

KPM management Project Procedures & Milestones

Scouting 2-6 months 1-2% of total project costs	Feasibility 3-9 months (FEL I) 2-3% of total project costs	Analysis 5-12 months (FEL II & III) 5-8% of total project costs	Execution 10-36 months 87-92% of total project costs	Operation & Evaluation within 6 months
Identification of Partners				© 2014 - Copyright KPM management
Identification of Feasibilities	Update of feasibilities			
Identification of Sites	Site exploration			
Identification of Business Risks	Update of Business Risks	Final Business risks		
Identification Up- & Down streams	Up- & Down streams LOI's	Up- & Down streams contracts (SLA)		
	Letter of Intent (LOI) Client (Operator)			
Financing alternatives	Update Financing	Financial planning		
Identification of Project strategies	Update of Project strategy	Final Project Strategy		
ID Environmental procedures	Requesting Permits	Finalizing Permits		
Planning Project Milestones	Update Milestones Planning	Engineering planning		
		Construction planning		
	Project HSE risks	HSE impacts / risks & HAZOPS		
	Scope definition	Finalizing Scope	Scope monitoring / evaluation	
	Lay out, Process Flow Diagrams	Basis of design		
		Project specification		
	Technology choices	Basic engineering	Detailed Engineering	
	Identification long lead items	Main equipment requisitions		
	Contract strategy	Procurement / Contracts plan	Facility/ Equipment/ Material purchase	
	Pre-Qualification of Contractors	Qualification & LOI's of Contractors		
		Review Process & Instrument diagrams		
	Preliminary Project Execution Plan	Final Project Execution Plan		
	Project (Execution) risks	Update Project (execution) risks		
		QA/QC plan	Quality control	
	Basis of Cost estimating	Controlling systems	Cost control & reporting	
		Safety plan		
		Implementing document system	Document control	
Project-staffing Feasibility	Project staffing Analysis	Project-staffing Execution	Staffing O&M organization	Final documentation packages
			Construction	
			Training	
			Commissioning	
			Start up	
			Warranty tests	
Exploitation prognosis	Estimate Exploitation budget	Update Exploitation budget	Final Exploitation Budget	
Concept organization structure	Detailing organization structure	Final organization structure	Implementation organisation structure	
			Operating proc's (incl HSE HaZops)	Operating
	ID.Operations & Maintenance strategy	Maintenance strategy	Implementing Maintenance plan	Maintenance
± 40% Project Cost Estimate	± 25% Project Cost Estimate	± 10% Project Cost Estimate	Final Project Costs	Project evaluation / Lessons learned
Defining Business Case	Update Business Case	Final Business Case	Monitoring Business Case	Evaluation Business case
Board review	Board review	Board review		
Funding next phase	Funding next phase	Final Investment Decision	Handover to Client	Improvement future projects
Responsibility	Owners Management Business Development Management	Project Management Client (Operations) Management	Revision: PM140416.01	