

**V.S.M. COLLEGE (AUTONOMOUS)**  
**RAMACHANDRAPURAM**  
**NAAC Re-accredited with 'B' Grade at 2.69 CGPA**  
**(Affiliated to Adikavi Nannaya University, Rajamahendravaram)**



**6.1.2 PURCHASE COMMITTEE REPORT**

**V.S.M. COLLEGE(A)::RAMACHANDRAPURAM – 533 255  
EAST GODAVARI DISTRICT**

\*\*\*

Date: 11.03.2020

**CIRCULAR**

The Purchase Committee Meeting will be held in Principal Chamber on 13.03.2020 i.e. Friday at 3.45pm. All the members are requested to attend the meeting without fail to discuss the following agenda.

**Agenda:**

1. Physics Lab equipment required for PG courses.
2. Comparative statement analysis
3. Any other matter with the permission of the chair.

  
PRINCIPAL

**Copy to:**

- 1) President & Correspondent
- 2) Director
- 3) Circulation among Committee members
- 4) Office File

**PRINCIPAL, V.S.M. COLLEGE (A)  
RAMACHANDRAPURAM-533 255, (E.G.DtA)**



# VSM COLLEGE

(AUTONOMOUS)



Re-accredited by NAAC, Recognised under 2(f) & 12(b) of UGC, Certified by ISO 9001:2015  
(Affiliated to Adikavi Nannaya University, Rajamahendravaram)

Cell: 9866522999 www.vsmcollege.org ✉ vsmcollege66@gmail.com ✉ principal\_degree@vsm.edu.in

**N.S.V. Kiran Kumar**  
M.sc., M.Phil., B.Ed.  
Principal (FAC)

**RAMACHANDRAPURAM**  
Date: 13.03.2020, E.G.Dt. (A.P.)

## Minutes of Meeting

The Purchase Committee meeting was conducted on 13.03.2020 at 3.45pm in Principal's Chamber and following are the minutes of the meeting.

1. Discussion is held to purchase Physics Lab Equipment for M.Sc. Physics Programme as per curriculum.



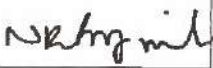



S.No	Department	Equipment Name	Quantity
1	Physics	Lattice Dynamics: Study of Phonon Dispersion characteristics.	1
2	Physics	Coupled Oscillators Study of the normal modes of vibrations of coupled pendulum, strength Supplied: coupled Oscillator set up, springs, weights, stop watch	1
3	Physics	Encoder and decoder kit	1
4	Physics	Multiplexer and De multiplexer - 1 No.	1
5	Physics	Decade Counter (IC 7490) – 1 No	1
6	Physics	Amplitude modulation – and de-modulation	1
7	Physics	Frequency modulation and detection – 1no.	1
8	Physics	Butterworth first order low pass and high pass filters	1
9	Physics	Phase locked loop (pll)	1
10	Physics	Generation of pwm, and ppm usingpll and 555 timer	1
11	Physics	Fsk modulation and demodulation kit	1
12	Physics	Measurement of numerical aperture and bending loss with cable	1

2. The comparative statement of various quotations was discussed and analysed on the basis of price, quality and service feedback.

### RECOMMENDATION

It is recommended to issue Purchase Order to the Electronics Systems and Services, Visakahapatnam, on consideration of quotations, quality assurance and service with the other vendors.

#### Members attended the meeting:

S.No.	Name	Dept. & Designation	Role	Signature
1.	Sri N.S.V.Kiran Kumar	Principal	Ex-officio	
2.	Dr. K. Srinivas Rao	Physics – HOD	Co-ordinator	
3.	Dr. N. Baby Nirmala	Chemistry – HOD	Member	
4.	Dr. V. Kanchanamala	Hindi – HOD	Member	
5.	Sri S.N. Ali Ansari	CS – HOD	Member	
6.	Dr. B. Bhavani	English – HOD	Member	
7.	Sri V. Satish Kumar	Office Senior Assistant	Member	

  
Co-ordinator

  
Principal

PRINCIPAL, V.S.M. COLLEGE (A)  
RAMACHANDRAPURAM-533 255, (E.G.Dt.)

Cell: 9160582129

# Sunrise instek

No: 102 ,Sai Nivas Residency , Shipyard Layout  
Vepagunta Road ,Visakhapatnam -530051  
email: sunriseinstek@gmail.com [www.sunriseinstek.com](http://www.sunriseinstek.com)

REF: VSM/20

DATE: 3-3-2020

## QUOTATION

To

**THEPRINCIPAL / PHYSICS DEPT  
VSM COLLEGE  
RAMACHANDRAPURAM**

1	ESR Studies – DPPH - Determination of $g$ value of an electron. Make: Scientific instruments	1	45,000.00
2	Lattice Dynamics: Study of Phonon Dispersion characteristics. –	1	35,000.00
3	Coupled Oscillators coupled Oscillator set up	1	10,000.00
4	ENCODER AND DECODER KIT 8X3 ,3X8	1	5400.00
5	Multiplexer and De multiplexer - 1 No.	1	4000.00
6	Decade Counter (IC 7490) – 1 No	1	3000.00
7	Amplitude modulation – and de-modualtion	1	5400.00
8	Frequency modulation and detection – 1no.	1	5400.00
9	Butterworth first order lowpass and highpass filters	1	4000.00
10	Ohase locked loop (pll)	1	3800.00
11	Generation of pwm, and ppm usingpll and 555 timer	1	4800.00
12	Study of fsk transmission and reception	1	7000.00
12	Measurement of speed of light in optical		-
13	8085 MICROPROCESSOR TRAINER KIT WITH POWER SUPPLY MAKE;ESA	1	7800.00

1. GST: 18% EXTRA
2. DELIAVRY: 2-4 WEEKS
3. PAYMENT : 100% ALONG WITH PO COPY

4. WARRENTY: ONE YEAR
5. P7F:2% EXTRA

**FOR SUNRISE INSTEK**

GSTIN: 37AHXPK5402G1Z3

Estd:1998

# ELECTRONICS SYSTEMS & SERVICES

D.No. 19-101/2 Deendayapuram , Mudasarlova Road Beside durga temple ,  
Visakhapatnam – 530040 ,. Email : ess\_vsp@yahoo.co.in Cell :9849243879

Ref: ESS/ATM/VSP/ 20/12

DATE: 3/3/2020

## QUOTATION

TO  
THE HOD -PHYSICS  
VS M COLLEGE  
RAMACHANDRAPURAM.  
E.G.DIST

SUB: QUOTATION M.sc PHYSICS LAB EQUIPMENTS –REG

S.No	DESCRIPTION	Qty	Each one
	<b><u>Solid State Physics Lab-III</u></b>		
1	ESR Studies – DPPH - Determination of $g'$ value of an electron. Make: Scientific instruments	1	37,000.00
2	Lattice Dynamics: Study of Phonon Dispersion characteristics. –	1	32,500.00
3	Coupled Oscillators Study of the normal modes of vibrations of coupled pendulum, strength Supplied: coupled Oscillator set up, springs, weights, stop watch	1	9,800.00
	<b><u>Digital Electronics Lab-IV</u></b>		
4	ENCODER AND DECODER KIT 8X3 ,3X8	1	4800.00
5	Multiplexer and De multiplexer - 1 No.	1	3800.00
6	Decade Counter (IC 7490) – 1 No	1	2400.00
	<b><u>Communication Electronics Lab-V</u></b>		
7	AMPLITUDE MODULATION – AND DE-MODUALTION	1	3800.00
8	FREQUENCY MODULATION AND DETECTION – 1No.	1	4800.00
9	BUTTERWORTH FIRST ORDER LOWPASS AND HIGHPASS FILTERS	1	3400.00
10	PHASE LOCKED LOOP (PLL)	1	3800.00
11	GENERATION OF PWM, AND PPM USINGPLL AND 555 TIMER	1	4800.00
12	FSK MODULATION AND DEMODULATION KIT	1	5200.00
13	MEASUREMENT OF NUMIRICAL APTURE AND EBDING LOSS WITH CABLE	1	16,500.00

14	MEASUREMENT OF LIGHT WITH OPTICAL COMMUNICATION	1	18,000.00
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GSTIN: 37AHXP5402G1Z3

Estd:1998

## ELECTRONICS SYSTEMS & SERVICES

D.No. 19-101/2 Deendayapuram , Mudasarlova Road Beside durga temple ,  
Visakhapatnam – 530040 ,. Email : [ess\\_vsp@yahoo.co.in](mailto:ess_vsp@yahoo.co.in) Cell :9849243879

S.No	DESCRIPTION	Qty	Each one
	<b><u>Microprocessor Lab-VI</u></b>		
13	<b>8085 based Mroprocessor Trainer with power supply adepter</b> Make ESA,  ased on Intel 8085 processors. Operates at 3.072 MHz Operates on Single 5V Power Supply Peripheral controllers: 8251, 8279, 8253 and 8255 Stand alone user interface is 7-segment display and on board key pad. RS232 for serial mode	1     OR	6,800.00   <b>(We supplied Nannaya university)</b>  6,200/- VYNATICS

FOR COMMUNICATION EXPT. BUY ONE .DSO

**1. DIGITAL STROGE OSCILLOSCOPE**

1 23,800.00

**TERMS AND CONDITIONS:**

- 1. Taxes** : GST@ extra @18%. (CGST,SGST)  
**2. Delivery** : 2-3 Weeks.  
**3. Warranty** : ONE year  
**4. Payment** : 60% Advance along with order COPY balance against delivery

Demo: free demo on supplied kits

Thanking you sir

K.L.srinivasa rao,B.Tech.

For ELECTRONICS SYSTEMS AND SERVICES



PRINCIPAL

M/S VSM COLLEGE(A)

03.03.2020

RAMACHANDRAPURAM

E.G.DT

Dear sir

SUB:Quotation for your enquiry department of physics

**DIGITAL ELECTRONICS LAB:IV**

S.NO	PARTICULERS	MAKE	PRICE	QNTY	T/QNTY
1	ENCODER AND DECODER	ESSEL	3570.00	1	3570
2	MULTIPLEXER AND DE MULTIPLEXER	ESSEL	3570.00	1	3570
3	DECADE COUNTER(IC 7490)	ESSEL	2350.00	1	2690

**COMMUNICATION ELECTRONICS LAB - V**

1	AMPLITUDE MODULATION	ESSEL	4063.00	1	4063
2	FREQUENCY MODULATION AND DETECTION	ESSEL	4813.00	1	4813
3	BUTTER WORTH FIRST ORDER LOWPASS AND HIGH PASS FILTERS	ESSEL	4813.00	1	4813
4	PHASE LOCKED LOOP(PLL)	ESSEL	6063.00	1	6063

**MICROPROCESSOR LAB -VI**

1	MICROPROCESSOR(8085) KIT	ESSEL	6569.00	4	26276
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TERMS:

1.GST 18 % EXTRA

2.ABOVE PRICES ARE NET RATES

3.SUPPLY TIME 3 WEEKS DATE OF YOUR ORDER

4.PAYMENT AGAINST SUPPLIES

5.FOR YOUR COLLEGE

THANKING YOU

SIRI SCIENTIFIC

RAJAHMUNDRY



ESTD: 1989

Mobile # 94401 79256

# GROWWELL SCIENTIFIC & SURGICALS

"GROWWELL COMPLEX", 36-28-25, SALUMURIVARI STREET,  
INNISPETA, near Saibaba Temple,

**RAJAHMUNDRY 533 101.**

Tel: (OFF) 242 1356 (RES) 246 4469 – FAX NO. 0883-244 1037

E-mail: [growwell9@hotmail.com](mailto:growwell9@hotmail.com), URL: [www.growwellsci.com](http://www.growwellsci.com)

OUR GSTIN: 37AAPPB1989C1ZM :: PAN NO. AAPPB1989C



## QUOTATION

GSS:2018-2019:

04<sup>TH</sup> March, 2020

TO  
THE PRINCIPAL  
V.S.M. COLLEGE (A)  
RAMACHANDRAPURAM  
E.G.DT.,

### M.Sc., PHYSICS LAB.

Dear Sir/s,

We thank you very much for your Valued Enquiry No.  Dated:  and in reply, we have the pleasure to inform you that we are submitting our Lowest QUOTATION per your kind perusal and selection.

We trust that you will appreciate our offer and favor us with your Valued Orders.

S.NO	ITEM DESCRIPTION	MAKE	AMOUNT (RS)	UOM	GST %
<b>SOLID STATE PHYSICS LAB-III</b>					
1	ESR STUDIES – DPPH Determination of G Value of an electron ELECTRON SPIN RESONANCE (ESR) SPECTROMETER ESR-105	SES	38,350.00	EACH	18%
2	LATTICE DYNAMICS: Study of Phonon Dispersion Characteristics LATTICE DYNAMIC KIT: With Frequency meter	MITTAL	32,800.00	EACH	18%
3	COUPLED OSCILLATORS:	--	--	--	--
<b>DIGITAL ELECTRONICS LAB-IV</b>					
1	8x1 MULTIPLEXER, 1x8 DEMULTIPLEXER, 8x3 ENCODER, 3x8 DECODER	KITEK	4,500.00	EACH	18%
2	8x1 MULTIPLEXER, 1x8 DEMULTIPLEXER, 8x3 ENCODER, 3x8 DECODER	KITEK	4,500.00	EACH	18%
3	4 Bit DECADE COUNTER & 4 Bit SHIFT REGISTER	KITEK	4,500.00	EACH	18%
<b>COMMUNICATION ELECTRONICS LAB-V</b>					
1	AMPLITUDE Mod/Dmod TRAINER	KITEK	5,500.00	EACH	18%
2	FREQUENCY Mod/Dmod TRAINER	KITEK	5,500.00	EACH	18%
3	ACTIVE FILTERS-II (Butterworth, Bessels, Chebshew Filters)	KITEK	4,500.00	EACH	18%
4	VCO Using IC565, Phase Detector Using 565	KITEK	4,500.00	EACH	18%
5	PWM Mod/Dmod TRAINER	KITEK	5,500.00	EACH	18%
6	PPM Mod/Dmod TRAINER	KITEK	5,500.00	EACH	18%
6	FSK Mod/Dmod TRAINER	KITEK	5,500.00	EACH	18%
<b>MICROPROCESSOR LAB.-IV</b>					
1	8085 MICROPROCESSOR TRAINING KIT	KITEK	7,500.00	EACH	18%
2	8085 MICROPROCESSOR TRAINING KIT WITH LCD DISPLAY & 101 PC KEYBOARD	KITEK	7,500.00	EACH	18%

Authorized Distributors for:



ALL THE ITEMS ARE SUBJECT TO AVAILABILITY & SUBJECT TO PRICE-REVISION IF ANY - ALL ABOVE LABORATORY USE ONLY.

**TERMS & CONDITIONS:**

01. THE ABOVE QUOTED PRICES ARE F.O.R. RAMACHANDRAPURAM
02. **DISCOUNT: @ 10% ON 'KITEK' PRODUCTS AND THERE IS NO DISCOUNT ON ALL THE OTHER ITEMS.**
03. TAXES: GST TAX will be charged extra as applicable as mentioned above.
04. PAYMENT: IMMEDIATE BY WAY OF BANK DEMAND DRAFT ONLY.
05. All the 'QUALIGENS (FISHER SCIENTIFIC)' items will be supplied through our Sister Concern M/s. VISRUTHA MARKETING, # 36-28-25, SALUMURIVARI STREET, INNISPETA, RAJAHMUNDRY 533 101.
06. DELIVERY: WITHIN 3-4 WEEKS.

Thanking you for your kind and continued co-operation and assuring you of our best and prompt services at all times,

Yours faithfully,

For **GROWWELL SCIENTIFIC & SURGICALS,**

**BH S R SARMA.**

Proprietor.

Authorized Distributors for



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**REVATHI****SCIENTIFIC AGENCIES**

36-7-3/2, Tadevari lane, Near welcome Hotel beside lane, main road.  
KAKINADA – 533 001.

Suppliers of: LABORATORY, INDUSTRIAL CHEMICALS AND LABEQUIPMENTS ETC.,

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Qut: 0015/PHY /RSA/2019-20

DT: 05-03-2020

**QUOTATION**

To

M/s The Principal

V.S.M.College

Ramachandrapuram

E.G.Dist. A.P

**Department of M SC Physics****Digital electronics lab**

SL .No.	Description	Make	Rate	GST%
1	Encoder and decoder	ASICO	2850.00	18%
2	Multiplexer and de multiplexer	ASICO	3385.00	18%
3	Decade counter IC 7490	ASICO	3485.00	18%

**Terms & Conditions :**

1. Price are nett F.o.r your college

- 2. GST@18%.as per GST rules**
- 3. Delivery :Immediately after releasing your PO.**
- 4.. Payment : Against Invoice. Through NEFT**

For Revathi Scientific Agencies

M.Murali Krishna 09346624656

**QUOTATION**

KB/VJA/Quotation/0166/2019-20

Dt: 10.03.2020

To  
The Principal,  
VSM College,  
Ramachandrapuram

Sir,

Sub: Quotation for supply of Lab Equipment -Orders -Requested Reg.  
Ref: Telephonic Enquiry

With reference to the above enquiry, we are giving our best prices as shown below:

S.No.	Name of the Item	Each Rate	GST Extra
1	Electron Spin Resonance Spectrometer ESR-105 (Complete in all respect, except for an oscilloscope)	49,900.00	18%
2	Lattice Dynamic Kit™ with Frequency Meter	43,000.00	18%
3	Coupled Oscillator, wall fixing type	750.00	18%
4	Multiplexer And De-multiplexer (8:1, 1:8)	3,500.00	18%
5	Decade Counter Using 74LS90	3,000.00	18%
6	Amplitude Modulation and Demodulation	3,400.00	18%
7	Frequency Modulation and Demodulation	4,000.00	18%
8	Low Pass & High Pass Filters (passive)	3,000.00	18%
9	Phase Locked Loop	4,300.00	18%
10	PWM & PPM Demonstrator	4,800.00	18%
11	8051 Trainer LCD Version with PC Key board	9,900.00	18%

Thanking you and hoping to be favored with value orders, which will receive our best and prompt attention.

**Terms & Conditions:**

1. Rate F.O.R: VSM College, Ramachandrapuram.
2. Delivery: 4 - 6 weeks or as early as possible.
3. Validity: Our quotation is valid up to 30 days.
4. Payment: 90% advance payment along with P.O. & 10% against delivery.
5. Tax: GST @ 18% extra.
6. Our Current A/c: Bank: Canara Bank SME Branch Vijayawada. A/c: 4470201000136. IFSC Code: CNRB0004470.

Yours faithfully,  
For Kendriya Bhandar

Divisional In-charge  
98660 41349  
94425 79038



**VSM College (A) :: Ramachandrapuram**

**Physics Department**

**M. Sc. Physics (III & IV Sems) Equipment Comparative Statement**

S.No	Equipment Name	Sunrise instek (Cost including GST)	Electronics systems and services(Cost including GST)	Siri Scientific (Cost including GST)	Growel scientific and surgical(Cost including GST)	Revathi scientific agencies (Cost including GST)	Kendriya Bhandar (Cost including GST)
1	ESR studies	53100	43660	Nil	45253	Nil	58882
2	Lattice dynamics	41300	38350	Nil	38704	Nil	50740
3	Coupled oscillators	11800	11564	Nil	Nil	Nil	885
4	Encoder & Decoder Kit	6372	3200	4212	5310	3363	Nil
5	Multiplexer & demultiplexer	4720	3800	4213	5310	3994	4130
6	Decade counter	3540	2500	2773	5310	4112	3540
7	Amplitude Modulation & Demodulation	6372	3800	4794	6490	Nil	4012
8	Frequency Modulation	6372	4600	5680	6490	Nil	4720
9	Butterworth First order Low and High pass filters	4720	3400	5680	5310	Nil	3540 (Low pass and High pass filters passive)
10	Phase Locked Loop	4484	3800	7155	Nil	Nil	5074
11	PWM , PPM Using P11 and 555 Timer	5664	4800	Nil	12980	Nil	5664
12	FSK	8260	5200	Nil	6490	Nil	Nil
13	Measurement of Speed of Light	Nil	19470	Nil	Nil	Nil	Nil
14	8085 Micro processor kits with power supply	9204	7700 7300	7752	8850	Nil	11682 (8051 Trainer LCD version with PC key board)

**Dr. K. Srinivasa Rao**

M.Sc. M.P.A. Ph.D.

Head Department of Physics

V.S.M. College - Ramachandrapuram

East Godavari Dist. (A.P) - 533 245

K. Srinivasa Rao  
10/3/2020

**VSM College (A) :: Ramachandrapuram**  
**Physics Department**

**M. Sc. Physics (III & IV Sems) Equipment Lowest Quotation Statement**

S.No	Equipment Name	Sunrise instek (Cost including GST)	Electronics systems and services(Cost including GST)	Siri Scientific (Cost including GST)	Growel scientific and surgical(Cost including GST)	Revathi scientific agencies (Cost including GST)	Kendriya Bhandar (Cost including GST)
1	Lattice dynamics		38350				
2	Coupled oscillators		11564				
3	Encoder & Decoder Kit		3200				
4	Multiplexer & demultiplexer		3800				
5	Decade counter		2500				
6	Amplitude Modulation & Demodulation		3800				
7	Frequency Modulation		4600				
8	Butterworth First order Low and High pass filters		3400				
9	Phase Locked Loop		3800				
10	PWM, PPM Using P11 and 555 Timer		4800				
11	FSK		5200				
12	Measurement of Numerical aperture and bending loss with Optical Fiber		19470				
	<b>TOTAL</b>	-	<b>1,04,484</b>				

*M. K. Ram*

*R. K. S. I.*

14/3/2020

**PRINCIPAL, V.S.M. COLLEGE (A)**  
**RAMACHANDRAPURAM-533 255. (S.G.D.)**

*Approved*  
*M. K. Ram*  
*14/3/2020*





# VSM COLLEGE

(AUTONOMOUS)



Re-accredited by NAAC, Recognised under 2(f) & 12(b) of UGC, Certified by ISO 9001:2015  
(Affiliated to Adikavi Nannaya University, Rajamahendravaram)

Cell: 9866522999 www.vsmcollege.org ✉ vsmcollege66@gmail.com ✉ principal\_degree@vsm.edu.in

**N.S.V. Kiran Kumar**  
M.sc., M.Phil., B.Ed.  
Principal (FAC)

RAMACHANDRAPURAM  
PIN : 533255, E.G.Dt. (A.P.)  
Dt: 14.03.2020

To,  
Electronics Systems and Services,  
D.No. 19-101/2 Deendayapuram ,  
Mudasarlova Road Beside durga temple ,  
Visakhapatnam – 530040

Sir,

Sub: Supply of Equipment to the Department of Physics of the college for the year 2019-2020-Order placed.

Ref : Your quotation dated 03.03.2020.

\*\*\*

The rates quoted by you in the ref cited, for the various items mentioned in the enclosed list are hereby accepted and you are hereby requested to supply the items in the list enclosed to the Department of Chemistry of the College.

S.No	DESCRIPTION	Qty
1	Lattice Dynamics: Study of Phonon Dispersion characteristics. –	1
2	Coupled Oscillators Study of the normal modes of vibrations of coupled pendulum, strength Supplied: coupled Oscillator set up, springs, weights, stop watch	1
3	Encoder and decoder kit	1
4	Multiplexer and De multiplexer - 1 No.	1
5	Decade Counter (IC 7490) – 1 No	1
6	Amplitude modulation – and de-modulation	1
7	Frequency modulation and detection – 1no.	1
8	Butterworth first order low pass and high pass filters	1
9	Phase locked loop (pll)	1
10	Generation of pwm, and ppm usingpll and 555 timer	1
11	Fsk modulation and demodulation kit	1
12	Measurement of numerical aperture and bending loss with cable	1

Yours faithfully,

PRINCIPAL, V.S.M. COLLEGE (A)  
RAMACHANDRAPURAM-533 255, (E.G.Dt.)


GSTIN : 37AHXPK5402G1Z3

**ELECTRONICS SYSTEMS & SERVICES**# 19-101/2, Deenadayal Puram, Beside Durga Temple, Near Mudasarlova Park,  
Visakhapatnam - 530 040. Cell : 9849243879, 7981341264**TAX INVOICE**

Original Copy

<b>Buyer:</b> <b>To</b> <b>The Principal,</b> <b>V.S.M college (A),</b> <b>Ramachandrapuram,</b> <b>E.G.Dist</b> <b>GSTIN: ---</b>	<b>Invoice No:91</b> <b>Date: 19-03-2020</b>
	<b>Po Ref: Dated: 14-3-2020</b>

S/N	DESCRIPTION	QTY	UNIT PRICE	AMOUNT
1	ESR (electron spin resonance ) Studies set up . Make: SES.instruments	1	43,660.00	43,660.00

<b>BANK ACCOUNT: SYNDICATE</b> <b>BANK</b> <b>A/C NO: 35821400000130</b> <b>IFSC : SYN0003582</b> <b>BRANCH: CHINNA WALTAIR,</b> <b>VISAKHAPATNAM</b>	<b>GST @18% } SGST @ 9% : 3,330.00</b> <b>                  } CGST @ 9% : 3,330.00</b> <b>                  } IGST</b>	<b>Included</b> <b>Included</b> <b>---</b>
	<b>Before tax amount : 37,000.00</b> <b>Tax amount : 6,660.00</b>	
<b>Amount in words: Forty three thousand</b> <b>six hundred sixty only</b>	<b>Grand Total</b>	<b>43,660.00</b>
<b>Terms Conditions:</b> <b>Goods once sold will not taken back</b> <b>Subject to Visakhapatnam jurisdiction</b>	 <b>for ELECTRONIC SYSTEMS &amp; SERVICES</b>	

Stock Received in good condition, all  
entered UGC Autonomous Stock Register  
Book, Page No. 6.

K. K. Srinivas

12/1/20

**Dr. K. Srinivasa Rao**  
B.Sc., M.Phil., Ph.D.  
Head Department of Physics  
S.M. College - Ramachandrapuram  
East Godavari Dist. A.P. 522 255

GSTIN : 37AHXPK5402G1Z3

*Handwritten signature/initials*  
5/16/20

# ELECTRONICS SYSTEMS & SERVICES


# 19-101/2, Deenadayal Puram, Beside Durga Temple, Near Mudasarlova Park,  
Visakhapatnam - 530 040. Cell : 9849243879, 7981341264

## TAX INVOICE

Original Copy

<b>Buyer:</b> <b>To</b> <b>The Principal,</b> <b>V.S.M college (A),</b> <b>Ramachandrapuram,</b> <b>E.G.Dist</b> <b>GSTIN: ---</b>	<b>Invoice No:90</b> <b>Date: 19-03-2020</b>
	<b>Po Ref: Dated: 14-3-2020</b>

S/N	DESCRIPTION	QTY	UNIT PRICE	AMOUNT
1	Lattice Dynamics: Study of Phonon Dispersion characteristics.	1	38,350.00	38,350.00
2	Coupled Oscillators set up Supplied: coupled Oscillator set up, springs, weights, stop watch	1	11,564.00	11,564.00
3	Encoder and decoder kit	1	3200.00	3200.00
4	Multiplexer and De multiplexer	1	3800.00	3800.00
5	Decade Counter (IC 7490) –	1	2500.00	2500.00
6	Amplitude modulation – and de-modulation	1	3800.00	3800.00
7	Frequency modulation and detection – 1no.	1	4600.00	4600.00
8	Butterworth first order lowpass and highpass filters	1	3400.00	3400.00
9	PLL Trainer kit	1	3800.00	3800.00
10	Generation of pwm, and ppm and 555 timer	1	4800.00	4800.00
11	FAK modulation and demodulation kit	1	5200.00	5200.00
12	measurement of numerical apture and Bending loss with cable	1	19,470.00	19,470.00

<b>BANK ACCOUNT: SYNDICATE</b> <b>BANK</b> <b>A/C NO: 35821400000130</b> <b>IFSC : SYNB0003582</b> <b>BRANCH: CHINNA WALTAIR,</b> <b>VISAKHAPATNAM</b>	<b>GST @18% } SGST @ 9% : 7,969.14</b> <b>                  } CGST @ 9% : 7,969.14</b> <b>                  } IGST</b>	<b>Included</b> <b>Included</b> <b>---</b>
	<b>Before tax amount : 88,546.00</b> <b>Tax amount : 15,922.08</b>	
	<b>Total</b>	<b>1,04,484.28</b>
<b>Amount in words: One Lakh four thousand four hundred eighty four only</b>	<b>Grand Total (Round off)</b>	<b>1,04,484.00</b>
<b>Terms Conditions:</b> <b>Goods once sold will not taken back</b> <b>Subject to Visakhapatnam jurisdiction</b>	 <b>for ELECTRONICS SYSTEMS &amp; SERVICES</b>	

Stock Received in good condition, and  
entered UGC Autonomy Stock Register  
Book. page No. 6.

K. K. R. Rao  
14/1/20

Dr. K. Srinivasa Rao  
M.Sc., M.Phil., Ph.D.  
Head Department of Physics  
V.S.M. College - Ramachandrapuram  
East Godavari Dt. (A.P.) 533 255

Ramachandrapuram,

Dt. 25-01-2020.

From :

Dr. K. Srinivasa Rao  
Head, Dept. of physics  
VSM College (H)  
Ramachandrapuram-533253.

To

The principal  
VSM College (H)  
Ramachandrapuram-533253

Sr.

I submit that, we have placed an order for equipment required for M.Sc. physics III semester and IV Semesters, to Electronic Systems & Services, Visakhapatnam. In this context, I request you to arrange to pay Rs. 75,000/- (Rupees Seventy five thousand only) of advance for "Electronic Systems & Services" of advance. The Bank details are given below.

A/c. Holder's name: ELECTRONICS SYSTEMS AND SERVICES

A/c No. : 35821400000130

Branch : CHINNAWALTAK

IFSC : SYN0003582

Thanking you Sir.

Sincerely,

K. Srinivasa Rao 25/1/2020

(Dr. K. SRINIVASA RAO)

**V.S.M COLLEGE (A)**  
**RAMACHANDRAPURAM – 533 255**

Office Note, dated: 26-03-2020

It is submitted that an amount of Rs.75,000/- (rupees seventy five thousand only) has to be paid to **ELECTRONICS SYSTEMS & SERVICES** (A/c No.35821400000130, Syndicate Bank, IFSC: SYNB0003582, Chinnawaltair, Visakhapatnam) towards the purchase of physics lab equipment to our college physics lab. The amount may be paid from **UGC Autonomous A/c(New) (046710100180020)** by way of RTGs. The letter is herewith enclosed for information. Orders may be issued.

F.F.O. (V)

Superintendent:



Ch# 000026

Dt: 26/03/2020

Principal:



Director:

President&Correspondent

**आंध्र बैंक Andhra Bank**  
 RAMACHANDRAPURAM  
 DH 22 3-22/5  
 RAMACHANDRAPURAM, S.U. - ANDHRA PRADESH - 533255  
 RTGS/NEFT-IFSC CODE : ANDB00CH467

Comp. No. 11223

दिनांक / Date २६ ०३ २०२०  
 तीन महीने तक वैध / VALID FOR 3 MONTHS ONLY

Pay **ELECTRONICS SYSTEMS & SERVICES**

रुपये Rupees Seventy five Thousand only

या धारक को or Bearer

अव करोँ ₹ 75,000/-

खा. सं. / A/c No. 046710100180020

Payable at par at all Branches

**N.S.V. Kiran Kumar**  
 FOR PRINCIPAL V S M COLLEGE  
**PRINCIPAL: V.S.M. College**  
 RAMACHANDRAPURAM-533255, E.G.O.I

⑈000026⑈ 533011402⑈ 001637⑈ 31

प्रविष्ट किया गया, आई डी नं. सहित  
 Entered by with ID No.

ई-वैधतापन किया गया, आई डी नं. सहित  
 Posted / Verified by with ID No.

बैंक चीसीएसबीआई कोड के कार्यान्वयन हेतु प्रतिबद्ध है। Bank is committed to implement BCSBI codes

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**आंध्र बैंक Andhra Bank**

Counterfoil

दिनांक / Date

शाखा / Branch

के वार निधि भेजना है

Funds to be sent

through

Name of the A/c Holder

Sender A/c No

Email Id

हस्ताधिकारी का नाम Beneficiary Name

खाता नंबर

A/c No.

राशि Amount

कमीशन Commission

प्रभार Charges

कुल Total

बैंक नाम दिखाने वाले प्रतीक प्रकाश के लिए QR कोड (UTR No. (to be quoted for Customer support)) (QR Code)

पेसिस नंबर

Paysys No.

हस्ताधिकारी शाखा का

आईएसबीआई कोड

IFSC code of the

Beneficiary branch

हस्ताक्षर /

Signature

प्रमाणित हस्ताक्षरकर्ता /

Authorized Signatory

गोचर मुद्रा /

Round Stamp

DRN 20245564409



Ramachandrapuram  
Dt.14-08-2020.

From  
Lt. Cdr. Dr. K. Srinivasa Rao  
Head, Dept. of Physics  
VSM College (A)  
Ramachandrapuram.

To  
The President & Correspondent  
VSM College(A)  
Ramachandrapuram.

Through The Principal, VSM College(A), Ramachandrapuram

Sir,

Sub: Request for Payment for M Sc. Physics Equipment received - regarding.

I request you to kindly arrange to sanction and pay the balance amount of Rs. 73,144/- (Rupees Seventy Three Thousand One Hundred and Forty Four only) to Electronic Systems & Services, Visakhapatnam towards equipment supplied to M Sc Physics Lab of our College. The equipment (Lattice Dynamics set-1, Coupled Oscillators set-1, Encoder and Decoder kit-1, Multiplexer and Demultiplexer-1, Decade Counter-1, AM Modulation-1, FM modulation and detection-1, Filter set -1, PLL trainer kit-1, 555 timer-1, FAK Modulation and demodulation kit-1, Optical fiber kit-1 total cost of Rs. 1,04,484/- and ESR Kit -1 of cost Rs.43,660/- ie total cost of Rs. 1,48,144/-) received in good condition from the above company and the same are entered in Autonomous Stock Register (page nos. 5 & 6). The original bills (Invoices no's 90 and 91 dated 19-03-2020) of the items received is herewith enclosed. Out of the total amount is Rs. 1,48,144/- the advance Rs. 75,000/- is already paid to the above company and the balance amount Rs. 73,144/- (Rupees Seventy Three Thousand One Hundred and Forty Four only) may be paid to the following address whose bank details are given below.

Account Name : Electronic Systems & Services ✓  
A/C No. : 35821400000130  
Bank Name & Branch : Syndicate Bank, China Waltair, Visakhapatnam  
IFSC Code : SYNB0003582

Thanking You Sir.

Sincerely,

*K. Srinivasa Rao*  
Lt. Cdr. Dr. K. Srinivasa Rao  
Head, Dept. of Physics  
VSM College (A)  
Ramachandrapuram.

*Demultiplexer given  
to Dr. BSR, Dr. RKR  
K-20-17  
Tunna.*

*forwarded to Director Madam  
M. Ven  
15/8/20*

UGC-20

Office note dated : 14.08.2020

It is submitted that an amount of Rs. 73,144/- (Rupees seventy three thousand one hundred and forty four only) is paid to the balance amount for M/s Electronics Systems and Services, Visakhapatnam, towards the purchase of equipment for department of Physics. The original bills of the items total amount is Rs 1,48,144 and the advance of Rs.75,000/- is already paid by way of RTGS, and now the balance amount of Rs 73,144/- may be paid to the said company. The requisition letter, and bills are submitted by Dr.K. Srinivasarao head of the department of Physics, is here with enclosed for favour of information. Hence the amount may be paid from UGC Account (A/c no 046710100180020, Andhra bank, Ramachandrapuram). Orders may be issued in the matter.

  
Sr.Asst

Supdt

  
Principal

President & Correspondent

ch#000032  
dt: 18/08/2020

Approved  
15/8/2020

Pay **ELECTRONIC SYSTEMS & SERVICES**

या धारक को or Bearer

रुपये Rupees **Seventy three thousand one hundred**

**and forty four only**

अदा करें।

₹ **73,144/-**

खा सं. / A/c No. **046710100180020**

Payable at par at all Branches

**N.S.U. Kiran Kumar**  
 FOR PRINCIPAL V S M COLLEGE  
 PRINCIPAL: **V.S.M. College**  
 KAMACHANDRAPURAM-533255, E.G.U.P.

⑈000032⑈ 53301402⑈ 001637⑈ 3⑈

**IDBN20250274136**

आंध्र बैंक Andhra Bank दिनांक / Date **18/08/20**

शाखा / Branch: **Ramachandrapuram**

के द्वारा निधि भेजना है  
 Funds to be sent  एबी एक्सप्रेस एनईएफटी AB Xpress NEFT  एबी रियलटाइम आरटीजीएस AB Realtime RTGS

through

Name of the A/c Holder **Principal V S M College**

Sender A/c No. **046710100180020**

Email Id **services**

हस्ताधिकारी का नाम Beneficiary Name **Electronic Systems & Services**

खाता नंबर / BEN A/c No. **35821400000130**

राशि Amount	<b>73,144.00</b>
कमीशन Commission	
प्रभारित चार्जस Charges	
कुल Total	<b>73,144.00</b>

कृपया निम्नलिखित जानकारी में (यदि उपलब्ध है) उदाहरण के लिए उदाहरण के लिए UTR No. (to be quoted for Customer requests Given by Bank)

पेमेंट नंबर / Paysys No. **50521105234**

हस्ताधिकारी का नाम / IFS Code of the Beneficiary Branch

रोकड़िया / Cashier

प्राधिकृत हस्ताक्षरकर्ता / Authorised Signatory

संकेत / Round Stamp