

INDUSTRIAL VISIT REPORT

INDUSTRIAL SAFETY MANAGEMENT & PROCEDURES

At

AGRI SEARCH INDIA PVT. LTD.

PIMPALNARE, NASHIK



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1. INTRODUCTION OF THE INDUSTRY

Agri Search India Pvt. Ltd., established in the year 2000, is a certified organization engaged in manufacturing, wholesaling, and trading a superior quality range of Bio Fertilizers, EDTA Chelates, Amino Acid Chelates, and Micro Nutrient Mixture Fertilizers. The facility at Pimpalnare, Nashik, integrates advanced chemical processes with a strong commitment to sustainable and safe operations. The company is **ISO 9001:2015 certified**, reflecting its dedication to quality, which is intrinsically linked to a robust safety management system.

- **Key Safety-Oriented Observations:**
 - Production involves high-risk activities like chemical blending, microbial fermentation, and operation of machinery like Pulverizers, Mixers, and Packaging Machines.
 - Safety is embedded at every stage, from raw material handling (chemicals, minerals) to the final dispatch of products.



2. SAFETY POLICY & STATUTORY COMPLIANCE

Agri Search's safety policy is strategically aligned with national statutes and international standards, demonstrating a proactive safety culture.

- **Core Compliance Frameworks:**

- The Factories Act, 1948 & Maharashtra Factories Rules, 1963
- ISO 45001:2018 (Occupational Health & Safety Management System)
- Environment Protection Act, 1986

- **Key Elements of the Safety Policy:**

- **Zero-Accident Vision:** A core organizational goal.
- **Safety Committees:** Regular monthly reviews are conducted.
- **Near-Miss Reporting System:** Encourages proactive hazard identification without blame.
- **Contractor Safety Management:** Ensures third-party workers adhere to site safety rules.

- **Positive Safety Practices Observed:**

- ✓ Formal Safety Management System in place
 - ✓ Statutory Compliance with Factories Act & ISO standards
 - ✓ Emergency Preparedness with drills and equipment
 - ✓ Basic PPE Protocol established
 - ✓ Risk Assessment methodologies implemented
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3. HAZARD IDENTIFICATION & RISK ASSESSMENT (HIRA)

The company employs **Hazard Identification and Risk Assessment (HIRA)** and **Job Safety Analysis (JSA)** to systematically evaluate and control workplace risks.

- **Major Hazards & Control Measures Identified:**

Hazard Type	Example from Agri Search	Control Measures Implemented
Chemical Exposure	Handling acids, powders, microbial cultures	Fume hoods, mandatory PPE, MSDS availability
Mechanical Hazards	Pulverizers, Band Sealers, Screw Conveyors	Machine guarding, Lockout-Tagout (LOTO) procedures
Ergonomic Risks	Manual lifting of raw material bags	Use of trolleys, posture training
Fire & Explosion	Combustible dust, electrical panels	ABC-type fire extinguishers, dust extraction systems

- **Hierarchy of Controls Applied:** Elimination, Substitution, Engineering Controls, Administrative Controls, and PPE.
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4. FIRE PROTECTION & PREVENTION SYSTEM

The facility is comprehensively equipped to prevent and combat fire emergencies.

- **Systems in Place:**

- ABC-type fire extinguishers placed at strategic locations.
- Automatic smoke detectors and fire alarm systems.
- A fully functional hydrant system with regular pressure monitoring.
- Clearly marked and illuminated emergency exits.

- **Training & Drills:**

- Monthly fire drills to ensure employee familiarity with evacuation procedures.
- Specialized training for designated Fire Wardens.
- Evacuation route maps displayed prominently across the facility.

- **Identified Issues:**

- Combustible dust accumulation on surfaces.
 - Improper electrical panel clearance.
 - Missing "No Smoking" signage in critical areas.
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5. PERSONAL PROTECTIVE EQUIPMENT (PPE) & SAFETY SIGNAGE

- **Mandatory PPE:**

- Safety Helmets
- Nitrile/Chemical-resistant Gloves
- Safety Shoes with steel toes
- Goggles, Ear Plugs, and Respirators

- **Safety Signage System:**

- Color-coded zones: Red (Danger/Hazard), Green (Safe/Emergency Exit), Yellow (Caution).
- Glow-in-the-dark signs for visibility during power failures or night shifts.
- Signage conforms to IS 9457 and IS 12349 standards.

- **Safety Enhancement Recommendations:**

- Implement Permit-to-Work system for hazardous tasks.
 - Install local exhaust ventilation systems.
 - Upgrade to interlocked machine guards.
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6. EMERGENCY PREPAREDNESS & RESPONSE PLAN

The company has a detailed **Emergency Response Plan (ERP)** to handle various incident scenarios.

- **Key Features of the ERP:**

- A dedicated emergency control room.
- Well-equipped first-aid stations with trained responders.
- Chemical spill kits deployed in high-risk areas.
- Formal tie-ups with nearby hospitals.

- **Mock Drills:**

- Conducted quarterly.
- Scenarios include fire outbreaks, chemical spills, and medical emergencies.

- **Immediate Corrective Actions Required:**

- Within 24 hours: Conduct combustible dust cleaning campaign.
 - Within 7 days: Install missing machine guards.
 - Within 30 days: Develop comprehensive LOTO procedures.
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7. WASTE MANAGEMENT & ENVIRONMENTAL SAFETY

Agri Search adheres to the **Environment Protection Act, 1986** and **Hazardous Waste Management Rules**.

- **Observed Practices:**

- Segregation of waste into organic, recyclable, and hazardous streams.
- Safe and authorized disposal of expired chemicals and contaminated materials.
- Composting of biodegradable organic waste.
- Maintenance of green belts and rainwater harvesting systems.

- **Safety Culture Development:**

- Establish safety committee with worker representation.
 - Implement safety recognition program.
 - Conduct safety leadership training for supervisors.
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8. OBSERVATIONS, LEARNING & RECOMMENDATIONS

- **Key Learnings:**

- The safety culture is proactive and integrated.
- Workers demonstrated good awareness of SOPs and hazard communication.
- Practical application of HIRA and JSA models was observed in real-time.

- **Identified Gaps & Recommendations:**

Gap	Recommendation
Occasional non-compliance in PPE usage	Install biometric systems at zone entry points
Basic waste segregation bins	Introduce color-coded, labeled bins
Limited digital safety monitoring	Implement a digital dashboard for real-time monitoring

9. CONCLUSION

The industrial visit to Agri Search India Pvt. Ltd. was an immensely enriching and transformative experience. It successfully bridged the gap between the theoretical knowledge gained in the ADIS curriculum and its practical application in a live industrial environment. The company's unwavering commitment to safety, statutory compliance, and continuous improvement provides an exemplary model for aspiring safety professionals. The insights gained into safety management systems, risk assessment methodologies, and emergency preparedness will be invaluable assets for our future careers in the field of Industrial Safety.
