

**STATE PESTICIDES TESTING LABORATORY
DEPARTMENT OF AGRICULTURE
GOVERNMENT OF MIZORAM**

- 1. Purpose :** The SPTL is going to be established to maintain quality control for available pesticides and to conduct pesticides residue analysis from the samples of different types of food items.
- 2. Construction of SPTL building :** The construction of SPTL RCC building has been completed by the Mizoram PWD at Agriculture Farm, Neihbawih, 7 km from Aizawl. Utilising Rs. 30.00 lakh (Rupees Thirty lakhs) under CSS.
- 3. Laboratory Equipments :** No sophisticated laboratory equipments as per the list sent by PPA are installed in the SPTL so far. An application to release the balance amount Rs. 25.00 lakh (Rupees Twenty five lakhs) for procurement of laboratory equipments had already sent to PPA on 19th September, 2008. No reply for this has been received so far.
- 4. Training of officers for SPTL :** Mr. Lalengliana, B.Sc (Agri), Agril. Extension Officer, Department of Agriculture, Mizoram is going to undergo training on “Refresher Course on Pesticides Analysis for PTL at NPPTI, Hyderabad during 5th-23rd January, 2009”. The training programme is confirmed and the officer has decided to attend the training and finalizing his travel plan. After completion of the training, if the laboratory equipment are provided by Directorate of Plant Protection, Quarantine and Storage, Department of Agriculture & Cooperation, Ministry of Agriculture, Government of India, Faridabad, the laboratory works may be started under the supervision of the trained officer. The laboratory assistants may be posted in the SPTL from the existing technical staff based upon necessity.
- 5. Laboratory Works :** The following laboratory works shall be carried out in the SPTL.
 - 1) **Quality control of Pesticides :** Samples may be collected from the pesticides procured by the Insecticides Licenced Dealers in Mizoram and analysed the samples whether they are spurious or not, or standard or non-standard. The result of the analysis may be furnished to the Director, CIL, Faridabad and PPA and the manufacturer of the pesticides.
 - 2) **Residue Analysis :** As Cancer cases are estimated to be highest among Mizos based upon the population in India. Therefore, it is imperative to conduct pesticides residue analysis from the samples like vegetables, fruits, foodgrains like cereals and pulses. Based upon the result of the analysis of pesticides residues awareness may be emphasized on the use of IPM for pest management in various crops.
- 6. Analysis fee :** Analysis fee for samples may be charged based upon the rates fixed by Government of India.

No.D 19019/1/2007-DTE(AGR-PP)
GOVERNMENT OF MIZORAM
DIRECTORATE OF AGRICULTURE (CROP HUSBANDRY)
MIZORAM : AIZAWL

Dated Aizawl, the 17th December, 2008.

To,

Plant Protection Adviser to the Government of India,
Ministry of Agriculture,(Department of Agriculture & Co-operation)
Directorate of Plant Protection,Quarantine & Storage,
NH-IV, FARIDABAD-121001 (HARYANA)
Fax 0129-2412125

Subject : Submission of State Pesticide Testing Laboratory(SPTL) Road Map -
required list of equipments etc-regarding.

Sir,

I have the honour to Submit herewith Road Map of State Pesticide Testing Laboratory, Mizoram and a list of required equipments and copy of Utilization Certificate for construction of SPTL Building at Neihbawih, Aizawl for favour of your kind information and necessary action.

Enclo :- As above.

Yours faithfully

(P. BHATTACHARJEE)
Director of Agriculture
(Crop Husbandry),
Mizoram, Aizawl.

**STATE PESTICIDES TESTING LABORATORY,
DEPARTMENT OF AGRICULTURE (CH)
GOVERNMENT OF MIZORAM**

- 1. Purpose :** The SPTL is going to be established to maintain quality control for available pesticides and to conduct pesticides residue analysis from the samples of different types of food items.
- 2. Construction of SPTL building :** The construction of SPTL RCC building has been completed by the Mizoram PWD at Agriculture Farm, Neihbawih, 7 km from Aizawl. Utilising Rs. 30.00 lakh (Rupees Thirty lakhs) under CSS. The utilization certificate for Rs. 30.00 lakh was already sent to Dr. P.S. Chandurkar, Plant Protection Adviser to the Govt. of India, Faridabad on 12th June, 2006 vide No.D.19019/1/2004-DTE(AGR-PP) of 12th June, 2006.
- 3. Laboratory Equipments :** No sophisticated laboratory equipments as per the list sent by PPA are installed in the SPTL so far. An application to release the balance amount Rs. 25.00 lakh (Rupees Twenty five lakhs) for procurement of laboratory equipments had already sent to PPA on 19th September, 2008. No reply for this has been received so far.
- 4. Training of officers for SPTL :** Mr. Lalengliana, B.Sc (Agri), Agril. Extension Officer, Department of Agriculture, Mizoram has completed short duration course on “Refresher Course on Pesticides Analysis for PTL at NPPTI, Hyderabad during 5th - 23rd January, 2009”. He has been nearly completed 3 months training programme on “Pesticide Residue Analysis” from National Plant Protection Institute, Hyderabad w.e.f 01.07.2009 to 30.09.2009. Mr. Lalengliana, AEO is now provisionally transferred to look after SPTL. After completion of the training, if the laboratory equipment are provided by Directorate of Plant Protection, Quarantine and Storage, Department of Agriculture & Cooperation, Ministry of Agriculture, Government of India, Faridabad, the laboratory works may be started under the supervision of the trained officer. The laboratory assistants may be posted in the SPTL from the existing technical staff based upon necessity.
- 5. Laboratory Works :** The following laboratory works shall be carried out in the SPTL.
 - 1) *Quality control of Pesticides* : Samples may be collected from the pesticides procured by the Insecticides Licenced Dealers in Mizoram and analysed the samples whether they are spurious or not, or standard or non-standard. The result of the analysis may be furnished to the Director, CIL, Faridabad and PPA and the manufacturer of the pesticides.
 - 2) *Residue Analysis* : As cancer cases are estimated to be highest among Mizos based upon the population in India. Therefore, it is imperative to conduct pesticides residue analysis from the samples like vegetables, fruits, foodgrains like cereals and pulses. Based upon the result of the analysis of pesticides residues awareness may be emphasized on the use of IPM for pest management in various crops.
- 6. Analysis fee :** Analysis fee for samples may be charged based upon the rates fixed by Government of India.

(K. ZIRLIANA)
Plant Protection Officer,
Directorate of Agriculture (CH),
Mizoram, Aizawl.

Estimates for establishment of new Pesticide Residue Analysis Laboratory

(Recommended by Dr. Jhelum, Deputy Director, NPPTI, R “Nagar, Hyderabad)

Total cost of establishment of one Pesticide Residue Analysis Laboratory as suggested by Dr. Jhelum, Deputy Director, NPPTI, R’Nagar, Hyderabad for analysis of 1000 samples per annum is 5.42 crores.

1. BUILDING :

| Sl. No | Item | Area in Sq.m | Approx. cost (Rs. In lakhs) |
|--------|--|--------------|-----------------------------|
| 1. | Officer-in-charge room | 20 | |
| 2. | Analysts Room | 60 | |
| 3. | Office Room | 40 | |
| 4. | Library-cum-meeting Hall | 60 | |
| 5. | Washing Room | 20 | |
| 6. | Heating Room for Hot Air Oven, Muffle Furnace, Soxhlet extraction heaters, Water & Solvent distillation unit | 30 | |
| 7. | Samples preparation room for preparation of sample, extraction and cleaning | 60 | |
| 8. | Instruments Room for GCs and GC-MSMS, Spectrophotometer, HPLC and LCMS | 100 | |
| 9. | Equipments Room for Deep Freezer, Refrigerator, Balance, UPS, Gas Cylinders | 40 | |
| 10. | Power Room for Generator (outside the Lab) | 20 | |
| 11. | Store Room | 50 | |
| 12. | Bath Rooms (2) | 20 | |
| | TOTAL | 520 | 45.00 |

STATE PESTICIDES TESTING LABORATORY

Govt of India thu angin India ram State tinah State Pesticides Testing Laboratory hi din tur a ni a, chutiang chuan Mizoramah pawh din a ni a, a senso pawh Govt. of India tum a ni.

1. SBCL building office leh Laboratory hi Rs. 20.00 lakh senga PWD sak a ni.
2. SPTL a hman tur heng te hi lei a ni.
 - (i) High Performance Liquid Chromotograph (HPLC). He khawl hi Pesticide quality control atan a hman chi a ni.
 - (ii) Silent Diesel Generator Set 5 kVA.
 - (iii) Equipment and Glasswares.
 - (iv) Chemicals and reagents.
 - (v) Office furniture's.
 - (vi) Curtain, Carpets etc.
3. SPTL hi Govt. of India in din tur a tihnachhan chu India ram a Pesticides an siam Loneitute tana an zawrh reng reng hi a quality a tha em tih te, active ingredients a bur pawna in ziak hi a chhungah hian a awm tak tak em tih te hriat chian nan a ti a ni.
4. SPTL a thawk tur hian B.Sc (Agri.)/ B.Sc (Chemistry) degree nei, NPPTI (NIPHM), Hyderabad atanga Pesticides Analysis course 3 months tal train chhuak a ni tur a ni. He mi atan hian Pu.Lalengliana, AEO (tuna Extension Branch Directorate of Agri., Aizawl a thawk mek) hi SPTL a thawk thei tur hian NPPTI, Hyderabad ah a training chhuak tawh a, heng a hnuai course te hi tha takin a zir zo tawh a ni.
 - (i) Refresher Crouse on Pesticides Analysis for PTL Analyst , 21 days w.e.f. 05-01-2009 to 23-01-2009.
 - (ii) Pesticides Residue Analysis, 3 months, w.e.f 01-07-2009 to 30-09-2009
5. SPTL hi mumal taka a function hun ah chuan NABL accreditation lak tur a ni a, chuvangin a rang thei ang ber a hna tan a tul a ni. Hna tan tur chuan Pu.Lalengliana, AEO hi Plant Protection Branch hnuai a awm hi tih makmawh a ni.



**SPTL OFFICE AND LABORATORY, AGRICULTURE FARM COMPLEX,
NEIHBAWIH**





Mr. Lalengliana, AEO in the SPTL



High Performance Liquid Chromatograph in SPTL