

SRM UNIVERSITY AP

SANCTION ORDER FOR UNIVERSITY RESEARCH GRANT –EQUIPEMENTS AND PROJECT PROPOSALS

Sanction Number: SRMAP/URG/E&PP/2022-23/002

Date: 06-12-2022

Dear Dr.Siddartha Ghosh,
Physics Dept.

The University Allocation Research Grant Committee has approved your proposal under the Equipment grant category for the FY 2022-23. The total amount sanctioned is Rs. **42,00,000/-**.

S.No	Faculty Name	Department	Equipments Name
1	Dr. Siddartha Ghosh	Physics	RF Sputter system

You are requested to adhere to the University Purchase Policy to procure the Equipments as soon as possible. The purchase requisition along with the quotations to be submitted to the Procurement Dept for processing.

University is confident that you will give your best research outcome utilizing the sanctioned fund. University expects 100 % utilization of the equipment and a minimum 30 % by other users. You will maintain a logbook to record the utilization. You will be requested to adhere the university research grant policy for the utilization of the equipment. You are requested to acknowledge the SRM University – AP Research Grant for any research-based outcome by utilization of the equipment.

You are expected to submit the Technical report after 1 year to the committee for review (Format will be shared).

Regards


N.
CFAO

Convenor

SRM UNIVERSITY – AP, Andhra Pradesh-522240

Sub: Recommendations of Purchase Committee Meeting held on 28/02/2023 for the procurement of RF Sputter System with Dry Scroll Pump – Physics Department:-

We have received an indent from Dr. Siddhartha Ghosh – Assistant Professor, Physics Department on 12/12/2022 (Indent. No: 693) for the purchase of the RF Sputter System with Dry Pump for research purpose.

A proposal has been obtained from various vendors as under:

- M/s KMV Vacuum Technologies
- M/s Hind High Vacuum Co. Pvt Ltd
- M/s Mansha Vacuum Equipments Pvt Ltd
- M/s Excel Instruments

Upon receipt of techno commercial offer, a PCM was scheduled on 28/02/2023 and following list of committee members participated for technical and commercial discussions as below:

1. Prof. D.Narayana Rao – Pro Vice Chancellor
2. Prof. Ranjit tapa – Dean, SEAS (Science)
3. Dr. Siddhartha Ghosh – Asst. Prof., Physics Department
4. Dr. Jatis Kumar – Asst. Prof, Physics Department
5. Dr. L.N.Patro – Asst. Prof, Physics Department
6. Dr. Mallikarjuna Rao – Asst. Prof, Physics Department
7. Dr. Sabyasachi C – Asst. Prof, Physics Department
8. Mr. Krishna.R – Sr. Manager, F&A
9. Mr. Rajeshkannan.S – Dy. Manager, Procurement

In Techno Commercial discussions, the Committee has evaluated all the vendors technically and commercially and negotiated with the vendors to bring down the prices. After negotiations the vendors stands as below:

SL No		Vendor Name	Description	Basic Cost (Rs)	GST 18% (Rs)	Grand Total (Rs)	Stage	Remarks
1	Initial Proposal	M/s. Excel Instruments	RF Sputtering System with Dry Scroll Pump	41,00,000/-	7,38,000/-	48,38,000/-	L1	Installation & Demo will be provided at site.
	Final Proposal			38,00,000/-	6,84,000/-	44,84,000/-		

- Detailed comparative statement enclosed here. Please refer to the Annexure - I

In this ground, the committee has decided to place order to M/s. Excel Instruments, who was a technically and commercially stands in L1 Stage.

Payment Terms: -

- 80% payment after material receipt, balance 20% payment after successful installation or acceptance.

Purchase Terms: -

- Delivery: 20 to 24 weeks from date of order confirmation.
- All Non consumable products have a warranty against manufacturing defects for 12 Months from the date of installation or 14 months from the date of delivery whichever is earlier.
- Drawing will be approved by SRM-AP.
- Packaging and Freight Charge are inclusive of the above price.
- Installation charge inclusive of the above price.

SRM UNIVERSITY – AP, Andhra Pradesh-522240

Sub: Recommendations of Purchase Committee Meeting held on 28/02/2023 for the procurement of RF Sputter System with Dry Scroll Pump – Physics Department: -

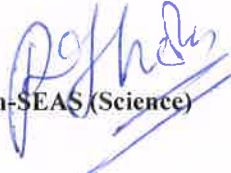
Here there is a Cost Savings in negotiations Rs. 3,00,000/- against basic cost.

Here by submitting the PCM-Minutes with the proposal and request approval to proceed further to release the order to M/s Excel Instruments with basic value Rs. 38,00,000/-, GST 18% of Rs. 6,84,000/- and Grand Total Rs. 44,84,000/-


Dy. Manager – Procurement


Sr. Manager – F&A

Dr. Siddhartha Ghose
(Asst. Professor – Physics Dept)


Dean-SEAS (Science)


CFAO


Registrar

Vice Chancellor


PRO Vice Chancellor

President

Annexure - I

SRM University - AP

Comparative Statement for the RF Sputter System with Dry Scroll Pump

Vendor Details		M/s. KMV VACUUM TECHNOLOGIES, Ltd		M/s. Hind High Vacuum Co. Pvt. Ltd		M/s. Mansha Vacuum Equipments Pvt. Ltd,		M/s. Excel Instruments	
Make Model Name		NOT APPLICABLE ASSEMBLES SYSTEM	1 DC + 1 RF	NOT APPLICABLE ASSEMBLES SYSTEM	1 DC + 1 RF	NOT APPLICABLE ASSEMBLES SYSTEM	1 DC + 1 RF	NOT APPLICABLE ASSEMBLES SYSTEM	
SPUTTER GUN INFO		Argon, Oxygen & Nitrogen (Each 01 No.) • Flow Range: 0 to 100 sccm Digital Display	Three numbers of mass flow controllers for Argon gas (Up to 100 sccm), Nitrogen (Up to 50 sccm) and oxygen gas (Up to 50 sccm)		Three gas inlets for Argon & Oxygen, 3 No's of Mass Flow Controllers calibrated for Argon, Nitrogen and for the range of 0 - 100 sccm with display.		MFC 0-200 SCCM standard gases with valves and manifold qty 3 nos		
BASE VACUUM		5 x 10-7 mbar	5 x 10-7 mbar	5 x 10-7 mbar	5 x 10-7 mbar	5 x 10-7 mbar	5 x 10-7 mbar		
DC Power supply		❖ Power Rating: 1 Kw ❖ -50 - 1000 V / 1 Amps	❖ Power Rating: 1 Kw	❖ Power Rating: 1 Kw ❖ -50 - 1000 V / 1 Amps	❖ Power Rating: 1 Kw ❖ -50 - 1000 V / 1 Amps	❖ Power Rating: 1 Kw ❖ -50 - 1000 V / 1 Amps	❖ Power Rating: 600W		
RF Power supply		❖ Power Rating: 300 Watts ❖ Frequency: 13.56 MHz	❖ Power Rating: 300 Watts ❖ Frequency: 13.56 MHz	❖ Power Rating: 300 Watts ❖ Frequency: 13.56 MHz	❖ Power Rating: 300 Watts ❖ Frequency: 13.56 MHz	❖ Power Rating: 300 Watts ❖ Frequency: 13.56 MHz	❖ Power Rating: 300W		
SUBSTRATE DETAILS		Sample Holder 4" is designed for placing samples of sizes 2 x 2 cm or multiple of small size Substrate Heater 800°C Substrate rotation mechanism 20 rpm	One no. of a 4-inch diameter substrate or multiple no. of smaller size samples. Substrate rotation (5 - 20 rpm). Substrate heater 700°C		A 6" Substrate Holder, substrate temperature up to 900 °C with rotation. Substrate rotation (5 - 20 rpm.)		4" dia sample heater for 800°C Manual <i>in-situ</i> up-down movement by 25 mm		
BACKING PUMP		DRY SCROLL PUMP	DRY SCROLL PUMP	DRY SCROLL PUMP	DRY SCROLL PUMP	DRY SCROLL PUMP	DRY SCROLL PUMP		
Digital Thickness Monitor		NO	NO	NO	NO	NO	NO		
Load lock availability		YES	YES	YES	YES	YES	YES		
Total Cost (Rs)		39,00,000.00	55,00,000.00	55,00,000.00	39,00,000.00	39,00,000.00	38,00,000.00		
GST 18 % (Rs)		7,02,000.00	9,90,000.00	9,90,000.00	7,02,000.00	7,02,000.00	6,84,000.00		
Grand Total (Rs)		46,02,000.00	64,90,000.00	64,90,000.00	46,02,000.00	46,02,000.00	44,84,000.00		
Delivery time		9 to 10 Months from date of receipt of PO	-	-	10 to 12 Weeks from the date of purchase order	10 to 12 Weeks from the date of purchase order	20 to 24 weeks after receipt of PO		
Transport & Freight Charges		Inclusive of the above price	-	-	Inclusive of the above price	Inclusive of the above price	Inclusive of the above price		
Payment terms		90% after delivery and balance after installation	-	-	100% payment against delivery of material and installation.	100% payment against delivery of material and installation.	80% payment after materials receipt and balance after installation and acceptance		
Warranty		12 Months from the date of delivery against manufacturing defects	-	-	1 year	1 year	All non consumables products have a warranty against manufacturing defects for 12 months from the date of installation		
Stage		C2, T2	C4, T4	C4, T4	C2, T2	C2, T2	C1, T1		

PURCHASE ORDER

Supplier Details:		P.O No. : COM-SRM/UNIV/AP/Mar/22-23/PUR-00815
M/s Excel Instruments		Date : 21-Mar-2023
Gala No 9 and 10, Building no 2, Dias Industrial Estate, Sativali Naka, Vasai (E) Palghar, Maharashtra - 401208		Invoice To : SRM University-AP, Andhra Pradesh Neerukonda Village Mangalagiri Mandal Guntur 522502 GST No. 37AASTS4359N1ZD
GST No	: 27AAAFE9903A2ZT	Delivery At : SRM University AP, Neerukonda Village, Mangalagiri Mandal, Guntur - 522 502.
Supplier Reference No	: E/SRM-A/SG/Q/03012023	
Quotation Received on	: 01-Mar-2023	
Contact Person	:	
Contact No.	: 9867312962	
Email Id	: sales@excelinstruments.biz	

SI No	Description	Delivery period	Qty	Unit	Price /Unit[Rs.]	Discount /Unit[%]	Tax /Unit	Extra Charges	Total Price [Rs.]
1	Sputtering System(Comprising of a)SS Chamber, b)Substrate holder, c)Magnetron, d)Turbo with dry backing pumps and gauges, e)MFC 3 Nos, f)RF Supply with matching network, g)DC Supply, h)Loadlock chamber)	21-Mar-2023	1.00	Nos	3800000.00	0.00	18.000	0.00	4484000.00

4484000.00

Total Purchase Amount : 4484000.0

Rupees in Words : Forty Four Lakh Eighty Four Thousand Only
Terms and Conditions:

Purchase Terms	1. The total price is inclusive of GST. 2. FOR Destination
Payment Terms	1. 80% Payment after material receipt, balance 20% payment after successful installation or acceptance. ✓
P.O. Note	1. Delivery: 20-24 Weeks ✓ 2. All non consumable products gave a warranty against manufacturing defects for 12 months from the date of installation or 14 months from the date of delivery whichever is earlier. 3. Drawing will be approved by SRM University AP. 4. Contact Person: Dr. Siddhartha Ghosh - Research Equipment - Physics Dept.

Purchase Order Generated By: Anil Kumar Naradasu

Acknowledged By

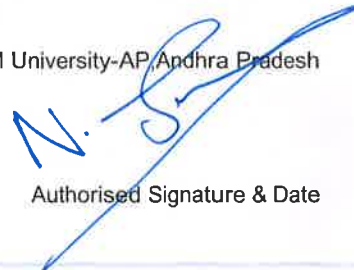
SRM University-AP, Andhra Pradesh

Supplier Seal, Signature & Date
Copy To

Stores and Accounts Dept.,

Authorised Signature & Date

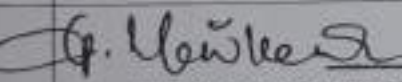
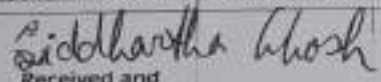
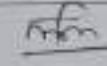

 SP
 21/03/2023

Goods Receipt Note



DATE : 03.08.2023

M/S EXCEL INSTRUMENTS					Purchase Order Number :				COM/ SRM/ UNIV/ AP/ MAR / 22-23/ PUR-00000815
E/ 0366/ 23-24/ INV					PO DATE:				21.03.2023
ATE : 15.07.2023					DEPARTMENT :				PHY DEPT // DR SIDDHARTHA GHOSH //
No	PARTICULARS	UIM	Qty Received	EACH UNIT PRICE	AMOUNT	Installation Status	Installation DATE	LOCATION	REMARKS
1	SPUTTERING SYSTEM COMPRISING ::	NOS	1.00	3800000.00	3800000.00				
GST :					684000.00				
FORWARDING CHARGES - TRANSPORT CHARGES / SERVICE CHARGES ::									
IF ANY ::									
GRAND TOTAL ::					4484000.00				
Remarks: We confirm the receipt of all above items in full and in good satisfactory condition.									
 PREPARED BY (STORES) <u>31/8/2023</u>		 Received and Checked By (User)		 HOD		 Deputy Director			

Goods Receipt Note (GRN) Details

GRN Code	SRM/UHV/AP/Aug/23-24/GRN-00405	Invoice No	E/ 0366/23-24/PHV
GRN Date	18-Aug-2023	Invoice Date	15-JUL-2023
Supplier Name	M/s Excel Instruments	Purchase Order Code	COM-SRM/UHV/AP/PHV/22-23/POB-00815
GRN Status	Data Entry	Purchase Order Date	21-MAY-2023
GRN Remarks	REC & CHECKED BY DR. SIDDHARTHA GHOSH, PHY DEPT. / / / / / / / /	Gate Pass Ref	82/4948

Goods Receipt Note (GRN) - Product List

Sl No	Product Name	Quantity Received	Unit	Price/Unit	Value	Discount (%) / Unit	Discount Amount	Gross	Deduction before tax	Addition before tax	Gross Taxable	Tax (%) / Unit	Tax Amount	Extra Charges	Total Amount	Qty Issued
1	Sputtering System	1.00	Nos	3,800,000.00	3,800,000.00	0.00	0.00	3,800,000.00	0.00	0.00	3,800,000.00	18.00	684,000.00	0.00	4,484,000.00	0
Total				3,800,000.00			0.00	3,800,000.00	0.00	0.00	3,800,000.00		684,000.00	0.00	4,484,000.00	
Grand Total															4,484,000.00	

[Signature]

Verified
[Signature]

Tax Invoice

Extra Copy



EXCEL INSTRUMENTS®

Gata no. 9 & 10, Bldg no 2, Dns Industrial Estate,
Setivli Naka, Vasai (E), Palghar - 401 208
Tel. No. 02502480377/Mu.9867312962/63
E-mail - sales@excelinstruments.biz

Tax Invoice No.

E/0366/23-24/ISS ✓

Invoice issued date

15.07.2023 ✓

Challan no

0348/23-24/07-DC

Challan issued date

15.07.2023

Mode of Transport

Road

GSTIN: 27AAAF19903A2Z1 dated 28/06/2017

PO No: COM-SRM/UNIV/AP/Mar/22-23/PUR-00815 Dtd. 21.03.2023

PAN No. AAATF9903A

Qtr No. 08/SRM-ANG/Q03012023 Dtd. 01.03.2023

Delivery to:

SRM University - AP,
Nepukonda Village, Mangalagiri Mandal,
Guntur - 522 502
K/A - Dr. Siddhartha Ghosh
Contact No. 0863 234 3063

Bill to:

To:
SRM University - AP,
Andhra Pradesh, Nepukonda Village,
Mangalagiri Mandal,
Guntur - 522 502
K/A - Dr. Siddhartha Ghosh
Contact No. 0863 234 3063

Phy
Dr. Siddhartha Ghosh

Sl. No.	Description of Goods	Qty	UOM	HSN Code	Unit price (Rs)	Ex. Value (Rs)
1	Sputtering system comprising of: a) SS Chamber b) Substrate holder c) Magnetron sources d) Turbo with dry backing pumps and gauges e) MFC's nos f) RF supply with matching network g) DC supply h) Loadlock chamber	1.00	Nos	847990	38,00,000.00	18,00,000.00
PO No: COM-SRM/UNIV/AP/Mar/22-23/PUR-00815 Dtd. 21.03.2023						
Hall: Allianz General Insurance Company Ltd Policy No: OG-24-1904-1005-30000002 Dt. 31.03.2024						
Customer Details:					Sub Total (Rs)	18,00,000.00
GSTIN: 27AAST54359N1ZD					Freight	0.00
GSTIN: AAAT54359N					Insurance	0.00
GSTIN: AD					Total	38,00,000.00
GSTIN: 522502					IGST @ 18%	6,84,000.00
					Grand Total Amt (R/O)	44,84,000.00

Amount (In Words): Rupees Forty Four Lakh Eighty four thousand Only
Terms and conditions

90% Payment after material receipt, Balance 20% payment after successful
installation or acceptance

Payment should be made by cheque in favour of "EXCEL INSTRUMENTS" or
by Bank details

Bank Name: KOTAK MAHINDRA BANK, Branch: Andheri (E)
IFSC: KKBK0000651, NEFT: KKBK0000651, MICR NO: 400485003,
C/N: 9712151841, Account Type: Business Finance Current Account

For EXCEL INSTRUMENTS

Authorized Signatory

9553459982

Received
Siddhartha Choudhary

SECURITY
SRM UNIVERSITY AP, Andhra Pradesh
INWARD
INWARD No. 219/18 page 82...
DATE 3/8/23 IN TIME 11:35
VEHICLE No. AP39 TQ 9396
SECURITY SIGN K. S. S. S.

PNY



SRM University - AP, Amaravati
Materials have been
certified that the
duly brought into the Stock Register
Page No. 55 Sl. No. 677 Dated 18/8/2023

[Signature]
Store Keeper

[Signature]




®

EXCEL INSTRUMENTS®

Mfg. : Vacuum Components & System Fabricators
Gala no. 9 & 10, Bldg no.2, Dias Industrial Estate,
Sativali Naka, Vasai (E), Palghar-401 208. Maharashtra
Tel: 0250 2480377 Mob: 09867312963/09867312962
E-mail – sales@excelinstruments.biz

INSTALLATION REPORT

Customer Installation/Service Report	
CVR No: CIR/SRM_Guntur/SG/0055	Date: 6 th December 2023
Customer Name: Dr. Siddhartha Ghosh, Assistant Professor, Department of Physics, School of Engineering and Sciences, SRM University AP. Mobile No: +91 90735 43657	
Customer Address: Lab No:217, JC Bose Block , SRM University -AP, Neerukonda Village, Mangalagiri Mandal, Guntur-522 502 Andhra Pradesh , Bharat	
Status of Call: Installation and Training of supplied system as per purchase order .	Instruction from: Dr. Richard Pinto
Reason for Visit	
Installation and training of Sub: Sputtering system as per Purchase Order : PO No:COM-SRM/UNIV/AP/Mar/22-23/PUR-00815 Dtd. 21.03.2023	
Work done: <ul style="list-style-type: none">• Demonstration and Training in safe handling and operation of the system were given at the client's end.• Students were given hands-on training under our supervision to ensure that they are comfortable with the standard procedures of operations and have a basic understanding of system functionality.	
Call attended by and Signature: Pramodkumar Prajapati (Engineer "G") 	
Customer signature: Print Name: Dr. Siddhartha Ghosh Date: 6 th December 2023	

Yours Sincerely

For Excel Instruments
Authorised signatory



Usage Rate Chart

Equipment Name	RF Sputter System
Research Facility	Exotic Interface Laboratory
Model and make	Excel Instruments, Assembled system; Model – N.A.
Year of Instillation and Location	2023, JC Bose Block, Room # 217
Source of Fund	University Fund


Usage Rate: (as indicated by SRM University-AP)		
SL. NO.	USERS CATEGORY	RATE (UNIT SAMPLE [#]) & (IN RUPEES)
1	Academic (External) ¹ (5cm by 5cm substrate)/ (4-inch Wafer)	200.00/500.00
2	Academic (Internal but different department/lab) ²	0.00
3	Academic (Internal) ³	0.00
4	Industry User (5cm by 5cm substrate)/ (4-inch Wafer)	300.00/750.00
5	National Research Lab User (5cm by 5cm substrate)/ (4-inch Wafer)	200.00/500.00
6	Start-up Company (5cm by 5cm substrate)/ (4-inch Wafer)	300.00/750.00


Note:

- Academic (External) means researchers belongs to the other institution.
- Academic (Internal but different department/lab) means researchers belongs to other department/lab or other investigators.
- Academic (Internal) means researchers belongs to the same institution.

- Target and Substrate must be brought by the User.

Approved by


 Prof. Ranjit Thapa
 Professor and Dean - Research
 SRM University – AP


 Dr. Sabyasachi Mukhopadhyay
 Coordinator,
 Central Research Facility and I-STEM
 SRM University – AP

Prof. Ranjit Thapa
 Dean - Research
 SRM University-AP, Andhra Pradesh
 Neerukonda, Pincode: 522240
 Guntur District, Andhra Pradesh, India

Prepared for I-STEM portal submission.

Dr. Sabyasachi Mukhopadhyay
 Associate Professor
 Department of Physics
 SRM University-AP, Andhra Pradesh
 Neerukonda, Pin code-522240,
 Guntur District, Andhra Pradesh, India.