CONTENTS

Principal
S.J.C. Institute of Technology
Chickballapur - 562 101.

7.1.2 – The Institution has facilities and initiatives

SJCIT has many sources of energy and energy conservations, management of degradable and non-degradable waste, example: Solid and waste water management, Conservation of water through open borewell, roof water harvesting and also with many initiatives like green campus and disabled friendly with barrier free environment.

1. Alternate sources of energy and energy conservation measures

Renewable Energy initiatives

a) Biogas Plant
b) Solar Energy
c) Use of LED bulbs/ power efficient equipment
d) Wheeling to the Grid

a) NISARGUNA BIOGAS PLANT AT SJCIT BOY'S HOSTEL

A large amount of biodegradable waste is generated every day. Dumping of the waste at dump sites or in water bodies causes health hazards. Bio-degradable plants for solid waste management offers a **"Zero garbage, Zero effluent"** method for waste management. One such plant has been installed by BARC (Bhabha Atomic Research Centre) at SJCIT Boy's Hostel for environmental friendly disposal of the waste generated from kitchens of hostel.

This plant processes biodegradable waste such as kitchen waste, paper, grass, gobar and dry leaves and provides high quality manure and methane gas. Weed free manure obtained from such waste has high nitrogen contents and acts as an excellent soil conditioner. This technology of biphasic bio methanation has high potential of solving the solid waste management problems of the urban areas.

NISARGUNA PROCESS

The waste resources which can be processed using NISARGUNA Biogas plant include biodegradable kitchen waste, paper waste, green grass, leaf litter and green plant waste and cow dung.

The waste is first segregated carefully to remove non-biodegradable material and then homogenized to make slurry. It is then processed in a sequential manner first by aerobic and then

by anaerobic process. The products of the process are biogas consisting of methane, carbon dioxide and water vapor and weed free good quality manure. About 70% of Water can be recycled at the end of the process.

ADVANTAGES:

NISARGUNA Biogas Plant would serve many purposes such as: -

1. Environment friendly disposal of waste, which is the need of the hour.
2. Generation of fairly good amount of fuel biogas, which is used as fuel in the kitchen.

Generation of high quality, weed free manure, which is an excellent soil conditioner. This is very important for replenishing organic carbon in the undernourished soil after years of agriculture. Manure is used for maintenance of lawns and gardens in the campus.

In SJCIT, the Biogas plant of 500kg/day capacity installed in the boy's hostel premises and generated biogas used in boy's hostel kitchen for cooking.

Fig 1: Biogas plant plan at SJCIT boys' hostel

Fig 2: Biogas plant at SJCIT boys' hostel

Fig 3: Front view of Biogas at SJCIT boy's hostel

Fig 4: Rear view of Biogas at SJCIT boy's hostel

Fig 5: Pre digestion chamber of Biogas at SJCIT boy's hostel **Fig 6: Gas holding Balloon Room**

Fig 7 & 8: Waste feeding /crushing/ control Room of Biogas at SJCIT boy's hostel

b) SOLAR ENERGY

- Hostel Block: Solar water heaters are installed for bathing
- Academic Block and IT Block: Roof top is installed with Solar panels to generate electricity.
- Solar panel pole has been installed in specific locations for street lights.

The sun is a renewable resource that has the power to fuel life on earth and provide clean, sustainable energy to all of its inhabitants. In fact, more energy from the sun reaches our planet in one hour than is used by the entire population of the world in one year. The sun's energy can be converted into electricity through solar photovoltaic (PV) modules (photo = light, voltaic = electricity).

PV modules absorb sunlight and convert the energy into a usable form of electrical

current. Because solar can be paired with batteries for energy storage, solar electric systems can be independent of the utility grid, making them cost-effective for remote locations.

Advantages of Solar Energy

1. It is a renewable source of energy
2. Reduces Electricity Bills
3. Diverse Applications
4. Low maintenance costs

SOLAR WATER HEATERS

In SJCIT hostels solar water heaters are installed. The Solar collectors use the solar energy to heat water passing through the pipes of the collector. The insulated tank stores the hot water formed. This stored hot water is used by hostel students for bathing. The bills for procurement of Solar water heaters are displayed in the figures.

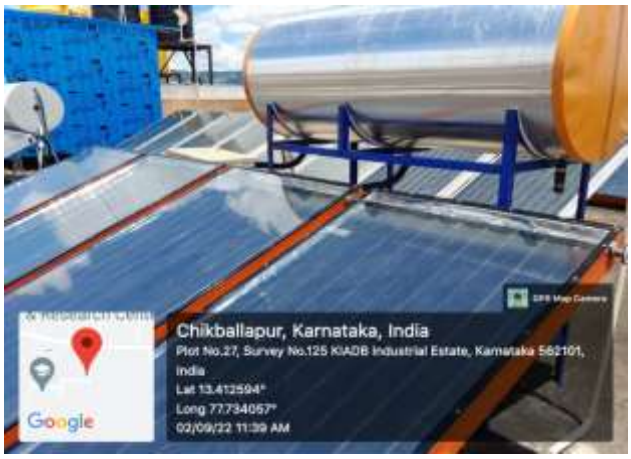
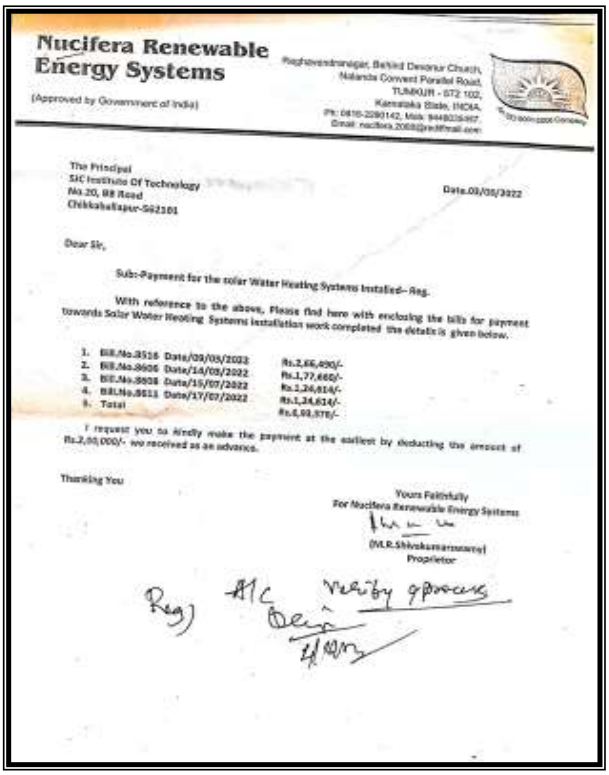


Fig 9 & 10: Solar water heater boys' hostel and girls' hostel buildings



Nucifera Renewable Energy Systems

(Approved by Government of India)

Raghavendranagar, Behind Devanur Church, Nalanda Convent Parallel Road, TUMKUR - 572 102, Karnataka State, INDIA.

Ph: 0816-2280142, Mob: 9448035467, Email: nucifera.2003@rediffmail.com

The Principal
SJC Institute Of Technology
No.20, BB Road
Chikkaballapur-562101

Date.03/05/2022

Dear Sir,

Sub:-Payment for the solar Water Heating Systems Installed– Reg.

With reference to the above, Please find here with enclosing the bills for payment towards Solar Water Heating Systems installation work completed the details is given below.

1.	Bill.No.3516 Date/03/05/2022	Rs.2,66,490/-
2.	Bill.No.3605 Date/14/05/2022	Rs.1,77,660/-
3.	Bill.No.3608 Date/15/07/2022	Rs.2,34,614/-
4.	Bill.No.3611 Date/17/07/2022	Rs.1,34,614/-
5.	Total	Rs.8,93,378/-

I request you to kindly make the payment at the earliest by deducting the amount of Rs.2,00,000/- we received as an advance.

Thanking You

Yours Faithfully
For Nucifera Renewable Energy Systems
(M.R.Shivakumaraswamy)
Proprietor

Reg) A/C verify & process

ReNew POWER

Date: 28.06.2018

SYNCHRONIZATION CERTIFICATE

Sri Adichunchanagiri Shikshana Trust has executed a Power Purchase Agreement dated 04.03.2018 with ReNew Solar Energy Private Limited for Design, Manufacture, Supply, Erection, Testing and Commissioning including the Warranty, Operation & Maintenance of 204.8 kWp rooftop Solar PV System at Sri Jagadguru Chandrashekaranatha Swamiji Institute of Technology, chikkaballapura, Karnataka

M/s ReNew Solar Energy Private Limited., having its registered office at 138, Ansal Chambers II, Bikaji Cama Place, Delhi-110066 has successfully completed system testing and synchronized the rooftop solar PV System on [28.06.2018].

For Sri Adichunchanagiri Shikshana Trust
Principal
S.J.C. Institute of Technology
Chickballapur-562101

For ReNew Solar Energy Private Limited

Note: This work should be done by SECI people.

ReNew Solar Energy Private Limited

Corporate Office: Commercial Block-1, Zone-II, Golf Course Road, DLF City Phase-V, Gurugram, 122009, Haryana Regd. Office:138, Ansal Chambers II, Bikaji Cama Place, Delhi-110066 Phone – 0124-4006 670/88 Fax No. +91-1244006666

Scanned with CamScanner

Fig 11 & 12: Bills stating procurement of solar water heating systems

ReNew Solar Energy Private Limited

M/s. Sri Adichunchanagiri Shikshana Trust

Bill To:
Sri Adichunchanagiri Kshetra, Nagamangala Taluk, District-Mandya, Mandya-560060, Karnataka, India

Ship To:
Sri Adichunchanagiri Kshetra, Nagamangala Taluk, District-Mandya, Mandya-560060, Karnataka, India

GSTIN:

Solar Plant Total Capacity (kW): 204.80

SUMMARY OF CONSUMPTION

17,695.00	31	570.81	2.79
Total Billed Units	Days	kWh/Day	kWh/kWp/Day

BREAKUP OF CURRENT BILL

	Units(kWh)	Tariff(Rs/kWh)	Amount(Rs.)
Generation	17,695.00	4.453	78,742.75
Adjustment(kWh)	0.00	4.453	0.00
Banked Generation	0.00	4.453	0.00
Solar Charges			78,742.75
Electricity Duty			0
[illegible]%			0.00
Total Charges			78,742.75

Remarks:
Solar Electrical charges for the month of July-22

Principal
S.J.C Institute of Technology
Chickballapur-562101

For any queries contact here: 1800 3000 1345

SOLAR BILL OF SUPPLY
- July 2022

35

Bill No:
Bill Date:
Bill Start Date:
Bill End Date:
HSN Code:

YOUR BILL OVERVIEW

Due Date: 29-Aug-2022
Late Payment Penalty: 0% / Month
Total Amount

Rs 78,74

Equals
Current Bill Amount

Rs 78,742.75

Late Penalty Charges

Rs 0.00

PAYMENT DETAILS

Bank Name: Axis Bank A/c (Partnership) - 914020048943262
A/C No: 914020048943262
IFSC Code: UTIB0000124

Authorised Signatory:
Mr. A V Rajasekhar

Digitally signed by A V RAJA SEKHAR
Date: 2022.08.13 11:30:03 IST
Location: Hyderabad

This Bill is generated on behalf of New Solar Energy Private Limited

Registered Office: Block-1, Zone-II, ReNew Hub, DLF Building, Phase-V, Main Sector Road, Commercial complex, Golf Course Road, Gurgaon-122002, Haryana, India

Fig 13: Bills stating procurement of solar water heating systems

Solar panels to generate electricity

Solar panels are installed on the Roof top of Academic and IT Blocks to generate electricity. The electricity generated so is utilized for domestic purposes. Also, facility is provided to send extra power to grid.

Fig 14 & 15: Solar Energy Generation at Academic Block and IT Block

.

Solar panel pole

From main gate to academic block solar panel poles are installed for street lights.

Fig 16: LED and Solar Street Lights

c) USE OF LED BULBS/ POWER EFFICIENT EQUIPMENT

As a step towards energy saving, class rooms, labs and hostels are provided with LED tubes.

The advantages of LED lights are as given below: -

- Long life
- The components of an LED and the way that they generate light significantly extend the lifespan of these bulbs
- Energy efficiency
- High brightness and intensity
- Low radiated heat
- Reliability
- Instantaneous illumination

Fig 17: LED tubes in class rooms

Fig 18: LED tubes in corridors

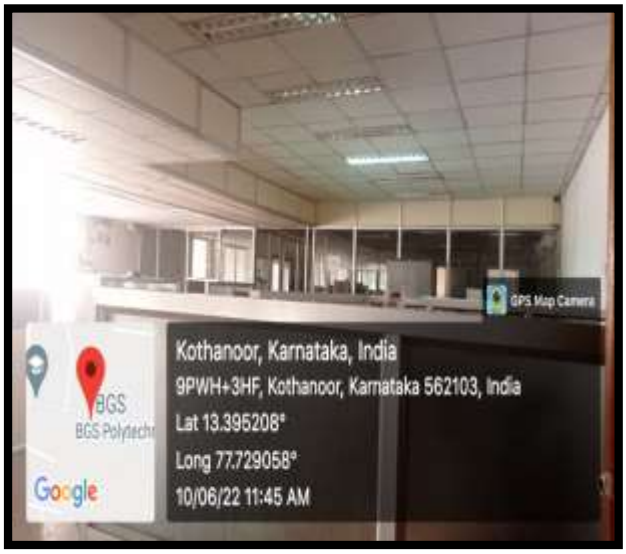


Fig 19 a, b c, d & e: Use of LED Bulbs in Laboratories

d) WHEELING TO THE GRID

As per the Electricity Act, 2003, 'wheeling' is the operation of distribution system and associated facilities of a transmission license or distribution license being used by another person for the conveyance of electricity on payment of charges. Solar power that is generated from the rooftops of the blocks in the campus is consumed internally. However there is provision made to divert to the grid if there is excess solar electricity produced. Figures show the wheeling to grid facility available in the campus.

Wheeling to the Grid

Fig 20: Wheeling to the Grid-Off condition

Fig 21: Wheeling to the Grid-ON condition

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

e) Solid waste management

f) Waste water management

g) E-waste management

h) Chemical waste management

e) SOLID WASTE MANAGEMENT

Institution takes utmost care in handling and disposing degradable and non-degradable waste by adopting safe and environmentally sustainable methods.

The institution practices a no-litter policy and use of plastics is banned within the campus and adequate awareness regarding the same is displayed through posters. Solid waste generated in the campus is collected through coloured dust bins placed at strategic locations for correct disposal and to ensure cleanliness and hygiene in campus. Every day the housekeeping staffs collect the waste from the bins and properly segregate it as bio-degradable and non-biodegradable. Posters of instruction for proper disposal are put up at these waste generation points. The bio-degradable food waste is collected and feed to the NISARGUNA Biogas Plant. The dry leaves from the trees and the plants are collected and used as manure for the garden. Solid wastes like outdated papers, magazines, Booklets are donated to blind school that use them for their braille studies.

Fig 22 a & b: Color-coded waste bins are placed on every floor of the institute/hostel buildings to collect bio-degradable, papers and plastic wastes separately

Fig 23: Plastic ban posters on display at several places in the campus

f) WASTE WATER MANAGEMENT

Institute has created awareness amongst the stakeholders about the importance of conserving water with reduced wastage by display of posters. Preventive measures like use of pressure taps, sprinklers in the gardening area to control wastage of water. Waste water from RO unit are used for washing clothes and for gardening purposes.

Fig 24 a & b: Usage of garden sprinklers to optimum usage of water

Fig 25 a & b: Usage of garden sprinklers to optimum usage of water

Fig 26 a & b: Girls Hostel Block RO unit and Drinking water unit

Fig 27 a & b: RO waste water being used for gardening and washing clothes in girls' hostel

Fig 28: Sign board to save water at college

g) E-WASTE MANAGEMENT

E-waste such as non-functional printers, modems, CDs, PCs and worn-out electronic items etc., are disposed through licensed e-scrap agency. An MOU is made with PUTHUR INFOTECH PVT LTD for electronic waste disposal. Karnataka State Pollution Control Board has recognized PUTHUR INFOTECH PVT LTD as an authorized agency.

MOU with the PUTHUR INFOTECH PVT. LTD

PUTHUR INFOTECH PVT. LTD.
No.55, 1st Floor, 5th Cross, Banaswadi Main Road
Bangalore - 560 043, Tel : 080 41612995, 41615501/41615502
Telefax : 41612948, Email : info@puthurinfotech.com
Website : www.puthurinfotech.co.in
CIN-U30007KA2006PTC041176

MEMORANDUM OF UNDERSTANDING

Between

PUTHUR INFOTECH PVT LTD

No.55, 1st Floor, 5th Cross, Banaswadi Main Road,
Bangalore www.puthurinfotech.com
Tel: + 91 9480690119 Fax: +91 80 41612948

AND

S J C INSTITUTE OF TECHNOLOGY, CHICKBALLAPUR

NO - 20. B.B Road Computer science Department

DATE: 24/07/2017

This Memorandum of understanding (MOU) sets for the terms and understanding between PUTHUR INFOTECH PVT LTD and S J C INSTITUTE OF TECHNOLOGY for their Electronic Waste Disposable.

PUTHUR INFOTECH PVT LTD (Authorization no.PCB/WMC/2190/E-Waste/Auth - Dismantling/2017/H-219 Date of issue: 24/05/2017 Reg. No. 124468)

Is government authorized legally compliant and environment friendly E-Waste management service provider offering end-to-end fully integrated service for collection of Audio Epabx spares, Projectors, CCTV, UPS, FMs and Projector Screen across Karnataka..

Puthur InfoTech Pvt Ltd has taken responsibility of helping the E-Waste and unused equipments from engineering college.

Purpose

This MOU declares that establishment has enrolled with Puthur InfoTech Pvt Ltd for their Electronic waste management for a period of 1 Year.

Signature Head of the Institution

For Puthur Infotech Pvt Ltd

Ravi S M
Regional Manager
94806 90107
ravi@puthurinfotech.com

ONE STOP OFFICE SOLUTION COMPANY

Quotation for E-Waste Collection

PUTHUR INFOTECH PVT LTD

No.55, 1st Floor,
5th Cross, Banaswadi Main Road,
Bangalore
www.puthurinfotech.com
Tel: + 91 9480690119
Fax: +91 80 41612948
Ref: PIPL/SAN/5215

Dated: 12/09/2017

To,

SJC Institute of Technology

P.B. No. 20, B.B. Road

Chickballapur,

Karnataka - 562101

Attention : Mr. Somashekar.R.

As requested please find the quotation for Ewaste collection

Sl. No.	Item Description	Qty	Unit Rate	Unit Rate
	Department of MBA			
1	LCD Projector with wall mount (not in working Condition)	1	Rs. 100	Rs. 100
2	CD	2	Rs. 1	Rs. 2
3	D link box	2	Rs. 2	Rs. 4
4	Extension card	3	Rs. 2	Rs. 6
5	Internet cable - damaged	5kg	Rs. 5	Rs. 25
	Civil Engineering Department			
1	SMPS	8	Rs. 5	Rs. 40
2	CD writer	3	Rs. 5	Rs. 15
3	Keyboard PS/2	4	Rs. 5	Rs. 20
4	Mouse	13	Rs. 2	Rs. 26
5	Flopy Disk	7	Rs. 1	Rs. 7
				Rs. 245

Terms & Conditions:

Validity: Valid for 1 year

Taxes: Inclusive of all taxes

We trust the above meet your requirement, look forward to receive your confirmation of order soon

Santhosh Mestha

Sr.Customer Engineer

Mobile: 9480690119

santhosh@puthurinfotech.com

PUTHUR INFOTECH PVT LTD

No.55, 1st Floor,
5th Cross, Banaswadi Main Road,
Bangalore
www.puthurinfotech.com
Tel: + 91 9480690119
Fax: +91 80 41612948
Ref: PIPL/SAN/5216

Dated: 12/09/2017

To,

SJC Institute of Technology

P.B. No. 20, B.B. Road

Chickballapur,

Karnataka - 562101

Attention : Mr. Somashekar.R.

As requested please find the quotation for Ewaste collection

Sl. No.	Item Description	Qty	Unit Rate	Unit Rate
	Computer Science/Information Science			
1	P4 &P3 CPU	10	Rs. 200	Rs. 2,000
2	TFT Monitor 15 inch	8	Rs. 250	Rs. 2,000
3	SMPS	25	Rs. 5	Rs. 125
4	Keyboard PS/2	2	Rs. 5	Rs. 10
5	Mouse	5	Rs. 2	Rs. 10
6	Dot Matrix Printer	2	Rs. 100	Rs. 200
7	Projector Vga Cable	3	Rs. 10	Rs. 30
8	D-Link 24 Port Switch	1	Rs. 100	Rs. 100
9	CPU Fan & Heat SYNC	20	Rs. 2	Rs. 40
10	Flopy Disk	50	Rs. 1	Rs. 50
11	DVD'S	100	Rs. 1	Rs. 100
	Mechanical Engineering Department			
1	P4 &P3 CPU with CRT Monitor	16	Rs. 250	Rs. 4,000
2	Dot Matrix Printer	1	Rs. 100	Rs. 100
3	Laser Printers	2	Rs. 10	Rs. 20
4	Scanner	1	Rs. 5	Rs. 5
5	Keyboard PS/2	17	Rs. 5	Rs. 85
6	SMPS	2	Rs. 5	Rs. 10
7	D-Link 24 Port Switch	2	Rs. 100	Rs. 200
	Total			Rs. 9,085

Terms & Conditions:

Validity: Valid for 1 year

Taxes Inclusive of all taxes

We trust the above meet your requirement, look forward to receive your confirmation of order soon.

Santhosh Mestha

Sr.Customer Engineer

Mobile: 9480690119

santhosh@puthurinfotech.com

Application for Grant of Authorisation of E-Waste

ಫ್ಯಾಕ್ಸ್/Fax : 080-25586321
ಈಮೇಲ್/E-mail : ho@kspcb.gov.in
ವೆಬ್‌ಸೈಟ್/Website : http://kspcb.gov.in

25581383, 25589112
25588151, 25588270
25588142, 25586520

ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ
Karnataka State Pollution Control Board
"ಪರಿಸರ ಭವನ", 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ. 49, ಚರ್ಚ್ ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ, ಭಾರತ
"Parisara Bhavana", 1st to 5th Floor, # 49, Church Street, Bengaluru - 560 001, Karnataka, INDIA

FORM 4(cc)
[See rules 13(3) (ii), (iii),(iv)]

FORMAT FOR GRANTING AUTHORISATION FOR FACILITIES POSSESSION ENVIRONMENTALLY SOUND MANAGEMENT PRACTICE FOR DISMANTLING OF E-WASTE

Ref: **Your application for Grant of Authorisation under Rule 13(3)(i) of E-Waste (Management) Rules, 2016 at Regional Officer Bangalore East on 23.02.2017(Reg No 124468).**

1. (a) Authorisation no. **PCB/WMC/2190/E-Waste/Auth-Dismantling/2017**
   (b) Date of issue : 7-2-17

2. The Proprictor of **M/s. Puthur Infotech Pvt Ltd.,** is hereby granted an authorisation for facilities possession environmentally sound management practice for dismantling of E-waste on the premises situated at **No.55, 1st floor, 5th cross, Banaswadi main road, Banglore-560043** for the following

   a. Quantity of e-waste; **360 MT/Annum**

   b. Nature of e-waste : IT & Telecommunication Equipments

3. The authorisation shall be valid for a period from **01.06.2017** to **30.06.2021**

4. The e-waste mentioned above shall be disposed off in a manner manual operation for segregating various components / parts to **Authorized Recyclers.**

5. The authorisation is subject to the conditions stated below and such conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act, 1986.

Signature ----------

Designation ---------- Date: ----------

Terms and conditions of authorisation

1. The authorisation shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.

2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorized by the concerned State Pollution Control Board.

3. Any unauthorised change in personnel, equipment as working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorisation.

4. It is the duty of the authorised person to take prior permission of the concerned State Pollution Control Board to close down the operations.

5. An application for the renewal of an authorisation shall be made in Form 4 before 120 days of its expiry.

SPECIFIC CONDITIONS:

1. The dismantlers may set up their collection centre, details of which shall be entered in their authorisation. These collection centres shall not require separate authorisation.
2. The dismantler shall be connected to either Producers or PRO or e-waste exchange or take back system or authorised recycler.
3. The dismantler shall have valid consent from KSPCB under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981.
4. The dismantler shall have weigh bridge and other appropriate weighing equipment for weighing each delivery received by it and maintain a record in this regard.
5. The unloading of e-waste/end of life products should be carried out in such a way that there shall not be any damage to health, environment and to the product itself. Unloading of Cathode Ray Tubes (CRT), LCD / LED / Plasma TV, refrigerator, air conditioners and fluorescent and other mercury containing lamps should be carried out under supervision in such a way to avoid breakage.
6. The dismantler shall have facilities for destroying or permanently deleting data stored in the memory of end of life products (Hard Disk, Telephones, Mobile phones) either through hammering or through data eraser.
7. The dismantling operation is essentially manual operation for segregating various components/ parts and sending them to respective users/ recyclers. Directly usable components can be sent only to an authorised refurbisher. The other parts can be sent to recyclers having valid CFO / authorised E-waste recyclers depending upon the nature of the part.
8. The dismantling operation shall comprise of physical separation and segregation after opening the electrical and electronic equipment into the component by manual operations.
9. Manual dismantling operations shall be carried out over the dismantling table with space de-dusting system so as to maintain desirable work zone air quality as per the factories Act as amended from time to time.

10. The de dusting system should consist of suction hoods over dismantling table connected with a cyclone, bag filter and venting through a chimney of three-meter height above roof level.
11. The workers involved in dismantling operation shall have appropriate equipment such as screwdrivers, wrenches, pliers, wire cutters, tongs and hammers etc. for dismantling the e-waste.
12. The dismantlers shall not carry out shredding / crushing / fine grinding/wet grinding/ enrichment operations and gravity/ magnetic/density/eddy current separation of printing circuit board or the components attached with the circuit board.
13. The dismantlers shall not be permitted for dismantling of fluorescent and other mercury containing lamps, CRT / LCD / Plasma TV.
14. The dismantlers shall not be permitted for chemical leaching or heating process or melting the material.
15. The dismantled circuit boards, capacitors, batteries, capacitors containing PCBs (Polychlorinated biphenyls) or PCTs (Polychlorinated terphenyls) etc. shall not be stored in open.
16. The premise for dismantling operation shall be Water proof roofing and impermeable surfaces with roof.

SENIOR ENVIRONMENTAL OFFICER

To,
The Director,
M/s. Puthur Infotech Pvt Ltd
No.55, 1st floor, 5th cross,
Banaswadi main road,
Banglore-560043

Registration Confirmation from Karnataka State Pollution Board

ಫ್ಯಾಕ್ಸ್/Fax : 080-25586321
ಇಮೇಲ್/E-mail : ho@kspcb.gov.in
ವೆಬ್‌ಸೈಟ್/Website : http://kspcb.gov.in

25581383, 25589112
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ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ

Karnataka State Pollution Control Board

"ಪರಿಸರ ಭವನ", 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ. 49, ಚರ್ಚ್ ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ, ಭಾರತ
"Parisara Bhavana", 1st to 5th Floor, # 49, Church Street, Bengaluru - 560 001, Karnataka, INDIA

No.PCB/HWM/E-Waste/P.B.No.000029/2017-18 1725

28 JUN 2017

To.

The Authorised Signatory,
M/s. Puthur Infotech Pvt. Ltd.,
No. 55, 1st floor, 5th Cross,
Banasawadi Main Road,
Bangalore – 560 043.

Sir,

Sub: Issue of Registration cum Pass Book – reg.
Ref: Your application Received on 23-02-2017.

<<<>>>

Please find herewith enclosed the Registration cum pass Book of No. PCB/WMC/E-Waste/P.B.No.000029/2017-18, Dated: 09-06-2017 for the period up to ***30-06-2021***.

Kindly acknowledge the same.

Yours faithfully,

SENIOR ENVIRONMENTAL OFFICER

000029

Pass Book for 'Actual User*' of E-Waste under the E-Waste (Management) Rules, 2016 for Collection, Refurbishment, dismantling of E-Waste.

[See Rule 6 (7)]

Name and Address : M/s. Pulkit Infotech Pvt Ltd

Of the Occupier No 55, 1st floor, 5th Cross, Banaswadi main road Bengaluru - 560043

Telephone / Fax No. :

Mobile No. : 9480690115

E-mail Address : ravi@pulkitinfotech

Authorization No. : PCB/HOWC/2190/E-Waste/2017/Reg No. 124468/ dt:

Date of Issue :

Validity Period : upto 30.06.2021

Type and Quantity of 'E-Waste' Permitted

Sl. No.	Category No. & E-Waste Wastes as per Schedule I, II, III & IV	Quantity (MTPA or KLPA)
1	Schedule - I of E-Waste (Management) Rules, 2016	360 MT / annum

Authorized Signatory & Seal

(As per Rule 3(2) 'Actual User' means an occupier who procures and processes hazardous and other waste for reuse, recycling, recovery, pre-processing, utilization including co-processing)

1

Conditions of the Pass Book:

1. The Actual User shall submit copies of the valid consents and authorization also to the auctioneer/ seller at the time of each procurement.
2. The actual user shall be responsible to ensure that the quantity of the wastes (s) procured each time is endorsed in this Pass-Book by the authorized seller/auctioneer.
3. The Actual User shall obtain copy of the analysis report of the E-Waste from the generator at the time of each procurement and submit the same to KSPCB.
4. The Actual user shall not rent / lend / sell / transfer this Pass-Book.
5. Any change in the Actual User technology, disposal facility and equipment shall only be carried out with prior permission of KSPCB.
6. The Actual user shall submit quarterly reports of E-Waste Waste, quantity of the products manufactured and sold (supported with central Excise / Sales Tax details), quantity of waste generation and its mode of disposal to KSPCB.
7. The actual user shall submit certified copy of the Pass-Book once in six months to the Board Office and to the concerned Regional Office.
8. The Actual user shall obtain fresh Pass Book after the expiry of authorization/completion of all pages in the Pass-Book only after submission of certified copy of the entire old Pass Book.
9. The Actual user shall transport the E-Waste only in the vehicle authorized by KSPCB.

Authorized Signatory & Seal

h) CHEMICAL WASTE MANAGEMENT

SJCIT has chemistry lab which uses chemicals for experiments. Chemical testing is done on regular basis and action taken as per the testing report. MOU has been signed by agency that tests the chemical samples regularly.

Report from Karnataka state Pollution Control Board

ECO GREEN SOLUTION SYSTEMS PVT LTD

Recognized by Ministry of Environment, Forests & Climate Change (MoEF & CC), GOI, Dt. 25.02.2019 to 24.02.2024
ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018
#48/A-4, KIADB Industrial Area, Doddaballapur, Bengaluru-561203
Tel: 080-23464664. E-mail: lab@egsspl.in
CIN: U74140KA2005PTC036991

TEST REPORT EGSSPL/TF/09/01

1	Customer Name & Address	SJC Institute of Technology BB Road Chickballapur-562101	7	Sample Collected on	27.08.2022
2	Sample Description	Raw Trade Effluent	8	Sample Receipt On	27.08.2022
3	Date of Analysis Start	17.08.2022	9	Sample RC No	630
4	Date of Analysis Completed/Date of Report	01.09.2022/02.09.2022	10	Sample Code No	EGSSPL/1091
5	Report No	EGSSPL/1091	11	Quantity of Sample Received	2 Ltrs
6	Appearance of Sample	Bluish Color	12	Sample Particulars	Sample received in a can

S.No	PARAMETERS	RESULTS	TEST METHOD
1	pH @26.7^{0}C	3.63	IS 3025:Part-11:1983 (Reaffirmed-2022)
2	Total Dissolved Solids, mg/L	8656	IS 3025:Part-16:1984 (Reaffirmed-2017)
3	Temperature,^{0}C	26.4	IS 3025:Part-09:1984 (Reaffirmed-2017)
4	Sodium as Na, mg/L	360	IS 3025:Part-45:1993 (Reaffirmed-2019)
5	Potassium as K, mg/L	210	IS 3025:Part-45:1993 (Reaffirmed-2019)
6	Calcium as Ca, mg/L	80.2	IS 3025:Part-40:1991 (Reaffirmed-2019)
7	Total Hardness as $CaCO_3$, mg/L	420	IS 3025:Part-21:2009 (Reaffirmed-2019)
8	Magnesium as Mg, mg/L	53.3	IS 3025:Part-46:1994 (Reaffirmed-2019)
9	Chlorides as Cl, mg/L	1783.8	IS 3025:Part-32:1988 (Reaffirmed-2019)
10	Total Phosphates as PO_4, mg/L	0.1	IS 3025:Part-31:1988 (Reaffirmed-2019)
11	Sulphate as SO_4^{2-}, mg/L	3933.5	APHA 23rd Edition:2017 4500-SO_4^{2-} E
12	Acidity as $CaCO_3$, mg/L	3603.6	IS 3025:Part-22:1986 (Reaffirmed-2019)
13	Total Chromium as Cr, mg/L	433.8	APHA 23rd Edition:2017-3111 B
14	Copper as Cu, mg/L	39.2	APHA 23rd Edition:2017-3111 B
15	Iron as Fe, mg/L	469.8	APHA 23rd Edition:2017-3111 B
16	Zinc as Zn, mg/L	40	APHA 23rd Edition:2017-3111 B
17	Nickel as Ni, mg/L	6	APHA 23rd Edition:2017-3111 B
18	Lead as Pb, mg/L	BDL	APHA 23rd Edition:2017-3111 B
19	Cadmium as Cd, mg/L	BDL	APHA 23rd Edition:2017-3111 B
20	Bio-Chemical Oxygen Demand (3Days at 27^{0}C), mg/L	260	IS 3025:Part-44:1993 (Reaffirmed-2019)
21	Chemical Oxygen Demand, mg/L	720	IS 3025:Part-58:2006 (Reaffirmed-2017)

Note: Sample not drawn by us. **BDL:** Below Detection Limit

End of Report

Authorized Signatory
Suhas S.S
Government Analyst

Reg. Office: #93, 7th Cross, Lower Palace Orchard, Bengaluru - 560003
Tel: 080-23464664/23464665. E-mail: ecogreen@egsspl.in. Website: www.egsspl.in

Report of Chemical Waste Management

|| Jai Sri Gurudev ||
Sri Adichunchanagiri Shikshana Trust (Regd.)

S J C INSTITUTE OF TECHNOLOGY

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)
NBA (CSE, ECE & ME) & NAAC Accredited and QS I-Guage (GOLD Rating)
P.B. No. 20, B.B. Road, Chickballapur - 562 101, Karnataka.

SJCIT

Ref. No. SJCIT /

Date : 17-09-2022

TO WHOM EVER SO CONCERN

This is to certify that the waste water being released from chemistry laboratories collected in a separate tank and then neutralized with the chemical sodium hypochlorite (4%) till the pH of waste water reaches 7-8, it is then used for gardening purpose. This process is carried out at the end of each semester. The chemicals used for lab experiments do not contain any hazardous substances. This treatment process is carried out under the oral guidance of Karnataka state pollution control Board, Govt of Karnataka, Chickballapur district.

17/9/22
HOD, Department of Chemistry
H.O.D. of Chemistry
S. J. C. I. T.
CHICKBALLAPUR-562 101

Principal
Principal
S.J.C. Institute of Technology
Chickballapur-562101.

3. Water conservation

i) Rain water harvesting

j) Open well recharge

k) Maintenance of water bodies and distribution system in the campus

Institution located in rural area with 65 acres of space away from city, there is no Municipal Water supply for the college. The institution depends on ground water for all its water needs. Hence, efficient usage of available water and adaptation of water conservation measures are essential. The daily requirement of water in the campus is around 200000 liters.

The following measures are taken for the conservation of water:

i) Rain Water Harvesting

Rainwater harvesting is the simple process or technology used to conserve rainwater by collecting, storing, conveying and purifying of rainwater that runs off from rooftops, parks, roads, open grounds, etc. for later use.

Scarcity of water and availability of vast area of 56 acres campus is the motivation for the construction of pond and implementation of self-sustained rain water harvesting scheme, for nearly 45 lakh liters of water.

The topography of the campus is studied thoroughly with the annual rainfall data of the area of 756 mm per annum (Annual Rainfall of Chickballapur District) and an ideal location for pond is identified. Construction of pond of 11.35 m depth with top cross section of 25 x 30 m and bottom cross section of 11.5 x 14.5 m an estimated capacity of approximately 45 lakhs liters.

Advantages:

The benefits of the rainwater harvesting system are listed below.

- This technology is relatively simple, easy to install and operate.
- Promotes both water and energy conservation.
- Improves the quality and quantity of groundwater.
- It reduces soil erosion, storm water runoff, flooding and pollution of surface water.
- It is an excellent source of water with no chemicals, dissolved salts and free from all minerals.

Run off generated in the campus is collected using a rainwater harvesting pond constructed in the campus on a natural drain passing through the campus. The pondage developed by the institution can store 45 lakh liters of water. The stored water percolates into the ground to recharge ground water.

Fig 29 a & b: Rain water harvesting at SJCIT

Fig 30: Rainwater harvesting pond at girls' hostel

Roof Top Harvesting: The rain water coming from roof tops and that flowing within the campus are collected in separate tanks, constructed at all feasible points in the campus to feed lawns and gardens.

Fig 31 a & b: Roof Top harvesting at SJCIT boys' hostel

Fig 32 a & b: Roof Top harvesting at SJCIT boys' hostel

Fig 33 a & b: Roof Top harvesting at SJCIT

j) Open Well Recharge

An open well located in the campus is recharged by rain water. The well also receives water from the pondage of check dam through pumping. Two check dams are built to enhance the inflow of rain water for the main water storage tank (Pond). After duration of nearly ten months of construction period, pond was ready to receive the storm water intake. During the monsoon the pond will receive inflow to its maximum capacity due to which the dried bore wells were charged.

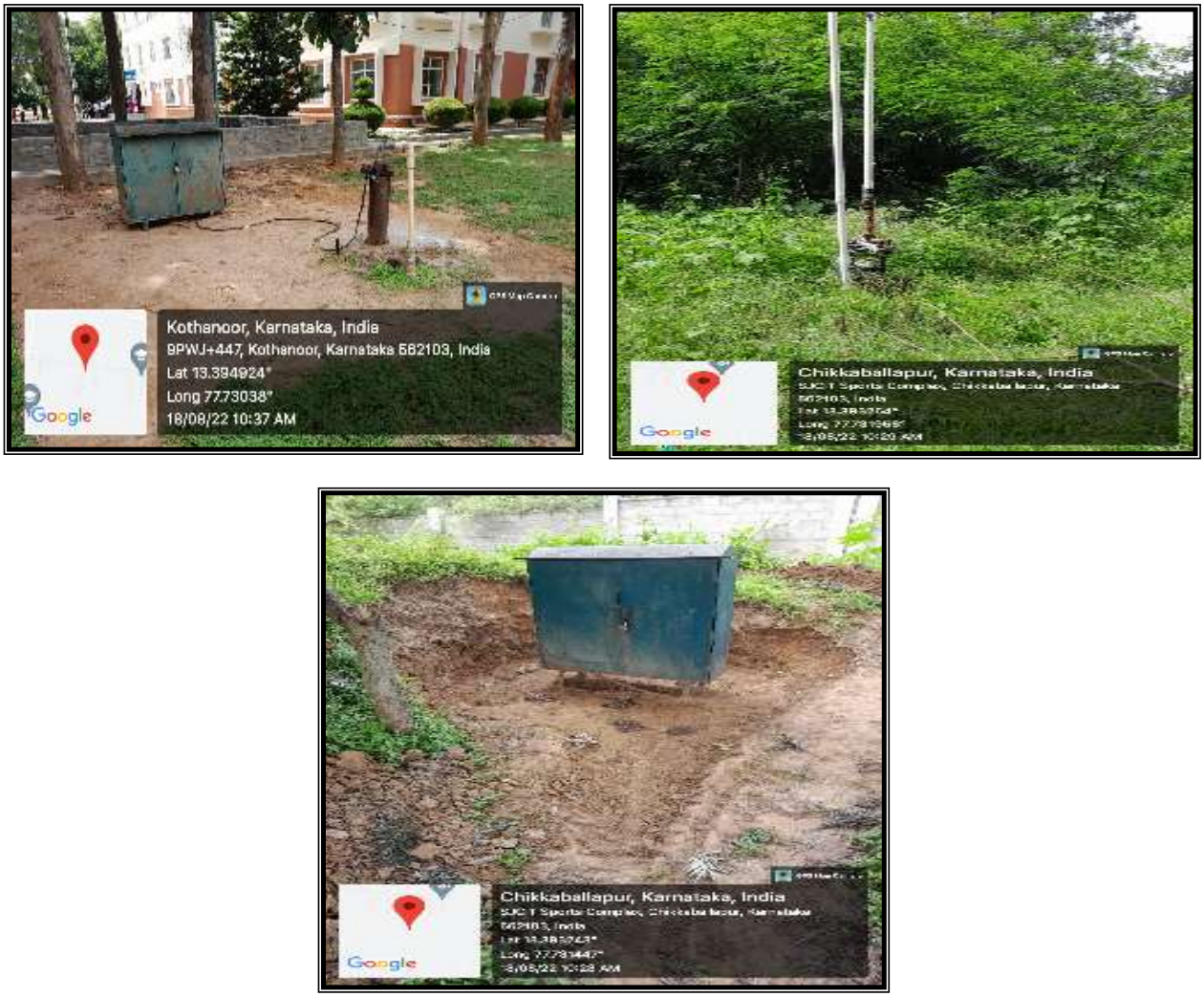

Fig 34 a, b & c: Open well recharge

Construction of Tanks and Bunds: A contour canal is also maintained along one boundary of the college for the percolation of rain water.

Fig 35 a & b: Construction of contour canals

Fig 36 a & b: Construction of contour canals

k) Maintenance of Water Distribution Systems in the Campus

The ground water is pumped into storage tanks located at different places in the campus. The water is distributed through well laid pipe network. Drinking water after treating in RO plant is supplied through a separate set of distribution pipes and water for all other purpose is supplied through another set of distribution pipes. Entire distribution system is well supervised by maintenance committee to ensure that there are no leakages and wastages of precious water through joints, valves etc. Waste usage of water is reduced using low pressure flushes. All the stakeholders of the college are well educated to use water economically and efficiently.

Fig 37 a & b: Maintenance of water distribution systems in the campus

Fig 38 a & b: Maintenance of water distribution systems in the campus

Fig 39: Maintenance of water distribution systems in the campus

4. Green campus initiatives

Major Green campus Initiatives are:

l) Institute community Garden

m) Restricted Parking

n) Pedestrian Friendly pathways

o) Ban on use of Plastic

l) Lush Green Institute Garden

Green Landscaping with Trees and Plants – The campus is beautifully landscaped with plantation of around 1000 plants has been done including a number of variety plants. An active Civil Engineering Department ensures the organization of tree plantation on World Environment Day, College level Swachh Bharat mission and various awareness programs & events are held every year. A rich variety of flora and fauna pre-dominates the natural landscape of the campus. Exotic fruit trees are also planted in the campus.

Fig 40 a, b, c & d: Lush green institute Garden

m) Restricted entry of vehicles and parking

At institution campus, entry of vehicles is restricted. At the main gate of college, visitors' entry register is maintained that records the vehicle license number of all visitors. In its Endeavour to reduce the pollution in campus.

Fig 41 a & b: Four wheelers and Two-Wheeler Parking

Fig 42 a & b: Buses Parking at transportation department and Restricted entry of vehicles

n) Pedestrian friendly road

All around the campus of institution, tiles paved pedestrian friendly roads have been constructed for smooth commuting of students, faculty and other staff members of the institute. These roads are maintained on regular basis for keeping them free of mud, dust and any other vegetation growth. On either side of the roads, proper concrete boundaries are made and painted. These well-maintained roads add to the beauty of the campus.

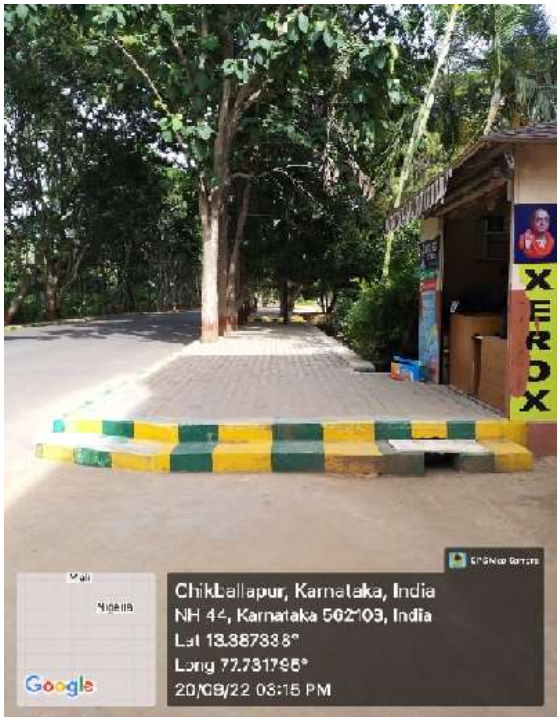

Fig 43 a & b: Pedestrian Friendly Road

o) Ban on use of Plastic

Plastic ban posters are displayed in the campus to create awareness about avoiding use of plastic.

Fig 44 a & b: Plastic free campus sign

5. Disabled-friendly, barrier free environment

As per the requirement of UGC and VTU, institution has formed a committee for the wellbeing of students, with disabilities in the Institution (College). The internal committee is formed comprising of staff, students and parents in order to take care of day to day need of differently able person.

Internal Committee for students with disabilities dated 01.03.2021

||Jai Sri Gurudev||

SJC Institute of Technology

P B No.20, BB Road, Chickballapur-562101

Internal Committee for the Students with Disabilities in Universities / Colleges

Date: 01/03/2021

Sub: Formulation of Equal Opportunity Cell/internal committee for the Students with disabilities in universities/college-reg. **(Revised the Committee)**

Ref: Your letter No: VTU/BGM/Aca-OS/Gen-Cirs/2019-20/1946, Dtd: 24.06.2019 **(Revised the Committee)**

With reference to the above subject, as per the UGC and V T U circular. The following Equal Opportunity Cell/Internal committee is formulated for the students with disabilities in our institution. The details of the committee members are as follows

Sl. No.	Name of the Committee Member	Designation in Committee	Phone Numbers
1.	Dr. G T Raju, Principal	Chairperson	9731292555
2.	Dr. Ravi Kumar M, Associate Professor, ASE	Coordinator	9738075498
3.	Dr. Manjunatha B H, HOD,CSE	Member	9900600756
4.	Dr. S. Bhargavi, Professor, ECE	Member	9972428675
5.	Sri. Venkatesh A, Parent	Member	9900250331
6.	Sri. Lokesh, Parent	Member	9972862297
7.	Yashwanth D Raj, 4th year student, ASE	Member	9606533390

01/03/2021

Dr. Ravi Kumar M
Coordinator
S J C I T, Chickllapur-562101

1/3/21

Dr. G T Raju
Principal & Chairperson
S J C I T, Chickllapur-562101

Internal Committee for students with disabilities dated 10.12.2019

|| Jai Sri Gurudev ||
Sri Adichunchanagiri Shikshana Trust (Regd.)
Sri Jagadguru Chandrashekaranatha Swamiji Institute of Technology
(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)
(NAAC Accredited and ISO 9001 : 2015 Certified)
P.B. No. 20, B.B. Road, Chickballapur - 562 101, Karnataka.
SJCIT

Ref. No. SJCIT /Gen/269/2019-20 Date : 10/12/2019

The Registrar,
Visvesvarya Technological University
Jnana Sangama,
Belagavi-590018

Sub: Formulation of Internal Committee for the Students with disabilities in universities/college-reg.

Ref: Your letter No: VTU/BGM/Aca-OS/Gen-Cirs/2019-20/7421 dt: 03/12/2019
Ref: UGC letter F.No. 6-1/2018(SCT) dt: 06/11/2019

With reference to the above subject, as per the UGC and V T U circular. The following table shows the formulation of Internal Committee for the students with Disabilities in our institution. The details of the committee members are as follows.

Sl. No.	Name of the Committee Member	Designation in Committee	Phone Numbers
1.	Dr. K M Ravikumar, Principal	Chairperson	9880373629
2.	Dr. Ravi Kumar M, Associate Professor, MED	Coordinator	9738075498
3.	Dr. G.V Gnanedra Reddy, HOD, MED	Member	9980923295
4.	Dr. Anitha T.N, HOD,CSE	Member	9379061264
5.	Sri. Satheesh Chandra Reddy, HOD, ISE	Member	9845514794
6.	Dr. S. Bhargavi, Professor, 1st year Coordinator	Member	9972428675
7.	Sri. Venkatesh A, Parent	Member	9900250331
8.	Sri. Nataraj. S	Member	9036659703
9.	Miss. Monisha, 4th year student, MED	Member	8792460141
10.	Mr. Sudeep, 3rd year student, ECE	Member	9535588403

10/12/2019
Dr. Ravi Kumar M
Coordinator
S J C I T, Chickllapur-562101

10/12/19
Dr. K M Ravikumar
Principal & Chairperson
S J C I T, Chickllapur-562101

INSTITUTE OF TECHNOLOGY Chickballapur 562101

Phone: 08156-263181 / 83 / 84 (0), Fax: 08156-263180, Principal: 08156-263182(Dir.), E-mail: principal@sjcit.ac.in, Website: www.sjcit.ac.in

Fig 45: Internal Committee for students with disabilities

Keeping in mind the condition and needs, the college has made such arrangements for physically disabled students. For example, instead of staircase a simple arrangement **(Ramp)** is made at the entrance of every department, which has been shown in photographs, as well as a wheel chair and

ambulance is kept ready for the use if necessary.

Fig 46: Ramp at Academic Block

Fig 47: Ramp at Administrative Block

Fig 48: Ramp at IT Block

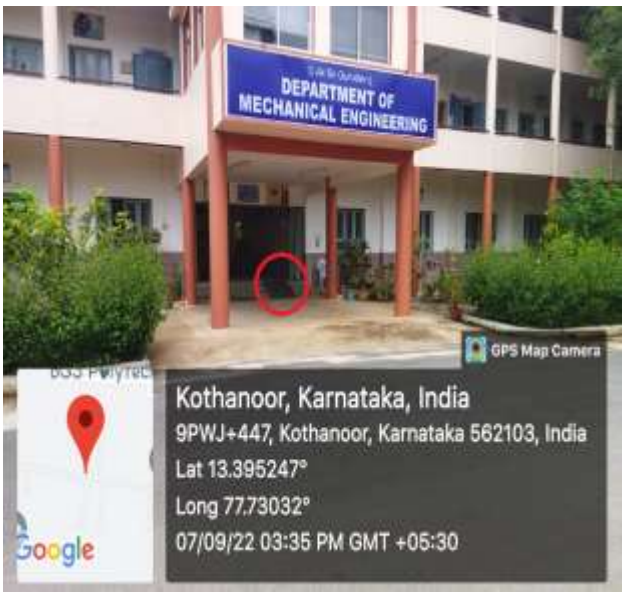

Fig 49: Ramp at Mechanical Engineering Block

Fig 50: Aeronautical and Aerospace Engineering Block

Fig 51: Wheel Chair

Fig 52: Ambulance service

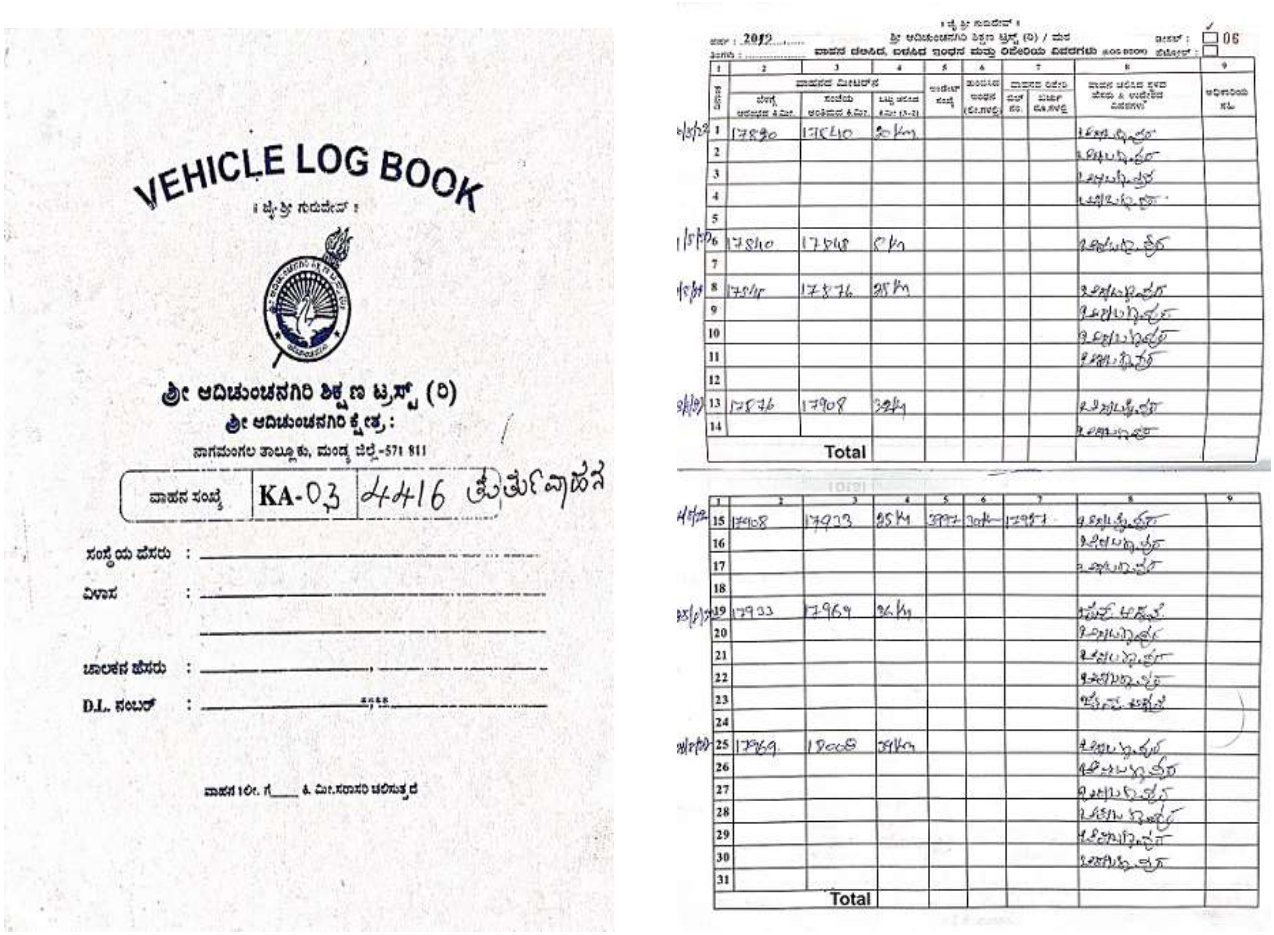

Fig 53: Ambulance service book