

SCANNING ELECTRON MICROSCOPE FACILITY (SEMF)
Network Project on Insect Biosystematics, Division of Entomology,
Indian Agricultural Research Institute
New Delhi - 110 012

Charges (in Rupees) are as follows:

| S.N. | Particulars | Category I (ICAR/ IARI/ SAUs) | Category II (Other Univs./ Other Govt. Depts.) | Category III (Industries/Pvt. Institutions) |
|------|---|-------------------------------------|---|---|
| 1 | High Vacuum mode | | | |
| | a. Specimen preparations (dehydration, critical point drying and coating). b. Viewing time per hr) | 750 500 | 1000 2000 | 1500 2500 |
| 2 | Low vacuum mode | | | |
| | a. Viewing time/per hr (including specimens preparations, if required) | 1000 | 1500 | 3000 |
| 3 | Environmental mode | | | |
| | a. Viewing time/per hr (including specimens preparations, if required) | 1000 | 2000 | 3500 |
| 4. | EDX: Elemental analysis: Elements above the Sodium (Na) (93 elements) in periodic table | | | |
| | a. Specimen preparation charges (Dehydration, critical point drying and coating) | 750 | 1000 | 1500 |
| | b. Per sample (one spectrum) c. Per additional spectra | 500 50 | 1500 150 | 2500 250 |
| 5. | STEM | | | |
| | a. Specimen preparations (3 blocks/specimens; 2 LM slide/block; 3grid/1block and stained | 1000 | 2000 | 3000 |
| | b. Negative staining c. Viewing time per hr | 250 500 | 750 1000 | 1500 2500 |
| 6. | SEM Image recording: | | | |
| | Image on CD: Cost for first 1-10 images Cost per images thereafter | 50 10 | 75 10 | 100 10 |
| 7. | Image Analysis per hr. | 250 | 500 | 1000 |

1. Validity of charges is up to December, 2012 and subjected to revision each year in the month of December, on the basis of escalation of charges/cost of AMC and consumables etc.
2. Despatch charges: If CD to be posted, Rs. 100/- as postage (Speed Post) charges will be extra
3. Record to be kept for one month from the date of work and thereafter will be destroyed.
4. Payment mode: Payment will be made as Demand Draft (DD) in favour of "Director, IARI" or in cash in person at the office of the Division of Entomology, IARI.
5. Director, IARI reserves the right to accept or reject any sample for the purpose.

SCANNING ELECTRON MICROSCOPE FACILITY (SEMF)
Network Project on Insect Biosystematics, Division of Entomology
Indian Agricultural Research Institute
New Delhi - 110 012 (Tel. 25842042)
Email: vvr_ento@iari.res.in Fax: 25846460

PROFORMA FOR USERS

Requisition Form for

| | | | | | |
|-----|--|------|--|-----|--|
| SEM | | STEM | | EDX | |
|-----|--|------|--|-----|--|

Requisition No. _____

- a. Name, Designation & Address of Principal investigator/ _____
 Chairperson with Telephone Number and **Email ID** _____
- b. Name & Designation of user with _____
 Telephone Number and **Email ID** _____
- c. Billing Head _____
- d. Category-I (ICAR/IARI/SAUs) (Please tick) ()
 Category-II (Other Univ. /other Govt. Deptt.) ()
 Category-III (Industries /Pvt. Industries) ()
- e. Name of the Specimen/Tissue _____ from Insect/ Animal/ Microbe/Plant/ Human/ Soil/ Others
- f. Name of the fixative used _____ Duration _____ Orientation required
- g. Number of specimen to be processed for the proposed thesis/research work. Total _____ Current _____
- h. SEMF will be used for doing:
 i) Project research work () ii) Thesis work () (iii) Diagnostic work ()
- i. Name of the Project or Title of the proposed Thesis/ Dissertation work _____
 and Date of completion _____
- J. **UNDERTAKING:** Please give details of previous publications, if any, emerging out of the work carried out at the SEMF by your group. The Chief Investigator is requested to certify that he/she will provide information on publications in due course.

Signature of Officer-in-Charge
SEMF

Signature of Principal Investigator/ Chairperson
Date & Official stamp

Note: Ideally, perfusion fixation of tissue for EM should be done. Tissues should be cut into 1 x 1 mm thick pieces & fixed in 2.5% glutaraldehyde & 2% para formaldehyde (PF), in 0.1 M phosphate buffer (pH 7.4) for 6-12 hr (depending on tissue type) at 4°C.

A maximum of 20 samples per proforma will be accepted. Samples will be received between 11.00 A.M. - 01.00 P.M. Booking for E.M. viewing will be done at the time of depositing the samples. Telephonic booking has to be confirmed by email.

Due acknowledgement be given to SEMF, IARI, in the research publication emerging out of the work carried out at this Facility.

Director, IARI reserves the right to accept or reject any sample for the purpose.

FOR OFFICIAL USE ONLY

Requisition No. _____

Date _____

A. Work Report: STEM

| S.No. | Sample received Date No. | Blocks prepared Date No. | LM Slide Date No. | Grids prepared Date No. | Grids stained/ Immunolabelled/ Negative stained on Date No |
|-------|--------------------------------|--------------------------------|-------------------------|-------------------------------|--|
| 1. | | | | | |
| 2. | | | | | |

B. Work Report: SEM

| S.No. | Sample received Date No. | Specimen prepared Date No. | CPD Date No. | Coating prepared Date No. | Image Analysis/EDX Date No. |
|-------|--------------------------------|-------------------------------------|--------------------|------------------------------------|-----------------------------------|
| 1. | | | | | |
| 2. | | | | | |

C. Allotment of time : STEM/SEM (UV/LV)

| S.No. | Date | Register Ref. | Hours. | No. of Images | Technical Support |
|-------|------|---------------|--------|---------------|-------------------|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |

D. Billing Charges

| S.No. | Work done | Rate | Number | Amount in Rs. |
|-------|----------------------|------|--------|---------------|
| 1. | Specimen preparation | | | |
| 2. | E.M. Viewing time | | | |
| 3. | Image recording | | | |
| 4. | EDX/ Image Analysis | | | |

TOTAL:

Date _____

Officer-in-Charge
SEMF, IARI, New Delhi

Staff-in-Charge
SEMF, IARI, New Delhi