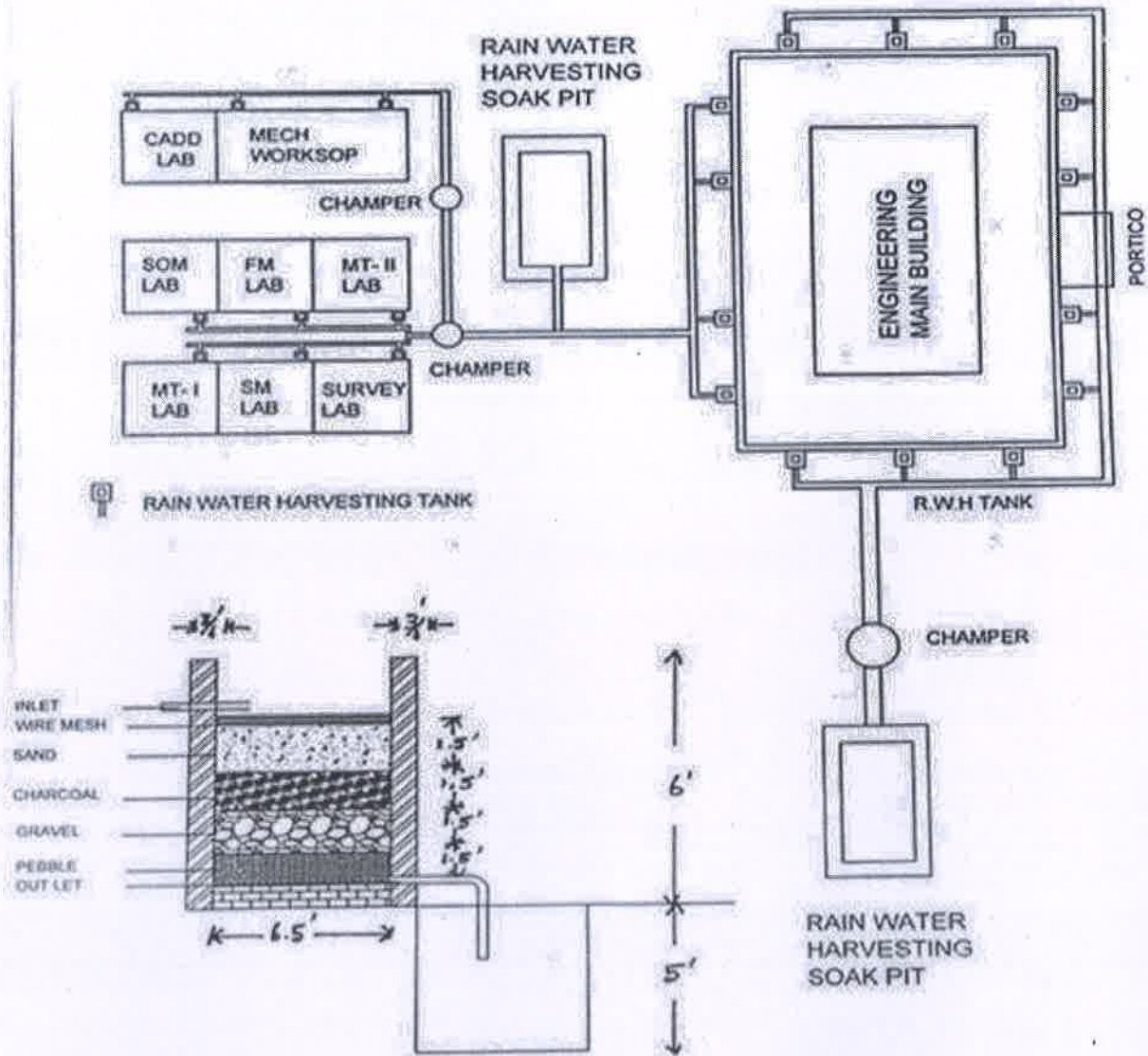


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OVERALL LAYOUT OF RAINWATER HARVESTING STRUCTURE

[Signature]
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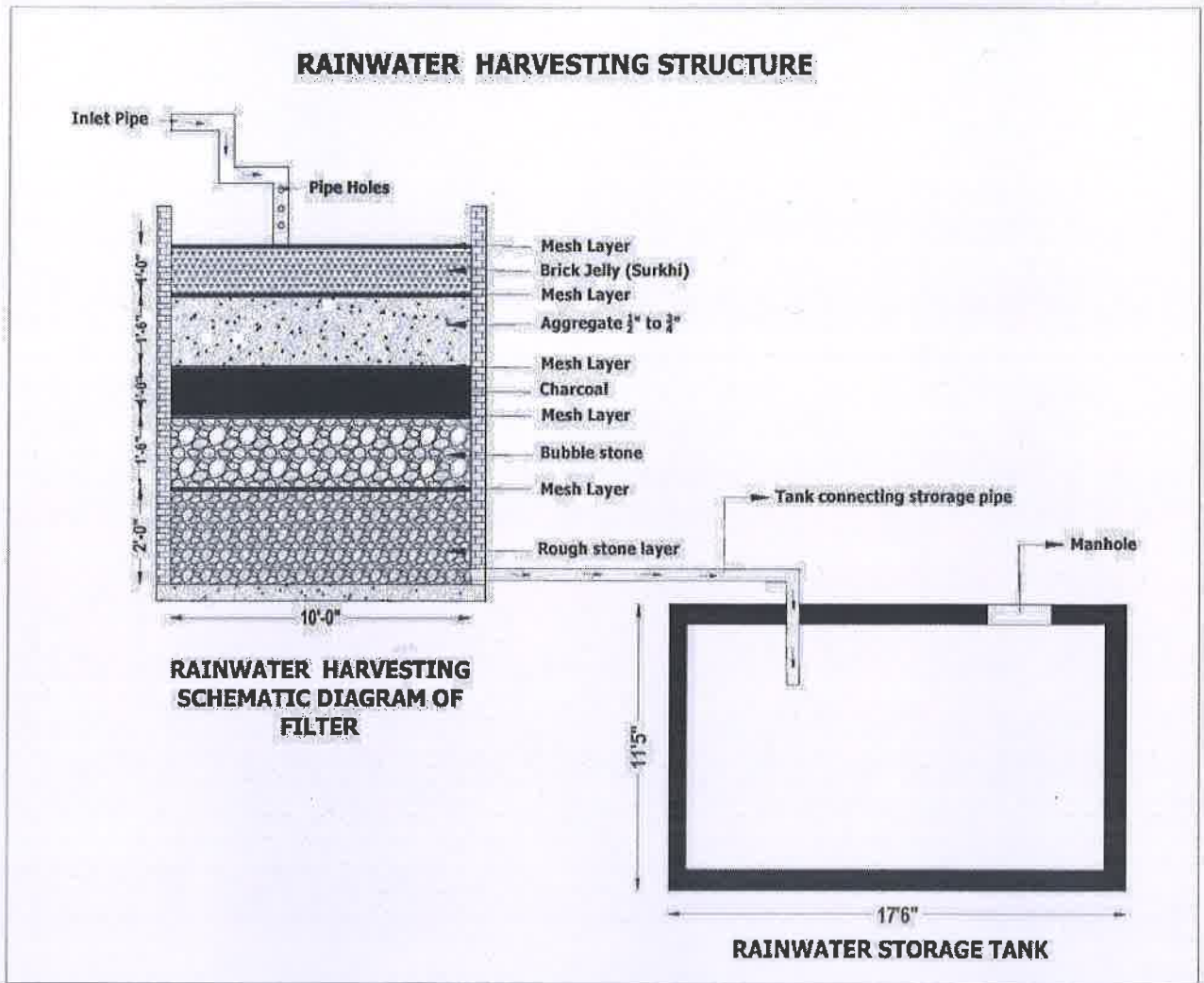


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BILLS FOR RAIN WATER HARVESTING

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CELL : 98651-46336

DYNAMIC MARKETING

31/7/2021

To JKKM College of Institute

1. Model : Floustar 5HP/15 GPM

6" Bonwell Submersible PUMPS - RS. 26,000 (1nos)

Amount Total: RS. 26,000

RUPEES TWENTY SIX THOUSAND ONLY

RS. 26,000/-
Cash Received

[Signature]
DYNAMIC MARKETING
Plot No. 511, J.K.K. Munirajah College
T.N. Palayam (Po), Erode (Dt) - 638506
Mobile: 98651-46336

[Signature]
10/7/21

Activate V
to Setting

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ORIGINAL

GSTIN: GSTIN: 33AATF60086R12 CELL: 9600506558
9842722370

SRI LAKSHMI SALES CORPORATION

NO: 63, BASAAN ST,
GOBI - 638 452

INVOICE

To: J.K.K.M Plaza T.N.Palayam		Payment Terms : Credit Bill No : 2900 Date : 29 03 2021			
S.No	Description	HSN Code	Qty	Rate	Amount
1	No.10 Copper Wash		1.630 KG	790.18	1287.99
2	COPPER PATTI		5 KG	790.00	3950.00
3	TANK ROLL	854590	12 Nos	12.00	144.00
Total			18.630		5381.99
Rounded Off :					0.01
R. & O.E.					Net Amount : 5382.00
Rupees Five Thousand Three Hundred And Eighty Two Only					
A/C.NUM:11114088001		STATE BANK OF INDIA			
BRANCH & IFSC CODE:SBIN0000839 ,GOBI		(UNDER COMPOSITE GST)			
Declaration:					
1. GOODS ONCE SOLD CANNOT BE TAKEN BACK.					
2. SUBJECT TO GOBI JURISDICTION.					

B. 5382/-
JKKMCT
CHECKED BY
G. THIRU
19/4/21

Handwritten signature

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Cell : 98427 23244 **ESTIMATE** Cell : 94432 12013

அபிராமி எலக்ட்ரிக் கல்ஸ்

14/231. சத்தி மெயின்ரோடு. பால் சொசைட்டி எதிரில்,
கரட்டிபாளையம், கோபி - 638 453.

நெ. தேதி 20/5/21

தலைவர் J.K.K. m. college of Technology

Nos.	Particulars	Rs.	Ps.
5	6 pc Elbo	2983	
5	6 pc Tee	1598	
1	6x4 Tee	705	
2	6x5 Tee	1460	
2	5x4 Bush	399	
5	6x4 Bush	1403	
4	4 pc shoe	380	
2	dash Val	520	
10	Ham plr	100	
2	Steel Dab	399	
		9940	

128,9940/-

JKKMCT
CHECKED BY

26/6/21

J.K.K.

T.N.

[Signature]
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Statement

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THOOKKANAICKENPALAYAM - 638 506. Erode (Dt.)

186

CASH PAYMENT VOUCHER

Date: 11/6/21

CUST CODE	AMOUNT		
	Rs.	Ps.	
		-	Towards purchase of vehicle parts
	2000/-		for Rain Water Pipe delivery from
		-	Gobi (Kalingayam to JKKM college)

(TN-36-54857)

Rupees 2000/-

Head of Account.....

Paid to Mr. S. Sakthi / Driver - 9842882895

Account of.....

Rupees in words Two thousand Rupees only

Cashier	Accounts Officer	Auditor	Admn. officer	Principal	Director
---------	------------------	---------	---------------	-----------	----------

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Annexi Pipes, Cloths ESTIMATE

To JKKMCT CASH BILL

Bill No : R-795
Bill Date: 20/05/2021

S.No	PARTICULARS	PCS	QTY	RATE	AMOUNT
1	6" Tee LW	9	9.00	365.00	3285.00
2	5" Elbow LW	1	1.00	373.00	373.00
Net Amount					3658.00

No of Items : 2
No of Qty : 10
No of Rs : 10

Rupees: Three Thousand Six Hundred And Fifty Eight Only

JKKMCT CHECKED

78
494
2054
12 or pm
B. Subramani

old Balu: 13883
New Bill : 3658
16941

for the purpose of plumbing material for rainwater harvesting in Engg. college.

[Signature]
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A. Vignesh Kumar
ARIESE

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JKKMCT - Civil & Hostel

எண் : 687 கீழ்ப்பணப்பில் தேதி: 24/3/21
முகவரி : U4285 324567 எண் : 99656 57232

P.A. இயற்காமி எல்லைக்காரி கலை
29, கடை வீதி, சுப்பிரமணியர் கோயில் மேடை, கோயி.

JKKM Hostel/Fuel

மாதிரி	விவரம்	ம.ப.	ம. ரூ.	ம. மொ.
	Room	10	5300	-
			5300	-

Handwritten notes: 5300/-, JKKMCT CHECKED BY, 24/3/21

Cell : 98427 23244 ESTIMATE Cell : 94432 12013

இயற்காமி எல்லைக்காரி கலை

14/231, சத்தி மையச்சேரி, பள்ளி சென்னை 638 453, கட்டிடப்பணியை, கோயி - 638 453.

எண் : 687 தேதி: 1/4/21
முகவரி : JKKM Fuel T.N. Palayam

Vos.	Particulars	Rs.	Ps.
8	70 mm @ 50	200	
4	50 mm @ 50	80	
4	70 mm con	100	
2	50 mm con	80	
		460	

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GOBI (Tk), ERODE (Dt),
JKKMCT CHECKED BY

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2. BORE WELL

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BRIEF REPORT ON BORE WELL

A deep, narrow well for water that is drilled into the ground and has a pipe fitted as casing in the upper part of the borehole, typically equipped with a pump to draw the water to the surface our College. Easy access and usage of ground water. The level of contamination is low as the water is below ground and can be accessed via bore well pipes only. Fewer chances of accidents and there is no open ground (Hole). Less dependency on government supply of water. Bore well is a long term solution to water accessibility. Bore well is an economical alternative as it will reduce your water bill and will ensure a consistent supply of water.

Bore well facilities in JKKMCT Campus

S.NO	BORE WELL LOCATION	TANK CAPACITY (In Liters)
1.	JKKMCT MAIN BLOCK	15,000
2.	SRI SARADHA DEVI ILLAM GIRLS HOSTEL	15,000
3.	SRI VIVEKANANDHAR ILLAM BOYS HOSTEL	60,000

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Bill for Water Meter (Bore wells)

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YUVA AUTOMATION							
		SF NO.611/1,2 THIRUMURUGAN NAGAR, CHENNIMALAI ROAD PERUNDURAI, ERODE, TAMILNADU-638052 Tel: +91 9894034267, 9730257315 GSTIN: 33BQNPM1145A1ZB					
Tax Invoice							
TO NAME: J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY				Invoice No: 21/21-22 Invoice date: 03/05/2021			
ADDRESS: T.N PALAYAM, GOBICHETIPALAYAM, ERODE(DT), TAMILNADU-638 506				State: Tamil Nadu State Code: 33			
GST IN:				Po no, date: 30/04/2021			
S.No	Product Description	HSN Code	UOM	Qty	Rate	Amount	Taxable Value
1	ELECTROMAGNETIC WATER FLOWMETER Make-FREHNG Model- FMF2040 SIZE- 1.5" Supply-230 vac	90261010	QTY	2	23768	47536	47536.00
2	ELECTROMAGNETIC WATER FLOWMETER Make-FREHNG Model- FMF2040 SIZE- 2" Supply-230 vac	90261010	QTY	1	24292	24292	24292.00
Total Invoice amount in words						Total	71828.00
EIGHTY FOUR THOUSAND SEVEN HUNDRED AND FIFTY SEVEN RUPEES ONLY						Total Amount before Tax	71828.00
						Add: CGST-	9% 6464.52
						Add: SGST-	9% 6464.52
Bank Details						Grand Total	84757
Bank A/C No.: 0293073000000373 Bank Name : SOUTH INDIAN BANK Branch Name : INGUR BRANCH Bank IFSC Code : SIBL0000293						For YUVA AUTOMATION Authorized signatory	
Terms & Conditions: 1. If any Clarifications, Please Contact us: 9894034267, mmsahc3685@gmail.com 2. Certify That the particulars given above are true and correct.							

RS. 84757/-
JKKMCT
CHECKED BY
[Signature]
7/5/21

7/5/21

[Signature]

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3. CONSTRUCTION OF TANKS AND BUNDS


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3. BRIEF REPORT ON CONSTRUCTION OF TANKS AND BUNDS

In the college campus tanks are constructed in all areas. The storage tanks situated at various locations of the college are pumped with ground water. We have a separate tank system for drinking as well as bore water for the convenient usage. Water from the bore well, open well and other water bodies are collected through the pipes and stored in the tank (at every block). Maintenance department of the college taking responsible for cleaning the tanks regularly as per the Government norms.

The proper Bunds are constructed in the campus and used for retaining the water, creating obstruction and thus to control erosion. Bunds can be used to hold rainwater in lightly sloping plains and to ensure that bunds continue to provide the necessary protection against leaks and spills etc.

Hence bunds should be assessed periodically to ensure that they continue to provide sufficient integrity around the campus.

CONSTRUCTION OF TANK & BUNDS:

It is containment around an area where hazardous liquids are handled, processed or stored. The type of bund most often seen consists of four walls and a base surrounding tank. It prevents leaked material from flowing directly into the process areas.

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4. Maintenance of water bodies and distribution system in the campus


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Brief report on Maintenance of water bodies and distribution system in the campus

The maintenance of our institutions water bodies is essential. It helps to preserve the biological balance of the Environment. The water bodies are natural assets, having multiple uses such as maintaining the water quality, balancing different environmental conditions.

Water distribution system for a network of pipes, generally in a tree-like structure, that is used to convey water from water bodies to water supplies.

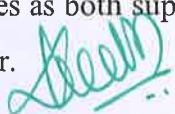
Distribution system in our campus.

The following methods are the water distribution systems used in our college campus to distribute the water effectively.

S.NO	METHODS
1.	One-pipe system
2.	Drip irrigation system
3.	Sprinkler irrigation system

Sprinkler irrigation system allows application of water under high pressure with the help of a pump. It releases water similar to rainfall through a small diameter nozzle placed in the pipes.

One-pipe systems are the simplest and easiest systems to understand and install. As the name implies, one-pipe systems have a single pipe to the pipe system, which serves as both supply and a return line. Each pipe system is equipped with an air vent to allow release of this air.


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Drip irrigation is the most efficient water and nutrient delivery system for growing plants. It delivers water and nutrients directly to the plant's roots zone, in the right amounts, at the right time, so each plant gets exactly what it needs, when it needs it, to grow optimally.

Whenever the problems are identified immediate actions are taken for restrict wastage of water.

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