



C.R.M.P

COST & RISK MANAGEMENT PROFESSIONALS



CAPABILITY STATEMENT

Our business is about creating real value for our clients.

Without exception.

www.crm.p.co.za

INTRODUCTION

Cost and Risk Management Professionals is a project focused team of experienced and dedicated specialists who ply their trade to the Infrastructure, Mining, Industrial and Petrochemical industries, serving project owners, project funders and project engineers. With offices in Johannesburg and Cape Town, Cost and Risk Management Professionals offer full service across the country, the continent and the globe.

SERVICES / CORE CAPABILITIES



QUANTITY SURVEYING

CRMP provides a full range of traditional quantity surveying services, drawing on traditional skills gained over many years in the industry and latest business practice such as Building Information Modelling.

FEASIBILITY STUDY PHASE

- Development of project Work Breakdown Structure.
- Conceptual, pre-feasibility and feasibility estimates using parametric factors, rough quantities or detailed quantities.
- Preparation of preliminary cost estimates and cost plans of the development project
- Trade-off studies.





PRE-CONTRACT PHASE

- Advice on tendering procedure and contracting strategy.
- Preparation of tender documents.
- Bills of quantities of all types, from schedule of rates to lump sum.
- Commercial and financial tender evaluation.
- Contract negotiations and compilation of contracts for signature by both parties.

POST CONTRACT PHASE

- Contract administration, including costing and agreements of site instructions/variation orders, contractual claims assessment, negotiations and settlement, contract modifications/amendments.
- Cost management, including cost planning, budgeting and cost control. Monthly progress payment certificates.
- Facilitation of project cost meetings and reporting.



CONTRACT AND PROGRAMME MANAGEMENT

The successful delivery of large, complex and interrelated projects is assisted by the deployment of appropriate, organised and controlled contract management structures that best balance the risks of the project against its actualisation. CRMP offer independent advice to help avoid, manage and resolve construction and engineering disputes. With sector-specific experience, our team of specialists are adept at anticipating, preventing and mitigating costly overruns and programme delays that can lead to disputes.

- Project contracting and procurement strategies (lump sum, re-measurable, target model, activity schedule, etc).
- Selection of appropriate conditions of contract. (FIDIC, NEC2, NEC3, GCC, JBCC, Bespoke, etc.)
- Drafting of master enquiry documentation (generals, particular conditions, scoping, etc)



ESTIMATING

CAPITAL COST ESTIMATING

Accurate and appropriate cost estimation is fundamental to the development of realistic business cases and successful delivery of the associated projects. Aligning the accuracy of the estimate to the level of design completion will afford the project a relevant and reliable cost base upon which optioneering, optimisation and value engineering exercises can be levered.

OPERATING COST ESTIMATING

Often regarded as the less critical of the estimates, an operating cost estimate that is pragmatically founded in reality and inclusive of appropriate efficiencies can afford the delivery team an opportunity to undertake design optimisation prior to the commencement of construction. The comprehensive first principles build-up to an operating model can report against primary and consequential cost drivers of fixed inputs (corporate allocations, amortisation, etc.), variable inputs (labour, consumables, etc.) and sensitivity inputs (risk, foreign exchange, etc.).

REHABILITATION/MINE CLOSURE COST ESTIMATING

The accurate quantification and estimation of costs and timelines of rehabilitation activities associated with Life Cycle Management are paramount to the minimisation of the liabilities reported in every balance sheet. Remaining economically competitive while meeting social and environmental obligations is equally important to the responsible financial provision for closure and rehabilitation, including mandatory capital guarantees for rehabilitation trust investments. The comprehensive first principle development of a rehabilitation estimate, based upon the Environmental Management Plan, afford the owner the peace of minds that an apt provision is being made, without risk to the shareholders

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The comprehensive identification, quantification and prediction of project and operational risk can afford a project the difference between a bankable project and an un-fundable one.

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CONTRACT ADMINISTRATION

The strict application of the agreed terms and conditions of any contract affords all parties an immediate and mutual understanding of the project progress, anticipated delays, anticipated costs and the scale and nature of disputes. Cost and Risk Management Professionals help project owners to reach their commercial objectives by rendering the following services:

- Advice and selection of suitable contracting strategies.
Advice and selection of appropriate conditions of contract. Vendor and Procurement support services.
- Pre-qualification of bidders. Contract tendering.
- Tender evaluation, adjudication and recommendation.
Contract agreements.
- Change Management. Document Management.
Contracts closeout.
- Contract correspondence register.
- Contract variation instruction management and costing.
Attend meetings, record and distribute minutes.





COST MANAGEMENT

Basic cost management services include:

- Steering cost and savings throughout the entire project life cycle. Fast and accurate measurement of construction drawings.
- Detailed monthly cost reporting for each construction contract. Regular cost meetings with the client.
- Accurate payment certification.
- Comparison of construction drawings with feasibility drawings prior to issue to contractor.
- Implementation of effective site variation procedures.
- Prompt final account settlement after construction completion by applying Running Final Account during the construction phase.



RISK MANAGEMENT

The comprehensive identification, quantification and prediction of project and operational risk can afford a project the difference between a bankable project and an un-fundable one.

- Risk Identification and mitigation is the all important document that determines the quality of all the following steps, and needs experience, consideration, realism and a consistent approach;
- Qualitative risk analysis that marries the risk identification and their associated probabilities to a project owners own governance structure and limitations, that affords risk transparency to the project team;
- Quantitative risk analysis utilising either a Risk Register or, where a more complex set of risks is present, a Probabilistic Risk Assessment, in the form of a Monte Carlo Simulation.
- Risk Evaluation that considers the effect of each risk and prompting the discussion about whether to accept the risk, manage the risk, exploit the risk or transfer the risk
- Risk Reporting consolidates the various risks, changes to probability, changes to mitigation strategies and risk monies into a comprehensive analysis for dissemination to the appropriate project team members.



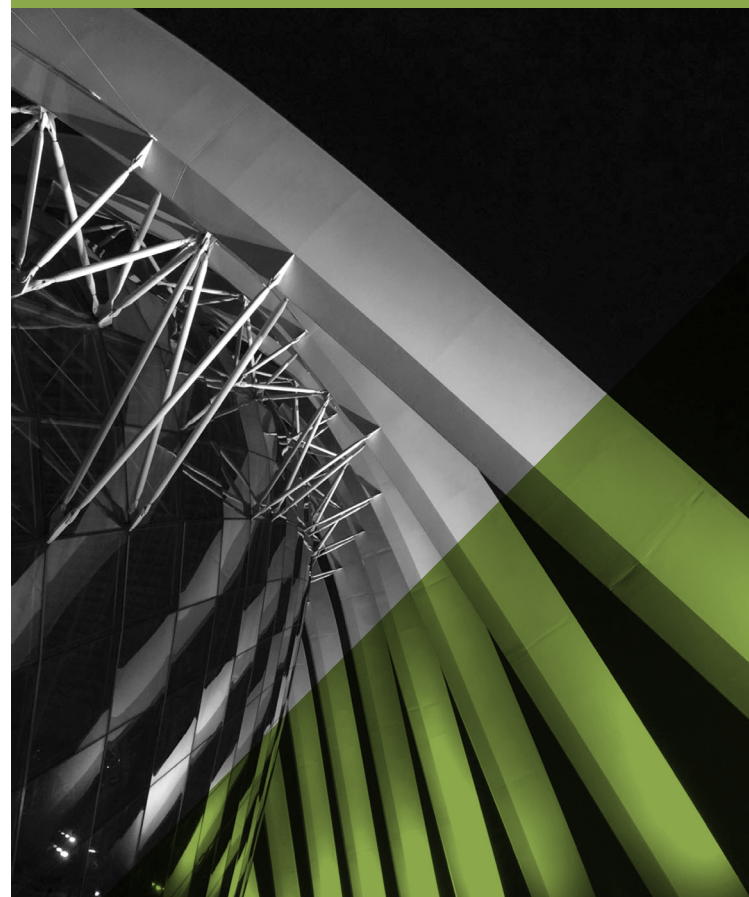
INDEPENDENT PEER REVIEWS

- Review estimates from first principles.
- Formulation of recommendations with detailed reporting. Recommendations of corrective action.
- Cash flow forecasting.
- Professional consultant interviews. Project controls review.
- Budget review.
- Commercial and contract review.



DISPUTE RESOLUTION AND CLAIMS CONSULTING

In today's increasingly litigious construction industry dispute resolution is common place. CRMPs team of highly qualified professionals are able to advise and prepare documentation and advocacy to assist in the resolution of disputes. Our team are fully conversant with varying dispute resolution procedures, including Adjudication, Litigation and Mediation. Reporting includes Quantum, Delays, Extensions of Time and Damages.





SECTOR EXPOSURE



MINING

OPENCAST

The profitability and sustainability of opencast contractor mining often relies upon the application of an appropriate and controlled assignment of risk and reward.

CRMP offer full cost, risk and contract management solutions from junior minors to majors, across Africa, applied to the conception, feasibility study, enquiry, award, operations, close-out and rehabilitation of both bulk material and hard rock deposits.

UNDERGROUND

Proactive management of the unpredictable nature of underground mining is what differentiates a successful mine from a failed mine. The appropriate selection of mining methods, the resultant enabling infrastructure, the efficacy of labour, the method of recognition of work done and the identification, quantification and allocation of risk all significantly influence the sustainability and return on investment of the enterprise.

TAILINGS STORAGE FACILITIES

The proper operation and maintenance of Tailings Storage Facilities is pivotal to the mitigation of the environmental risks associated with these facilities. IPA offer the full cost, risk and contract management solution from junior minors to majors, across Africa.

BENEFICIATION

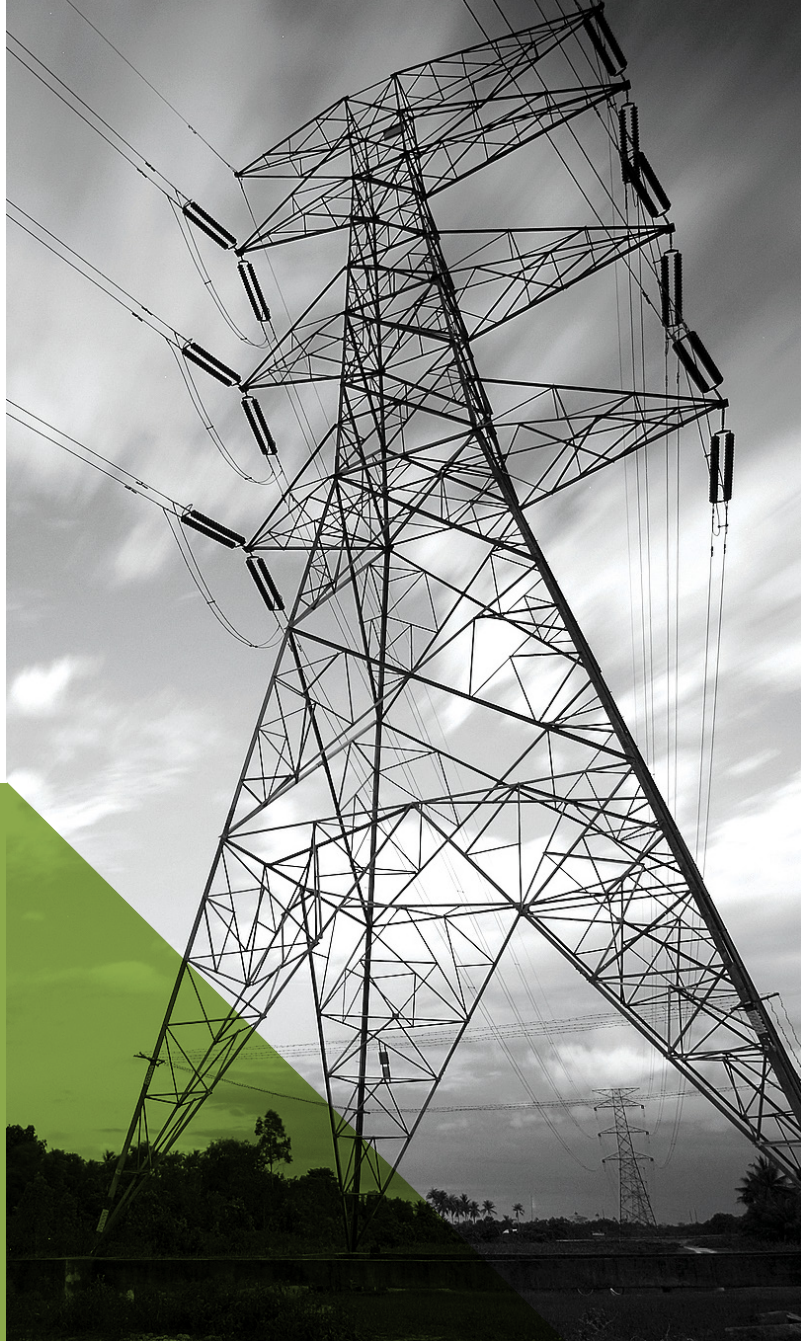
Most primary mineral beneficiation consists of 3 main activities - comminution, physical separation, and post-separation management. Whilst each can be specified, designed, constructed and operated independently, each is ultimately fully reliant upon the others, and each discipline thereof needs be fully considered prior to any business case being promoted. IPA understand the complexity of process plants, and the need for accurate measurement and estimating against each discipline (bulk earthworks, civil, structural steelwork, piping, mechanical, electrical, controls and instrumentation).

ENABLING INFRASTRUCTURE

Whilst mineral extraction and beneficiation remain the primary focus of mining, these would not be possible without the enabling provision of services and facilities. Be it the need for power, water, roads, structures, freight rail, passenger rail, airports or marine ports, IPA have the contract, cost, risk and project management capabilities to ensure that the right solution is delivered to enable the seamless exploitation of the mineral resources.

ENERGY

As the world edges closer to the realisation of REN21, the rapidly accelerating pace of technological improvement yields a better and more efficient solution. As these black boxes of technology steadily reach towards a fully renewable feed of power, the need for the management of cost, contract, risk and schedule, to the enabling infrastructure becomes more important.



WATER

The treatment and re-treatment of water for process, agriculture and human consumption is often a large and complex exercise, and is becoming increasingly critical. Large piping, instrumentation and mechanical packages, supported by significant civil structures require proactive and comprehensive cost, contract, risk and schedule management.





TRANSPORTATION

RAIL

The complex nature of linear projects (considering land access and ownership, SHEQ, long lead times, cross border legislative adjustments, etc.) necessitates a pragmatic and detail-oriented approach to managing cost, contract, risk and schedule.

The value of optimising capital cost rail estimates, without sacrificing the quality, longevity or bankability of the development, cannot be underestimated.

ROADS, BRIDGES AND TUNNELS

Road transportation provides the crucial network upon which many goods and people interact with the world. Be it national highways or rural service roads, the terrain and resulting route constitute a major investment, and the application of strict standards and programme management will afford the project significant benefit.

PORT AND MARINE

Port and marine design and optimisation is often driven by factors other than the port layout, such as coastal geography, access roads and local stakeholder restrictions. A wholesome but controlled contract and risk management framework will afford the project owner confidence that the right solution is adopted, at the right price.

AVIATION

Key to the development of most global economies, countries are investing in the expansion and upgrading of existing and the roll-out of new airport infrastructure. The efficient use of space is balanced against the airport user experience, and the application of proven, reliable cost and risk management in the feasibility stage can aid in access to funding. The accelerating rate of development, including new generation aircraft, new technologies, changing legislation, the increase in security provision and ever-rising customer expectation, adds to the complexity of the project and reinforces the need for strict commercial, schedule and financial policy.



INDUSTRIAL

In the heart of any thriving economy lies the manufacturing sector. A complex relationship exists between technological necessities and fiscal viability, which needs be carefully managed by means of a comprehensive and detail orientated cost, risk and contract management framework that affords the project a successful outcome, that is fit for purpose. CRMP offer the full suite of services to both developers and owners.





PETROCHEMICAL

UPSTREAM

A systematic, enforceable but agile procurement plan is fundamental to the successful execution of the oil and gas life cycle. The precise scheduling and execution of exploration campaigns, drilling campaigns and extraction and collection site development, afford the operations a better start, with earlier optimisation and better throughput.

MIDSTREAM

The remote nature of upstream activities usually necessitates both complex and expensive midstream infrastructure, usually consisting of a combination of pipeline, rail, barge, tanker, and finally storage.

DOWNSTREAM

The high capital value of downstream projects necessitates the meticulous and comprehensive application of tried and tested contract management techniques, supported by detail-driven cost and risk management tools. From refineries to tank farms to distribution networks and consumer petrol stations, CRMP offer full cost, contract and risk management services that will assure the project a sound and competitive result.



ARCHITECTURAL

WORKPLACES

The constant evolution of want in the workplace has necessitated a need for the development of new, more environmentally friendly buildings to accommodate the shift in work trends. Whether for owners, developers, occupiers or acquirers, we have a proven capability of applying our knowledge and expertise to help deliver objectives and create long-term sustainable success.

HEALTHCARE

Health systems across the globe are under constant and significant pressure to deploy modern technologies, whilst maintaining existing capacities, without sacrificing the quality of service. CRMP has extensive clinic and hospital experience and is well positioned with relevant knowledge to manage healthcare projects of all sizes, from concept stage through to final completion and commissioning.



In the heart of any thriving economy lies the manufacturing sector: a complex relationship between technological necessities and fiscal viability.



EDUCATION

Deteriorating levels of numeracy and literacy across the globe clearly highlights the urgent need for major development within the sector. A complex relationship exists between authorities and project owners that require a clear understanding of systems and regulations that is to be carefully managed. CRMP has managed several successful education projects and offers the full suite of services to manage government entities, developers and owners to implement project successfully.

HOSPITALITY AND LEISURE

Hotel, resort and similar developments are capital intensive by nature, and as such must be met with tried, tested and practical cost and risk management services. CRMP offer the full suite of services to both developers and owners.

RETAIL

Decades of accrued knowledge and understanding of retail projects, that consider the unique nature of each project, is testament to the track record of capability that CRMP bring to the table. Be it the development of new shopping centres, the remodelling, upgrading and refurbishment of existing centres, or the fit out of stores and restaurants, CRMP are able to provide full quantity surveying services.

RESIDENTIAL

The swelling in numbers of the middle class has resulted in an increased demand for housing, especially in urban centres. CRMP provide services across the complete project development cycle.



THE IPA IS A DESIGN, PROJECT, RISK, CONTRACT AND COST MANAGEMENT CONSULTANCY ALLIANCE SPECIALISING IN PROJECT DELIVERY SERVICES ACROSS AFRICA. WE ARE AN ALLIANCE OF PROJECT FOCUSED, INDEPENDENT AND PROFESSIONAL CONSULTING FIRMS WHO FOCUS ON CONSTRUCTION DEVELOPMENTS, WORKING TOGETHER AS A TEAM TO ENSURE SUCCESSFUL DELIVERY, WITHIN TIME AND BUDGET.

With our entrepreneurial outlook, optimism and forward thinking approach we are an alliance of professional consultancies who deliver a high quality service to clients, no matter the size of project.

We are not only focussed on the detail and also look at the big picture as we understand that you will want to maximise efficiencies through your overall investment which will have to be achieved in addition to delivering projects on time to budget with limited disruption to your continuing operations.





Entrepreneurship is the process of creating value by bringing together a unique combination of resources to capitalize on opportunities. Non-entrepreneurial firms react to their environment, while our entrepreneurial firms create the trends of the future and act before the environment changes.

Our team draws upon the various professional disciplines within the partnership to deliver the right level of advice, expertise and experience as fits the needs of the project, business and stakeholders.

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The IPA vision is to be your first choice built environment consultancy team in Africa.

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