
INNOVATIVE SERVICES

- **ENGINEERING**
- **ENVIRONMENTAL**
- **HEALTH & SAFETY**
- **GEOTECHNICAL**
- **LAND MARINE SURVEYS AND ASSESSMENTS**
- **AERIAL PHOTOGRAPHY**
- **SIMULATION STUDIES**





ASPPEC Environmental Consultants LLC, being in the forefront of environmental spectrum for the last few years is fortunate to have renowned clientele as a token of our good work in the domain we practice.

We believe in establishing new leads, center of excellence in various fields and providing exceptional services at projects design, construction, execution and operational stages, PMC, EPC, and development technology and solutions to cater the needs of the market.

Recently we are venturing out into wastewater treatment and Industrial Effluent Treatment Plants with a fully loaded workforce to achieve common goals.

Our principals / manufacturing: Our principal and manufacturing companies are based in Germany and Austria and we only provide certified, and CE marked components with the right integration to get the final solution.

MISSION

Our missions are to secure a prestigious position as a global services company. We intend to achieve excellence in our services and certifications. We will support our customers for environmental compliance, quality management system compliance, operational excellence, and achieve the targets and credits green building projects and energy reduction initiatives.

VISION

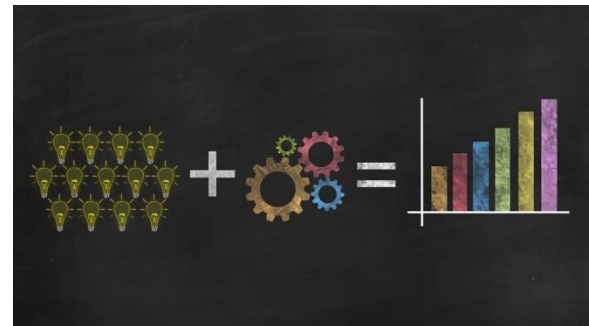
Asppec aims to offer a global team equipped with technical knowledge, experience and required competencies; ready to take challenges and ready to provide support to meet high expectations.

LEADERSHIP

Our team is comprised of experienced professionals who have thorough knowledge in the field, and who work on understanding the requirements of all stake holders involved; manufacturing, processing, government organizations, project management consultants and project honors to support them for necessary compliance, permits and smooth work flow. Dedicated to maintain the best quality of service, our team enables us to achieve a unique position in local markets and regionally.

STRENGTH

Asppec believes in the power of its people, and works for their welfare and growth, who ultimately become leaders.



OUR VALUES

INTEGRITY

At Asppec, we believe in doing what's right. We embrace the highest standards of personal and professional integrity. We never compromise our business principles. And we stay true to basic ideals that include good management, transparent accounting, and the delivery of long-term shareholder value.

We conduct our business using a valued practices and ways of working. These include an organizational structure that balances the operational and technical

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aspects of our Company; a focused business model that allows us to manage risk while pursuing continued growth; Practice and Risk Management teams dedicated to ensuring good professional practices and loss prevention; and training and development for all employees. As our company evolves, we continue to invest in our employees and training to enhance our client-service delivery.

The integrity of our board of directors sets the tone for our operations. Qualified and knowledgeable, our board members guide the management of our company's business and affairs while adhering to sound corporate governance practices.

STEWARDSHIP

Our board is responsible for the stewardship of our company. It participates in strategic planning process with senior management and periodically reviews management's performance on key strategic and operational objectives. Succession planning, particularly for the executive managers and line managers, and board compensation also come under board review. Other responsibilities include identifying the company's principal risks and regularly monitoring the current systems for managing these risks to protect shareholder value. Our board also defines the responsibilities of management and ensures the integrity of internal control and management information systems.

INDEPENDENCE

We adhere to corporate governance guidelines by maintaining a board structure in which a majority of directors are independent. As well, the board's two committees, the Corporate Governance and Compensation Committee and the Audit and Risk Committee, are both composed entirely of independent directors. Every board meeting includes a session held without management present. The Corporate Governance and Compensation Committee assess the board and its other committees' performance on an annual basis and may authorize individual directors to consult independent advisors at the company's expense.

INTEGRITY
STEWARDSHIP
INDEPENDENCE

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COMPREHENSIVE CONSULTING SERVICES

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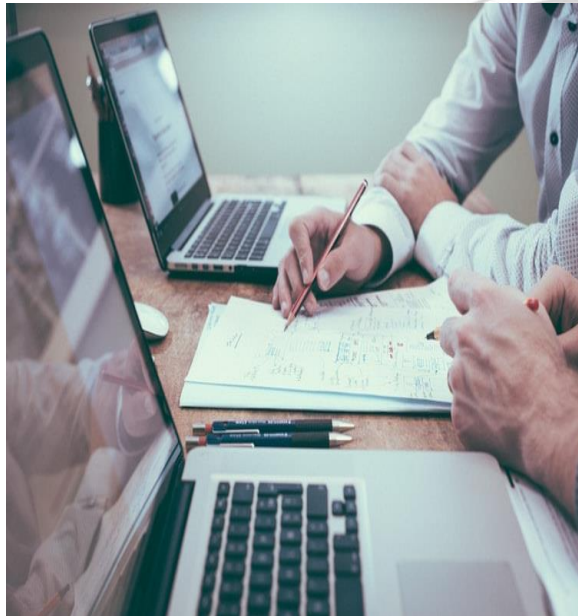
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COMPREHENSIVE CONSULTING SERVICES

ENGINEERING PROCESS DEVELOPMENT

Our team of engineers meets your needs to develop and design the process for your industry. Right from the concept design to the detailed design; introducing the state of the art technologies and latest inventions in the field, to get maximum output at As Low As Possible Risk Levels, design of the facility, warehouse etc.



ENGINEERING CONSULTANTS

Aspec provides consultancy services with the team of experienced and committed people which ensure the design and construction comply the expectations of project owner, local regulations, and international standards to help sustain the industry in constantly changing time and technology scenarios.

LAND & MARINE SURVEYS

Aspec has state of the art scanners, bathymetry modelling, inlet and discharge modelling, Marine fauna and flora assessments, land surveys, Arial Surveys using drones and scanning techniques, quantity surveys and reservoir Assessments.

GEOTECHNICAL INVESTIGATIONS

Increasing land use and trends towards high rise building and multidimensional structures demands sound foundations to withstand the seismic and climate challenges. Aspec geotechnical investigations help the engineers and designers to build stronger and sustainable structures. Our team helps to investigate the soil layers, investigate and identify the minerals and reserves for the mineral and exploration industry.



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ENVIRONMENTAL STUDIES AND PERMITTING

Environmental Studies are carried out as per national and international standards, Environmental Impact and Risk Studies based on field works, baseline studies and desktop assessment with vision and experiences, Environmental Surveys, Audits, Compliances Monitoring and reporting, Site Characterizations, Hazardous waste and contamination Assessments, and much more. Aspec covers all the Environmental Factors.



- Environmental Impact Assessments (EIA, EIAR, EIAS)
- Initial Environmental Examination (IEE)
- Environmental Audit (EA)
- Quality, Health, Safety & Environmental Plan (QHSE)
- Constructional Environmental Management Plans (CEMP)
- Environmental Management Plan (EMP)
- Environmental Management & Monitoring Plan (EMMP)
- Environmental Performance Report (EPR)
- Environmental and Social Impact Assessments (ESIA)
- Health & Safety Environmental Impact Assessments (HSEIA)
- Strategic Environmental Impact Assessments (SEIA)
- Marine Environmental Impact Assessments (MEIA)
- Mining Plans and Quarry Rehabilitation Plans
- Environmental Site Assessment
- Air Quality Studies & Modelling
- Phase I and Phase II Environmental Site Assessment (ESA)

ENVIRONMENTAL CONSULTANCY

Aspec aims to contribute for sustainable development by providing technical expertise in environmental studies, environmental monitoring, and environmental protection and remediation services for government and commercial sectors. Using our technical expertise, we offer efficient and cost-effective services in the following fields:





HEALTH AND SAFETY CONSULTANCY

- HSE Plan
- EHS Audits
- Hazard and Operability Study (HAZOP)
- Hazard Identification Study (HAZID)
- Quantitative Risk Assessments (QRA)
- Safety Audits

Aspec can work with your organization to ensure you are compliant with legislation and achieving a high performance in health and safety, and the environment and sustainability. Our Chartered Health and Safety and Environmental Practitioners will work closely with you to achieve tangible improvements to demonstrate to your stakeholders the positive impact of a high performance.

We carry out audits of your management system against externally certified standards including ISO 45001, ISO 14001, ISO 9001 and ISO 50001.

Risk assessment and HAZOP, HAZID and ENVID Studies

Our consultants provide an independent evaluation of organizational risk and corrective action: Manual handling, Display screen equipment, Fire, Workplace transport, Workplace heights, Control of Substances Hazardous to Health (COSHH), Hazard and Operability studies (HAZOPs), Health Hazardous Safety Studies (HAZID), Environmental Hazardous Safety Studies (ENVID), Hazardous Area Classification (HAC), Environmental plans and safety plans, Other health, safety and environmental services.

We also offer consultancy support on Accident Investigation, Fire Safety, Construction Design Management, Manual Handling, Occupational Hygiene and a range of environmental and sustainability services.

All consultancy work is managed through our quality system to ensure that you receive cost effective and pragmatic solutions within your timescales.

TRAININGS

Aspec aims improvement in workplace safety and progressive training to improve the public, private and industrial work environment. We provide a range of training to various levels of management and workplace. Our Training range from:

- Proficiency in Survival Crafts and Rescue Boats
- Fire Prevention and Fire Fighting
- Advance Fire Fighting
- Elementary First Aid
- Medical First Aid and Medical Care
- Personal Safety and Social Responsibility
- Personal Survival Technique
- Global Maritime Distress and Safety System





WASTE MANAGEMENT CONSULTANCY

- Waste Management Plan
- Waste Management Studies and Solutions
- Waste Audit Reports
- Waste Reduction Plans

Aspec combines skilled professionals and advanced technologies with a multidisciplinary approach to meet our customers' environmental project needs. We have successfully:

- ✓ Completed large number of environmental impact assessments, and environmental management plans.
- ✓ Conducted hundreds of site selection, characterization, evaluation and monitoring studies.
- ✓ Provided monitoring and control measures for air emission control and noise control
- ✓ Prepared environmental permit applications, compliance documents and impact assessments for various projects and sectors.
- ✓ Provided technical services for the new and emerging environmental issues.

ENVIRONMENTAL TESTING

Aspec has a range of testing and analysis services. Water quality analysis is provided for industries, government department and others in petroleum, mineral, food, industrial, manufacturing and other industries and municipalities. We offer a full range of testing for general minerals (Alkalinity, Calcium, Chloride, Fluoride, Hardness, Potassium, Magnesium, Sodium, Nitrate, Specific Conductance, Sulfate, Total Dissolved Solids, & pH); and general physical analysis (Color, Odor, & Turbidity).

As water quality testing laboratory, our analysis lab offers lead water tests, well water testing, drinking water testing, and drinking water analysis, waste water, underground water, among other water testing services.

Aspec laboratory services offers standard turnaround on soil and solid analysis, and testing services for industrial plants, waste haulers, commercial property owners and others.

Our soil testing lab analysis includes testing for metals, Asbestos, TPHg, VOCs, SVOCs, petroleum fuels and byproducts, PCBs, pesticides and herbicides.

Microbial testing includes Total Coliform, Fecal Coliform, E. Coli, Heterotrophic Plate Count, Legionella Testing and Risk Assessment etc.





COMPLIANCE MONITORING AND REPORTING

Aspec operates in accordance with a strict environmental monitoring and management programs. All monitoring plans for the clients are developed in consultation and approved by the Authorities and Ministries. Components of the environmental monitoring program include:

- Air Quality Monitoring (Ambient and Indoor)
- Emissions Inventories/Stack Emissions Monitoring
- Dust/Particulate Matters Monitoring (PM10, PM2.5, TSP, etc.)
- Noise Level Monitoring
- Vibration Monitoring
- Light/Lux/Illumination Monitoring
- Industrial Hygiene Monitoring
- Exposure Monitoring (VOC, etc.)
- Odour Monitoring



GOVERNMENT SERVICES

E-GOVERNMENT

Paper-based systems are increasingly being replaced with electronic and online solutions. Our e-government solutions touch on almost every aspect of everyday life. We help you make trade easier for millions of people around the world.

QUALITY, HEALTH, SAFETY AND ENVIRONMENT (QHSE)

End-users, the general public and stakeholders need to see how QHSE issues are managed in the day-to day life of an organization and its activities. We offer a broad range of quality, health, safety and environmental management solutions to suit your needs.

ROAD SAFETY & VEHICLE MANAGEMENT

Improving road safety protects transport users by offering everything from calibrating enforcement devices (such as speed cameras) to vehicle inspection, data management and reporting, driver examination and vehicle registration. Our road safety solutions also extend to traffic system implementation and management and traffic lights homologation (type testing).

Aspec also provided consultancy to develop world class roads with all the safety and operational provisions have been considered and risks related to road used are reduced.



ASBESTOS SURVEYS AND ASSESSMENTS

Buildings, Homes and Areas are surveyed for the presence of asbestos and the information is used to produce an Asbestos Report, which contains an Asbestos Register and Asbestos Management plan.

An Asbestos Refurbishment Survey is required to find the presence of any Asbestos Containing Materials (ACM's) before any Refurbishment works are carried out.

An Asbestos Demolition Survey is required before the demolition of a property can take place.

An Asbestos Report is produced once an Asbestos Survey has been carried out on your property. This Asbestos Report includes the details

of any Asbestos found during the Asbestos Survey.

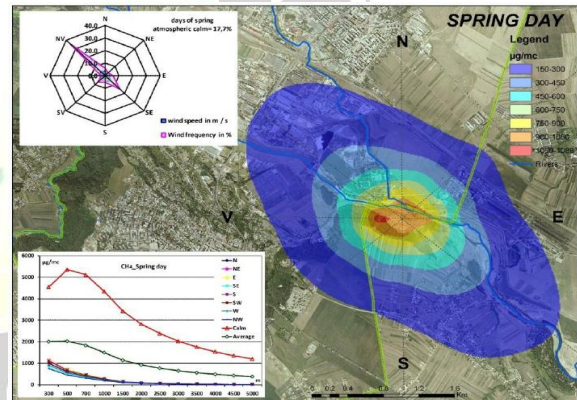
All our Samples are sent to UKAS and ISO 17025 accredited independent laboratories, for extensive testing both qualitative and quantitative, to produce much reliable reports and management plans for ACM's.

As part of Asbestos Management Plan, a yearly re-inspection survey should be carried out to assess the risk of any Asbestos Containing Material (ACM) that remains in situ. Asppec offers full consultancy from the initial assessment, refreshment, ACM's management and final inspections to issue ACM CLEAR reports.

AIR & ODOUR DISPERSION MODELLING STUDIES

Air Dispersion Modelling, Noise and Acoustics Dispersion Modelling, Marine and Tides Modelling studies, Discharge and Dilution Models are a few examples which help the stake holders and permitting authorities a clear picture of transmittance of impacts of a particular chemical and physical factor in the existing environmental condition.

We always equip the environmental and health and safety studies with model projections and developments to evaluate better and make the necessary decisions/judgement/permits.





THIRD PARTY INSPECTION

The Inspection activities are carried out based on the recommended regulations, Codes and Standards, Recommendations by Manufacturers, International accreditation and best Industry Practices. All the equipment need to undergo visual examination as per recommended standards to ensure good physical condition. Upon successful completion of Inspection a report is provided indicating compliance of the equipment and machinery with recommendations on its fitness etc. When any equipment not found in compliance a report is issued with a complete description as to why the equipment failed.

✓ INSPECTION CERTIFICATES

The Third Party Inspection, Testing and Certification will be provided to indicate compliance of the equipment and machinery with safety requirements and its fitness for use.

✓ INSPECTION REPORT

When the equipment and machinery do not comply with the requirements of the relevant standard, an Inspection report shall be issued, the full description as to why the equipment and machinery failed the Inspection.

ASPPEC PROVIDES THIRD PARTY INSPECTION & CERTIFICATION FOR THE FOLLOWING:

LIFTING EQUIPMENT

ASPPEC has qualified and trained Engineer(s) and technicians to carry out Inspection, Testing and Certification of Lifting Equipment such as Mobile Crane, Overhead Crane, Window cradle, Tower Crane, Forklift Truck, Chain Block, Monorail, Lorry Cranes, and Man lifting Basket.

LIFTING ACCESSORIES

ASPPEC provide inspection, testing and certification also for Lifting Accessories such as Shackles, Wire rope slings, Hooks, Chain Sling, Webbing Sling, etc..

PRESSURE VESSELS

Asppec has qualified and trained Engineer(s) and technicians to carry out Inspection, Testing and Certification of Pressure Vessels and Boilers by through visual examination. Witnessing Functional Tests, Wall Thickness measurements to determine thickness losses and Hydro-static testing pressure and future working pressure as per Industry Codes & Standards.

The Inspection, Testing and Certification can be carried out for the classification of boilers which includes - Fire tube boilers, Water tube boilers, "D" type boilers, "A" type boilers, "O" type boilers, Electric boiler and various other types. (Pressure Vessels, Air Compressor, Air receiver, Boiler, etc..)

EARTH MOVING EQUIPMENT

ASPPEC provide inspection, testing and certification also for Excavators, Road roller, Bulldozer, Wheel loader, Dump Truck, etc..

NON DESTRUCTIVE TESTING (NDT)

- Welding Inspection
- Visual Inspection
- Ultrasonic
- Thermography

INSPECTION OF ELECTRICAL AND INSTRUMENTATION PRODUCTS

This is complemented by process specific expertise in disciplines such as manufacturing, welding and fabrication, instrumentation and control systems, coatings and non-destructive testing.

Our inspectors detect problems earlier in the supply process, saving clients / manufacturers re-work and replacement costs as well as ensuring that the product / equipment is delivered on time.

In order to keep pace with changing technology and service requirements, we are dedicated to the continued training, development and competency validation of our staff.

VENDOR INSPECTION SERVICES

Aspec provides a complete solution, covering every aspect of Supply Chain Management. Our International network of competent, qualified experts is strategically located to serve the world's major industrial suppliers, and commissioning industries. From one-day visits to long-term onsite inspections and verification, our technical specialists are available to carry out inspection and verification services whenever and wherever required.

EXPEDITING

Large-scale projects and the supply of critical goods and equipment can involve complex international supply chains, with items procured from suppliers in multiple countries.

Avoiding late delivery from any one supplier that can have an impact on the whole chain, ensuring projects from being completed on time and on budget.

Expediting means taking any action necessary to ensure that deliveries are made on time and to specification.

TECHNICAL AUDITING

We can help Customers gain a complete understanding of vendor capabilities through a systematic and independent vendor assessment. Our reliable, accredited auditors carry out internal audits, allowing companies and their vendors to meet quality standards without the cost of retaining an internal auditor on staff. We also provide guidance for corrective and preventative actions in light of an audit's findings and follow up assessments to confirm the effective implementation of those actions.

Aspec also provide Approved Vendor Lists audits, allowing you to maintain a current list of approved suppliers in preparation for future projects.



AERIAL PHOTOGRAPHY AND SIMULATION STUDIES

Aspec carries out drone based photography, Areal scanning for pollutants temperature and other variables and factors, our team of experts further makes this data valuable and meaningful for the decision makers and project proponents.

INDUSTRIAL HYGIENE ASSESSMENTS

Occupational and personal hygiene assessment is getting critical with time as scientists are identifying the pollutants and indicating their thresholds that may short term or long term impact on the human health while on work.

Aspec ensure safe work places!

TESTING AND EVALUATION OF EXPOSURE LEVELS

Aspec has a unique list of more than 1,000 target compounds that may have adverse to severe effects on human health directly or indirectly. It range from Asbestos to Crystalline Silica, from Benzene to Mercaptans, PNOR, PAH, Amines, Inorganic Acids, and traces of other contaminants and pollutants.

Aspec has capability of multiple sources sampling and reporting with low detection limits and analysis limits confidence and reliability of the reported values.

Our target compounds can be in air, water, soil, or oil/water based hazardous sledges.

WATER CONSERVATION AND WATER MANAGEMENT CONSULTANCY

Water scarcity is major threat to the modern world and especially the developing nations. Aspec offer its consultancy services to establish dams and water reservoirs, makes its life assessment and engineering tools and strategies maintain the dams and water reservoirs for the best use of rain water.

Water will be the best inheritance to our upcoming generations!



SYSTEM DEVELOPMENT ASSESSMENT AND CERTIFICATION

Getting a system in your organizations ensures efficient use of manpower and resources and maximizes the outputs. We have a team of accredited consultants and lead auditors which help to develop system for an organization, department and process. We help to develop, quality, Environment, Health Safety, Energy Management, Intellectual and electronic data safety and security system and Hospital and Food Outlet Management System. Let's comply with ISO, IAF, OSHA, NOISH, EUSRR, RSR, Well Certification, LEED, and Green Building, & make part of your system.

Sewage and industrial wastewater treatment systems

Using the latest technologies, techniques and schemes we convert industrial and municipal wastewater into useful water. Our unique scheme with our patented Plasma-electro-coagulations based water treatment systems is helping many industries and communities to recycle the waste water and help to conserve the natural resource.

Our goal is Zero-Discharge-to-Environment (ZDE) enabling conservation of water resources and reducing the load of wastes in the ecosystem.

We provide integrated and containerized solutions to cater the specific requirements for your wastewater treatment.

Social and cultural impact assessments

We are historically traditioned and directed by our culture and heritages. The rapid growth in human development may have direct impacts on the heritages and protected areas and cultural norms.

Aspec carries out assessment of the impacts of the development on the heritage, culture, protected and preserved areas and species.

Cultures and Traditions Reflect national values!



PROJECT MANAGEMENT CONSULTANCY

A project management consultant is a customized management structure that standardizes the project-related governance processes and facilitates the sharing of resources, methodologies, tools, and techniques. The responsibilities of a project management company can range from providing project management support functions to actually being responsible for the direct management of one or more projects. There are three types of project management structures in organizations, each varying in the degree of control and influence they have on projects within the organization, such as: Supportive, Directive, Controlling.

Aspec have extensive experience of providing a total project management service for all types of building, education, healthcare, transportation, power, defense, nuclear, oil and gas and water projects

Aspec pride on providing a tailored project management service that assists our clients in establishing their options, defining their project needs and managing project delivery – we become your trusted advisor.

Aspec provide high caliber project teams for projects of all sizes and complexities. This ranges from the provision of integrated multi-skilled teams to the appointment of single project managers.

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EPC CONSULTANCY

From feasibility to the confirmation of its investment, in an environment that it doesn't necessarily control, the project owner must be able to rely on assistance for complying with regulatory procedures as well as for meeting cost objectives and deadlines. The EPC consultant therefore acts as a trusted partner.

Under an EPC consultancy mandate, Aspec acts on behalf of its client, providing cross-business and multidisciplinary support as part of operational management (Public) or assistance (private).

Aspec supervises work carried out, provides financial monitoring of the operation, formalises objectives, guides choices and helps the client with any decisions they must make, within the time frames required for undertaking the studies and work.

Through its experience and technical, administrative and legal knowledge, the EPC consultant also acts as an interface with multiple stakeholders: technical inspectors, coordinators, businesses, planning departments, etc.

Developers must take into account the societal and economic impact of major infrastructure projects on populations, from their implementation to their closure for time-specific projects (such as mining projects). Acceptability is a key factor for success.

We conduct socio-economic impact studies, suggest mitigation measures, develop plans for resettlement, and help make major projects into catalysts for development.



DESIGN AND ENGINEERING CONSULTANCY

Aspec Services has team of Engineers and Design Consultants to meet your needs for the plants design, process design, industrial unit design and building design. We do provide schematic designs, layouts, detailed designs, and BOQ and BOM as per needs.

Aspec provide consultancy for the tender and vendor management and supervision to ensure the construction is meeting the design criteria and local and international regulations.



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