



# Sadakathullah Appa College

\*An Autonomous Institution, Re-Accredited by NAAC at an 'A' Grade, \* ISO 9001: 2015 Certified \*

## CRITERION VII

### INSTITUTIONAL VALUES AND BEST PRACTICES

#### 7.1.2

The Institution has facilities for alternate sources of energy and energy conservation measures

#### LED Bulbs / Power Efficient Equipment

*Submitted to*

THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC)

August 2022





# Sadakathullah Appa College

\*An Autonomous Institution, Re-Accredited by NAAC at an 'A' Grade, \* ISO 9001: 2015 Certified \*

## 7.1.2

### The Institution has facilities for alternate sources of energy and energy conservation measures

#### LED bulbs / power efficient equipment

Since electricity consumption forms the bulk of the running cost of light fixtures, an energy efficient option like LED bulbs have been installed to save energy consumption and save money in the long run. As such, the premises have LED lights, fulfilling 43% in terms of number and 21% in terms of power consumption.



## LED bulbs on College Premises

### 4.6 Lights

#### 4.6.1 Types of lights

There are a total of **1,402 Lights in the premises**; the following table shows the various types of lights in the premises.

S. No.	Type	Nos.
1	CFL	56
2	Halogen	27
3	LED	607
4	Low intensity incandescent	46
5	Mercury vapour lamp	1
6	Sodium vapour lamp	1
7	Non-LED	652
8	Solar lights	12
<b>Total</b>		<b>1,402</b>

Table 7: Summary of the types of Lights in premise

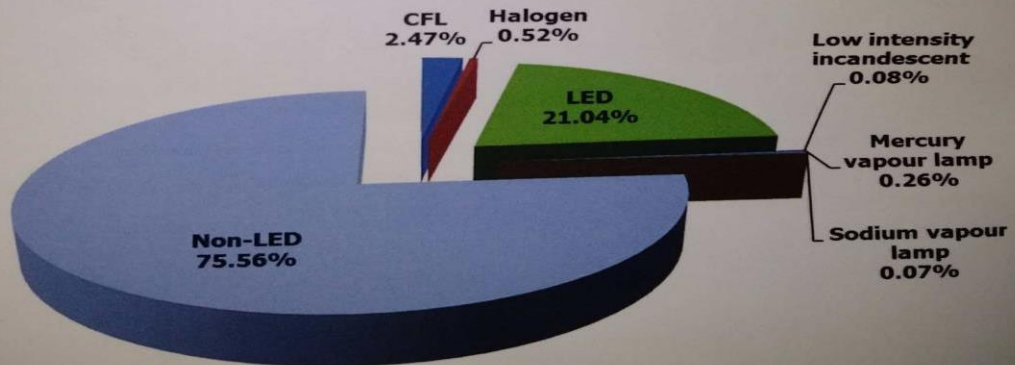
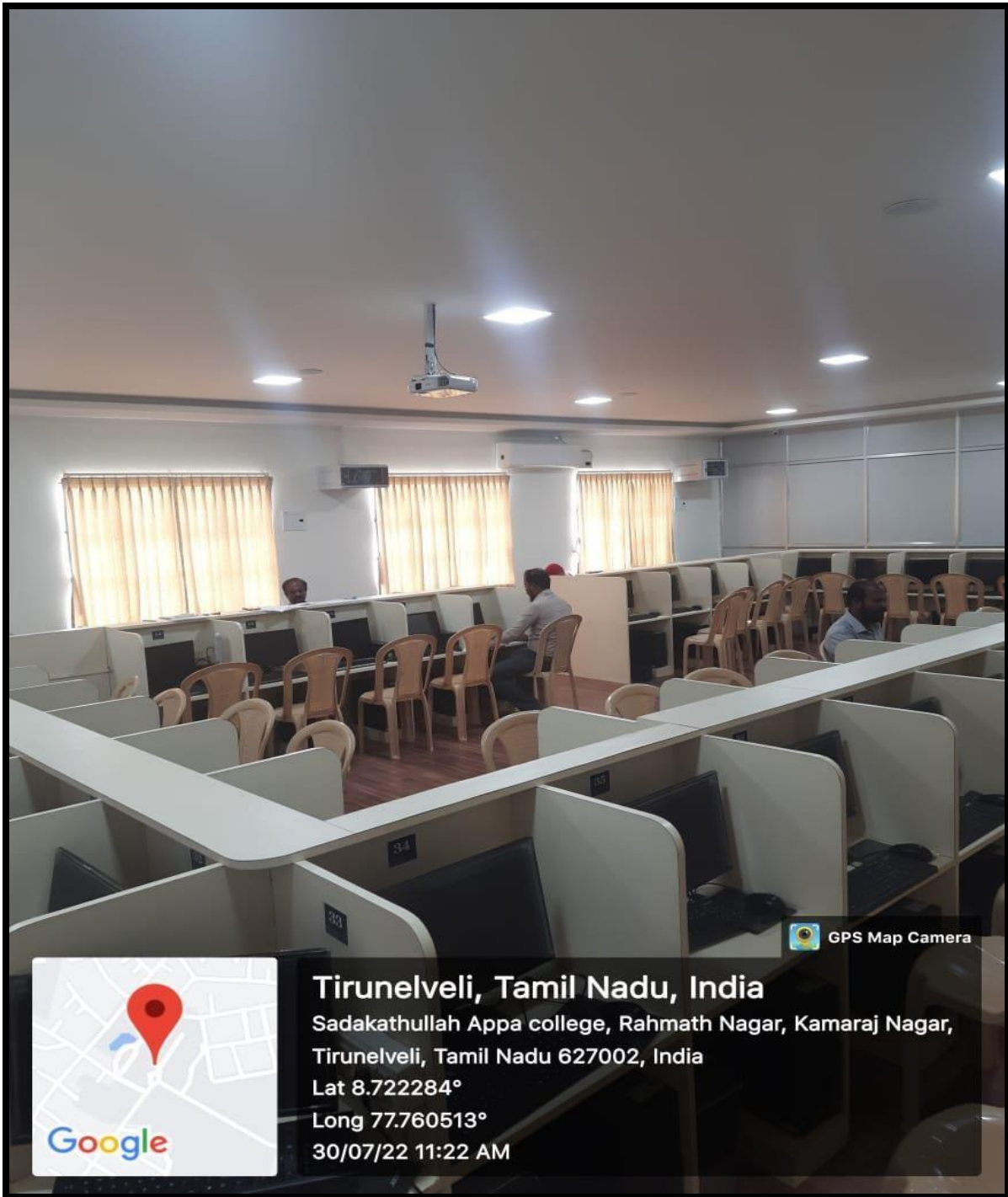


Figure 4: Energy consumed by Types of Lights in the premise based on the usage study

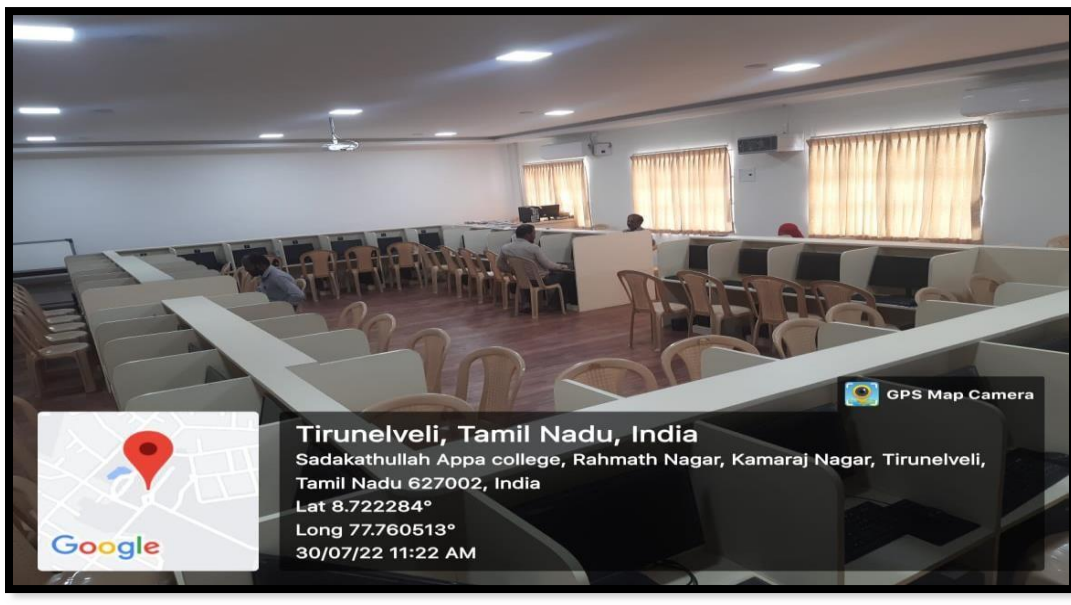
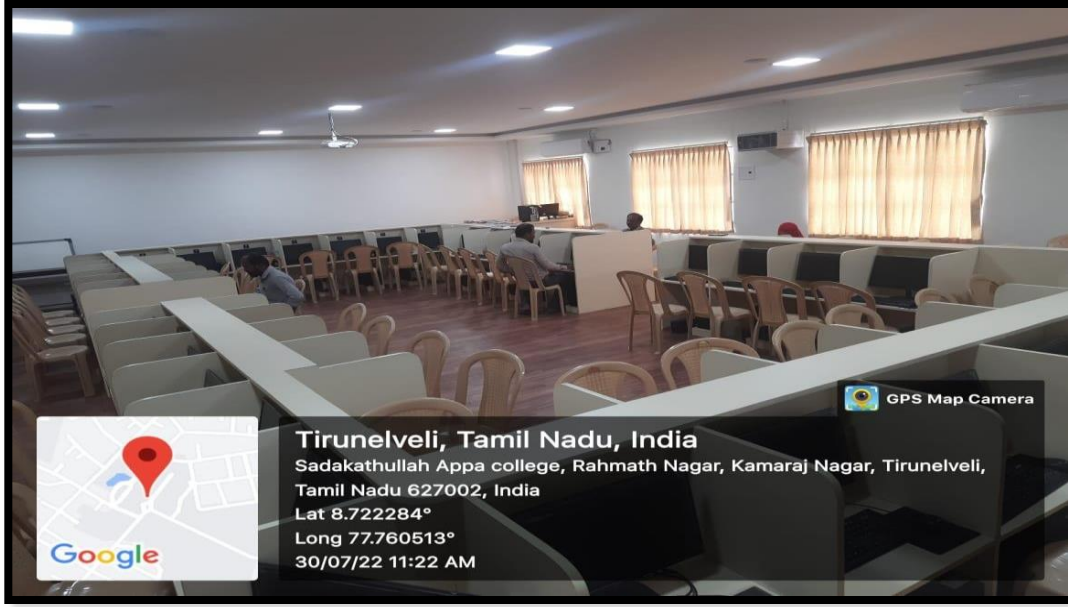
## LED bulbs on College Premises



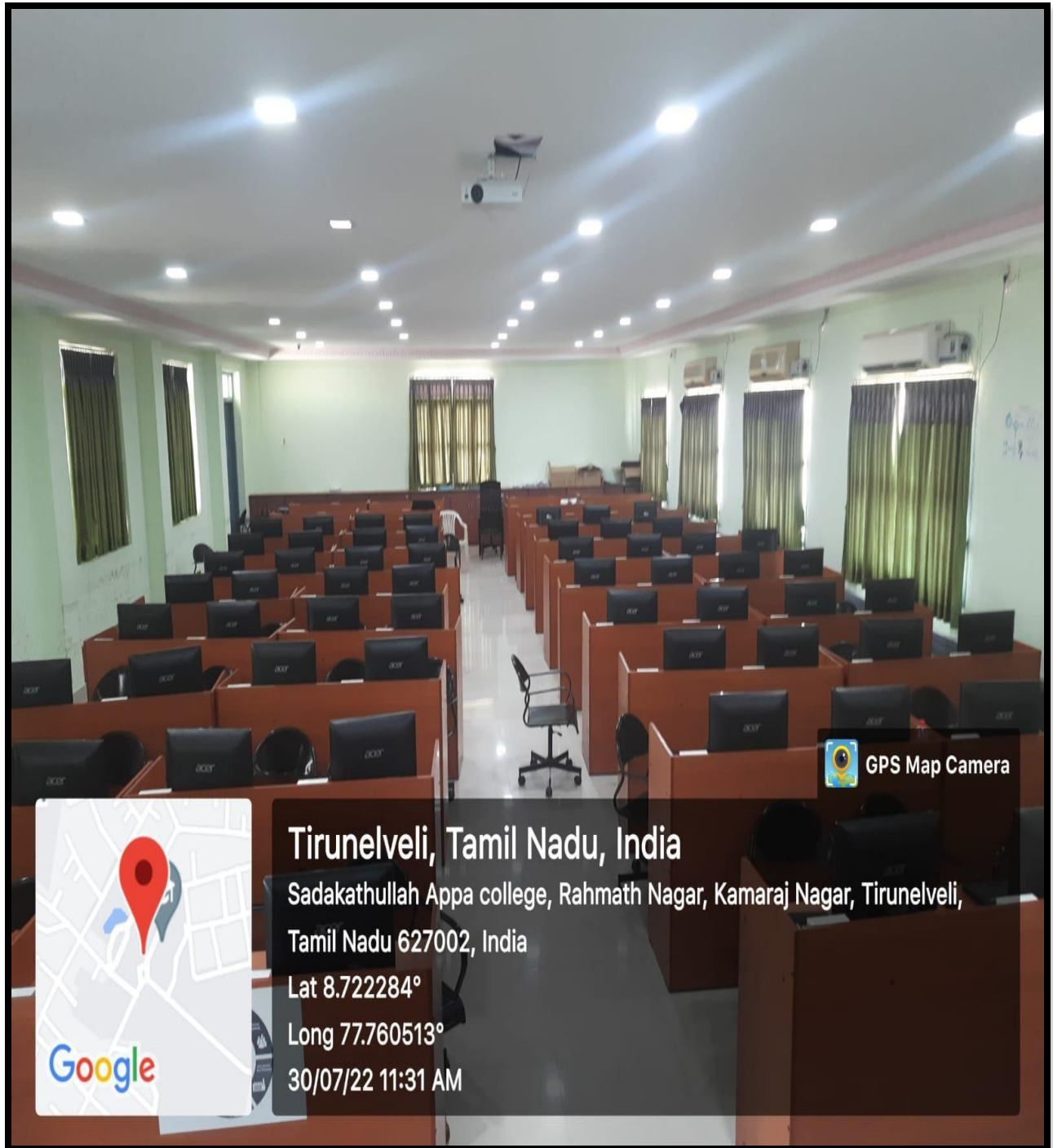



## LED bulbs in the Language Lab

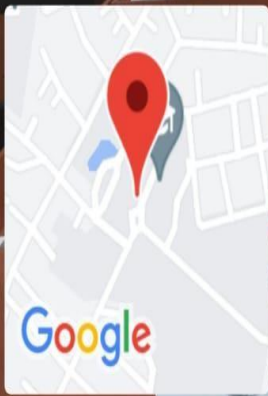




## LED bulbs in the Computer Science Laboratory



 GPS Map Camera



**Tirunelveli, Tamil Nadu, India**

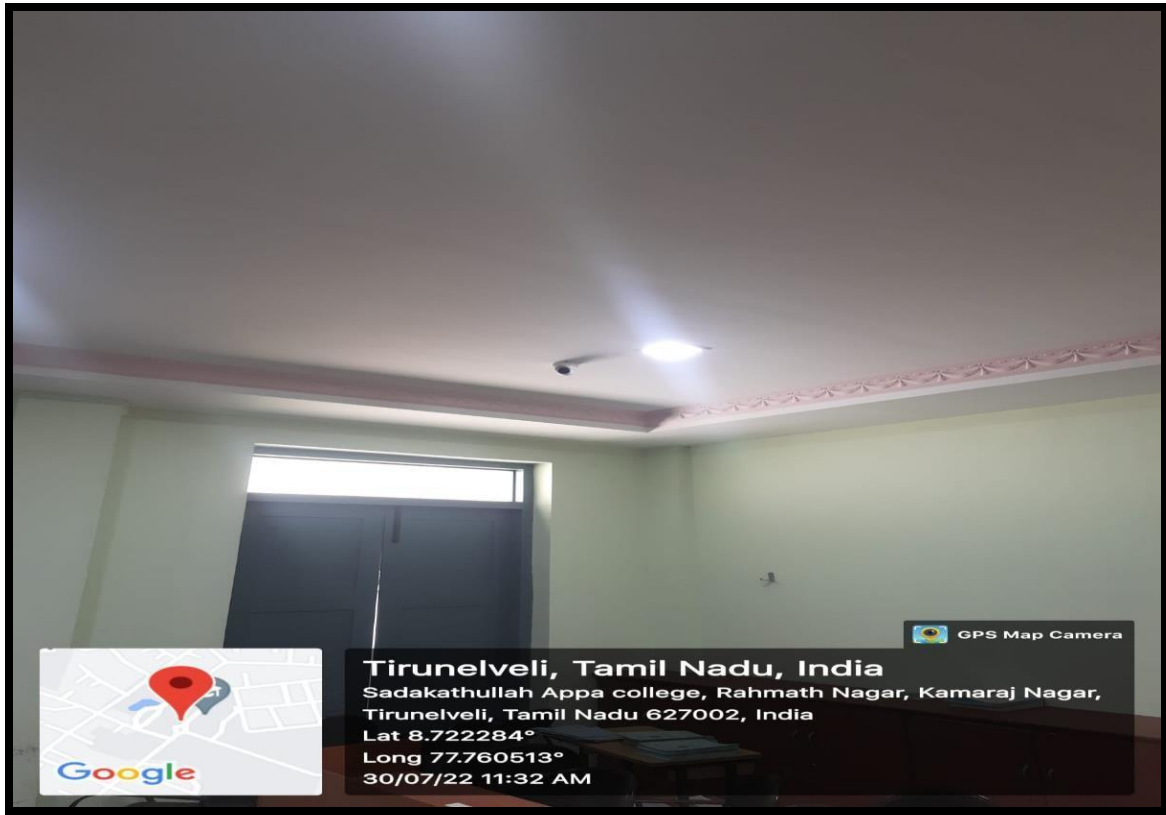
Sadakathullah Appa college, Rahmath Nagar, Kamaraj Nagar, Tirunelveli,  
Tamil Nadu 627002, India

Lat 8.722284°

Long 77.760513°

30/07/22 11:31 AM

## LED bulbs in the Seminar Hall





GST INVOICE

**RAJESH PIPES**  
 No. 72-B, Thiruvandur Road,  
 Palayamkottai Tirunelveli - 627 002  
 GSTIN/UIN: 33AQEPG7731Q1Z1  
 State Name: Tamil Nadu, Code: 33  
 CIN: 33AQEPG7731Q1Z1  
 Contact: 0462-2685813, 9366664000

Buyer  
**SADAKATHULLAH APPA COLLEGE**  
 State Name: Tamil Nadu, Code: 33

Invoice No. <b>R P/330/19-20</b>	Dated <b>13-May-2019</b>
Delivery Note	Mode/Terms of Payment
Supplier's Ref. <b>330</b>	Other Reference(s)
Buyer's Order No.	Dated
Despatch Document No.	Delivery Note Date
Despatched through	Destination
Terms of Delivery	

Description of Goods	HSN/SAC	Quantity	Rate	per	Disc. %	Amount
1 PHILIPS LED 12W BULB	85395000	20 Nos	196.43	Nos		3,928.60
2 SUMO-XTREME 136@190 Ele Choke	85041010	10 Pcs	110.17	Pcs		1,101.70
3 LIFE MAX PLUS 36W@55	8539	20 Pcs	38.14	Pcs		762.80
4 1.5SQ FLEX WIRE CABLE	8544	1.00 Coil	889.83	Coil		889.83
5 Tape Role	8546	5 Nos	8.47	Nos		42.35
6 POLO 16M GANG BOX	8538	1 Nos	211.86	Nos		211.86
7 HI-FI 6A SWITCH	8536	10 Pcs	13.56	Pcs		135.60
8 2M STEP REGULATOR	8536	3 Nos	169.49	Nos		508.47
						7,581.21
						564.44
						564.44
						(-)0.09
						8,710.00
Total						₹ 8,710.00

Less: CCST  
 SGST  
 ROUND OFF

*TAK*  
*[Signature]*  
*19/5/19*

*[Signature]*  
*20/5/19*

Amount Chargeable (in words)  
**INR Eight Thousand Seven Hundred Ten Only**

Company's PAN : **AQEPG7731Q**

Company's Bank Details  
 Bank Name: **BOB - 39210200000024**  
 A/c No.: **39210200000024**  
 Branch & IFS Code: **Palayamkottai - RAJESH PIPES**

Declaration  
 We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.



SUBJECT TO TIRUNELVELI JURISDICTION  
 This is a Computer Generated Invoice

GST INVOICE

RAJESH PIPES  
 2, B. Thiruchendur Road,  
 Palayamkottai, Tirunelveli - 627 002  
 TIN/JIN 33AQEPG7731Q1Z1  
 State Name Tamil Nadu, Code 33  
 TIN 33AQEPG7731Q1Z1  
 Contact 0482-2585813, 9366664000

Buyer  
 SADAKATHULLAH APPA COLLEGE  
 State Name : Tamil Nadu, Code : 33

Invoice No.	Dated
R P/2139/19-20	17-Jan-2020
Delivery Note	Mode/Terms of Payment
Supplier's Ref	Other Reference(s)
2139	
Buyer's Order No	Dated
Despatch Document No.	Delivery Note Date
Despatched through	Destination
Terms of Delivery	

Description of Goods	HSN/SAC	Quantity	Rate	per	Disc %	Amount
12V-8W TO 24W DRIVER Led	9405	20 Pcs	223.21	Pcs		4,464.20
Waste Coupling Medium fit	741890	5 Pcs	211.86	Pcs		1,059.30
CORVI LED TUBE NEW 20W 5K	9405	10 Pcs	290.18	Pcs		2,901.80
PI STEEL GRIP TAPE 8M(YEL)	8546	5 Nos	8.47	Nos		42.35
20W LED STREET LIGHT	9405	2 Pcs	1,116.07	Pcs		2,232.14
						10,699.79
						CGST
						SGST
						ROUND OFF
						675.04
						675.04
						0.13
						₹ 12,050.00

*Led driver  
 half with room bulk  
 + street light*

Amount Chargeable (in words)  
 INR Twelve Thousand Fifty Only

HSN/SAC	Taxable Value	Central Tax		State Tax		Total Tax Amount
		Rate	Amount	Rate	Amount	
9405	9,598.14	6%	575.89	6%	575.89	1,151.78
741890	1,059.30	9%	95.34	9%	95.34	190.68
8546	42.35	9%	3.81	9%	3.81	7.62
	Total		675.04		675.04	1,350.68

Tax Amount (in words) INR One Thousand Three Hundred Fifty and Eight paise Only

Company's PAN : AQEPG7731Q  
 Company's Bank Details  
 Bank Name: BOB - 39210200000024  
 A/c No. 39210200000024  
 Branch & IFSC Code Palayamkottai & BARBOPALTIR

Declaration  
 We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

SUBJECT TO TIRUNELVELI JURISDICTION  
 This is a Computer Generated Invoice



**RESH PIPES**  
 B Thiruchendur Road,  
 Palayamkottai, Tirunelveli - 627 002  
 PIN 627002 33AQEPG/731Q1Z1  
 State Name Tamil Nadu, Code 33  
 GSTIN 33AQEPG7731Q1Z1  
 Telephone 0462-2585813, 9366664000

Buyer  
**SADAKATHULLAH APPA COLLEGE**  
 State Name : Tamil Nadu, Code : 33

Invoice No	Dated
R P/1213/19-20	7-Sep-2019
Delivery Note	Mode/Terms of Payment
Supplier's Ref	Other Reference(s)
1213	
Buyer's Order No	Dated
Despatch Document No	Delivery Note Date
Despatched through	Destination
Terms of Delivery	

Description of Goods	HSN/SAC	Quantity	Rate	per	Disc. %	Amount	
1 10W LED BATTEN ECOLINK PC	9405	1 Nos	267.86	Nos		267.86	
	CGST					16.07	
	SGST					16.07	
Total						1 Nos	₹ 300.00

Amount chargeable (in words) **INR Three Hundred Only**

HSN/SAC	Taxable Value	Central Tax		State Tax		Total Tax Amount
		Rate	Amount	Rate	Amount	
9405	267.86	6%	16.07	6%	16.07	32.14
Total			16.07		16.07	32.14

Tax Amount (in words) **INR Thirty Two and Fourteen paise Only**

Company's PAN **AQEPG7731Q**

Company's Bank Details  
 Bank Name **BOB - 39210200000024**  
 A/c No **39210200000024**  
 Branch & IFS Code **Palayamkottai & BARBOPALTIR**  
 for RANESH PIPES

Destination  
 We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct

SUBJECT TO TIRUNELVELI JURISDICTION  
 This is a Computer Generated Invoice



300  
 5800



GST INVOICE

**RAJESH PIPES**  
 No 72-B, Thirunelveli Road,  
 Palayamkottai, Tirunelveli - 627 002  
 GSTIN/UIN: 33AQEPG7731Q121  
 State Name: Tamil Nadu, Code: 33  
 CIN: 33AQEPG7731Q121  
 Contact: 0462-255513, 9865094000

Buyer  
**SADAKATHULLAH APPA COLLEGE**  
 State Name: Tamil Nadu, Code: 33

Invoice No <b>R P/626/19-20</b>	Dated <b>22-Jun-2019</b>
Delivery Note	Mode/Terms of Payment
Supplier's Ref <b>626</b>	Other Reference(s)
Buyer's Order No.	Dated
Despatch Document No.	Delivery Note Date
Despatched through	Destination
Terms of Delivery	

Description of Goods	HSN/SAC	Quantity	Rate	per	Disc %	Amount	
1 200W TRESSA LED FLOOD LIGHT	9405	1 Nos	6,250.00	Nos		6,250.00	
2 Eye 30w Led Bulb	8539	1 Nos	580.36	Nos		580.36	
3 24w Stella Led Fittings	9405	5 Nos	1,205.36	Nos		6,026.80	
4 FAN PUSH	3917	3 Nos	33.90	Nos		101.70	
						12,958.86	
	CGST					780.58	
	SGST					780.58	
Less: ROUND OFF						(-10.02)	
<b>Total</b>						<b>10 Nos</b>	<b>₹ 14,520.00</b>

Amount Chargeable (in words)

**INR Fourteen Thousand Five Hundred Twenty Only**

E & O E

HSN/SAC	Taxable Value	Central Tax		State Tax		Total Tax Amount
		Rate	Amount	Rate	Amount	
9405	12,276.80	6%	736.61	6%	736.61	1,473.22
8539	580.36	6%	34.82	6%	34.82	69.64
3917	101.70	9%	9.15	9%	9.15	18.30
<b>Total</b>	<b>12,958.86</b>		<b>780.58</b>		<b>780.58</b>	<b>1,561.16</b>

Tax Amount (in words) : **INR One Thousand Five Hundred Sixty One and Sixteen paise Only**

Company's Bank Details  
 Bank Name: **BOB - 39210200000024**  
 A/c No. : **39210200000024**  
 Branch & IFS Code: **Palayamkottai & BARBORA TIR**

Company's PAN : **AQEPG7731Q**

Declaration

We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

SUBJECT TO TIRUNELVELI JURISDICTION

This is a Computer Generated Invoice





GST INVOICE

**RAJESH PIPES**  
 NO. 22-9, THIRUNELVELLI ROAD,  
 PALAYAMKOTTAI, TAMILNADU - 627 002  
 PIN - 627 002  
 GST INVOICE NO. AQEPG7731Q121  
 STATE NAME - TAMIL NADU, CODE - 33  
 C/PIN - 627 002  
 Contact: 0462-2388813, 9388884000

Buyer:  
**SADAKATHULLAH APPA COLLEGE**  
 State Name: Tamil Nadu, Code: 33

Invoice No. <b>R P/1507/19-20</b>	Dated <b>15-Oct-2019</b>
Delivery Note	Mode/Terms of Payment
Supplier's Ref. <b>1507</b>	Other Reference(s)
Buyer's Order No.	Dated
Despatch Document No.	Delivery Note Date
Despatched through	Destination
Terms of Delivery	

Description of Goods	HSN/SAC	Quantity	Rate	per	Disc %	Amount
1 6.0sq mm Wire Vir (7/18)	85446020	25.00 Mtr	50.85	Mtr		1,271.25
2 COPPER LEG 16SQ MM	8536	5 Nos	16.95	Nos		84.75
3 Tape Role	8546	2 Nos	8.47	Nos		16.94
4 PHILIPS LED 12W BULB	85395000	10 Nos	196.43	Nos		1,964.30
						3,337.24
						241.42
						241.42
						(-0.08)
Total						₹ 3,820.00

Less: CGST  
 SGST  
 ROUND OFF

*Handwritten signature*  
 22/10/19

*Handwritten signature*  
 20/10/19

Amount Chargeable (in words)  
**INR Three Thousand Eight Hundred Twenty Only**

HSN/SAC	Taxable Value	Central Tax		State Tax		Total Tax Amount
		Rate	Amount	Rate	Amount	
85446020	1,271.25	9%	114.41	9%	114.41	228.82
8536	84.75	9%	7.63	9%	7.63	15.26
8546	16.94	9%	1.52	9%	1.52	3.04
85395000	1,964.30	6%	117.86	6%	117.86	235.72
<b>Total</b>	<b>3,337.24</b>		<b>241.42</b>		<b>241.42</b>	<b>482.84</b>

Tax Amount (in words): **INR Four Hundred Eighty Two and Eighty Four paise Only**

Company's PAN : **AQEPG7731Q**  
 Company's Bank Details  
 Bank Name: **BOB - 39210200000024**  
 A/c No. : **39210200000024**  
 Branch & IFS Code: **Palayamkottai & BARBOPALTIR**

Declaration  
 We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

SUBJECT TO TIRUNELVELLI JURISDICTION  
 This is a Computer Generated Invoice.



*Handwritten calculations:*  
 3820  
 241.42  
 3578.58  
 669.58  
 Total Rs. 6695/-

1/2

## LED Bulbs in the Auditorium

