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# TELOS CONSULTANCY SERVICES PVT LTD

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## Company Profile

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- Audit
  - ✓ Safety Audit / Fire Audit
  - ✓ Electrical Safety Audit including Thermograph
- Emergency Management Plan - Off Site and On Site
- Energy Audit
- Fire Detection and Protection System
- Hazop Study
- OSHAS 18001
- Preliminary Hazard Analysis (PHA)
- Risk Assessment
  - ✓ Fire Risk Assessment
  - ✓ Consequence Analysis
  - ✓ Quantitative Risk Assessment (QRA)
- Quantitative Risk Analysis
- Risk Survey / Inspection
- Valuation of Assets



## Introduction

Telos Consultancy Services (P) Ltd., (Telos) is a company managed by professional managers comprising former employees of Tata AIG Risk Management Services Ltd (Formerly known as Tata Risk Management Services – Division of Tata Sons Ltd).

Telos was incorporated in the year 2003 and continued to provide Consultancy Services to a wide range of industries.

Our technical team comprises engineers from various disciplines such as Chemical, Civil, Mechanical and Electrical.

***We advise clients on a wide range of audits / studies based on client specific requirements. Telos has hands on experience/expertise to meet the unique requirements of corporate clients.***

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## Technical Services/ Studies



### Safety Audit

A comprehensive study of all the likely exposures due to electrical faults, storages, and other hazards associated with the industries. Safety Audit is a statutory requirement under the Factories Act. Bureau of Indian Standard (BIS) have developed a code for Occupational Health and Safety called IS 14489. Telos has expertise in auditing for the requirements of this questionnaire.



### Electrical Safety Audit including Thermograph

The electrical safety audit of the plant basically looks into the details of the safety aspects of the electrical equipment, review of the operating and maintenance scheduling, testing procedures. In addition the electrical accident investigation / reporting formats are studied and commented upon. Electrical Safety Audit would help identify potential electrical hazards which when eliminated / reduced, would improve plant safety.

## Emergency Management Plan



### OFF-Site Disaster Management Plan (DMP)

Off-site Disaster Management Plan also known as the District Disaster Management Plan is the responsibility of the District Collector. Telos personnel have extensive experience in preparation as well as organizing mock drills to assess the level of preparedness of the District level authorities to handle a disaster.



### ON-Site Disaster Management Plan (DMP)

This study involves evaluation of an emergency like fire, explosion, toxic release or accidents which can occur during handling of hazardous material; the assessment of an emergency, raising and communication of alarm, wherein the primary objective would be "protecting life" by suggesting evacuation routes and means. This would also include identifying the responsibilities and duties of various officers in an emergency. Preparing an On-site Emergency Management Plan for handling emergencies is mandatory, for major accident hazard industries, not only for existing running plants but also for facilities in the planning stages.



### Energy Audit

Energy Audit is a systematic process of verification, monitoring and analysis of the energy consumption in any setup, with the objective of identifying energy waste areas and improving the energy efficiency of the operations, thereby saving on energy costs.



### Fire Detection & Protection

A Schematic layout design / review of the Fire Protection / Detection System for industries would be undertaken. Layout of hydrant system along with details of firewater requirements would be provided as per existing national / international codes. For existing Fire Protection & Detection Systems, recommendations would be provided where necessary.



### HAZOP Study

Hazard & Operability (HAZOP) Study is the application of a formal, systematic and critical examination of the process and engineering intentions of a process design. The potential for hazard is thus assessed and malfunction of individual items of equipment and the consequences for the whole system are identified. HAZOP is structured around a specific set of guidewords, and ensures significant coverage of all possible problems while allowing sufficient flexibility for an imaginative approach. HAZOP study is recommended during or after the detailed design stage of a plant and can be carried out on plants being set up as well as on operating plants.



OSHAS 18001 has been developed by BSI (British Standards Institution) to urgent customer demand for occupational health and safety management system against which their management systems can be assessed and certified. OSHAS 18001 has been developed to be compatible with the ISO 9001: 2000 (Quality) and ISO 14001: 1996 (Environmental) Management Systems Standards, in order to facilitate their integration if desired.



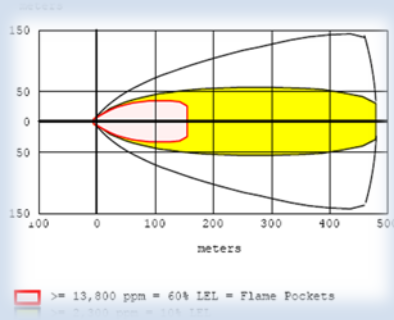
### Preliminary Hazard Analysis (PHA)

The Preliminary Hazard Analysis (PHA) identifies and analyses hazards during the concept, design and blueprint stages. Based on the analysis, recommendations are made to reduce / minimize the hazards and to plan the layout of the facility. PHA is used to evaluate hazards early in the life of a process.



### Fire Risk Assessment

To Identify areas which have a potential for Fire / Explosion Risk. The existing detection and fire-fighting system would be reviewed. The various systems such as fire hydrant and sprinklers would be studied and recommendations given for improvement.



### Consequence Analysis

This includes determination of affected distances for the identified Maximum Credible Loss Scenarios using computer aided software. The distances would indicate theradiation and over pressure level for flammable substances and vapour concentration for toxic chemicals. By using this technique, one can locate the areas of the site which would be affected in the event of an emergency. Consequence Analysis distances are incorporated in the On-site as well as Off-site Emergency Management Plan.



### Quantitative Risk Analysis (QRA)

Qualitative Risk Assessment (QRA) identifies potential physical hazard using structured techniques. Evaluation, Assessment and Quantification of hazards in terms of probability, magnitude, severity and frequency are also undertaken. The techniques adopted are Fault Tree Analysis, Consequence Analysis, Event Tree Analysis, Individual Risk and Societal Risk.



### Risk Survey / Inspection

TELOS has a separate cell for carrying out “Risk Surveys / Inspections” from underwriting perspective to enable insurers to ascertain the quality of the risk. The study emphasizes on the following:





Valuation of Assets is carried out on Different Purposes such as:

- Mergers and Acquisitions (M&A).
- Scheduling of Asset Replacement.
- Funding from Financial Institutions.
- Adequacy of Sum Insured for Insurance purpose.
- Revaluation of Assets for any other purpose.
- Insurance

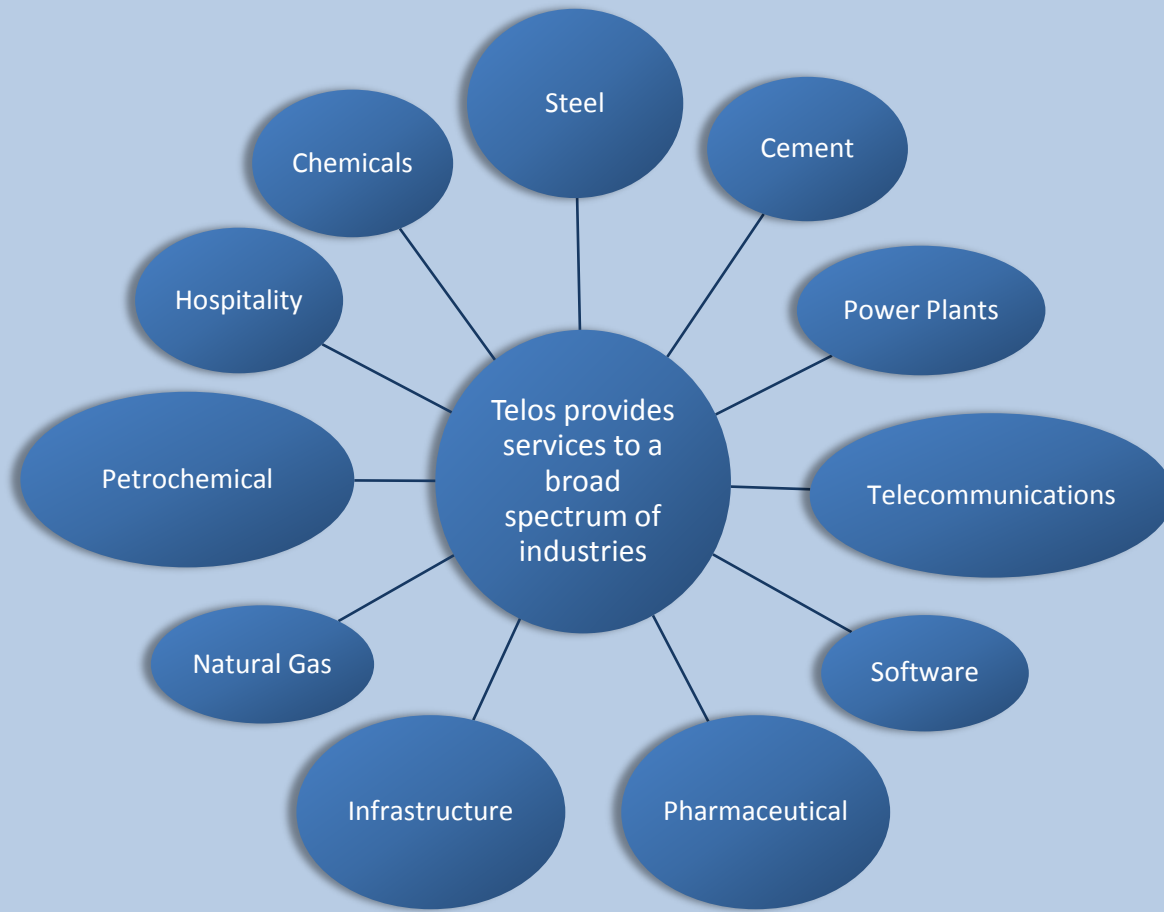
Asset Valuation for insurance is different from the standard accounting practices and TELOS advises on these special insurance valuation features which have a considerable bearing on the premium outgo and on the extent of monetary recovery in the event of a claim.

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**Clientele Separate List Attached:**

Telos has the privilege of providing services to a wide spectrum of industries (manufacturing/trade/service) as given below. For more details you can refer our website:

[www.telosconsultancyservices.com](http://www.telosconsultancyservices.com)



**CONTACT:**

Office No. 704, 7<sup>th</sup> Floor,  
Accord Classic,  
Aarey Road,  
Goregaon ( E ) Near Railway Station  
Mumbai – 400063

Contact no. : 022 – 26864506 / 9702078226

E-Mail: [satish.karnik@telosrisk.com](mailto:satish.karnik@telosrisk.com)  
[inquiry@telosconsultancyservices.com](mailto:inquiry@telosconsultancyservices.com)

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