

**Notice Inviting Tender for Comprehensive Gap Assessment of  
Bengal Chemicals & Pharmaceuticals Ltd**

---



**BENGAL CHEMICALS & PHARMACEUTICALS LTD**

(A Govt. of India Enterprise)  
Bengal Chemicals & Pharmaceuticals Limited  
6, Ganesh Chunder Avenue, Kolkata-700013  
West Bengal, India.

**Notice Inviting Tender Safety Audit for Comprehensive GAP Assessment of  
Bengal Chemicals & Pharmaceuticals Ltd.**

---

**NIT**

<b>Tender No</b>	<b>Tender No: BCPL/Safety/01/21-22</b>
<b>Tender Date</b>	31-12-2021
Address for Bid submission & Evaluation	Purchase Department Bengal Chemicals & Pharmaceuticals Ltd. 6 Ganesh Chunder avenue, Kolkata –700 013.
Last date & Time of Bid Submission	<b>14.01.2022 till 3:00 PM (15:00Hrs)</b>
Opening of Bid	<b>14.01.2022 @ 3:15 PM (15:15Hrs)</b>

**Process Safety Gap Assessment**

The scope of Risk Based PSM system implementation us is to identify the hazards, risk and to reduce the probability and consequences of an incident in the process facilities that would have a detrimental impact to the personnel plant, properties and environment through 14 system elements as per OSHA 1910.119 and culture elements of CCPS model.

Process safety management is an analytical tool focused on preventing releases of any substance defined as a "highly hazardous chemical" by the OSHA. Process Safety Management (PSM) refers to a set of interrelated approaches to managing hazards associated with the process industries and is intended to reduce the frequency and severity of incidents resulting from releases of chemicals and other energy sources (US OSHA 1993). These standards are composed of organizational and operational procedures, design guidance, audit programs, and a host of other methods.

PSM has 14 to 17 stages and cover entire plant as a package for Chemical Risk Management & Assurance.

**Scope of work:**

Study will include the following elements implementation for all 3 BCPL Factories

- Process Safety Culture
- Process Safety Leadership
- Process Safety Information
- Process Hazard Analysis
- Operating Procedures

## Notice Inviting Tender for Comprehensive Gap Assessment of Bengal Chemicals & Pharmaceuticals Ltd

---

- Training
- Contractors
- Mechanical Integrity
- Hot Work
- Management of Change
- Incident Investigation
- Compliance Audits
- Trade Secrets
- Employee Participation
- Pre-start up Safety Review
- Emergency Planning and Response
- Risk Assurance Program
- Fire Risk Gap Assessment

All of those elements mentioned above are interlinked and interdependent. There is a tremendous interdependency of the various elements of PSM. All elements are related and are necessary to make up the entire PSM picture. Every element either contributes information to other elements for the completion or utilizes information from other elements in order to be completed for a particular process of **Bengal Chemicals and Pharmaceuticals Ltd**.

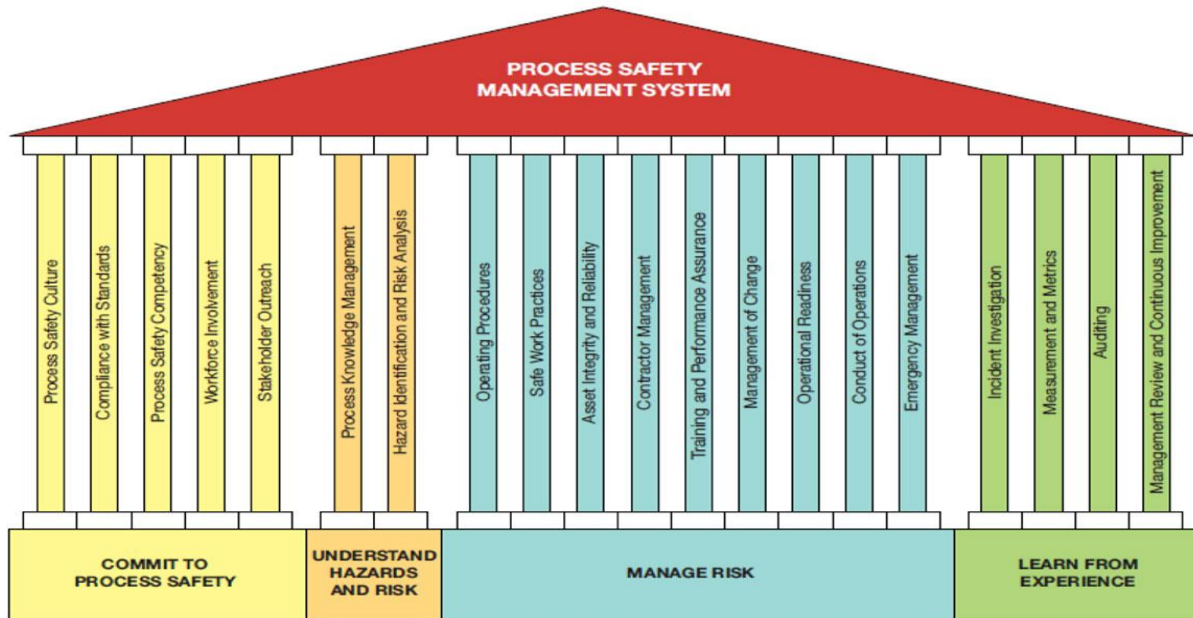


### **Process Safety Management Standard (PSM):**

It is a set of organized and systematic assessments of the potential hazards associated with an industrial process used to provide information intended to assist managers and employees in making decisions for improving safety and reducing the consequences of unwanted or unplanned releases of hazardous chemicals. It is directed towards analysing potential causes and consequences of fires, explosions, releases of toxic or flammable chemicals and major spills of hazardous chemicals, and it focuses on equipment, instrumentation, utilities, human actions, and external factors that might impact the process flow. Does the management identify the areas that need to be focused on to ensure process safety in the facility? Should attention be on Process safety Competency or should focus be on Workforce Involvement or should Asset Integrity and Reliability of the facility be strengthened?

# Notice Inviting Tender for Comprehensive Gap Assessment of Bengal Chemicals & Pharmaceuticals Ltd

A gap analysis is the first step in understanding the level at which a facility is, when it comes to process safety. We through an orderly, systematic and scrupulous approach carry out the gap analysis to achieve gaps and recommendations



## Part 2 Behavior Safety Gap Assessment

- Assess behavior-based safety (BBS)
- Assess the importance of behavior-based safety at workplace
- Current list the approaches of BBS
- Understand safety culture and safety influencers
- Assess of the BBS observation, feedback, and implementation process
- Identify risk through observation
- List barriers to safety
- Assess basic behavior principles
- Outline the factors influencing personal behavior
- Assess principles of behavior-based safety
- Understand the roles and responsibilities of management
- Recognize roles and responsibilities of employees
- Assess Implement effectively BBS Program
- Expect desired result of implementing BBS
- Submit Report

## Part 3 Hira Study complete plant

- To identify all the factors which may cause harm to workers?
- Consider the probability of incidents and assessing their severity
- Identify the existing safeguards and controls.
- Assess the risks and to make sure they are within acceptable limits.
- Recommendation to effectively counter the possibility of hazards
- Submit Report

# Notice Inviting Tender for Comprehensive Gap Assessment of Bengal Chemicals & Pharmaceuticals Ltd

---

## Part 4 Safe Operating Procedure Development of Plants-2 Per Plant

Develop the Safe Standard Operating Procedures services offered at Interfacing includes end-to-end level mapping of processes and their sub-processes. SOPs to your personalized template and process structures. The firm has to provide updates to project managers, including identifying risks and issues impacting the development of assigned SOPs. Communication is of utmost importance when implementing the SOP program for it requires that all employees to understand the motivation for and purpose of the initiative and with Interfacing's help and guidance and has to be designed in such a way that BCPL can maximize the value and reap the benefits of Standard Operating Procedures.

### Methodology

- Site visit with two consultants as Lumpsum
- Assess Documents
- Assessment plant process
- Complete scope
- Submit report in 15 days from visit
- Submit final report
- SOP submission
- HIRA report submission

### Qualification Terms

- PF and ESIC Registered
- Minimum 3 years of operations as a company
- Firm must have last year turnover of 50 lakhs and above in balance sheet
- Auditor must holding a B.Tech Degree and qualified from RLI for process safety, ISO45001 lead auditor
- Auditor need to have minimum 15 years' experience as auditor of industrial safety and conducted minimum
- 10 work completion certificates from client
- 5 PO copies from customers
- MSME Certificate to avail MSME benefits if bidder is registered MSME

### Rates

- Rates to be quoted individually for the following 3 plants of BCPL, inclusive of everything per plant, GST Shall be extra
- Payment in 30 days from the date of successful completion of job.

### Address of BCPL's 3 Plants:

Plant 1: 164, Maniktala Main Road, Kolkata – 700 054, West Bengal

Plant 2: B.T. Road, Panihati, 24 Parganas (North), West Bengal 700114

Plant 3: 84/23, Factory Area, Fazal Ganj, Kanpur, Uttar Pradesh 208012