



**GOVERNMENT OF THE PUNJAB
SPECIALIZED HEALTHCARE &
MEDICAL EDUCATION DEPARTMENT
(STRATEGIC MANAGEMENT AND INTERNAL POLICY UNIT)**

(INVITATION FOR SHORT CONSULTANCY)

The Strategic Management and Internal Policy Unit (SM&IPU), Specialized Healthcare & Medical Education Department invites applications for the short consultancy services for a period of six months as **Monitoring / Introduction of Hospital Waste Management Regime in Tertiary Care Hospitals in Punjab** on Terms Of Reference (TORs) attached below which may be downloaded from the website of the Specialized Healthcare & Medical Education Department. The applications must be submitted within 7 days of the publication of this advertisement. The applications must contain details / description along with CV of the applicant having eligibility and the qualification as mentioned in TORs from the recognized University / Institution with relevant experience as mentioned in the TORs. No TA/DA is admissible.

Secretary
Government of the Punjab
Specialized Healthcare &
Medical Education Department

TERMS OF REFERENCE (TORs) FOR INDEPENDENT INDIVIDUAL CONSULTANT

i. Introduction

Specialized Healthcare & Medical Education Department oversees 56 tertiary care hospitals having cumulative bed strength of approx. 34,000. These hospitals are generating ~10,000 kg of infectious waste per day which may increase upto 15,000 kg per day in future. Effective management of this waste is crucial to ensure environmental safety and public health. For this purpose, an ADP Scheme titled "Introduction of Hospital Waste Management Regime in Tertiary Care Hospitals in Punjab" was introduced with the approved cost of ~1569 Million having gestation period till December 2024. This ADP Scheme is proposed to be revised with extension of gestation period till June 2026 at the total cost of ~4,000 Million. The scope of scheme includes;

- Outsourcing of Waste Management Services for collection of infectious waste from wards and its transportation to the disposal sites.
- Procurement of 3 Microwave Shredder Systems.
- Procurement of 7 Refrigerated Yellow Vehicles for transportation of infectious waste.
- Fabrication of 14 Yellow Rooms for temporary storage of waste.

This scheme being critical in nature, a major project in infection control and involving expenditure of Billions of Rupees warrants a thorough evaluation by an expert having relevant expertise. For this purpose, an independent individual consultant may be hired as per Rule 46 of PPR 2014, through non-development.

Background

- **Existing Waste Management Practices:** Infectious waste is currently managed through basic waste segregation, collection, and disposal processes. There may be a lack of standardized practices across facilities.
- **Previous Studies:** No comprehensive studies evaluating the waste management regime in tertiary care hospitals under SHC&MED have been conducted.
- **Challenges Identified:** Inefficiencies in collection and disposal, and inadequate waste segregation and transportation mechanisms.

Implementing Agencies

The consultancy will be supervised by the Strategic Management & Internal Policy Unit, SHC&MED.

Project Location and Geographical Area to be Covered

The consultancy will cover 56 tertiary care hospitals under SHC&MED across Punjab, including their waste collection, transportation, and disposal mechanisms.

Ready

ii. Objectives of Consultancy

Overall Objectives

To evaluate the existing hospital waste management practices and recommend sustainable solutions to ensure compliance with environmental and public health standards.

Specific Objectives

- 1. Conduct a comprehensive evaluation of current practices in waste management across hospitals.
- 2. Identify gaps, deficiencies, and inefficiencies in waste segregation, collection, transportation, storage, treatment, and disposal.
- 3. Ensure compliance with national/provincial regulations and standards for infectious waste management.
- 4. Develop actionable recommendations for short-term and long-term improvements.

iii. Scope of Work

General Scope of Work

The consultant will be required to.

- 1. Review existing practices for waste collection, segregation, transportation, and disposal.
- 2. Conduct on-site assessments of hospitals and evaluate current systems and equipment.
- 3. Engage with stakeholders to gather insights on the current challenges and potential improvements.
- 4. Benchmark practices against national and international standards.

Review

iv. Time duration

Time duration is 06 months. *consultancy will commence from the date of award of contract to the consultant*

Detail Description of Assignments

- 1. **Review Existing Practices:**
 - o Analyze the existing waste collection, segregation, storage, transportation, treatment, and disposal methods.
 - o Assess the utilization of existing equipment and infrastructure, including incinerators and outsourced services.
- 2. **Field Visits:**
 - o Conduct site visits to hospitals to observe on-ground practices.
 - o Evaluate waste segregation, collection, temporary storage (yellow rooms), and disposal processes.

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- Collect data on waste generation, composition, treatment costs, and compliance with regulations.
 - Analyze waste transport mechanisms, including refrigerated yellow vehicles.
4. **Stakeholder Consultations:**
 - Engage hospital staff, waste management service providers, and government agencies to identify challenges and gather feedback.
 5. **Benchmarking:**
 - Research and analyze best practices in hospital waste management from national and international case studies.
 6. **Development of Recommendations:**
 - Propose actionable recommendations, including the optimal use of microwave shredders, refrigerated vehicles, yellow rooms, and other equipment.
 - Include short- and long-term strategies with an emphasis on cost-effectiveness, feasibility, and sustainability.

iv. Reporting/Deliverables with Timelines

The consultant will deliver the following reports:

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1. **Inception Report (2 Weeks):** Detailed work plan, methodology, and timeline.
 2. **Interim Report (3 Months):** Preliminary findings, identified flaws, and initial recommendations.
 3. **Draft Final Report (5 Months):** Comprehensive report including all findings, detailed recommendations, and proposed strategies.
 4. **Final Report (6 Months):** Revised report incorporating feedback from SHC&MED stakeholders.

v. Expert Required

Key Requirements

- **Qualification:** Advanced degree in Environmental Science, Public Health, or Waste Management.
- **Experience:** Minimum 10 years of experience in infectious waste management with healthcare expertise.
- **Role:** Conduct field visits, analyze data, and finalize recommendations.
- **Duration:** 6 months.

vi. Role of Client

The client (SHC&MED) will:

1. Facilitate access to hospital sites and provide necessary data.
2. Review and provide feedback on reports.
3. Provide timely payments to the consultant.

Professional Liability of Consultant

The consultant shall:

1. Ensure confidentiality of all data and findings.
2. Deliver high-quality reports within agreed timelines.
3. Be liable for any lapses in compliance with agreed terms or deviations from professional standards.
4. Professional liability as stated in the prevalent conduct and practice of consultant and as given under rule-54 of Punjab Procurement Rules, 2014 shall be applicable to the consultant.

