

A-1, UPSIDC Industrial Area, Rooma, Kanpur-208001 (U.P.) India Ph: 7705011891 • E-Mail-ID: info.kitp@kit.ac.in, director.kitp@kit.ac.in

7.1.2

Circulars and Report of activities for the implementation of the initiatives document



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1. Alternate Source of Energy and Energy Conservation measures



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Director



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ALTERNATE SOURCE OF ENERGY AND ENERGY CONSERVATION MEASURES

Kanpur institute of Technology and Pharmacy, has facilities for alternate sources of energy and energy conservation measures –

- 1. Solar Energy
- 2. Use of power efficient equipments as well as use of LEDs
- 1. Solar Energy –
- a. Solar Power Plant -
 - ➤ Rooftop Solar panels are installed with the maximum capacity since the inception of the institute.
 - > The power is generated by the solar panels are the primary power source for the institute.
 - > Solar street lights are installed within the campus to reduce the power consumption.
- 2. Use of power efficient equipments as well as use of LEDs
 - > Since the introduction of LED bulbs and lights in the market, college has replaced all the normal bulbs/ lights with LED bulbs.
 - > All other electrical equipments are regularly being replaced with the new power efficient equipments.

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Date: 22/08/2022

Institute Energy Efficiency Policy

The institute will follow the below mentioned policy to maximize energy efficiency with in next three years of period-

- 1. Replacement of fluorescent & sodium lights by LED lights (70% replaced).
- 2. Replacement of normal air conditioner by star rated and smart inverter air conditioner (50% replaced).
- **3.** Maintain power factor close to unity through power factor improvement plant (plant already installed).
- **4.** Use of smart water pumps controller and sensors to avoid overrunning of motors. (In process).
- **5.** Increasing and maintaining green campus with enormous tree plantation, and gardens to reduce environmental temperature of campus. (70% of the land area is maintained with gardens and tree plantation).

(Dr. Prashant Kumar Katiyar)

Canpur Institute of Technology & Pirrector
A-1, UPSIDC Industrial Area, Roomd
Kanpur-208001



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Solar Panel

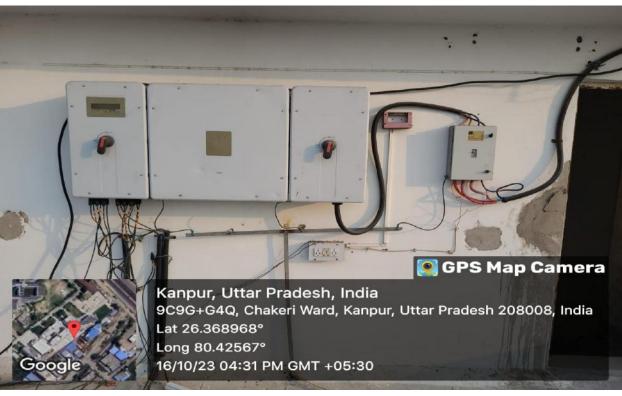






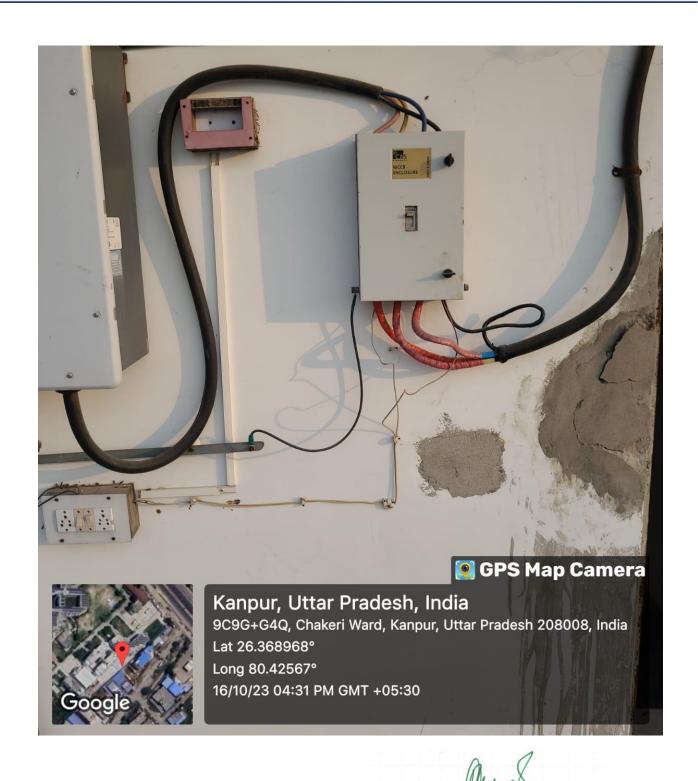
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Solar Panel Purchase Order



Indus Technical Education Society

B.Tech. I MBA I MCA I M.Tech. I B.Pharma

PURCHASE ORDER

Date: 9th September, 2017

Recube Energy Private Limited 371, Ganesh colony, Chandausi Sambhal, Uttar Pradesh-244412

Kind Attn: Mr. Siddharth Sobti, Director

Subject: Order for Supply of 450 kW Solar Power Plant to be set-up at Kanpur Institute of Technology, Kanpur, U.P.

Dear Sir,

We are pleased to place an order for the supply of material for 450 kW solar power plant at Kanpur Institute of Technology, Kanpur, U.P.

Our order for the supply of material and equipment for the 450 kW plant for installation at Kanpur Institute of Technology, Kanpur, UP is enclosed as per the following Annexure:

Annexure I

Price Schedule

Annexure II

Terms and Conditions

Annexure III

Generation and Performance Guarantee

Annexure IV

Scope of Supply of Equipments

Thanking You, Yours faithfully,

For, Indus Technical Education Society

(Anil Kumar Agarwal)

Secretary-ITES



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ANNEXURE - I

The breakup of the price for the supply of material and equipment for the 450kW Solar Power Plant is as under:

Sr. No.	Description	Amount (INR)
1	Supply of Solar PV modules 450kW capacity	
2	Supply of Solar Inverters 450kW capacity	
3	Supply of Module Mounting Structures	2,28,96,000
4	Supply of Electrical items for electrical works as per Annexure – IV comprising mainly of Earthing, Protections and Cables	
	Total (INR Two Crore Twenty Eight Lakh Ninety Six Thousand Only)	2,28,96,000

For Indus Technical Education Society

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ANNEXURE - II

Terms and conditions

1. Scope of Supply

The scope of supply consists of the following:

- (i) 450kW capacity solar PV modules
- (ii) 450kW capacity string inverters
- (iii) Module mounting structures for supporting the PV modules.
- (iv) Supply of all supply items related to Solar rooftop plant mainly earthing, protections and Cable as per Annexure-IV
- (v) Transportation and Insurance up to delivery at our site.
- (vi) Drawings for the foundation and civil work, electrical connections, instructions for assembly erection, installation and commissioning of solar plant.
- (vii) O&M Manuals

2. Delivery:

The delivery of the equipment and materials shall be such that the project is commissioned by 31st October 2017. For any delay beyond the delivery date, a penalty of INR 16,320 will be levied per day.

3. Insurance:

You will be responsible for the insurance of the solar plant equipment during the transportation up to our site. After the commissioning of the plant, insurance policy shall be taken directly by us.

4. Terms of payment:

The terms of payment are as under:

S.No.	Payment Milestones	Amount (INR)
1	Advance against PO	51,001
2	Against PI for dispatch of Solar PV Panels	1,26,00,000
3	Against PI for dispatch of Solar Inverters	27,60,000
4	Against PI for dispatch of Module Mounting Structure	19,20,000
5	Against delivery of Cables	6,00,000
6	Against delivery of Earthing Material	7,17,000
7	Against complete installation & SCADA commissioning	18,00,000
8	Against commissioning & Subsidy Approval	34,01,999

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The Payments shall be released by us within 4 days on receipt of Payment Demand Note from Recube Energy based on above agreed payment terms.

5. Taxes and duties:

The prices mentioned in Annexure – I include GST as applicable. Currently, GST for solar power plants is 5%, which has been considered. In case there is statutory rate variation or introduction of new taxes, duties and levies or any difference in the interpretation by the competent authorities, effect of the same will be in supplier's scope.

6. Guarantee for annual generation and performance of project:

As per Annexure - III

7. Operation and Maintenance:

You will undertake O&M for our solar plant for a period of 5 years from the date of commissioning with the following terms and conditions:

- a) Operation, Maintenance & Security with Spares and Consumables for the entire period of the contract
- b) The O&M cost for the first 3 years from the date of commissioning will be free of cost.
- c) The comprehensive O&M charges from 4th year of operation will be as per mutual discussions between Kanpur Institute of Technology and Recube Energy.
- d) The O&M charges will be paid at the begin of operational year. The year shall be counted from the date of commissioning.
- e) Under the O & M services, Service provider will provide routine and breakdown maintenance of the solar plant. The service person will visit monthly to inspect all mechanical and electrical parts. Any breakdown in the plant shall be addressed within 48 hours.

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Secretary



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ANNEXURE - III

Guarantee for Annual Generation and Performance of Project:

The minimum guaranteed billed exported units of electricity generated shall be 6,48,000 kWh per year with an annual de-escalation of 1% every year for the solar plant to be measured at inverter monitoring level at 100% grid availability for twenty five years period from date of commissioning.

The generation estimated is guaranteed for 3 years against a revolving bank guarantee provided by Recube Energy of amount Rs. 2,75,400.

The guarantee period would start from 14 days after the date of commissioning of the solar plant as you require initially 14 days to get the machines stabilized.

This shall continue every year with an annual degradation of 1% each year.

Year	Generation (KWh/Year)
1	648000
2	641520
3	635105
4	628754
5	622466
6	616242
7	610079
8	603978
9	597939
10	591959
11	586040
12	580179
13	574377
14	568634
15	562947
16	557318
17	551745
18	546227
19	540765
20	535357
21	530004
22	524704
23	519457
24	514262
25	509119

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ANNEXURE - IV

Scope of supply of equipments and services

Supply of electrical items as mentioned in Sr. No. 4 shall include:

Sr.No	Material	Specifications	Make
1	Solar Module	Multi-crystalline	Waaree/Navitas
2	Solar Inverter	50kW X 9	ABB
Electrical &	Accessories		
3	DCDB & ACDB	Ratings to be decided at time of designing	ABB
4	DC Application Cables	6 sq mm Copper Solar cable, Black & Red	Polycab
5	Inverter(50kW) to ACDB	25 sq mm Copper AC Cable, 4 core	Polycab
6	ACDB to LT Panel	Armoured Al AC Cable, 4 core	Polycab
7	Earthing Strip	25 X 3 GI Strip	True Power Earthings
8	Earthing Cable	16 sqmm copper,1core	True Power Earthings
9	Earthing Kit	Copper Bonded Low Maintenance Earthing Electrode(Chemical Based) 3 mtrs	True Power Earthings
10	MC 4 Solar Cable	(+) ve connecter	Elmex
	connecter	(-) ve connecter	Elmex
11	Cable lugs, Tape, cable tie & conduit pipe with Accessary		Dowells
12	Lightning Arrestors	ESE Lighting Arrestor, 107Mtr range	True Power Earthings
13	DG Power Relay	to prevent export of solar power to DG set	ABB
Civil & Mech	nanical Work		
15	Mechanical Structure	Hot dip GI 80 microns Coating industrial rails mounting frames	Strolar
	Structure Accessories	Al End Clamps, Al Middle Clamps, SS Nuts Bolts	Strolar
17	GI Cable Tray with cover	50 X 40 X 2.5 mm with mesh	Standard
18	PVC conduit	32mm	BEC
19	Conduiting Pipes	Steel Corrogated condutes black	BEC

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20	Civil Foundation Painting	M25 Grade RCC Blocks	Standard
21	Structure Grouting	M12X120 Chemical hole fastner	Fischer
Installatio	n & Commissioning, Transportati	ion & Freight	
22	Installation Commissioning	Manpower, labor + Civil Foundations	Recube Energy
23	Engineering & Supervision	String Designing, Remote Monitoring, electrical design and execution planning	Recube Energy
24	Remote Monitoring Access	Online Data access software	ABB/Pinetech
25	Transportation & Freight	Till Site, Loading & Unloading	

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Solar Panel Work Order



Indus Technical Education Society

B.Tech. I MBA I MCA I M.Tech. I B.Pharma

WORK ORDER

Date: 9th September, 2017

Recube Energy Private Limited S.No 47, Second Floor Gaffar Market, Karol Bagh, New Delhi-110005

Kind Attn: Mr. Siddharth Sobti, Director

Subject:

Order for services required for the Erection and Installation of 450 kW Solar

Power project at Kanpur Institute of Technology, Kanpur, U.P.

Dear Sir,

Please find attached our Work Order for the services required for Erection and Installation of 450kW Solar Power Project at Kanpur Institute of Technology, Kanpur, U.P.

Annexure V

Quotation

Annexure VI

Terms and Conditions

Annexure VII

Scope of Work

Thanking You, Yours faithfully,

For, Indus Technical Education Society

(Anil Kumar Agarwal)

Secretary-ITES



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ANNEXURE - V

The price breakup for the services required for the erection and installation of 450kW Solar Power Plant at Kanpur Institute of Technology, Kanpur is as under:

S. No.	Brief Scope	Price (INR)
1	Design and Engineering	
2	Labor charges for site development	
3	Labor charges for electrical works	
4	Labor charges for erection, testing and commissioning of rooftop solar plant	9,54,000
5	Insurance, loading and unloading, transportation, etc.	
	Total (Rupees Nine Lakh Fifty Four Thousand only)	9,54,000

Remarks

a. The above prices include GST at the prevailing rates, i.e. 18%.

For Indus Technical Education Society

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ANNEXURE - VI

Terms and Conditions

1. Payment Terms

As per Annexure II of Purchase Order

2. Installation Period

You shall complete the installation and commissioning of the complete system by 31st October 2017.

3. Duties and Taxes

The prices mentioned in Annexure - V include GST@18% as applicable.

4. Jurisdiction

Any dispute arising out of this contract shall be subject to the exclusive jurisdiction of the court in the state of UP.

5. Insurance

You will take suitable insurance policy for storage and erection during the erection period of our solar plant. This insurance shall cease once the solar plant is commissioned. The fire and allied perils, earthquake and Third Party risk policy will be taken care by us as soon as solar plant is commissioned at the site.

6. Government Fee

All refundable and non-refundable Government/Official fee as applicable shall be borne by us as per actuals.

For Indus Technical Education Society

Secretary



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ANNEXURE - VII

Scope of Work

Your Scope of Work and Services shall be as under:

You will do the Complete Installation, Erection and Commissioning of the solar plant and all electrical installations for solar plant and undertake civil work as per our requirement and shall supply electrical items required for synchronization with existing electrical system.

You shall also include the following under your scope of Work:

- Remote Monitoring System
- Relay Protection for avoiding reverse current in DG
- Maintenance of solar power plant for 3 years from date of commissioning

For Indus Technical Education Society

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Solar Panel Bill

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PAN:	SCHOOL STREET, N. C.	pescription	HSN Code	Qty	MON	Mate	Total	Pate	Amount	Rate	Amount	Rate	Amount	Net Amount
1	Supply	y of Solar Power erating System	8541	450 /	kw	48,457,14	21,805,711	-	545,142.83	2.50%	545,142.83	-	-	22,895,999
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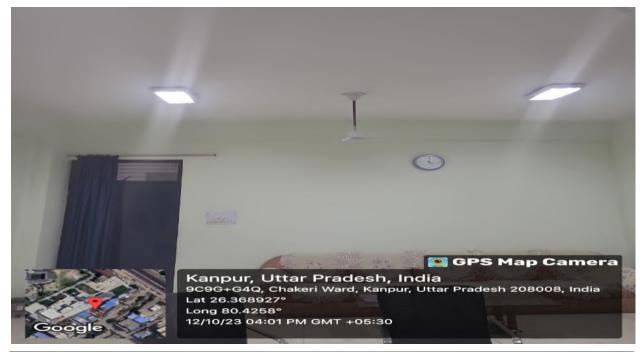
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f you have any questions about this invoice, please contact: Siddharth Sobti; +91-9999229553; siddharth@recube.in			
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Energy Conservation Measure

Use of Led Light





Director



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Director



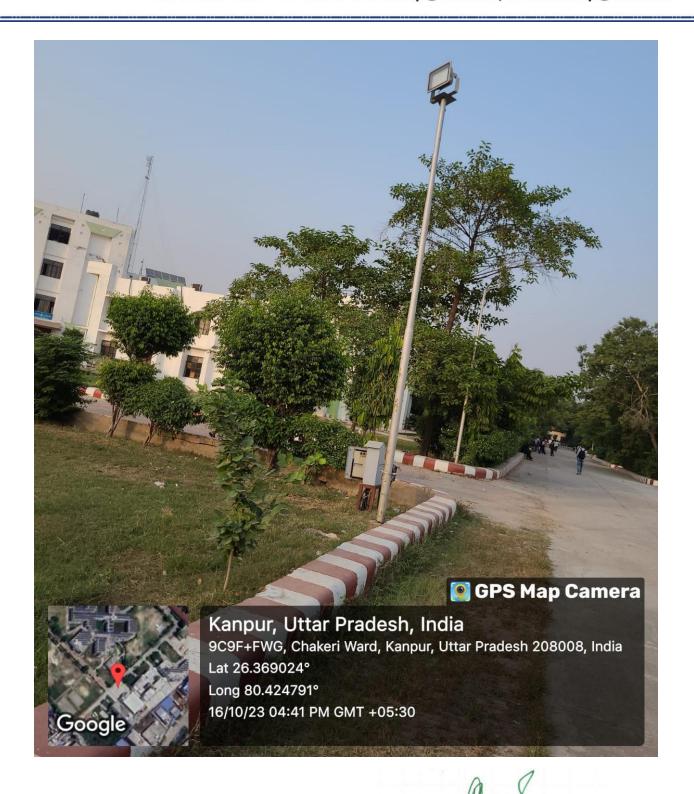
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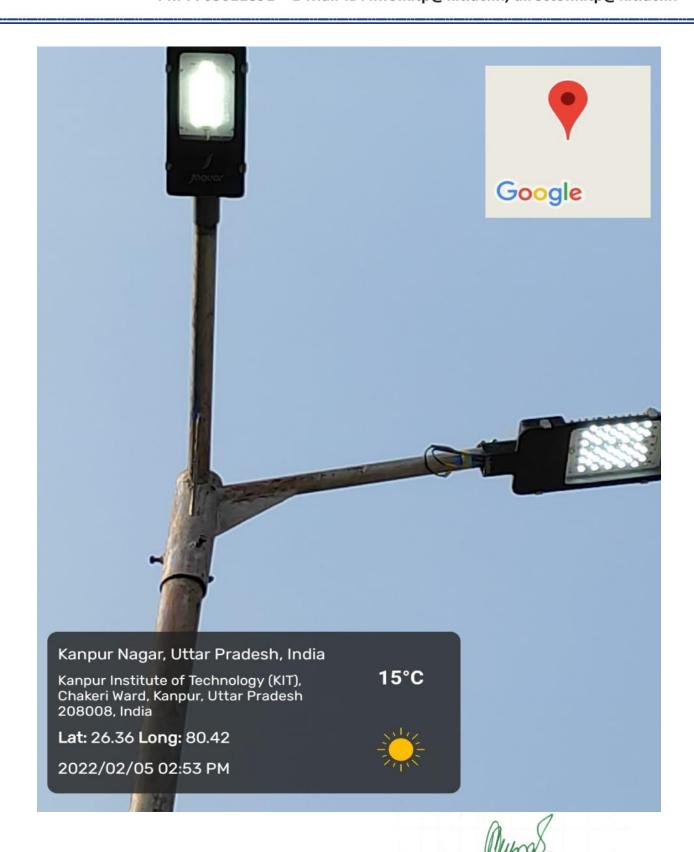


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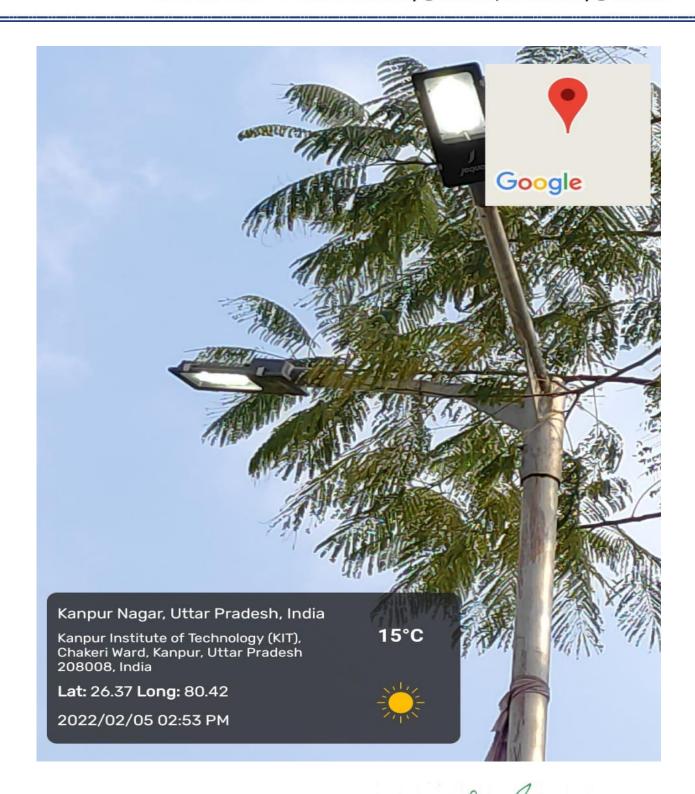
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Use of Star Rated AC and Fans





Director



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Director

2. Management of various types of degradable and non-degradable waste.



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Waste Management

- > Separate dustbins are placed all over in the campus for ensure the collection of disposable waste.
- ➤ The use of single use plastic is strictly prohibited at campus.
- > Product recycling is promoted.
- ➤ If any person found not disposing the waste properly then will be penalized.
- ➤ E-waste must is collected and disposed in a specific/standard manner.
- > Scrap disposal committee ensures the properly and timely disposal of waste.
- > Sanitary incinerators are installed to promote hygiene.
- ➤ All the paper that has been used for printing at one side are kept and used for rough work.
- ➤ Institute promotes working over e-mails, excel sheets etc. to minimize the use of paper.
- Awareness and sensitization among students about the reduction, proper disposal and reuse of waste are done through displays at different part of the campus.
- ➤ The solid waste at the canteen and hostel is segregated at source using green and blue dustbins.
- ➤ Non used food and raw vegetables collected from college mess and canteen are distributed to the nearby villages.
- ➤ Collection and pickup of waste is done by Housekeeping staff of Kanpur Nagar Nigam collects the solid wastes for further disposals.
- > The batteries of UPS are recharged / repaired / exchanged by the suppliers.



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Date: - 01/07/2023

SOLID WASTE MANAGEMENT COMMITTEE

The solid waste management Committee as per details given below has been formed to resolve the problems for solid waste management (solid waste management rule 2016). The institute committee organize and manage collection of waste and disposal of waste, provide the facility for treatment of solid waste, etc. resolve the problems of all solid waste management of each discipline:-

- 1) Dr. Prashant kumar (Professor)
- 2) Ms. Nidhi Tyagi (Associate Professor)
- Mr. Hari Krishna yadav (Assistant Professor)
- 4) Mr. Alok Kumar pandey (Student B.Pharm-III Year)
- 5) Ms. Sonali singh (Student B.Pharm-III Year)

- Presiding Officer
- Member
- Member
- Member
- Member

In case of any problems/issues, in the solid waste management persons are feel free to contact the above said members or directly to the Presiding Officer either on mobile no. or through the email (prashant.katiyar@kit.ac.in).

(Dr. Prashant Kumar Katiyar)

Director

Director

Director

Director

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Kanpur-208001

CC:

- 1. Management
- 2. FIC Student Welfare
- 3. Head of pharmacy
- 4. Administration/Library/Placement/Training/Hostel.



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Scrap Disposal





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Separate Dustbin





Director



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Waste Disposal





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Director
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Degradable waste







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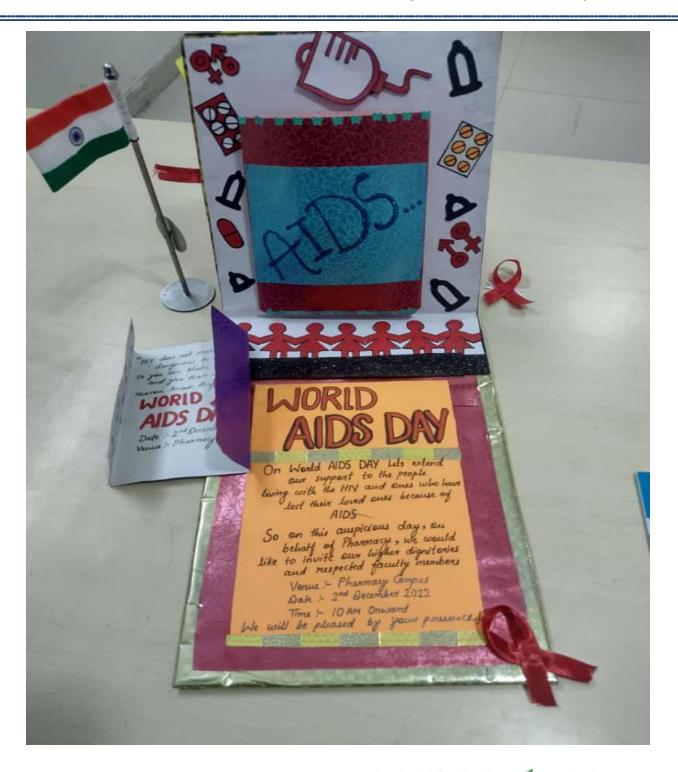
Waste Recycling







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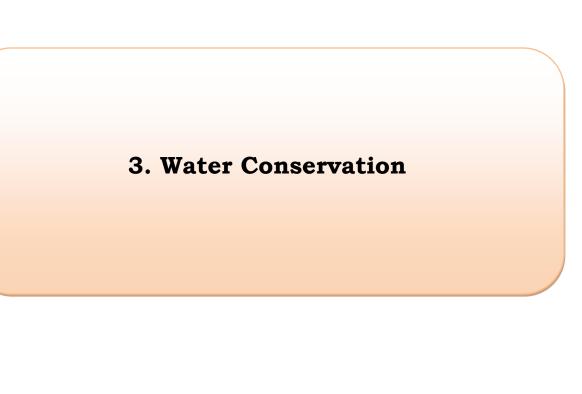
Director



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WATER CONSERVATION

In the campus, tube well and underground water is only sources of water. Water is used for drinking purpose, toilets, and gardening. The wastewater from the RO water purifier is used for gardening purpose.





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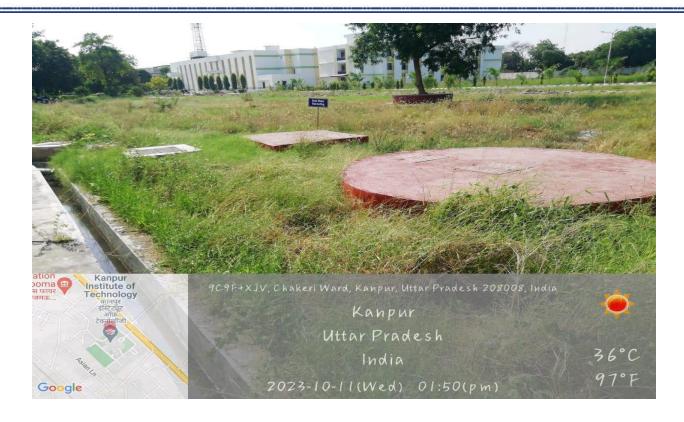
RAINWATER MAINTENANCE PLAN







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Director

4. Green Campus Initiatives



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GREEN CAMPUS INITIATIVES

KITP has always had initiatives to keep its campus clean and green. It has large playgrounds, lawns and gardens. A huge area is left in its natural form and acts as a natural habitat for biodiversity and a large variety of species of grasses, herbs, shrubs and trees.

There are many trees (species) to maintain the biodiversity. Institute celebrates World Environment Day, Earth Day etc and conducts various tree plantation programs, which help in encouraging an eco-friendly environment which provides pure oxygen within the institute and awareness among students. The plantation program includes various types of indigenous species of ornamental and medicinal wild plant species.

Institute has created an Herbal Garden in the campus for encouraging the Ayurveda system of medicine.

In compliance with the framework provided by the National Tobacco Control Programme (NTCP) 2007-2008, KITP prohibits smoking and the use of other tobacco products. The college ensures the enforcement of the anti-tobacco as well as anti- smoking policy in and around the campus.

Entries of motor vehicles within the campus are strictly prohibited and instead of motor vehicles, manually operated rickshaw is used for goods transportation.

The Institute realizes that integrated waste management is essential for reducing environmental decay and providing a safe and healthy work environment for teaching, non-teaching employees, students, residence and visitors. The Institute makes sure that all the campus wastes are disposed of responsibly by using proper waste segregation mechanism at the source. KITP has a strict policy on the usage of automobiles within the college campus, beyond parking; vehicle is not allowed to enter the college premises.

Director



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PLANTATION DRIVE

To promote greenery in the campus, KITP regular orgnises Plantation Drives.





Director



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(Mura)



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Director

Director

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Kanpur-208001



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Ref: KITP/SW/2023/41

Date: 03/06/2023

NOTICE

This is to inform you that institute is going to organize a "Tree plantation Programme" in campus on 05th June 2023 on the occasion of "Environment day". The main purpose of programme is to promoting tree plantation for Greener environment, so that you all are invited in the tree plantation programme.

Date: 05th June 2023 (Monday)

Time: 11:15 AM Onwards

Venue: Institute Campus Parking area

(Ms Harshita Gupta)

yamita

FIC students' welfare

Copy To

1. The Management

2. The Director

3. All faculty and staff member

4. Students

Director

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Kanpur-208001



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Celebration of World Environment Day

Institute celebrates World Environment Day every year on 5th June. On the occasion of "World Environment Day 5th June", 2023 the KITP organized a tree plantation program on campus. Director, Deans, faculty members, staff members and students have taken part in the plantation program.







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Ref: KITP/SW/2023/35

Date: 21/04/2023

NOTICE

This is to inform you that institute is going to organize a "Tree Plantation Programme" in our campus on 22nd April 2023 on the occasion of "Earth day". The main purpose of programme is to promoting tree plantation for save and secure the future environment, so that you all are invited in the tree plantation programme.

Date: 22nd April 2023 (Friday)

Time: 11:15 AM Onwards

Venue: Institute Garden

(Ms Harshita Gupta)

FIC students' welfare

Сору То

1. The Management

2. The Director

3. All faculty and staff member

4. Students

Director



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Celebration of Earth day

The earth day is an annual celebration that honors the achievements of the environmental movement and raises awareness of the need to protect earth's natural's resources for future generation. In KITP every year of 22nd April World Earth Day, is celebrated with Director, Dean and faculty members by tree plantation.





Director



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Nukkad Natak on "Say No to Plastic"

The students of Kanpur Institute of Technology and Pharmacy have performed a nukkad natak for awareness about the harmful impact of using plastic. KITP believes that the single use plastic should be completely banned in college premises for create clean and green atmosphere of college campus.





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Director
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"Best from Waste"

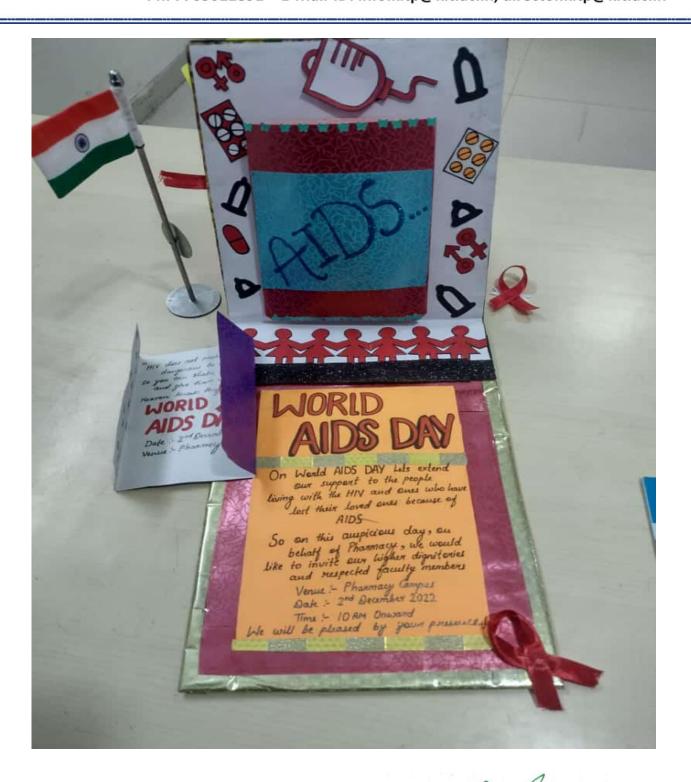
Kanpur Institute of Technology and Pharmacy has organized a one day workshop on "Best from Waste" in which the students used the waste materials to create something useful objects and produce own creativity by waste recycling.



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Restricted Entry of Automobiles In Campus

KITP has a strict policy on the usage of automobiles within the college campus. Beyond parking area, vehicles are not allowed to enter the college premise.





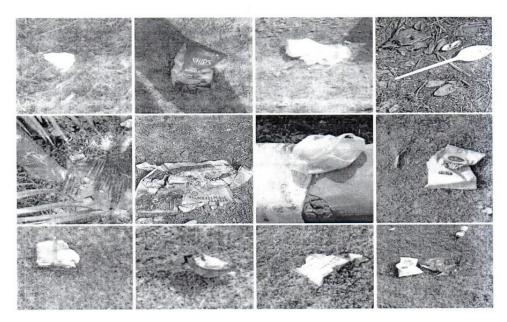


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Date: 23/01/2024

Dear All,

It has been observed that students who are sitting in institute garden, and road side various places are leaving behind a lot of garbage such as waste paper tea cups, chips wrapper, empty water bottles, used cold drinks bottles etc.



This makes the entire garden area very dirty, in spite of continuous cleaning by housekeeping staff.

All the students are advised and requested to use the nearby dustbin. The sufficient number of dustbin is placed at various locations in the institute campus.

Let's make our campus neat and clean.

(Mr. Manish Kumar Patel)

FIC students' welfare

Сору То

- 1. All faculty and staff member
- 2. All students
- 3. Notice Boards

Director



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Lush Green Campus



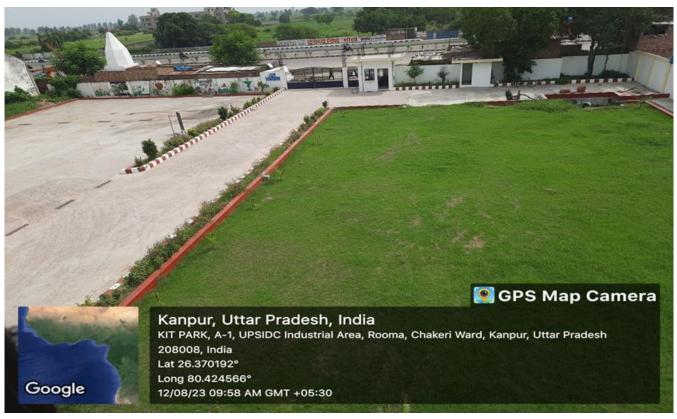


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Kanpur-208001



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5. Disabled-friendly, barrier free environment



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Disable-friendly environment

- ➤ KITP provides facilities for the students who are physically disabled.
- ➤ There are Ramps, lifts, and toilets in campus to make the environment accessible for everyone including disabled persons.
- > Specific software is available through which visually impaired students can easily access their study materials online.
- ➤ Institute trained its Staff members to handle/ assist persons with disabilities, including persons with learning disabilities.
- ➤ Institute provides counselling for the students with disabilities on the type of courses in which they can do better.

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RAMPS



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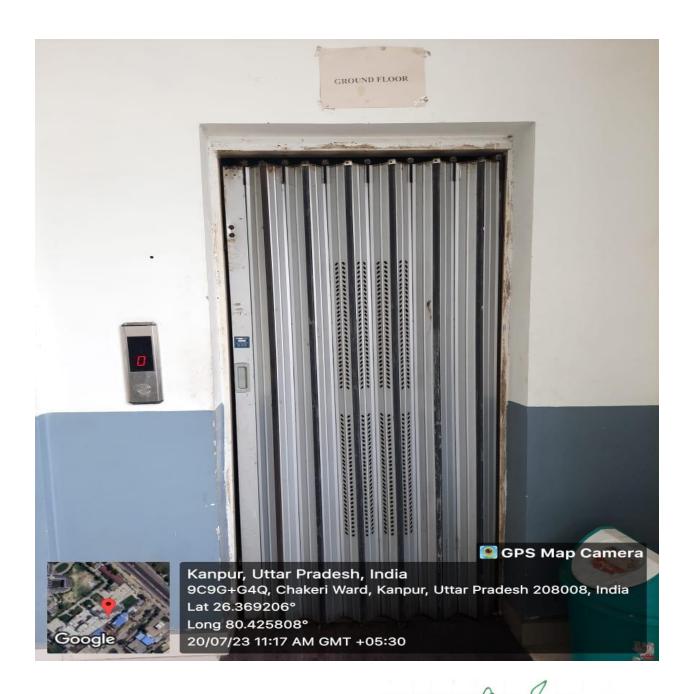


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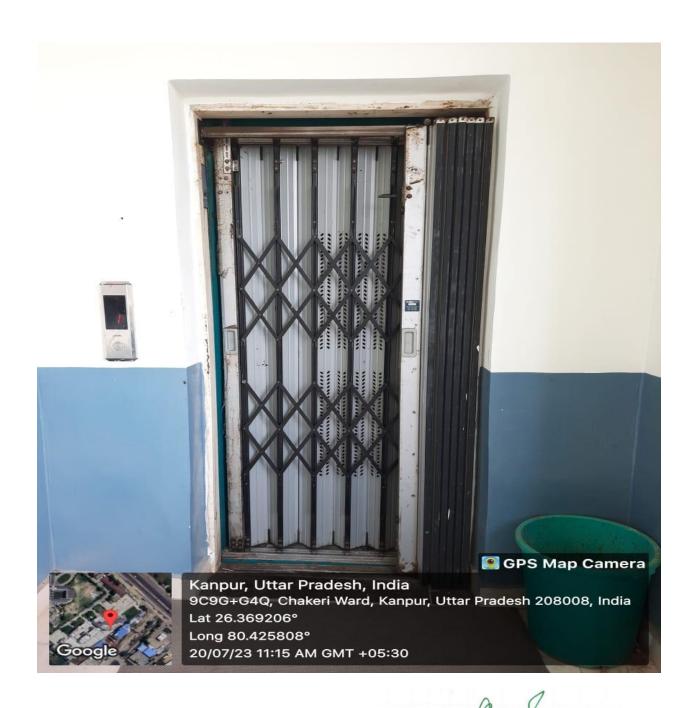
LIFTS



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WHEELCHAIR



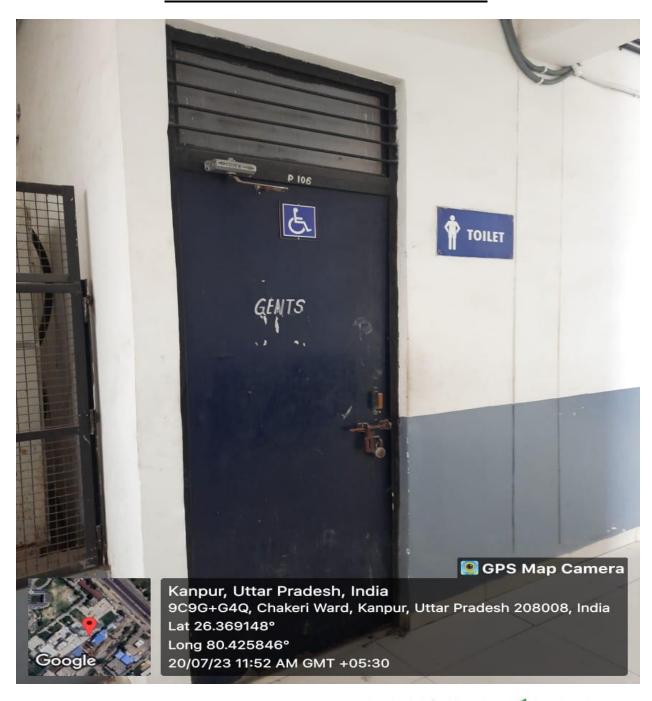
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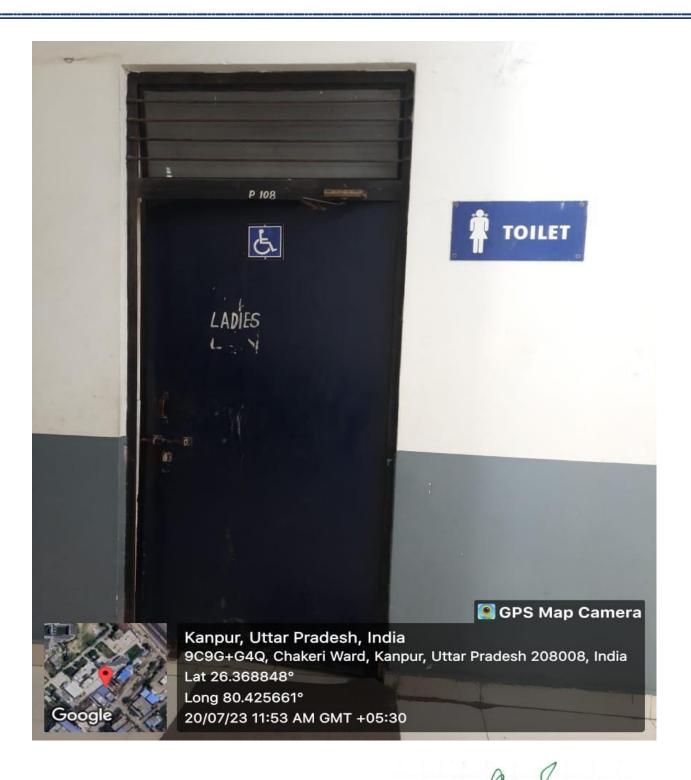
DISABLE- FRIENDLY WASHROOMS



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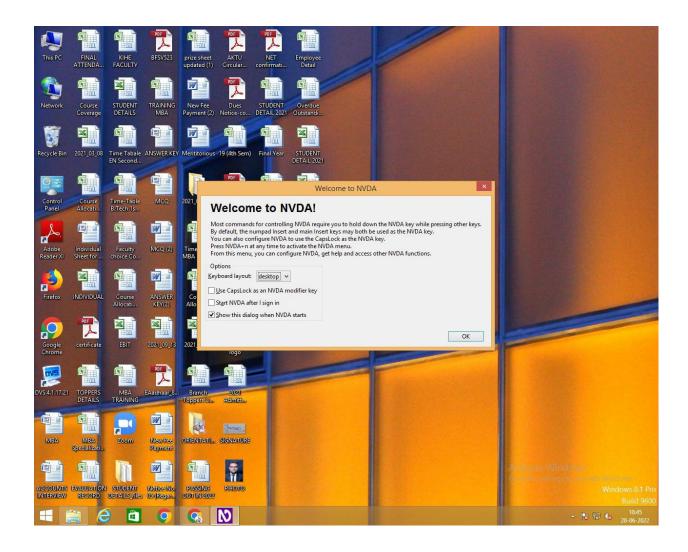
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Director