

17.3.6 – REPORT OF SDG 6 - CLEAN WATER AND SANITATION





SDG 6 – CLEAN WATER AND SANITATION



CLEAN WATER AND SANITATION

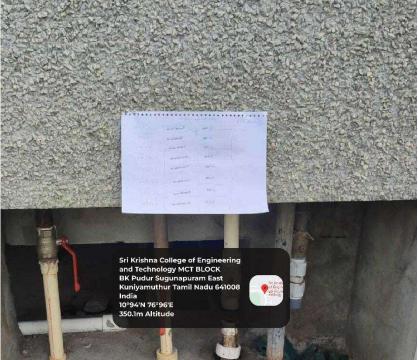
SDG 6: Its main goal is to guarantee universal access to sustainable water and sanitation management. In order to improve health, promote economic growth, and accomplish other SDGs, this objective highlights how crucial access to adequate water, sanitation, and hygiene (WASH) is. Preventing waterborne illnesses, lowering child mortality, and enhancing overall health outcomes all depend on having access to clean water and sanitary facilities. Enhancing access to clean water relieves the burden of getting water, which is frequently placed on women and girls, giving them more time for pursuits like schooling. An essential component of business, energy generation, and agriculture is water. Maintaining economic growth requires effective water utilization and good sanitation. Numerous other SDGs, such as eradicating poverty (SDG 1), promoting good health (SDG 3), promoting gender equality (SDG 5), and promoting sustainable consumption and production (SDG 12), are interconnected with clean water and sanitation.



OVERHEAD TANK MAINTENANCE

Periodic cleaning of the overhead tanks in different blocks is conducted to ensure the removal of accumulated sediment, dirt, and debris. This maintenance activity aims to maintain water quality and prevent blockages in the distribution system.







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OVERHEAD TANK MAINTENANCE







RO PLANT MAINTENANCE

The Reverse Osmosis (RO) plant in an academic campus is essential for supplying clean and safe drinking water to students, faculty, and staff. Regular maintenance is crucial to ensure the RO plant operates at its best and lasts for a long time. Key maintenance tasks include filter replacement, cleaning and sanitation, pressure and flow monitoring, pump and motor maintenance, and water quality testing. These measures are periodically implemented to ensure the provision of clean and potable water.







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OTHER SDGS INTERLINKED WITH SDG 6









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Institution has established various water conservation measures to harvest and recycle the water from the sources in the campus.

RAINWATER HARVESTING

Conventional rainwater harvesting pits measuring 02 feet x 02 feet in size have been established around the campus to collect the rooftop runoff. Rainwater is collected from a roof-like surface and redirected to a pit so that it seeps down and restores the groundwater.



(a) Conventional Rainwater Harvesting Pit

Rainwater harvesting pit (Long view)



Rainwater harvesting pit (Top view)



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(b) Perforated Drain Channel

Perforated land drain is used to collect water through the small holes located around the pipe. These holes allow water to seep from the ground into the pipe and be carried away over the drains directly into the drainage channels. This finally reaches the sewage treatment plant operated inside the campus. Here, the collected water is treated efficiently and reused for gardening, vehicle cleaning and toilet sanitation.



Perforated drain channel slabs (Close view)



Perforated drain channel slabs (Long view)



2. BOREWELL /OPEN WELL RECHARGE

The institute has installed 45 number of borehole points and 13 number of borewells within the campus to recharge the groundwater from runoff.



View of the bore well recharge facility

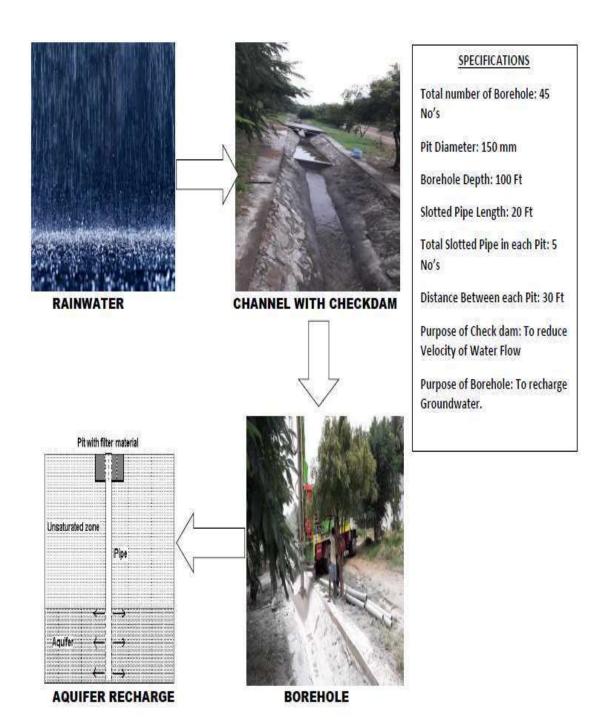


Map of Borewell points inside the campus





BOREHOLE FOR GROUNDWATER RECHARGE







3. CONSTRUCTION OF TANKS AND BUNDS

Institute has dedicated water tank to store and supply water to the entire campus requirement. The water is drawn from the borewell and stored in the Overhead Water Tank (OWT). From OWT it is distributed through underground pipelines to the destination points.



Overhead Water Tank





4. Bunds / Check dams with percolation pits by deep bore holes

Percolation pits along the runoff channels with a check dam facility have been built. Around 45 pits were excavated along the flow channel each measuring a depth of 100 feet. The check dams were constructed adjacent to each pit along the channel to store a minimum quantity of water in each chamber to recharge the groundwater and the excess water overflows to the next chamber along the channel.



Check dam along the runoff channel with percolation pits (Dry Season)



Check dam along the runoff channel with percolation pits (Rainy Season)





5. WASTE WATER RECYCLING

The campus wastewater discharged from restrooms, canteen and washing area are recycled through Sewage Treatment Plant installed inside the campus with a capacity of 450KLD. The treated wastewater is reused for gardening, flushing in toilets and cleaning vehicles.





Overview of Sewage Treatment Plant



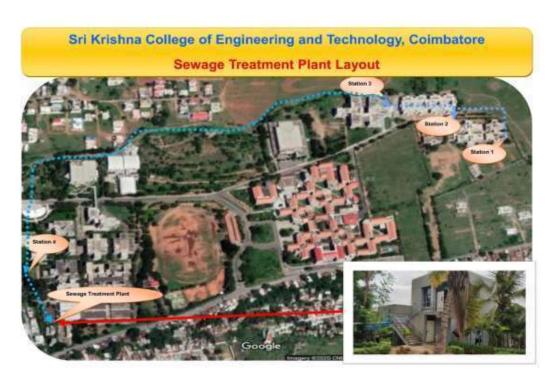
Primary treatment units







Secondary treatment units and treated water storage area



Google map layout showing the Sewage Treatment Plant and the collection stations





6. MAINTENANCE OF WATER BODIES AND DISTRIBUTION SYSTEM IN THE CAMPUS

Percolation Pond

Percolation pond is the most effective runoff harvesting structure inside the campus. An artificial percolation pond, holding 20,000 liters, is dug after assessing the landscape and existing drains to trap and retain rainwater runoff from roads and paved surfaces during intense rainfall. This extended retention period contributes to replenishing the local groundwater supply within the pond's area of influence.



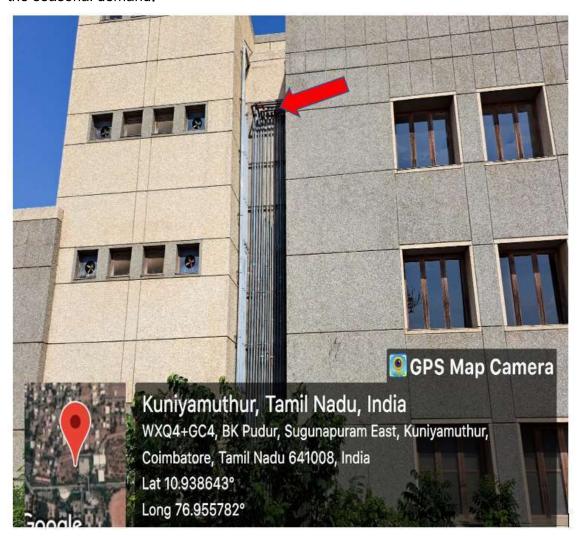
Runoff collection Pond



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Distribution system

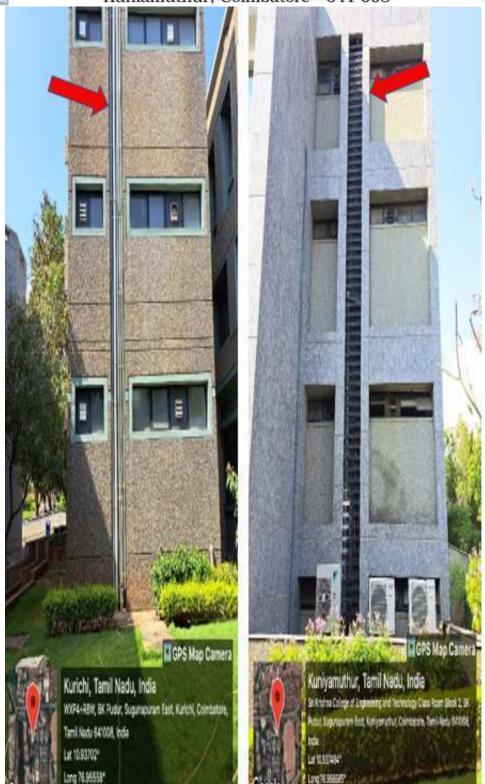
The water from borewell is pumped to ground level tank to overhead tank and is stored and distributed throughout the campus. The water is distributed through well laid pipe network to all areas inside the campus. Entire distribution system is well supervised by Civil works committee to ensure that there are no leakages and wastage of precious water through joints, valves etc. Maintenance of distribution system is taken care by the dedicated staff members (Plumbers). Whenever the problems are identified immediate actions are taken to avoid wastage of water. Drinking water is supplied from the institute Reverse Osmosis (RO) plant through water containers regularly based on the seasonal demand.



Distribution pipes in C2 class block





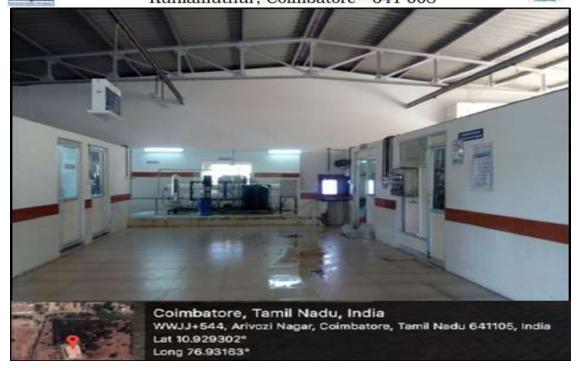


Distribution pipes in MCA block (Left side) and Admin block (right side)

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RO plant front view



Filtration units inside RO plant

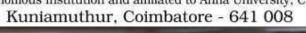


Filtered water storage unit

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Filtered water to water cans for distribution



Distribution of water cans from RO plant

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Drinking water facility in blocks

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Facilities in the Institution for the management of the following types of degradable and non-degradable waste

The Institution has implemented effective methods for managing the waste generated on the campus, employing the fundamental waste management strategy of 3R's: Reduce, Reuse, and Recycle. The types of waste generated on the campus encompass liquid waste, solid waste and chemical waste. Aligned with the Institution's environmental policy, the goal is to achieve zero discharge and ensure the comprehensive utilization of waste. The Institution has devised well-thought-out strategies to maintain a clean, hygienic and healthy campus environment.

SOLID WASTE MANAGEMENT

Renowned for its verdant campus, the Institution addresses the daily influx of organic waste and leaves through a robust Self -Developed Solid Waste Management system. This eco-conscious approach repurposes waste into fertilizers and manure, enriching the lush greenery that defines the campus. A systematic process, spanning Collection, Segregation, Deposition, Homogenization, Moisture Optimization, Harvesting, and Storage, ensures sustainability. The Institution has strategically placed multiple collection and segregation points, underscoring its commitment to environmental responsibility. The use of Plastics bags are prohibited within the campus.

LIQUID WASTE MANAGEMENT

The liquid waste produced by canteens, mess and toilets undergoes treatment at the on-campus Sewage Treatment Plant (STP) with a 450 KLD capacity located behind the laboratory block. The recycled water, enriched with nutrients beneficial for plant growth, is utilized for gardening purposes. The treatment process involves several stages: Screening Chamber, Aeration Tank, Sedimentation Tank, and Collection Tank 1, Pressure Filter, and Collection Tank 2. This systematic approach ensures the effective treatment of liquid waste, promoting environmental sustainability within the campus.

E-WASTE MANAGEMENT

The Institution has partnered with M/s. Green Era Recyclers, the sole certified e-waste recycler by Tamil Nadu Pollution Control Board in Coimbatore, to manage e waste. It effectively handles e-waste by routinely disposing significant items such as outdated instruments, computers and electronic gadgets. Miscellaneous e-waste, such as CDs, batteries, and PCBs, are collected and handed over to the partnered recycler.

WASTE RECYCLING SYSTEM

The campus places a high priority on recycling and reusing the waste it generates. The Institute owns waste water recycling system and degradable solid waste recycle system. Solid wastes are sorted into degradable and non-degradable categories. Degradable waste, such as garden and kitchen waste, undergoes composting in the solid waste yard to convert organic waste into manure. Additionally, food wastes from HoR – Men, HoR-Women and cafeteria are collected and transferred to bio-gas plant. Recyclable paper wastes, including answer sheets used by the students, old records and waste papers, are systematically collected and stored in a designated common room. The collected materials are then handed over to paper recyclers, contributing to the campus's efforts in promoting environmental responsibility.

HAZARDOUS CHEMICALS WASTE MANAGEMENT

Hazardous chemicals, including strong acids like HCL, HNO3, H2SO4, are securely stored in designated laboratory rooms, safeguarding human health and the environment. The Institution partners with M/s. Cheenu Enviro Management, authorized by TNPCB, for the safe handling and disposal of hazardous waste generated within the campus, aligning with Hazardous Waste Management Rules 2016.

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Aspire · Elate · Recycle

An E-waste management facility authorized by TNPCB

GSTIN 33AAQFG7914D1ZE

AGREEMENT FOR DISPOSAL OF E-WASTE

This Agreement is entered into on 5th November 2019 at Coimbatore by and between:

GREEN ERA RECYCLERS, a partnership firm having its Registered office at No.37, Sivanandha industrial complex, Dr. M.S. Udhayamurthy nagar, Edayarpalayam, thadagam road, Coimbatore-641025 (herein after referred as "Green Era") represented by its Partner Mr.Prasanth Omanakuttan.

AND

Sri Krishna College of Engineering and Technology having its Registered office at Kuniamuthur, Coimbaore-641008. (herein after referred as "Client") represented by its **Principal**, **Dr.J.Janet**.

For GREEN ERA RECYCLERS

Partner:

WHEREAS;

- Green Era Recyclers is an E-waste dismantling facility authorized by Tamil Nadu Pollution Control Board. Green era recycler has been identified by 01/EWM as its authorization number for safe handling of electrical and electronic waste as per E-waste management rules 2016.
- Green Era is operating a facility for the collection, transportation, dismantling and disposal of ewaste at Village S.F. No.344/2, Kavundampalayam Village, Coimbatore North Taluk, Coimbatore authorised by Tamil Nadu Pollution Control Board.
- CLIENT in compliance of the E-Waste Management & Handling Rules, 2016, desires to avail the services of Green Era for disposal of their segregated E-Waste, morefully detailed hereinafter under this Agreement.
- 4. CLIENT has approached Green Era and desires to appoint Green Era for the purpose of collection and disposal of its segregated E-Waste and the same has been accepted by Green Era in accordance with the terms of this Agreement.

NOW THIS AGREEMENT witnesses as follows;

I. DEFINITIONS AND INTERPRETATION

Electronic Waste (E-Waste) - The term E-Waste will refer to the below mentioned electrical and electronic waste along with all E-waste mentioned under **Schedule I of E-waste management rules 2016**, for the purpose of this Agreement.

- a) Computers & Peripherals (CPU, Keyboard, Mouse& Monitor)
- b) Laptops
- c) Servers
- d) PCBs
- e) Mobiles or Communication devices
- f) Mother Boards (Computers & Laptops)
- g) Security Devices
- h) Telecom Equipment
- i) Printers & Scanners
- j) Military Electronic
- k) Control Systems
- 1) Cables &wires
- m) Batteries
- n) CD/DVD

II. SCOPE OF THE AGREEMENT

- Green Era shall collect, transport, and dispose the E-Waste collected from the premises of CLIENT. It shall be the responsibility of Green Era to demagnetize the hard disks before disposing them off in accordance with the terms of the contract. If the hard disks come along with the CPU the activity would be taken care by Green Era at free of cost. However Hazardous components such as CFL, fluorescent bulbs, Toner cartridges are subjected to disposal fee which has to be paid by Client.
- 2. CLIENT shall appoint a dedicated representative who shall be responsible for operational, delivery and day to day management of the Service and act as the principal point of contact under this Agreement. Any notice seeking clarification served on such representative shall be deemed to have been served on the Party concerned. The representative of Client shall sign Form 6 under the compliance of the E-Waste Management & Handling Rules, 2016, and such other required documents for acknowledging the E-Waste being handed over to Green Era.



- 3. CLIENT shall segregate the E-Waste at one designated place within the premises from where the representatives of Green Era shall collect the E-Waste.
- 4. CLIENT is required to have at least 350 Kgs of E-waste in possession to be considered eligible for transportation by Green Era. If the quantity is less than the mentioned, then it is the responsibility of the Client to transport the e-waste to Green Era Facility.
- 5. Upon intimation from CLIENT, Green Era shall within 15 days there from, arrange for collection of E-Waste as per the applicable provisions. CLIENT shall issue delivery challan before collection of the E-Waste from the designated place by Green Era.
- 6. The E-Waste collected shall be weighed by the Parties at the nearest weighment center available as identified by the Parties. The weighment of the E-Waste shall be done in the presence of the representatives of both the Parties and both the Parties shall acknowledge such weighment slip generated. In case of any discrepancy in the weighment as per delivery challan and the weighment slip, the details as per weighment slip shall be considered for payment by Green Era.
- 7. CLIENT liability shall cease once the E-Waste has been collected by Green Era from its premises except for any non-disclosure of any material information known to CLIENT with regard to E-Waste from Green Era during the handover of such E Waste. It is specifically agreed and understood that compliances of applicable law during transportation and disposal of E-Waste shall be exclusive responsibility of Green Era.
- 8. Green Era shall, issue a Recycling certificate as prescribed under applicable laws within Thirty (30) days from receipt of such request.

III. INDUSTRY-ACADEMIA COLLABORATION SCOPE:

- 1. Green Era agrees to provide awareness support to Client by conducting E-waste management program.
- 2. Green Era Permits for industrial visits to students of Client pertaining to the scope to its factory premises by suitable mentors from either side with prior approval from concerned authorities.
- 3. Green Era agrees to share their resource and skill sets with Client by involving students and faculties to take up collaborative academic/industry projects with mutual benefit.
- 4. Green Era supports in curriculum framing pertaining to E-waste management for specific under graduate programs offered by Client.

IV. TERM AND TERMINATION

- 1. This Agreement shall be in force for a period of 4 years from the date of signing of this Agreement. Upon completion of the term, the Agreement may be renewed at the option of both the Parties in writing on mutually agreed terms and conditions.
- 2. The Agreement may be terminated by either party without assigning any reason, by giving fifteen (15) days prior written notice to the other Party.

V. COMPLIANCE WITH LAWS

1. Green Era represents and warrants to CLIENT that it has all necessary statutory permissions, consents, approvals and licenses to carry out business of collection, transportation, storage, management and disposal of E-Waste and it shall maintain all such permissions, consents, approvals and licenses during the term of this Agreement.

For GREEN ERA RECYCLERS

Partner

2. Green Era further agrees that:

i. It shall exercise all safety precaution and best management practices, required by law, in providing

service under this Agreement.

ii. It shall notify CLIENT immediately if any permit, licenses, certificate, consent approval or identification number required for the performance of its service under this Agreement has been revoked, modified, expired, suspended or not been renewed.

iii. Green Era shall comply with all applicable laws, rules and regulations and shall indemnify and hold Client harmless in this regard.

VI. DISPUTE RESOLUTION

- 1. This Agreement shall be governed and construed in accordance with the laws of India.
- 2. Any dispute or breach arising out of or in relation to this Agreement shall be referred to arbitration to be conducted by a sole arbitrator mutually appointed by the parties herein, in accordance with the Arbitration and Conciliation Act, 1996. The venue of arbitration shall be Coimbatore and the proceedings shall be conducted in English. The decision of the arbitration shall be final and binding on both the Parties. No Party shall make public the award of the arbitration without the prior written consent of the other Party. The Party in default shall bear the cost of arbitration.
- 3. Subject to the arbitration provisions herein, courts of competent jurisdiction in Coimbatore shall have the exclusive jurisdiction on the matters arising out of or in connection with this Agreement. No Party shall be restrained from approaching the court for seeking interim relief under this Agreement.

IN WITNESS WHEREOF, this Agreement has been signed and executed by the duly authorized representatives of each Party hereto on above mentioned date.

For Green Era Recyclers

CBE-25

Mr. Prasanth Omanakuttan

Witnesses:

Partner

2. Sophia)

For Sri Krishna College of Engineering and Technology

Dr.J.Janet **Principal**



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BILLS FOR THE ESTABLISHMENT OF FACILITIES





HAYMAN

ENVIROMENTAL ENGINEERING PRIVATE LIMITED

Excellence we repeat - which is not an act but habit

First Floor A, Sree Kumaran Silver Park, Perundurai main road,

Registered

Opp AET school, Vallipurathanpalayam Post,

Office:

Erode - 638 112, Tamilnadu Mobile: +91 94430-10794

Email: haymaninternational@gmail.com, www.hayman.ir

INV NO: 02	INVOICE 0/2023 - 2024					Date : 30.04.202
Skri Krishna College of Engineering and Technology 8K Pudur, Sugunapuram East, Coimbatore - 641042		Delivery at: Sri Krishna College of Engineering and Technology Coimbatore - 641042				
PO NO: 601 D	PR 30 P		PAYMENT SCHEDULE: 100% advance,			
S.No	Item Description	HSN code	Qty	Unit	-	Total
	STP operating and maintaninance charges for the month of			-	Rs. P	Rs. P
1	April 2023	999433	5	Nos	21,250.00	1,06,250.00
				Ť.	Total Value	1,06,250.00
					CGST @9%	9,562.50
					SGST @9%	9,562.50
					Round off	
					GST Total	1,25,375.00
(Rupees one	lac twenty five thousand three hundred and seventy five only	V2				
	Payment by demand draft at Erode/At par cheque payable at	all Branches/RTG	is.			
Account No Ifsc Code Bank Name	me : Hayman Enviromental Engineering Private Limited : 36071676728 : SBIN0012779 : State Bank of India : URC Nagar - Erode	For HAYN	N ENVI	ROMEN	ITAL ENGINEERII	NG PRIVATE LIMITE

Dr. D. Maruthachalam.M.E., Ph.D., Professor & Head

Department of Civil Engineering Sri Krishna College of

Engineering and Technology

Kuniamuthur, Coimbatore - 641 008.



SRI SUGUMAR CONSTRUCTION

No.5, M.G.R. Nagar, Kovaipudur, Coimbatore - 641 042. GSTIN: 33BSYPS4443L1ZW E-mail: msugumar344@gmail.com

04.02.2023

TO

Sri Krishna College of Engineering and Technology

Kuniamuthur

Coimbatore-641008.

Name of work

: NMR Work.

Bill No

: 107

S.NO	DESCRIPTION	AMOUNT
	Earthwork excavation in green house for rainwater pipeline laying work. Earthwork excavation in Boys hostel near E-block for networking fiber cable laying work.	7700.00
	SGST 9%	693.00
	CGST9%	693.00
	SUGUMAR TOTAL STRUCTION	9086.00

(Nine Thousand and Eighty Six Only)

or D Maruthachalam.M.E.Ph.D.

Sri Assault College of Early Sentineering Sri Assault College of Early Sentineering and Technology Early Sentineering Communities 541 00%

M. Sukumar)

Per Dt. 04/02/23



No.5, M.G.R. Nagar, Kovaipudur, Coimbatore - 641 042. GSTIN: 33BSYPS4443L1ZW E-mail: msugumar344@gmail.com

10.12.2022

TO

Sri Krishna College of Engineering and Technology

Kuniamuthure

Coimbatore-641008.

Name of work : NMR Work.

Bill No

: 79

S.NO	DESCRIPTION	AMOUNT
	Compound wall height increasing work flyash brick work in sri Krishna hall north side and material shifting loading using our jcb and rainwater trench depries cleaning work.	19200.00
	SGST 9%	1728.00
	CGST9%	1728.00
	TOTAL	22656.00

(Twenty Two Thousand Six Hundred and Fifty Six only)

Dr. D. Maruthachalam.m.E.,Ph.D., Professor & Head Department of Civil Engineering Sri Krishna College of Engineering and Technology Kuniamuthur, Coimbatore - 641 008.

SRI SUGUMAR CONSTRUC

No.5, M.G.R. Nagar, Kovaipudur, Coimbatore - 641 042. GSTIN: 33BSYPS4443L1ZW E-mail: msugumar344@gmail.com

28.06.2022

TO

Sri Krishna College of Engineering and Technology

Kuniamuture

Coimbatore-641008.

Name of work : NMR Work

Bill No

: 20

S.NO	DESCRIPTION	AMOUNT
	Green house Entry side wall Brickwork 9"wall and play ground inside ms mesh & pipes shifting work. 9"wall plastering work and bore well percolation pit,Rainwater Trench cleaning.C3 block backside depries shifting using JCB.	26700.00
	SGST 9%	2403.00
	CGST9%	2403.00
	TOTAL	31506.00

(Thirty One Thousand Five Hundred and Six only)

Dr. Maruthachalam.m.E.,Ph.D.,

Frofessor & Head

Downwent of Civil Engineering

Si mishna College of

Engineering and Technology

Kumamumur, Combatore - 641 008.

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28.05.2022

TO

Sri Krishna College of Engineering and Technology

Kuniamuture

Coimbatore-641008.

Name of work : NMR Work

Bill No

: 10

S.NO	DESCRIPTION	AMOUNT
	Pathway step brick work, Filling and plastering work. C3 block backside, ribbed slas, kerb relaying near IInd main gate, rainwater trench depries cleaning and tree cutting near C3-block backside borewell. Green house & play House pit marking and earth work and ladies hostel roadside cleaning work.	23700.00
	SGST 9%	2133.00
	CGST9%	2133.00
	TOTAL	27966.00

(Twenty Seven Thousand Nine Hundred and Sixty Six only)

Dr. D. Maruthachalam.M.E.,Ph.D.,

Professor & Head

Department of Civil Engineering

Sri Krishna College of

Engineering and Technology Kuniamuthur, Colmbatore - 641 008. (M. Sukumar)



SRI SUGUMAR CONSTRUCT

No.5, M.G.R. Nagar, Kovaipudur, Coimbatore - 641 042. GSTIN: 33BSYPS4443L1ZW E-mail: msugumar344@gmail.com

25.04.2022

TO

Sri Krishna College of Engineering and Technology

Kuniamuture

Coimbatore-641008.

Name of work : NMR Work

Bill No

: 03

S.NO	DESCRIPTION	AMOUNT
	Rainwater Trench And Bore well percolations Pit Cleaning And Removing Work From Powerhouse 1 To Ground Gateway, Arts Collage Wall Demolishing work, Rainwater Trench And Bore well percolations Pit Cleaning And Removing Work In Ladies Hostel Roadside, Rainwater And Electrical Trench Cleaning Work In C3 Block Backside, Brickwork And Plastering Work In Arts Collage, Powerhouse 1 Backside Areas Tree Cutting Work	14650.00
	SGST 9%	1318.50
	CGST9%	1318.50
	TOTAL	17287.00

(Seventeen Thousand Two Hundred Eighty Seven Only)

Dr. D. Maruthachalam, M.E.,Ph.D., Professor & Head

Department of Civil Engineering Sri Krishna College of

Engineering and Technology

Kuniamuthur, Coimbatore - 641 008

(M. Sukumar)