



7.1. Institutional Values and Social Responsibilities

7.1.3. The facilities in the Institution for the management of the Degradable and Non-Degradable waste.

**Relevant Document:
MoUs with Government Agencies**



7.1.3. MoU with Municipal Corporation Jabalpur for

- **Solid Waste Management**
- **Liquid Waste Management**
- **Biomedical Waste Management**
- **E-Waste Management**
- **Waste Recycling System**
- **Hazardous Chemicals and Radioactive Waste Management**


**7.1.3. MoU for Solid and Liquid Waste
with Municipal Corporation Jabalpur**

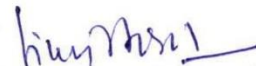

Memorandum Of Understanding

रानी दुर्गावती विश्वविद्यालय जबलपुर एवं नगर पालिक निगम जबलपुर (म.प्र.) के मध्य निम्नलिखित शर्तों के साथ MoU निष्पादित किया जाता है :-

1. विश्वविद्यालय में स्थित सरकारी आवासों से निकलने वाला अवशिष्ट पदार्थ (सूखा एवं गीला) विश्वविद्यालय के कर्मचारियों द्वारा एक स्थान पर एकत्रित किया जावेगा।
2. उक्त कार्य के लिये विश्वविद्यालय स्वयं अपने संसाधन से ठोस अपशिष्ट का कठौंदा स्थित वेस्ट टू एनर्जी प्लांट तक परिवहन करेंगे।
3. उक्त कार्य के लिये नगर निगम जबलपुर द्वारा विश्वविद्यालय को किसी भी प्रकार का शुल्क/राशि का भुगतान नहीं किया जावेगा।
4. उपरोक्त विषय में किसी प्रकार का विवाद होने की स्थिति में दोनों पक्ष आपस में विचार विमर्श कर विवाद का हल तलाशेंगे।
5. विचार विमर्श से विवाद का हल नहीं होने की स्थिति में दोनों पक्षों में से कोई भी पक्ष एक महीने की समय सीमा का नोटिस जारी कर MoU से अलग हो सकता है।


कुलदेवि
रानी दुर्गावती विश्वविद्यालय
जबलपुर


स्वास्थ्य अधिकारी
नगर निगम जबलपुर।

गवाह:-
1. 
Dr. Jyoti Durgavati
सहायक प्राचार्य शिक्षिका
2. 
Dr. Indira Bhatnagar
की. विद्यालय
जबलपुर



7.1.3. MoU with Excellent Bio Research Solution

Memorandum of Understanding

This Memorandum of Understanding is signed between **Excellent Bio Research Solutions Pvt. Ltd.** (hereinafter called the Company), having its corporate office at Excellent Tower, 1042, Napier Town, 4th Bridge, Jabalpur 482001 (MP), through its Managing Director Dr. Manish K. Agrawal

And

Rani Durgavati University, Pachpedi, Saraswati Vihar, Jabalpur Registrar R D University.

Preamble

The Excellent Bio Research Solutions Pvt. Ltd., is a NABL accredited and FSSAI (Govt. of India) notified food and water testing laboratory working pan India. **Registrar R D University** is willing to get the water samples tested on regular basis, this MoU is prepared and signed by both the parties, which agreed upon the following:

Scope of Services under this MoU:

1. Party will intimate the company beforehand for its water test requirements in writing by email/letter.
2. The Company will take the responsibility of Sample collection as and when required by the Party
3. The samples will be collected and sent to the laboratory of the Company for testing. No charge for sample collection and dispatch will be provided to the party.
4. The company will provide the sample test report to the person authorized by the party within 10 days of sample collection.
5. The company will generate the invoice with applicable taxes to the party, which party will pay within 15 days.

3). Date of Effect

This Memorandum of Understanding will come into effect on the date of signature and will remain in force until either side delivers written notification to the other of its intention to terminate the Memorandum, in which case it will terminate three months after the receipt of such a notification.

4). MODIFICATION

The MOU may be amended by mutual consent through an exchange of correspondence between the two signatories.



7). SIGNATURES

Signed on the Sixteen day of November (English months) of 2021 (year)
corresponding in English language all text being equally authentic. In case of doubt in
interpretations, the English text shall prevail.

For
Excellent Bio Research Solutions Pvt.
Ltd., Jabalpur

Dr. Manish Agrawal



Registrar
Rani Durgavati Vishwavidyalaya
Jabalpur

For
Rani Durgavati University, Pachpedi,
Saraswati Vihar, Jabalpur

Registrar



Department of P.G. Studies and Research in Chemistry & Pharmacy
Rani Durgavati University, Jabalpur
Saraswati Vihar, Pachpedi, Dumana Air Port Road, Jabalpur 482001 (M.P.)

Sample Chemical Management Plan

The following faculty members are nominated as the Department Regulatory Chemical Coordinator committee

1. Prof.P.K.Khare (President)
2. Mr. Mohd.Washid Khan (Member)
3. Dr. Pradeep Vishwakarma (Member)
4. Dr. Deepak Rajak (Store Incharge)
5. Mr.Abhishek Pandey (Store Incharge)

1. Purpose/Scope

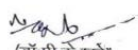
This procedure addresses the procurement, use and storage of chemicals in the facility.

2. Responsibilities

There are several types of chemicals in use at laboratory in the Department of Chemistry and Pharmacy, Rani Durgavati Vishwavidyalaya, Jabalpur M.P . Those that are used in the maintenance of the building or the equipment are purchased by the Head of Department, who are also responsible for the proper use and storage of those chemicals. Chemicals used for cleaning and sanitation of the equipment are purchased by either the Head of the Department Chemicals used in the laboratory are purchased by the department which is responsible for their safe use and storage. Both the Head and the store incharge share responsibility for the safe storage and use of cleaning and sanitation chemicals. The proper use of those chemicals is the responsibility of the Chemical store incharge and the Department Regulatory Coordinator.

3. Procedure

When a department wants to order a chemical that has not been previously used at Laboratory, they will obtain a Specification Sheet and an SDS (which may be contained in the same document) from the manufacturer or supplier. The departments will then fill out a New Chemical Purchase Request, attach the Spec Sheet and SDS, and submit it to the Department Regulatory Coordinator for approval. The Regulatory Coordinator will perform a risk assessment for use and storage of the chemical determine if it can be safely stored and used at Department laboratory, and if any additional PPE, training, storage facility, or safety equipment (fire extinguisher, shower, etc.) is needed. The New Chemical Purchase Request will be completed with either approval, denial, or additional equipment needs filled out, and sent back to the requesting department, within 10 working days. The storage requirements


(डॉ. पी. प्रदीप)
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Jabalpur (M.P.)



APPENDIX B - NFPA 704 HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

5. Hazardous Chemical Management System

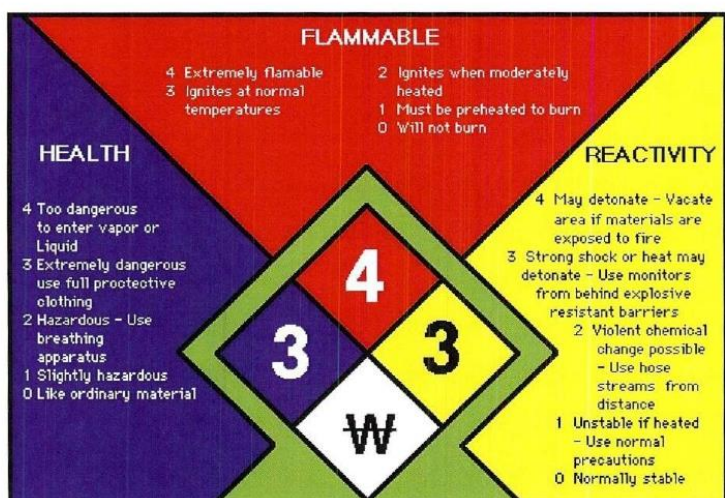
- 4 Deadly: Even the slightest exposure to this substance would be life threatening. Only specialized protective clothing, for these materials, should be worn.
- 3 Extreme Danger: Serious injury would result from exposure to this substance. Do not expose any body surface to these materials. Full protective measures should be taken.
- 2 Dangerous: Exposure to this substance would be hazardous to health. Protective measures are indicated.
- 1 Slight Hazard: Irritation or minor injury would result from exposure to this substance. Protective measures are indicated.
- 0 No Hazard: Exposure to this substance offers no significant risk to health.

FLAMMABILITY (Red)

- This substance is very flammable, volatile or explosive depending on its state. Extreme caution should be used in handling or storing these materials.
- 3 Flash Point Below 100° F: Flammable, volatile or explosive under almost all normal temperature conditions. Exercise great caution in storing or handling these materials.
 - 2 Flash Point Below 200° F: Moderately heated conditions may ignite this substance. Caution procedures should be employed in handling.
 - 1 Flash Point Above 200° F: This substance must be preheated to ignite. Most combustible solids would be in this category.
 - 0 Will Not Burn: Substances that will not burn.

REACTIVITY (Yellow)

- 4 May Detonate: Substances that are readily capable of detonation or explosion Reactivity (Yellow) at normal temperatures and pressures. Evacuate area if exposed to heat or fire.
- 3 Explosive: Substances that are readily capable of detonation or explosion by a strong initiating source, such as heat, shock or water. Monitor from behind explosion.





Procedure for liquid chemical waste management:

- Perform liquid chemical waste management in a fume hood. Mixing of liquid waste may generate toxic or corrosive aerosols.
- Check the container label to assure that waste is being added to the correct container.
- The container must be in secondary containment, i.e. large plastic bin or bucket.
- Uncap the container.
- Use a funnel sufficient for the size of the container and volume of waste being added.
- Slowly add the waste, watching for any unintended reactions. If you observe a reaction, immediately stop adding the waste, close the fume hood sash and contact DEHS.
- After the waste has been added, remove the funnel and seal the container with the cap.
- Another option for liquid waste management is to use a specially designed waste funnel called ECO-Funnel. Go to Safety Ecological Funnels for more information.

Procedures for solid waste management:

- Go to Laboratory Solid Waste Disposal Set-Up and Laboratory Solid Waste Disposal Procedures for information and guidance on how to set up your solid chemical waste management program in your lab.
- Obtain and label a proper container as described above.
- Open the lid to the container and unseal the bag.
- Add the waste.
- Seal the bag with a bag closure tie or large binder clip.
- Reseal the lid.

Storing Waste Materials

Proper storage of chemical waste is extremely important. Explosions have occurred on campus that are attributed to improper storage of chemical waste. If you improperly label a container, other laboratory personnel unknowingly may add incompatible material to the container. For example, if an organic solvent solution is added to a container that is not labeled or labeled as an aqueous inorganic acid, and a fellow researcher may generate an inorganic nitric acid solution and add it to the container. Nitric acid and organic solvents are extremely incompatible and the container over a short period of time generates pressure and explodes. Adhere to the following procedures on chemical waste storage to protect the health and safety of others, protect the University's facilities and to keep the University in compliance with all federal, state and local regulations:

Waste containers must remain closed or sealed at all times, except when waste is being added or removed from the container.

Liquid waste containers must be stored in secondary containment systems according to hazard class.

Store all bulk liquid waste containers in appropriate cabinets. DO NOT store bulk liquid



chemical waste containers in fume hoods that have active experiments or reactions occurring.

Flammable Cabinets

Corrosive Cabinets

Under Fume Hood Cabinets

Do not allow excess accumulation of chemical waste to build up in your lab.

Containers can only be filled to a maximum 90% full. Head space is needed for expansion and/or ease of dispensing.

Use this form to request disposal of hazardous materials and chemical waste.

| Chemical/Material to be disposed | Quantity | Location – Building, Room #, etc. | Contact Person- Name, phone # |
|----------------------------------|----------|-----------------------------------|-------------------------------|
| Zinc chloride | 200 gm | Phar. Chemist lab | Rahul Nayak |
| Iron chloride | 300 gm | Phar. Chemist lab | Arun Barga |
| NaOH | 200 gm | Phar. Chemist lab | Arun Barga |
| fumaric Acid | 100 gm | organic lab | Puspendra Barga |
| Potassium chromate | 150 gm | organic lab | Puspendra Barga |
| Ammonium chloride | 200 gm | Pharmaceutical lab | Arun Barga |
| Oxalic acid | 100 gm | Phar. Chemist lab | Arun Barga |
| Lead acetate | 100 gm | organic lab | Puspendra Barga |
| Chromic Acid | 250 ml | organic lab | Puspendra Barga |
| Perochloric Acid | 100 ml | Phar. Chemist lab | Arun Barga |
| | | | |
| | | | |
| | | | |

(Signature)
 (डॉ. पी. के. खरे)
 Prof. & Head
 Department of Postgraduate Studies
 & Research in Chemistry & Pharmacy
 रानी दुर्गावती विश्वविद्यालय, जबलपुर
 Jabalpur (M.P.)