

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

**ERODE - 638 107** 

## 1.Solar Energy

A significant proportion of the power requirement of the institution is supported by the power generated through solar power cell. The institution has nonpolluting Solar cell being set up on Main block and BCA block. The Solar cell is capable of producing around 40kwhand 50 kWh of power through its resources.

		Total Electric Power		% of Power		
S.No.	Year	Power	generated	generated		
S.NO.	real	Consumed	through Solar	through Solar		
		(kWh)	Cell (kWh)	Cell		
1	2021-22	427506	65630	15.35		

# AND STREET INC.

## **KONGU ARTS AND SCIENCE COLLEGE**

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## 2. Biogas Plant

The biogas produced from food waste, decomposable organic material and kitchen waste consisting of methane and a little amount of carbon dioxide is an alternative fuel for cooking gas.

Also the waste materials can be disposed off efficiently without any odor or flies and digested slurry from bio-gas plant can be used as organic manure in the garden.

#### 2021-2022

S.No.	Month / Days in No.	Feed in Kg	Usage hours	Gas generated in Kg.	Average amount of Gas generated in Lit.				
1	June								
2	July		COVID-19 LOCKDOWN						
3	August								
4	15-Sep	1950	75	225	78000				
5	31-Oct	4650	155	496	186000				
6	November		COV	ID-19 LOCKI	OOWN				
7	December		COV	ID-19 LOCKI					
8	15-Jan	1800	75	225	72000				
9	28-Feb	4760	196	476	190400				
10	15-Mar	2250	75	225	90000				
11	30-Apr	4800	180	480	192000				
12	31-May	5270	217	527	210800				



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## 3. Sensor-based Energy Conservation-Solar Street Lights

The institution has the facility for sensor-based energy conservation using Solar Street Lights for night time light source. The sensor detects the timing and operates accordingly to switch on and off. The following are the facilities related to the sensor facility in the campus.

S.No	Name of the Facility	Numbers Available
2	Solar LED Street Lights	24



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# **Bills for Sensor Based Solar Lights**

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CONTRACTOR CONTRACTOR							3936446	8173
		0.00114	70 0000	alco cy cat		Contract of	1027540	
Mires, & Suppliers of all kind	ERY NO				NAC CIGAA			
ITo:	-311 1VW	1	ice No:	22	24	Date:	30.0	3.2022
KONGU ARTS AND SCIENCE COLLEGE, NANJANAPURAM,		POI		7867/KVITT(	KASC)/ELM/	Date:		3 2022
ERODE DIST.		Pili	10.	21-	-22	Date	163	9,2022
		DCI	lo:			Date:		San P
Description of Goods/ Materials	HSN No	Qty	Unit	Rate/Unit	Taxable Value	GST %	Tax Amount	Amount (IN
SOLAR LED STREET LIGHT AT MAIN GATE AND LA	DIES HOSTEL	OF KAS	C					
24W LED SOLAR STREET LIGHT (MAIN GATE NEAR	85414011	1	NOS	21160.71	21160.71	12%	2539.29	23,700.0
KVB ATM) With Single Lighting Arm with LifePO4 12.8V	1				- 1			
within built BMS capacity Battery WithSolar Panel 12V/150Wpal	y crystalline					1		
with Dusk To Dawn operation.				12.00				
(Full Brightness Working In Full Night)		127						
24W LED SOLAR STREET LIGHT (LADIES HOSTEL)	85414011	1	NOS	22232.14	22232.14	12%	2667.86	24,900.0
With Single Lighting Arm with LifePO4 12.8V								
within built BMS capacity Battery WithSolar Panel 12V/150Wpol	y crystalline	1						Sept.
with Dusk To Down operation.	. 1	1	1 1 2			1	Aller and	1.5
Note: using 2x15mtrs 4sq.mm Lapp German cable (special case (Full Brightness Working In Full Night)	due to site conditi	on)						1
(Full brightness Working in Full Night)	1000		1 5	100				1000
		1				100		1000
	1 3 1 2 3		1	1 39				
	2 423/2		19		2.00	-	1 11	
Warranty:  Five years for LifePO4 Battery and One year for Ele-	tranics Circuit	1	11 - 1	100	1 300	1	12	
Pive years for there's battery and one year for the	I	1				1		
			1					
	1 . 5 . 5 . 5						1 7 7	
ees In Words :		1_	1	Sub Total	43392.8	6	5207/1	48600
RUPEES FORTY EIGHT THOUSAND SIX HUNDRED ONL	Υ			Rounded			-	1 100110
				Grand To	tal	1.44	1	48600
k Details:			Taxable \	/alue				7.1
ME : AGNI SOLAAR SYSTEMS			Toxable	%	CGST	1 %	SGST	Tata! Ta
K : CITY UNION BANK -NCE CO			Value 21160.7:	6.009	1,269.6	4 6.005	% 1,269.6	
OUNT NO : 2103 GART ORES 500								
NCH: Malumichampatti (452)		or. I	L.RA	MAN	-	1	-	-
CODE: CIUBO000452 FRODE		- 13	ZI 160-20	OUS)	LEGE	64	1259.6	54 253
Prepared By 628 107	KONGUA	ARTS	WOND WITH	ous)/S	OLAAA	Kor		AAR SYSTE
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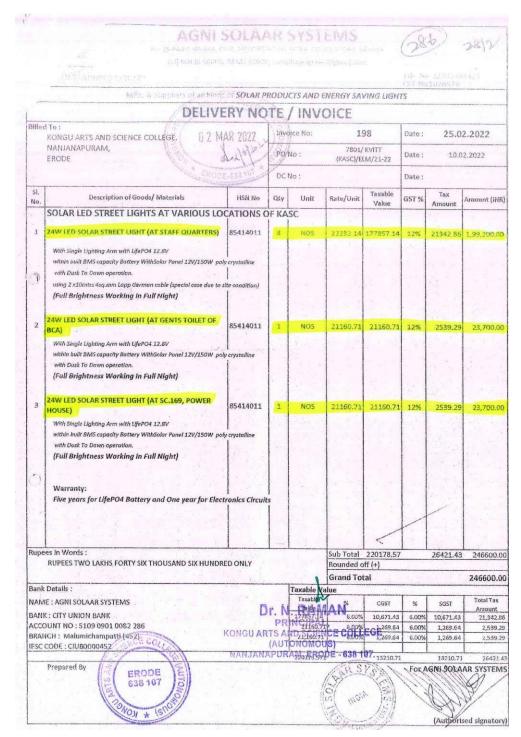
# **ERODE - 638 107**

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150	COTO DE AMONGO CONTRA PARTICIONAL PERO	SOLAR PR	ODUC	TS AND EN	ERGY SAVI	NG LIGHT			
	Mita, & Suphilias of all kinds			-					
ed T	A	W. L.	The same	ce No:	16	9	Date:	19.01	.2022
т	HE KONGU VELLALAR INSTITUTE OF TECHNOLOGY ONGU ENGINEERING COLLEGE CAMPUS, KEC NAG	TRUST AR	PO N		7738 / (KASC)ELM.		Date:	24.12	2,2021
E	RODE DIST.		DCN	lo :	lio in chemical		Date:		
	Description of Goods/ Materials	HSN No	Qty	Unit	Rate/Unit	Taxable Value	GST %	Tax Amount	Amount (INR
0.	TO THE CTABLES	85414011	12	NOS	21160.71	253928.57	7 12%	30471.43	2,84,400.00
16 1	24W LED SOLAR STREET LIGHT (AT BUS STAND) With Single Lighting Arm with LifePO4 12.8V								
	within built BMS capacity Battery WithSolar Panel 12V/150W pol	y crystalline			-1				
	with Dusk To Dawn operation. (Full Brightness Working In Full Night)	- 11							
}		85414011	1	NOS	21160.71	21160.7	1 12%	2539.29	23,700.0
26	24W LED SOLAR STREET LIGHT (AT POWER HOUSE) With Single Lighting Arm with UlfePO4 12.8V					21			Line and
	within built BMS capacity Battery WithSolar Panel 12V/150W pa	ly crystalline							72.0
	with Dusk To Dawn operation. (Full Brightness Working In Full Night)		7 111		100				
		00 47 4017	1	SET	35267.86	35267.8	36 12%	4232.14	39,500.0
3	24W LED SOLAR STREET LIGHT (AT BOYS HOSTEL) ZNOS (1 POLE - DOUBLE LIGHT ARM)	85414011	(2NO:	1		11-11			Edging 1
	With Single Lighting Arm with LifePO4 12.8V	1	1	The state of					
0	within built BMS capacity Battery WithSolor Panel 12V/150W-2	Nos poly crystalii	ne						
	with Dusk To Dawn operation.  (Full Brightness Working In Full Night)								
						3.5	and the same	1	
	Warranty: Five years for LifePO4 Battery and One year for Ele	ectronics Circu	its						1 1 34
	Five years for Egel of Care					111		1	
	Delivery: Kongu Arts and Science College, Nanjanapurar	m							
	Kongu Arts and Science Conege, Wanjanapara		سان	1	6 1 T.1	310357	114	37242.	86 34760
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	ME : AGNI SOLAAR SYSTEMS		1	Taxable Value	/6	CGS			71 30,47
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AC	COUNT NO: 5109 0901 0082 286	Dr. P	4. F	35.267	86 6.	00% 2,11		00% 2,116	The second secon
BRA	ANCH: Malumichampatti (452) C CODE: CIUB0000452	P				196	21.43	1862:	1.43 377
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## 4.LED Lights

The College uses a maximum of LED bulbs and tubes for all its lighting needs inside the campus to conserve energy.

This is quite in visible in all recent renovation projects. The overall college campus is installed with LED Bulbs. It optimizes the energy consumption and saves the cost of maintenance.

A well designed hi-tech LED lighting system can provide safety and financial benefit for the institution. Apart from financial benefits, it provide go-green and eco-friendly environment.

The following are LED light facilities available in the institution:

S.No	Item	Total Nos
1	LED lights Installed	296



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	fight of an armed a of all touch	SOLAR	PRODU	CTS AND E	NERGY SAVI	NG LIGHT:			
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211		.141 145	1	-		1	-		
Street	KONGU ARTS AND SCIENCE COLLEGE,	E 34	Invo	ice No:	196	i	Date:	25.02	2.2022
	NANJANAPURAM	18	PON	lo:	7796 / K	Control of the Contro	Date:	10.0	2.2022
	ERODE ( 3 0 2 MAR 2022	181			(KASC)/ELN	1/23-22			
	2102 WALL 20 18	y / E /	DCN	lo:			Date:		
SI.	Description of Goods/ Materials	HSNNo	Qty	Unit	Rate/Unit	Taxable Value	GST %	Tax	Amount (INR)
No.	LED STREET LIGHTS AT VARIOUS LOCATION	S OF KASE				Value		Amount	
1	SUPPLY OF 24W Led Street Light	9405	5	NO5	870.54	4352.68	1.2%	522.32	4,875.00
	Fixing Arm	7306	5	NOS	432.20	2161.02	18%	388,98	2,550.00
	(EAST SIDE WALL - Inc., NORTH SIDE WALL - Bnos and						- 1		
	WEST SIDE WALL - Inc = TOTAL 5 NOS)	( ) ( ) ( )							
	(Rs. 975/- for light and Rs.510/- for Fixing Arm = Rs. 1485	/set, incl GS	1				9.2		
2	SUPPLY OF 24W Led Street Light	9405	1	NOS	870.54	870.54	12%	104.46	975.00
	(Ladius Hostel - Ino, NORTH WEST COMPOUND WALL)								
	(Rs. 975/- for light only, incl GST)	4.							
3	SUPPLY OF 24W Led Street Light	9405	5	NOS	870.54	4352.68	12%	522.32	4,875.0
3a	Fixing Arm	7306	5	NOS	432.20	2161.02		388.98	2,550.0
	FOR MAIN BLOCK (EAST NORTH-2Nos,								
	WEST NORTH 2 NOS AND WEST SOUTH - 1NO = TOTAL								
	(Rs. 975/- for light and Rs.510/- for Fixing Arm = Rs. 1485	s/set, incl GS			20				
4	SUPPLY OF 24W Led Street Light	9405	1	NOS	870.54	870.54	12%	104.46	975.0
4a		7306	1	NOS	432.20	432.20	18%	77.80	510.0
	BOYS HOSTEL - 1NO AT WEST WALL (NORTH SIDE)		1						
	(Rs. 975/- for light and Rs.510/- for Fixing Arm = Rs. 148	s/set, include	1)						
5	SUPPLY OF 24W Led Street Light	9405	3	NOS	870.54	2611.61	12%	313.39	2,925.0
5a	Fixing Arm	7306	3	NOS	432.20	1296.61	18%	233.39	1,530.0
	LOCATION 1, SCIENCE BLOCK - 3NOS IN EQUAL DIATAN		1	77.4				21 - 15 - 15	
	(Rs. 975/- for light and Rs.510/- for Fixing Arm = Rs. 148	l l	1	1 1		7	11.5		Na Pe
6	SUPPLY OF 24W Led Street Light	9405	1	NOS	870.54	870.54	12%	104.46	975.0
	LOCATION 1, SCIENCE BLOCK -1MO			4 4			1	Market 1	
	(Rs. 975/- for light only, incl GST)	1000	1			1	1.		
	Warranty:				1	7	2.19	2, 7	
	Two years for Electronics Circuits	4.00			100	100			
				<u> </u>	Cub Tabel	19979.4	1	2760.58	22740.
Ruj	pees in Words: RUPEES TWENTY TWO THOUSAND SEVEN HUNDRED (	AND FORTY	ONLY		Sub Total Rounded o			2160.36	22/40.
	NOTICE THE TITLE THE STATE OF T		11		Grand To				22740.0
Bar	ak Details :		1	Taxable V	1				
1	ME : AGNI SOLAAR SYSTEMS			Taxable Value	. %	CGST	%	SGST	Total Tax Amount
1	NK : CITY UNION BANK			4352.68	6,00%				522
AC	COUNT NO: 5109 0901 0082 286			2161.02	9.00%	-			
	ANCH: Malumichempatti (452)	100		4,352.68			-		
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(ORIGINAL)

"Constructing Confidence with Standards"

GSTIN: 33AAHFJ5902B1ZW

CELL: 81108 59955

#### WAI MAARUTHI ELECTRICALS AND HARDWARES

275-A OPP. ESSAR PETROL BUNK, VEPPAMPALAYAM PIRIVU, PERUNDURAI MAIN ROAD, ERODE-638 107.

CREDIT BILL

(ORIGINAL)

"Constructing Confidence with Standards"

GSTIN! 33AAHF 15902B1ZW CELL: 81108 59955

#### JAI MAARUTHI ELECTRICALS AND HARDWARES

275-A OPP. ESSAR PETROL BUNK, VEPPAMPALAYAM PIRIVU, PERUNDURAI MAIN ROAD, EPODE-638 107. CIENCREDIT BILL

To Kongu Arts And Scrence College NANJANAPURAM ERODE - 638017

0 9 JUL 2022

Payment Terms : Credit Bill No : G12541 Date

: 08-07-2022

3.No	Description	HSN Code DE 638	oi ety	Rate	GST %	Total Amt`
19	Philips - 20w Led Tube Only	85395000	100 Nos	225.90	12	25300.36
)						
			100.000			25300.3

Taxable Value CGST% AMT SGST& AMT NETS AMT 2710.76 22589.60 6.0 1355.38 1355.38 12.0 6.0

Rounded Off:

-0,36

Net Amount : 25300.00

Rupees Twenty Five Thousand Three Hundred Only

Bank Name: Karur Vysya Bank, Mettukadai Branch. A/c no: 1217135000000324 IFSC: KVBL0001217

For JAI MAARUTHI ELECTRICALS AND HARD

Authorised Signatory



Dr. N. RAMAN PRINCIPAL, KONGU ARTS AND SCIENCE COLLEGE

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