

Engineering Discipline	Document title
General	Engineering Design Data
	Project engineering plan
	Project Equipment list
	Engineering document register
Process	Process Design Data
	Process design criteria
	Block Flow Diagram
	Process flow diagrams
	Process description and operating philosophy
	Process Equipment list
	Heat and material balance
	Process fluids list
	Utility consumption list
	Equipment process data sheets
	Heat exchanger thermal data sheet
	Duty specification
	Piping and Instrumentation Diagrams (P&IDs)
	Line list
	Emergency shutdown diagram
	Cause and effect diagrams
Flare Report	
Calculations notes	
Operating manual	
Equipment	General specification
	Particular specification
	Mechanical data sheet
	Material requisition
	Technical bid tabulation
HSE	Safety concept / Design Safety Philosophy
	HAZID report
	Fire Protection design specification
	Fire and Gas detection design specification
	Safety Integrity Level (SIL) review
	HAZOP report
	Fire water demand calculation note
	Fire water Piping & Instrumentation Diagrams
	Deluge system arrangement drawings
	Fire fighting and personnel protection drawing
	Passive fire protection drawings
	Quantitative Risk Analysis (QRA)
	Fire & Gas detection layouts
	Fire & Gas Cause & Effects matrix
	Hazardous area classification drawings
Health and environment requirements specification	
Environmental Impact Assessment	
Noise map	
Civil	Design specification / Basis of design
	Grading plan
	Foundation calculation note
	Foundation drawing: Reinforcement
	Foundation drawing: Formwork
	Civil works specification
	Standard drawings
	Drainage calculation note
	General Underground Networks drawing
	Civil works installation drawings
	Architectural drawings
	Specifications and bill of quantities for construction sub-contracts
	Building detail drawings
	Steel Structure Calculation note
	Steel structure design drawings
	Civil Material Take-Off (MTO)
Steel structure standard drawings	
Plant Layout	Plant Layout Design specification / Plant layout guidelines
	General Plot Plan drawing
	Key plan
	Unit Plot Plan drawing

Engineering Discipline	Document title
Piping Installation	Piping Design Basis
	Line diagrams
	Piping layout drawings
	Piping general arrangement drawings
	Piping isometric drawings
	Line list
	Piping Material Take-Off
	Specifications and bill of quantities for construction sub-contracts
Piping Material	General piping specification
	Piping material classes specifications
	Supply specifications for piping materials
	Piping Material Requisition
Handling	Handling equipment Layout
Piping stress analysis	Piping flexibility and stress analysis criteria
	Piping stress analysis Calculation note
	Pipe support booklet
	Supply specifications for pipe supports
	Pipe support drawings
Material & Corrosion	Corrosion control and material selection report
	Material selection diagrams
	Cathodic protection system design specification
	Painting specification
	Insulation specification
	Insulation material take-off
Instrumentation & Control	Instrumentation & Control Design Specification
	Specifications for systems (control, ESD, F&G, telecom etc.)
	System architecture drawing
	Instrument functional diagram
	Control narrative
	Mimic display drawings
	Safety Integrity Level (SIL) review
	Instrument list
	Instrument data sheets
	Level sketches
	Main cable routings and Junction Box (JB) location drawing
	Instrument location & secondary cable routing drawings
	Cable routing drawings
	Cable cross section drawings
	Cable list
	Instrument bulk material take-off
	Specifications and bill of quantities for construction sub-contracts
	Junction box wiring diagram
	Typical installation drawings
	Equipment layout drawings
Telecommunication equipment layout drawing	
Instrument loop diagram	
Electrical	Electrical design specification
	Electrical consumers list & power balance
	General one line diagram
	Equipment data sheet
	Equipment specification
	Equipment requisition
	Switchgear single line diagram
	Switchgear typical diagram
	Architecture drawing
	Equipment layout drawings
	Lighting layout drawings
	Cable routing drawings
	Cable list
	Typical installation drawings (power, lighting, earthing, heat tracing)
	Electrical bulk Material-Take-Off (MTO)
	Specifications and bill of quantities for construction sub-contracts
	Block diagrams
Trouble shooting diagrams	
Electrical calculations	

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