

NISH

NATIONAL INSTITUTE OF SPEECH & HEARING

(An autonomous organisation under the Social Justice Department, Government of Kerala)

Accredited as Excellent Institution by RCI ISO 9001:2015 Certified Accredited by NAAC with A Grade

FACILITIES FOR ALTERNATE SOURCES OF ENERGY AND ENERGY CONSERVATION MEASURES IN NISH

1. Solar Energy: Solar Plant and Solar Water Heater

NISH has installed and commissioned a solar power plant of capacity 30Kwp grid-connected since August 2018 to reduce the consumption of electricity and as an eco-friendly green initiative. The solar panels are installed on the rooftop of the Thejas Building. The solar panels have been installed at the campus by M/S KELTRON (Kerala State Electronics Development Corporation) as per the specification and guidelines issued by ANERT (Agency for New and Renewable Energy Research and Technology).

Solar Water Heater: As a renewable energy measure one solar water heater of capacity 500 LPD is installed at top of Amruth building to provide hot water (approximate 80 Degree Celsius hot water) at the Canteen kitchen purpose. This hot water can be used for dishwashing and cooking purposes.

Photographs of the facility are given below:



Solar Panel Image 1

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Solar Panel Image 2



Solar Panel Image 3

2. Wheeling to the Grid

The solar energy generated on campus is utilized by the institution as a whole.

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3. BIOGAS PLANT

A biogas plant of capacity 10 cubic meters has been installed nearby NISH canteen premises for the disposal of degradable food waste generated in the canteen and in the campus. The gas generated from the plant is connected to the canteen kitchen and one stove is working using this gas. The slurry generated from the biogas plant is used as fertilizer for the garden in the campus. The service and maintenance of the plant are carried out by one of the accredited agencies of the Kerala government.

A photograph of the biogas plant on campus and that of the letter on the same are given below.



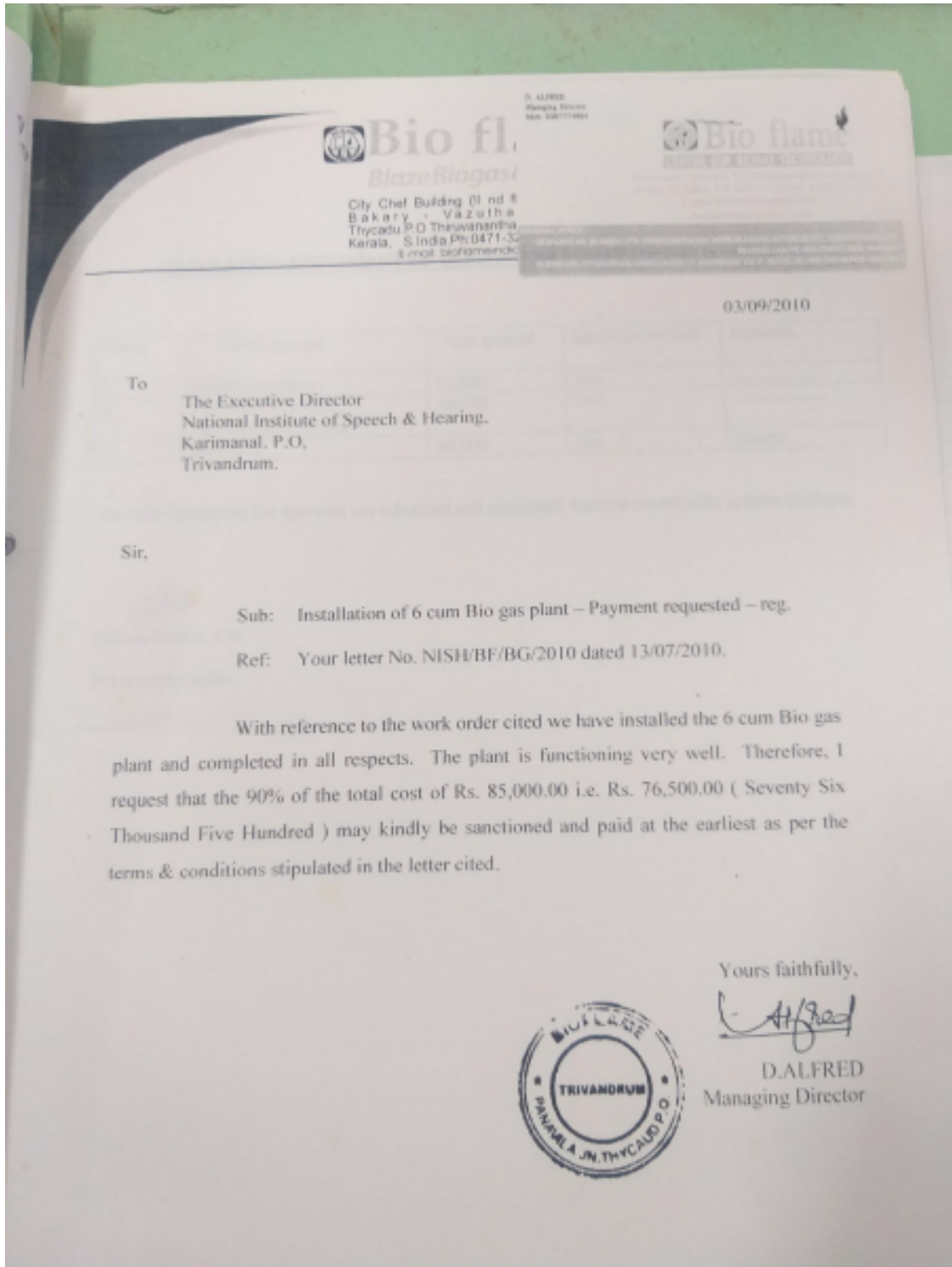
Biogas Plant

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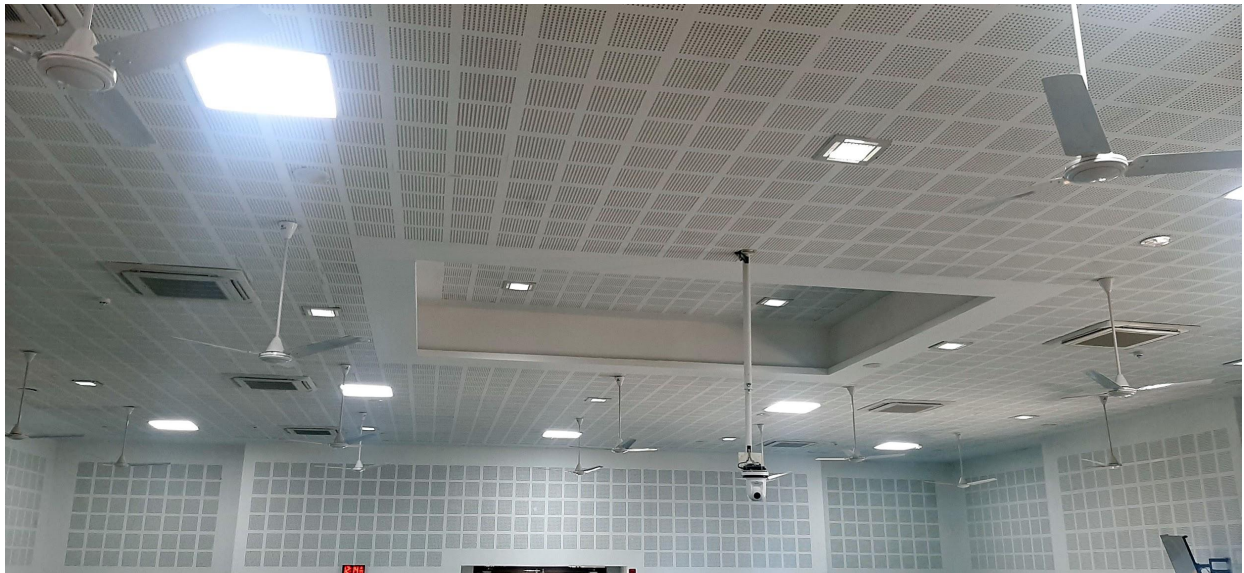
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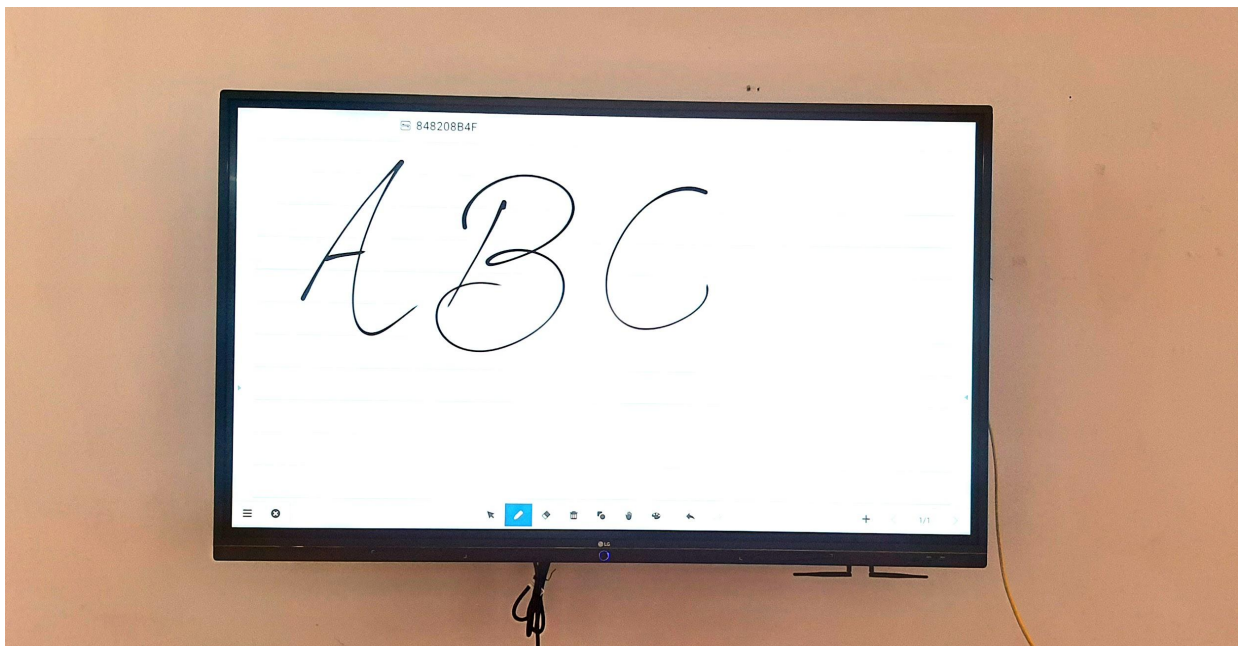
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4. Use of LED Bulbs/ Power Efficient Equipment

LED bulbs are installed in the corridors of the Dhyan building replacing old bulbs to provide more light and hence energy saved. The new building Thejas has been installed with led lights in all the rooms. LED display boards are also there on campus.



LED Bulbs



LED TV

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SOLAR ENERGY GENERATED IN NISH

Yearly Reports on the solar energy generated in NISH are given below.

Yearly Report 2021			
Project Overview			
Site Name:	NISH Akkulam	Yearly Energy:	28101.00kWh
System Size:	30kWp	Total Energy:	118172.9kWh
Time:	2021		
Summary			
Time	Energy (kWh)		
Jan-21	3279		
Feb-21	3331		
Mar-21	3268		
Apr-21	3139		
May-21	3042		
Jun-21	3613		
Jul-21	3697		
Aug-21	3676		

Yearly Report 2020			
Project Overview			
Site Name:	NISH Akkulam	Yearly Energy:	35378.00kWh
System Size:	30kWp	Total Energy:	118172.9kWh
Time:	2020		
Summary			
Time	Energy(kWh)		
01-2020	4011		
02-2020	3471		
03-2020	3440		
04-2020	3728		

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05-2020	3177		
06-2020	2870		
07-2020	2850		
08-2020	2231		
09-2020	2171		
10-2020	2391		
11-2020	2278		
12-2020	2760		

Yearly Report 2019			
Project Overview			
Site Name:	NISH Akkulam	Yearly Energy:	34488.00kWh
System Size:	30kWp	Total Energy:	118172.9kWh
Time:	2019		
Summary			
Time	Energy(kWh)		
01-2019	3907		
02-2019	2754		
03-2019	4152		
04-2019	3094		
05-2019	3337		
06-2019	1803		
07-2019	2854		
08-2019	2436		
09-2019	2192		
10-2019	1382		
11-2019	3470		
12-2019	3107		

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Yearly Report 2018			
Project Overview			
Site Name:	NISH Akkulam	Yearly Energy:	1628.00kWh
System Size:	30kWp	Total Energy:	118172.9kWh
Time:	2018		
Summary			
Time		Energy(kWh)	
12-2018		1628	



PAYMENT VOUCHER

No. : 453

Date : 12-Jul-2018

Pay :

	Particulars of Payment	Amount
Prepared by	<u>Head of Account</u> M/s.Bioflame	56,840.00
	<u>Towards :-</u> Being the cost of remove all the waste from the plant and disposal cleaning bacteria, digester height foundation increasing the same level & biogas plant digester mainteance change the PVC pipe line Tds-58000*2% paid to Bioflame, Vide Try Ch.No.5109099	
Checked by		₹ 56,840.00

Received Rupees : Fifty Six Thousand Eight Hundred Forty Only.

Passed by :

Authorised by :

Signature of Receiptent

Journal Voucher

No. : 256

Dated : 12-Jul-2018

Particulars	Debit	Credit
Adm-Repair & Maint. - General Dr	58,000.00	
To Tax Deducted at Source (Tds Payable)		1,160.00
To M/s.Bioflame		56,840.00
New Ref BF/102 56,840.00 Cr		
	₹ 58,000.00	₹ 58,000.00

On Account of :

Being the cost of remove all the waste from the plant and disposal cleaning bacteria, digester height foundation increasing the same level & biogas plant digester mainteance change the PVC pipe line. Tds-58000*2 % paid to Bioflame

Authorised Signatory



Office :
RBI, Jubilee Hospital Road, Bakery Jn., Thiruvananthapuram | Ph : 0471-3238733

Main Branch :
Opp. Popular Hyundai, Vettu Road, Kazhakkootam P.O., Thiruvananthapuram | Tel: 0471 327485

Bill No:BF/102/04.07.2018

04/06/2018

Ms. Soja Oliver,
Administrative Officer
National Institute of speech & Hearing,
Nish Road, Sreekariyam P.O.,
Trivandrum.

CASH BILL

Si.No.	Particulars	Rate Rs.	Qty	Advance	Amount Payable Rs..
1.	Remove all the waste from the plant and dispose cleaning bacteria cost	30,000.00 ✓	01	000.00	30,000.00
2.	Digester Height Foundation increasing the same level cost.	16,000.00 ✓	01	000.00	16,000.00
3.	Biogas plant digester maintance. Change the PVC pipe line cost	12,000.00 ✓	01	000.00	12,000.00
Total (Rupees Fifty Eight Thousand Only)					58,000.00 ✓

The work was completed satisfactorily
Necessary action may please be taken
at the earliest.



The payment may be given on new
the work order
11/6/18 BC

3

PAYMENT VOUCHER

No. : 1021 ✓

Date : 26-Nov-2019

Pay :

	Particulars of Payment	Amount
Prepared by	Head of Account ✓ M/s.City Electricals	2,13,934.00 ✓
Checked by	Towards :- ✓ Being the electrical works for class rooms and general maintenance at Dhyan Building, Tds-218300*1%, KBOWWB-218300*1% paid to City Electricals, vide Treasury (PSTSB) Ch.No. 5285026 ✓	₹ 2,13,934.00 ✓

Received Rupees : Two Lakh Thirteen Thousand Nine Hundred Thirty Four Only.

Passed by :

Authorised by :

Signature of Receiptant

26/11/19

Journal Voucher


No. : 691

Dated : 26-Nov-2019

Particulars		Debit	Credit
Adm-Repair & Maint. - Electrical	<i>Dr</i>	2,18,300.00	✓
To Tax Deducted at Source (Tds Payable)			2,183.00 ✓
To Kerala Building & Other Const. Workers Welfare Board			2,183.00 ✓
To M/s. City Electricals			2,13,934.00 ✓
		₹ 2,18,300.00	₹ 2,18,300.00 ✓

On Account of :

Being the electrical works for class rooms and general maintenance at Dhyan Building, Tds-218300*1%, KBOWWB-218300*1% paid to City Electricals ✓


 Authorised Signatory

CITY ELECTRICALS

INVOICE NUMBER : B2B00090

Name of work: **Electrical works for class rooms and General Maintenance at Nish Campus** **GSTIN: 32AYDPA2250M1ZV**
 Work Order Number: **NISH180805/Electrical Works Dated 2 /09/2019**

Sl. No As per Agreement	Qty as per Agreement	Rate As per Agreement	Amount as per Agreement	Description	Unit	Executed Qty	Amount for Executed Qty
11.06				Supply and installation of 18 w to 20 W recessed type surface mounting 1x1 LED luminaire white powder coated CRCA Housing LEDs Seamless front cover frame with flat white high transmission acrylic cover. Replace the existing CFL Light Fitting on ceiling, giving connections, making good the damages colour washing etc as required . Make Philips Model: SM200C LED 16S 65400			
11.06	100	1850	185000	Supply&Installation	Nos	100	185000
Total Amount Rs							185000 ✓
TOTAL TAXABLE VALUE							185000.0
CGST @9%							16650.0 ✓
SGST @9%							16650.0 ✓
TOTAL GST VALUE							33300.0 ✓
GRAND TOTAL INCLUDING GST							218300.00 ✓
Two lakhs Eighteen Thousand Three Hundred Only							

Verified. All the above light fittings are working properly.
 Bill Amount Rs 2,18,300/- may be released.



[Handwritten signature]
 12/09