



J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY

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

Accredited by NAAC with "A" grade


T.N.Palayam(Po), Gobi(Tk), Erode(Dt) – 638506



7.1 INSTITUTIONAL VALUES AND SOCIAL RESPONSIBILITIES

Facilities in the institution for the management of degradable and non-degradable waste

- 1. Solid waste management**
- 2. Liquid waste management**
- 3. E-waste management**
- 4. Waste recycling system**
- 5. Hazardous chemicals and radioactive waste management**


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OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506,
GOBI (Tk), ERODE (Dt).



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7.1.3 Facilities in the institution for the management of degradable and non-degradable waste

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1.1 SOLID WASTE MANAGEMENT

- Sufficient numbers of waste bins are available in the campus for the students to dispose degradable and non-Degradable wastes
- Bio-Degradable wastes include food wastes, canteen waste, human waste, paper waste and etc.
- Non-Biodegradable waste include plastic, tins, metals, glass bottles and etc.
- Collection from each facility
- Door to door or community-based collection
- Source segregation via separate bins as per the waste
- After collection segregation before the processing of waste starts

Waste Transportation

- Transportation of waste from the point of collection to point of processing
- Waste must be transported under covered conditions to avoid littering
- Exposure of the waste to the public should be minimized

Waste Processing

- Waste processing refers to the activities required to ensure that waste has the least practicable impact on the environment
- Composting Scrap & metal recycling, Anaerobic Digestion (AD), Emerging Energy Technologies, Chemical waste, recovered paper sector, Wood, Plastics, Glass and Rubber recycling are some of the techniques.

Waste Disposal

- Waste disposal is the proper disposal of a discarded or discharged material in accordance with local environmental guidelines or laws.
- Disposal includes burning, burial at landfill sites or at sea, and recycling

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Photos of Degradable and Non-Degradable Waste Bin

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Photos of Interior view of Degradable and Non-Degradable Waste Bin

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Photos of Degradable and Non-Degradable Waste Bin in First floor

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Photo of Degradable and Non-Degradable Waste Bin in second floor


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Photos of Degradable and Non-Degradable Waste Bin in Third floor

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Bio-degradable and Non-Biodegradable wastes are put in proper waste bins located in workshop labs and corridors

Handwritten signature
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Bill for DustBin

State: Tamilnadu, Code : 33 GSTIN : 33AEWPI8097A1Z6

Website : www.jaganmetalmart.com
E-mail : jaganmetalmart@gmail.com

ஜெகன் மெட்டல் மார்ட்™
455, தாராபுரம் மெயின் ரோடு, மொடச்சூர், கோபி - 638 476

Original 94876 88888
93444 66143

To J.K.K MUNIRAJAH COLLEGE OF TECHNOLOGY
T.N.PALAYAM

Ph: 8675834476

GST INVOICE
Cash / Credit
No. : J- 8764
Date : 04/05/2021 03:43PM

No	BC	HSN Code	Item Code	Description	CGST %	SGST %	IGST %	Qty	Rate	Amount
1	6822	3924		D Dustbin PLA	9	9	0	17	6000.00	272000.00
Sub Total										272000.00
Grand Total										272000.00

Handwritten: P: 2,72,000/-
JKKMCT
CHECKED BY
[Signature] 04/05/21

Type	Basic	Tax	Basic	Tax	Basic	Tax	Basic	Tax
CGST	230508.48	20745.76						
SGST	230508.48	20745.76						

SI

விற்பனாருள் திரும்பிப்பெற இயலாது பொருட்களை சரி பார்த்து எடுத்துச் செல்லவும்

for ஜெகன் மெட்டல் மார்ட்™
[Signature]
Authorized Signatory

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Photo of Solid Waste Management


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GARBAGE COLLECTION VEHICLE

- The wastes collected from waste bins are regularly shifted to collecting trolleys
By Housekeeping staff members
- They are then dumped in the specified place located away from the academic area and
process
Accordingly.

Waste Collection Vehicle

- Front loaders.
- Rear Loaders.
- ASL (automated side Loaders)
- Pneumatic collection.
- Grapple Trucks.

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Garbage collection vehicle



Photo of Garbage collection vehicle (Municipality T.N-palayam)

[Handwritten Signature]

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Photo of Garbage collection vehicle (Municipality T.N-palayam)


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Municipal Certificate for Solid waste management

அனுப்புநர் :

திரு. **P.சேகர்**

தலைவர்,

புஞ்சைத்துறையாள்பாளையம் ஊராட்சி,
தூக்கநாயக்கன்பாளையம் ஊராட்சி ஒன்றியம்,
ஈரோடு மாவட்டம் - 638 506.
செல் : 98650 95686.

பெறுநர் :

The Principal,
J.K.K. MUNIRAJAH COLLEGE OF
TECHNOLOGY, T.N. PALAYAM
Pin Code - 638 506

நாள் : 22-12-2021

This is to Certify that the JKK MUNIRAJAH COLLEGE OF TECHNOLOGY has a tie up with our municipality (Tn Palayam). We from our municipality arrange a separate Vehicle to dispose the solid Liquid & Garbage waste materials from the college on weekly basis. So that the college is maintained hygienically.

This certificate Valid for 3 years

p. add
தலைவர்,
புஞ்சைத்துறையாள்பாளையம்
ஊராட்சி

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BIOGAS PLANT

1. Biogas plant(7.5 kg/day of LPG per 100 kg of waste) is available where Biogas is produced by produced by fermenting biomass.
2. Organic input materials, manure and dung are fed into the biogas plant.
3. They are converted into bio fertilizer and spread onto fields
4. Bio gas obtained from the plant is used for cooking.

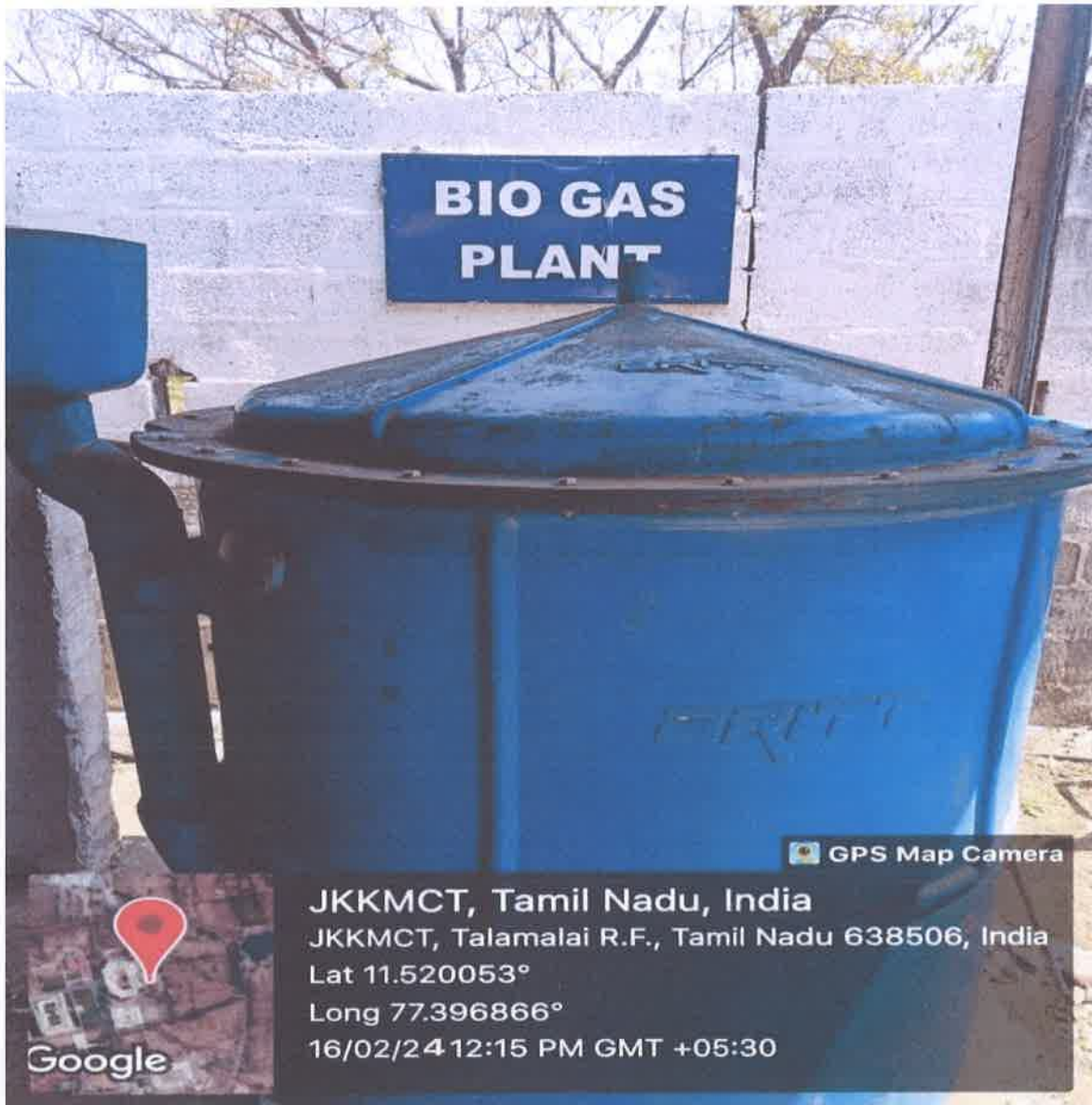


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Photos of Biogas plant in our College Boys Hostel

Aswini
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Photo of Unitization of Biogas in Pantry



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Food Waste



Photo of Food waste in Hostel and Canteen


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Food Waste Disposal

- Food Wastes collected from hostels, guest houses and canteen are given to pigs and poultry farm Located near thugganayakampalayam.
- Bio-degradable wastes are effectively converted to fertilizer by composting technology inside the campus.
- Plan your meals. Instead of buying whatever is left on the shelves, try to buy only what you eat, and eat what you buy.
- Organize your fridge for success.
- Learn some new cooking skills.
- To realize an environment with zero Food-waste, several quotations, news paper articles and awareness statements are displayed in notice boards through which students and employees Are inspired to reduce food/water loss and waste.
- To inculcate the students and employees with the practice of using water efficiently and cutting down its wastage or unnecessary usage, awareness signboards are kept at various places of the campu



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Certificate for Food waste management



Form C
Government of Tamil Nadu
Department
(Food Safety Wing)
Food Safety and Standards Authority of India
License under FSS Act, 2006



License Number: 12422007000286



- | | |
|--|--|
| 1. Name & Registered Office address of Licensee: | J.K.K.MUNIRAJA COLLEGE OF TECHNOLOGY / PRINCIPAL
T.N.PALAYAM , GOBICHETTIPALAYAM , MOB
NO - 9952633222, Erode, Tamil Nadu-638506 |
| 2. Address of Authorized Premises: | T.N.PALAYAM , GOBICHETTIPALAYAM , MOB
NO - 9952633222, T.N.Palayam block, Erode,
Tamil Nadu-638506 |
| 3. Kind of Business: | Food Services - Club/Canteen |
| 4. Dairy Business Details: | No |
| 5. Category of License: | State License |

This license is granted under and is subject to the provisions of FSS Act, 2006 all of which must be complied with by the licensee.

Place: Erode

Designated Officer

Issued On: 12-04-2023 (New License)


Valid Upto: 11-04-2024 (For details, refer Annexure)

Annexures:

1. [Product Annexure](#)
2. [Validity Annexure](#)
3. [Non-Form C Annexure](#)
4. [Conditions Of License](#)

Note:

1. Application for renewal of License can be filed as early as 180 days prior to expiry date of License. You can file application for renewal or modification of License by login into FSSAI's Food Safety Compliance System(<https://fscos.fssai.gov.in>) with your user id and password or call us at 1800112100 for any clarification.
2. This License is only to commence or carry on food businesses and not for any other purpose.
3. This is computer generated license and doesn't require any signature or stamp by authority.


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Product Annexure



Form C
Government of Tamil Nadu
Department
(Food Safety Wing)

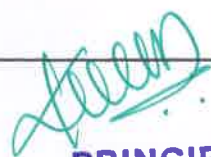


Food Safety and Standards Authority of India
License under FSS Act, 2006

License Number: 12422007000286

Kind Of Business: Food Services - Club/Canteen

Sl.No.	Product(s)
1	01 - Dairy products and analogues, excluding products of food category 2.0
2	04 - Fruits and vegetables (including mushrooms and fungi, roots and tubers, fresh pulses and legumes, and aloe vera), seaweeds, and nuts and seeds
3	06 - Cereals and cereal products, derived from cereal grains, from roots and tubers, pulses, legumes and pith or soft core of palm tree, excluding bakery wares of food category 7.0
4	08 - Meat and meat products, including poultry and game
5	07 - Bakery products
6	12 - Salts, spices, soups, sauces, salads and protein products
7	15 - Ready-to-eat savouries
8	16 - Prepared Foods


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1.2 LIQUID WASTE MANAGEMENT

The waste chemicals mixed water from laboratory passes through concealed pipe line into soak pit & recycled water is used for the watering trees or non-potable usage. Liquids are diluted by getting mixed with the washroom and toilet liquid wastes in to the common drainage.

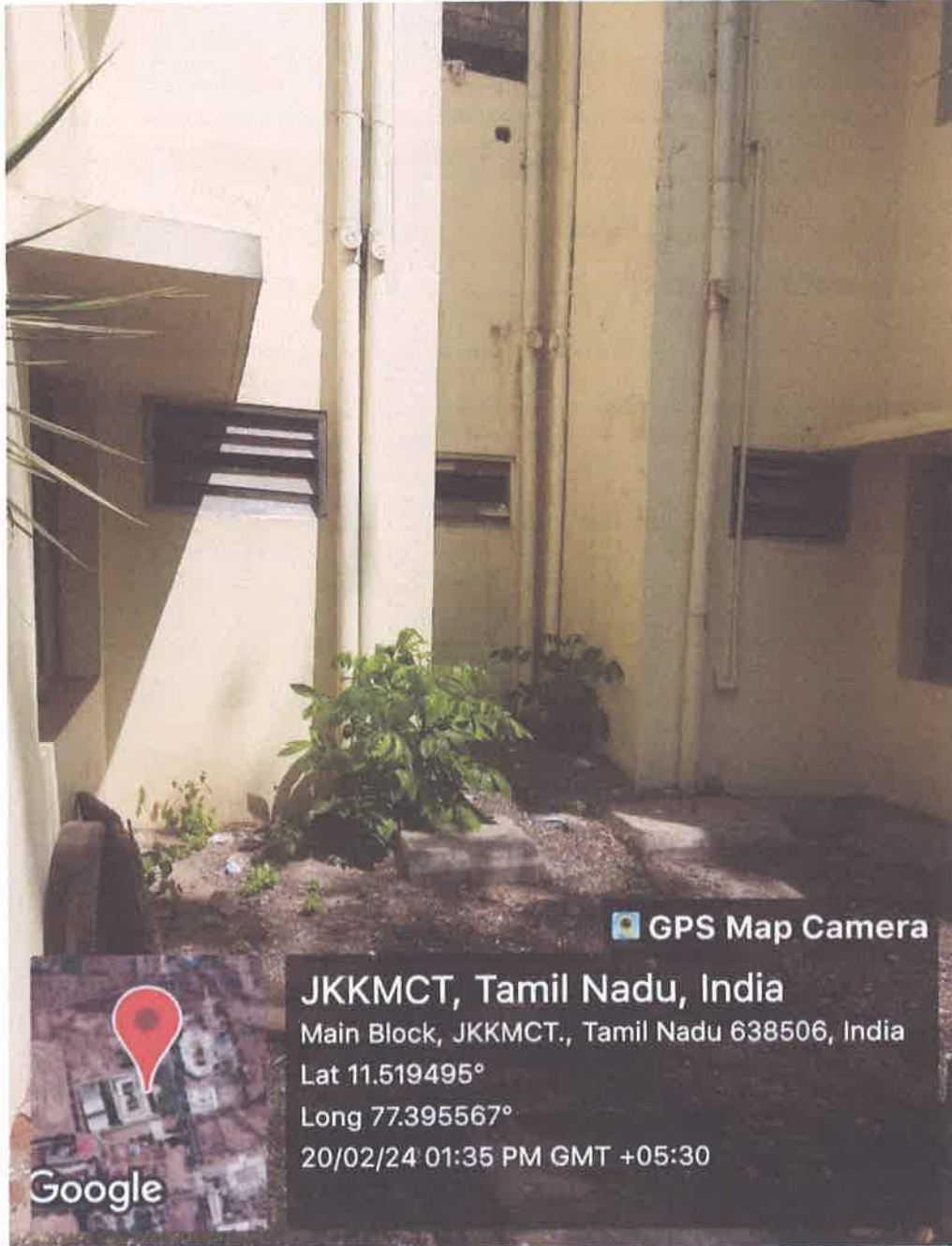


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GPS Map Camera

JKKMCT, Tamil Nadu, India

Main Block, JKKMCT., Tamil Nadu 638506, India

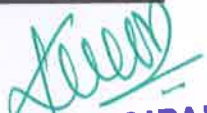
Lat 11.519495°

Long 77.395567°

20/02/24 01:35 PM GMT +05:30

Google

Photo of liquid waste Management pipe lines


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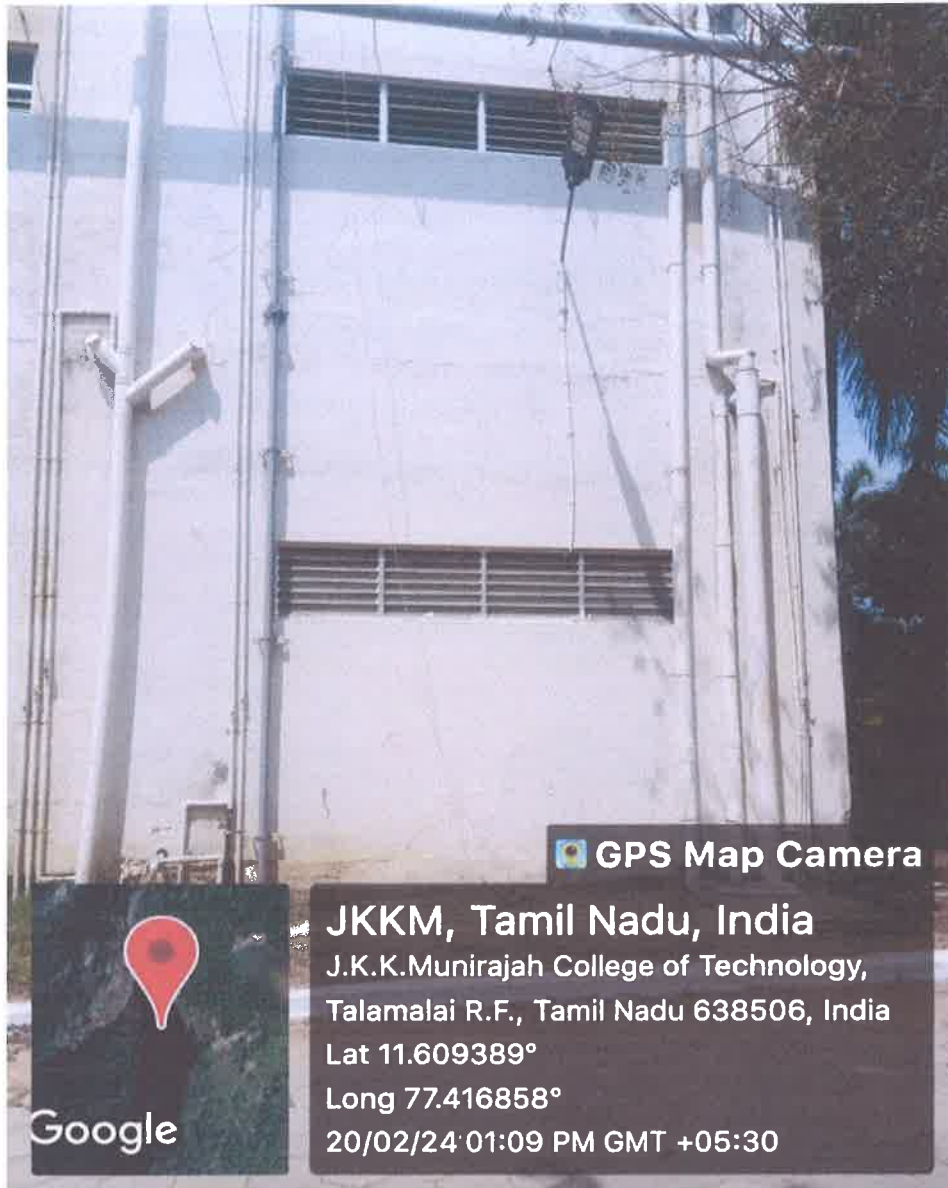


Photo of liquid waste Management pipe lines



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Photo of Septic tank located with our college backside



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Photo of Liquid waste Management (Save Water)

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Photo of Liquid waste Management (Save Water)

[Handwritten Signature]

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1.3 SANITARY NAPKIN INCINERATOR

- In House disposal facility of sanitary napkins
- Incineration is used by the institute to dispose of the solid waste.
- Sanitary napkin incinerations are installed inside the campus to promote hygiene.

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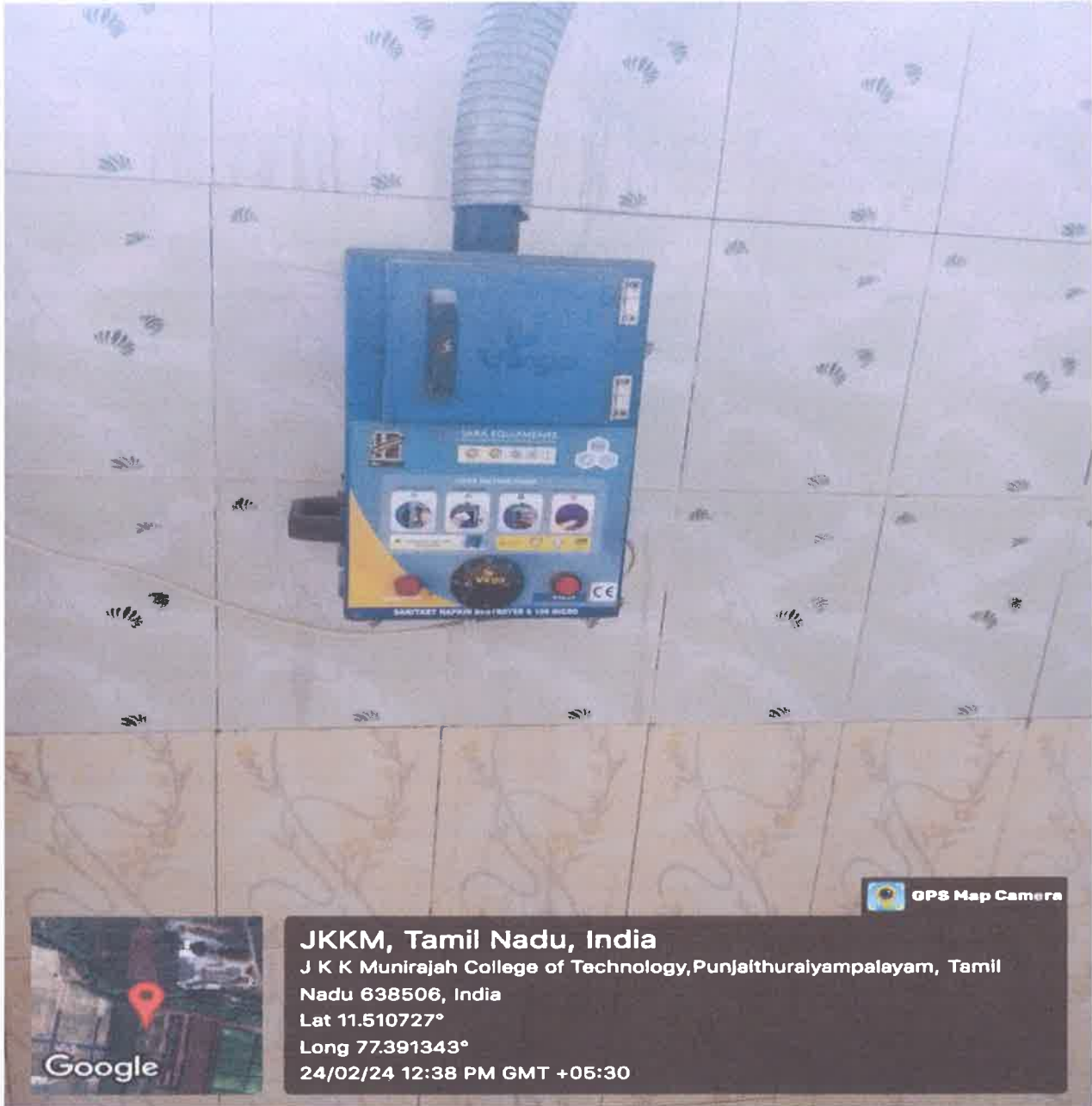



Photo of JKKMCT Sanitary Napkin Incinerator


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Bill for Sanitary Napkin Incinerator



PRO FORMA INVOICE

Ref: SARA202204011/TN 22-23

Date: 11-04-2022

To:
JKKM College
Erode.

PRODUCT	DESCRIPTION	UNIT PRICE	Quantity	FINAL PRICE
	VIRGO Automatic Napkin Destroyer Model:MSMAXS100	9,999	8	79,992
	Hose Pipe	0	8	0
	Steel Cap	0	8	0
TOTAL				79,992
Discount				10,792
Extra Installation				5,200
Service Plan:	Baby Care	Extra	Transportation	0
In Word	Eighty seven thousand seven hundred and ninety two only.			Gst 18%
				Grand TOTAL

TERMS AND CONDITIONS

PAYMENT	: 100 % before Dispatch.
BANKER'S DETAIL	: M/s. SARA EQUIPMENTS, "State Bank Of India", Palladam Branch, A/c No. 33606490183, IFSC: SBIN0011055
DELIVERY	: 3 Days if stock avail OR 10 - 15 Days from the date of advance.
TRANSPORTATION	: @ Ex Works "TIRUPUR, TAMILNADU".
TAX	: GST 18% Extra.
PACKING	: As per the Service Plan.
VALIDITY	: 90 Days.
INSTALLATION	: Installation CD will be sent along with machine to guide you
INSPECTION	: You can inspect the materials prior to dispatch.
RETURN / REFUND POLICY	: No Return & Non-refundable.

Machine specification, prices (cost) and Models are changeable and this is subject to confirmation as per the company norms.



CORPORATE OFFICE: #19, 2nd Floor, K.V.B Arcade, 2nd Main Road, 2nd Block,
Behind Gokuldas Images, Georgepostpalayam, Bengaluru - 560072, KARNATAKA, INDIA
Ph: +91-80-41507899 | GSTIN: 29BGDP3412F124

HEAD OFFICE: #37/859-A, 1st Floor, Meelakodes, Nachipalayam Puthu,
Palladam Main Road, Vellorepanthi (P), Tirupur - 641605, TAMILNADU, INDIA
Ph: +91-421-4330009 | GSTIN: 33BCDP5413F112F



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Gobi (Tk), ERODE (Dt).



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2.3. AGRICULTURAL WASTE

- It includes bio-degradable wastes such as dry leaves, grass cuttings, twigs, hay and straw.
- They are used in composting process for making some organic fertilizer.
- Biofuels. Plant waste can produce biofuels such as biodiesel or ethanol. ...
- Plastic Substitutes. After the juice has been extracted from sugarcane, the stalk that is left is known as bagasse. ...
- Bioplastics are getting both stronger and greener. ...
- Compost.
- The benefits of recycling of agricultural solid wastes include reduction of greenhouse gas emissions and use as fossil fuel as well as contributing significantly to the development of new green markets, creation of jobs, production of bio-energy and bio-conversion of agricultural solid wastes to animal feed



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Photo of Agricultural Waste



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3.E-WASTE

3.1. E-waste Management

- Electronic goods are put to optimum use by repair work done by technical assistant
- Non repairable e-waste like obsolete electronic devices such as computer systems, servers, monitors, compact discs, printers, scanners, calculators, fax machine, battery cells are used models to explain concepts to the students.
- Otherwise, safely stored in a room and sold as a scrap for every academic year.
- Students are encouraged to reuse e-waste for project.
- Data are stored in cloud, to avoid the usage of CD-ROM and pen drives.



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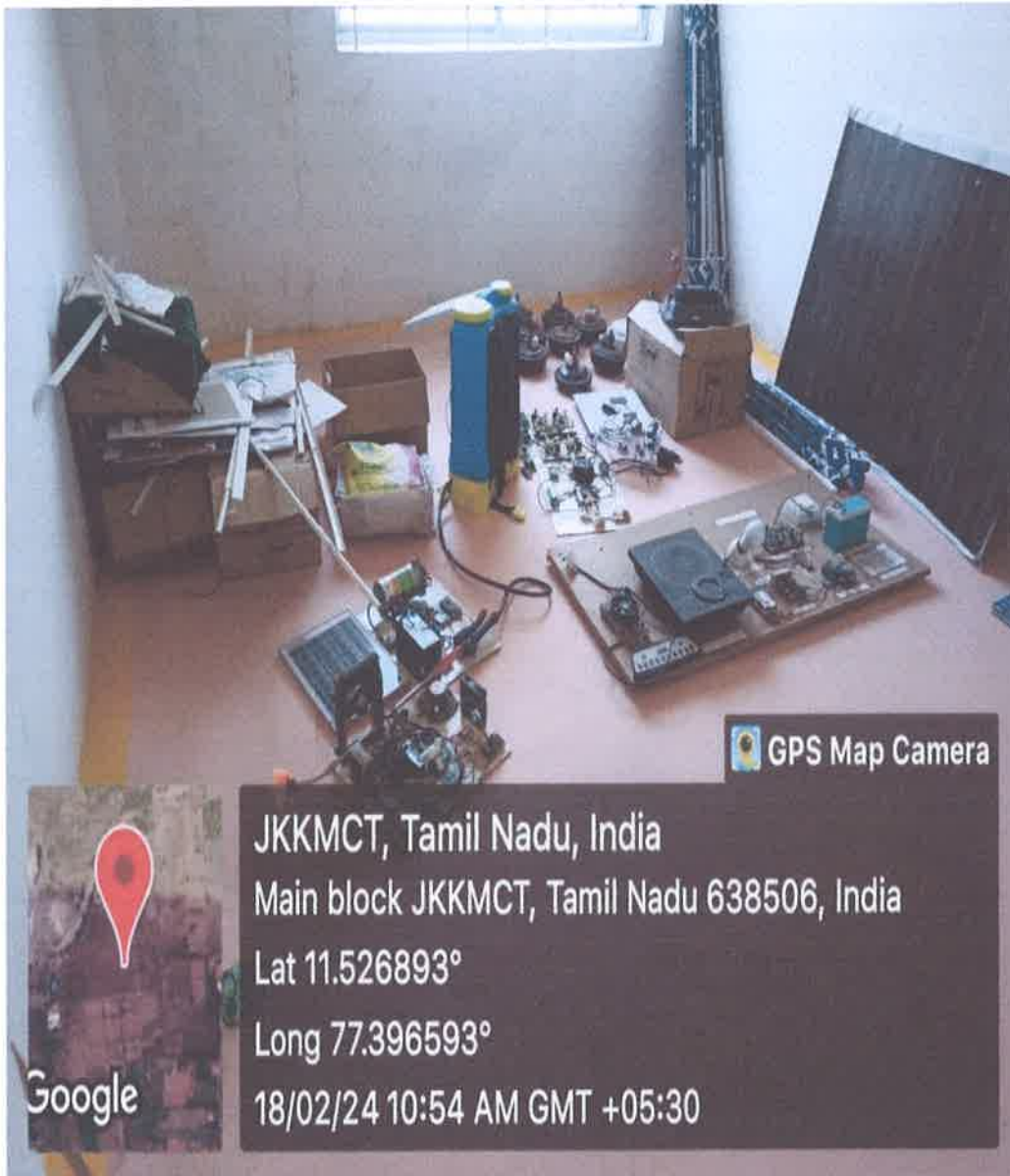


Photo of Electronic waste

Handwritten signature
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Photo of Electronic waste



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E-Waste:

E-waste or electronic waste created when an electronic product is discarded after the end of its useful life. The rapid expansion of technology and the consumption driven society results in the creation of a very large amount of e-waste in every minute.

Process of E-waste Recycling

Recycling electronics is an often-challenging activity. This is because e-scrap are typically sophisticated and manufactured from diverse elements such as metals, plastics, and glass. While this process often varies, there is a general process. So, here is what you need to know.

This is the first stage of recycling e-waste. Here, recyclers place take-back booths or collection bins in specific places. When these bins get filled, the recyclers then transport the e-wastes to recycling facilities and plants.

Step 2: Shredding and Sorting

After collecting and transporting, the next step is to shred and sort the e-waste. The success of subsequent separation relies on shredding. And this is why efficiency is essential at this stage.

Shredding involves breaking e-waste into smaller pieces for proper sorting. With the use of hands, these tiny pieces get sorted and then manually dismantled. This is typically labor-intensive as waste items are, at this stage, separated to retrieve different parts.

After this, the materials get categorized into core materials and components. Then, these items get sorted into various categories. Typically, these category includes items that you can re-use as they are and those that require further recycling processes.

In any case, e-wastes are often manually sorted, while compounds such as fluorescent light, batteries, UPS batteries, and toner cartridges should not be crushed or shredded by hand.



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Step 3: Dust Extraction

The tiny waste particles get smoothly spread via a shaking process on the conveyor belt. The smoothly spread e-waste pieces then get broken down even further. At this point, the dust gets extracted and discarded in an environmentally compliant manner. This way, there is no environmental degradation.

Step 4: Magnetic Separation

After this, a strong overhead magnet helps you separate steel and iron from other wastes. This way, you have successfully recycled the steel from the waste stream.

However, some mechanical processes may sometimes be required to separate circuit board, copper, and aluminum from other wastes particles. And this is especially where they are mostly plastic.

Step 5: Water Separation

After this, water separation tech becomes relevant to separate the glass from the plastic.

You can then send leads that contain glass to smelters to use in the production of batteries, x-ray tubes, and new CRTs.

Step 6: Purification of Waste Stream

The next thing is locating and extracting leftover metals from plastics to purify the waste stream further.

Step 7: Preparing Recycled Materials For Sale

The final stage is preparing recycled materials for sale. Here, the materials separated during SSS get prepared for sale as raw materials to produce new electronics.



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3.2 Certificate for E-Wastes CAMPUS

ICON IT SERVICE
GST: 33AASHM4317C1ZD

31A, KAS Nagar,
Thindal,
Erode - 638012

Date: 18-04-2023

To

The Principal
JKK Munirajah college of Technology
Thookkanaickenpalayam,Gobi.

E - WASTE Certificate

This is to certify that JKK MUNIRAJAH COLLEGE OF TECHNOLOGY has a tie up with our organization for E-waste collection. Through this, we shall collect all the materialistic and non materialistic wastes from the college on yearly basis. So that the campus is free from E-waste.

For ICON IT SERVICE

Authorised Signatory

For ICON IT SERVICE
MK [Signature]
Proprietor

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4. HAZARDOUS CHEMICALS & RADIO ACTIVE MANAGEMENT

Hazardous chemicals are kept away from the reach of students. Fire extinguishers are available in all labs. Regular check on fire extinguishers is taken care by administration department. Labs are well ventilated & spacious.

Hazardous waste can be treated by chemical, thermal, biological, and physical methods. Chemical methods include ion exchange, precipitation, oxidation and reduction, and neutralization. Among thermal methods is high-temperature incineration, which not only can detoxify certain organic wastes but also can destroy them. Special types of thermal equipment are used for burning waste in either solid, liquid, or sludge form. These include the fluidized-bed incinerator, multiple-hearth furnace, rotary kiln, and liquid-injection


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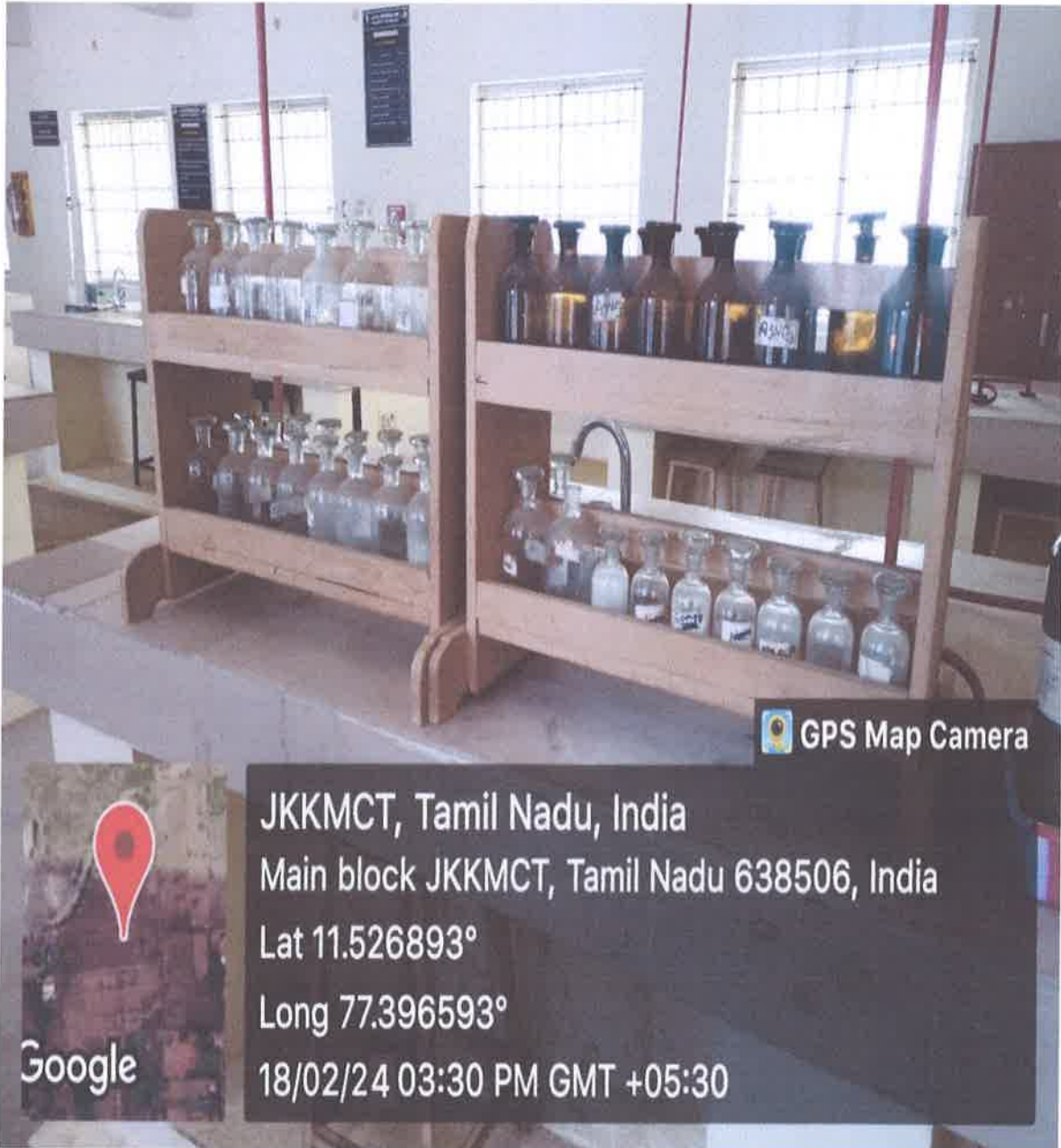



Photo of Hazardous chemicals & radio active management


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GPS Map Camera

Google

JKKMCT, Tamil Nadu, India

Main block JKKMCT, Tamil Nadu 638506, India

Lat 11.526893°

Long 77.396593°

18/02/24 03:30 PM GMT +05:30

Photo of Hazardous chemicals & radio active management

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FIRE EXTINGUISHERS

An fire extinguishers is an active fire production device used to extinguish are control small fires, often emergency situation. It is not intended for use on an out-of-control fire. Such as one which has reached ceiling endangers the user, or otherwise require the expertise of a fire bridge.



Photo of Fire Extinguisher

[Handwritten signature]

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PO for Fire Extinguishers



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ISO 9001:2015 Certified Institute

JKKMCT/PO/0303/APRIL-2021

DATE: 01-04-2021

To

PADMALATA ENTERPRISES,
No.27, 9th Street Extension,
Nehru Nagar West,
Civil Aerodrome,
Coimbatore- 641014.

Sir,

Sub: Purchase order for Fire Extinguishers- Reg

With reference to your quotation, we are pleased to place an order the following Fire Extinguishers as follows.

S.No	Product Descriptions	HSN/SAC	Unit Price / Quantity	Quantity	Total Amount
1	Supply of Fire Extinguishers Complete with charged and accessories a) ABC-SP-MP- Powder type - 06 kg. capacity	8421241000	1200.00	50	60,000.00
	Less your old Fire Extinguishers - 5 kg Capacity		500.00	7	3500.00
Total Amount					56,500.00

The above mentioned all products total cost is Rs. 56,500.00/- (Rupees: Fifty Six Thousand Five hundred only) including All Tax and Transport Charge. Kindly make a deliver as soon as possible.



Thanking you,

[Signature]

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[Signature] 11/4/2021

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Bill for Fire Extinguishers

ESTIMATION (Original/Duplicate/Triplicate)					
PADMALATA ENTERPRISES No.27, 9 th Street Extension, Nehru Nagar West, Civil Aerodrome, Coimbatore-641014 Mobile: (0)9443003153 GSTIN: 33AKCPP420IG1ZP Tel: (0422)2626153 E-mail: padmalata2007@gmail.com & padmalata2007@yahoo.co.in Safety & Fire Protection Engineers (A house of ISI Marked & ISO certified all types of Fire Fighting Equipment)					
To The Principal J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY T.N.Palayam Post Erode-638 506			Bill No 0003	Date 10-04-2021	
			Your DC No	Date	
S No	Description	HSN/SAC	Quantity	Unit Rate	Amount
1	Supply of Fire Extinguishers complete with charged and accessories a) ABC-SP-MP-Powder type-06 kg. capacity.	84241000	50 No.	1200.00	60000.00
	Less your old Fire Extinguisher-5 kg. capacity		7 No.	500.00	3500.00
G Total Rs					56500.00
Amount : Rupees fifty six thousand five hundred only					

SUBJECT TO COIMBATORE JURISDICTION


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Certificate for Fire Extinguishers

TESTING CERTIFICATE		
 A GOVT. APPROVED COMPANY PADMALATA ENTERPRISES GSTIN: 33AKCPP4201G1ZP	SAFETY & FIRE PROTECTION ENGINEERS	 OFFICE 27, 9TH STREET EXTENSION, NEHRU NAGAR WEST, CIVIL AERODROME POST, COIMBATORE - 641 014, TAMIL NADU, INDIA TELEFAX : 0422-2626153 M : + 91 94430 03153 padmalata2007@yahoo.co.in padmalata2007@gmail.com www.padmalata.in
To The Principal J K K MUNIRAJAH COLLEGE OF TECHNOLOGY T N.Palayam Post Dt:Erode-638 506	Certificate No. PE/C/0169	Date 10-04-2021
This is to certify that the following fire extinguishers are serviced, tested and refilled by us on: 10-04-2021 and next refill/test due on: 09-04-2023 Hydraulic Pressure Testing (H.P.T) as per IS: 2190 & Indian Cylinder Act.1980 @ 30 Kg/cm² for all F/E & @ 210 Kg/cm² for CO ₂ Gas F/E.		
S.No	Description	Quantity
I.	ABC-SP-MP-Powder type fire extinguishers-6 kg. capacity	50 No.

For PADMALATA ENTERPRISES




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