



SKETCHCOM

Engineering & Design Pvt. Ltd.

Basic & Detailed Engineering & Design Company

GSTIN No: 06ABKCS4064N1ZT



Telecommunication & Security System Design – Instrumentation System Design – Control & Automation System Design

Offshore & Onshore Oil & Gas | Fertilizers | Hydrocarbon Pipelines | Power Plants | Metals & Mining | Buildings & Infrastructure | Process Industries

REGISTERED CORPORATE OFFICE:

DLF Industrial Plot No. 5
First & Second Floor, Mahesh Complex
Near Mewla Maharajpur Metro Station, Sector – 31
Faridabad, Haryana - 121002, **INDIA**

ENGINEERING & DESIGN CENTER

FARIDABAD | GURUGRAM

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INFRASTRUCTURE

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INTRODUCTION

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WHO WE ARE ?

SKETCHCOM ENGINEERING & DESIGN is a detailed engineering & design company, specialized in **Telecommunication & Security Systems, Instrumentation, Control & Automation systems** for various domains like Oil & Gas (Offshore & Onshore), Hydrocarbon Pipelines, Fertilizer Plants, Power Plants, Process Industries, Metals and Mining and Buildings & Infrastructure.

Why SKETCHCOM ?

SKETCHCOM ENGINEERING & DESIGN is committed to provide a sustained competitive advantage over its competitors by doing value engineering & design optimization right from the conceptual design stage , thereby adding value to its customer in terms of CAPEX & OPEX.

Its quality assurance procedures & **design standardization**, combined with a team of highly experienced engineers and designers are always committed to meet the demands of the customer at all stages of the project life cycle.

With its established Quality Assurance Procedures, Design **standardization modules**, in-house developed design tools and other support functions like technology partners, customer's needs evaluation team and IT systems, SKETCHCOM ensures a cost effective, reliable, safe and error free design. Our engineers are having tremendous experience in the design and engineering Telecommunication & Security systems, and they bring together a vast pool of domain specific knowledge and lessons learnt to provide a design to meet any project requirement.



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CORE COMPETENCY

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Industrial
Telecommunication
System Design

Industrial
Security System Design

Instrumentation Design

Control & Automation
Systems Design

Communication System
Infrastructure (ICT)
Design

What we do?

Oil & Gas (Offshore) Subsea Pipelines

Basic Engineering
(FEED)

Conceptual &
Feasibility Study

Detailed Engineering

Procurement
Engineering

Special Studies &
Calculations

BICSI Certification
FAT / SAT / Surveys

Installation &
Commissioning
Supervision

Field Engineering /
AS-BUILTs

Oil & Gas (Onshore) Pipelines



**Metals & Mining
Fertilizer Plants
Buildings & Infrastructure**



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ENGINEERING SERVICES

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Industrial Telecommunication & Security Systems, Instrumentation & Control System

- Conceptual & Feasibility studies (DFR / PFR)
- Basic Engineering (FEED).
- Detailed Engineering & Design package
- Engineering Deliverables
- Engineering Drawings (AUTO-CAD & Micro station)
- Procurement Engineering (MR / TBE / PR / VDR)
- Proposal / Estimation Engineering (Pre-Bids)
- Specialized Studies and Calculations
- FEED Verification
- Value Engineering & Design Optimization
- AS-BUILTs

- BICSI Certification
- Training on Design & Engineering
- Field Engineering
- Site Surveys
- FAT and SAT support
- Pre-Bid Costing
- Vendor Engineering (Design Package)
- Site execution coordination



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TELECOMMUNICATION & SECURITY SYSTEM DESIGN

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Security Access Control
System

Process CCTV System
Marine VHF System

Security CCTV System
BWA Radio System

Fiber Optic Networks
(ISP/OSP & SDH/PDH)

Paging and Intercom
Offshore Safety Commun.

Smart TV System
Ship to shore links

Audio & Video
Conferencing System

Public Information
Display System

Building / Fence Intruder
Detection System

HVAC System / Solar
Power System

VSAT System / RF cabling
Microwave & radio data

SCADA / RTU System
Process & Safety Network

IP & TETRA Radio System
Collision avoidance radar

Satellite Phones, WiMAX

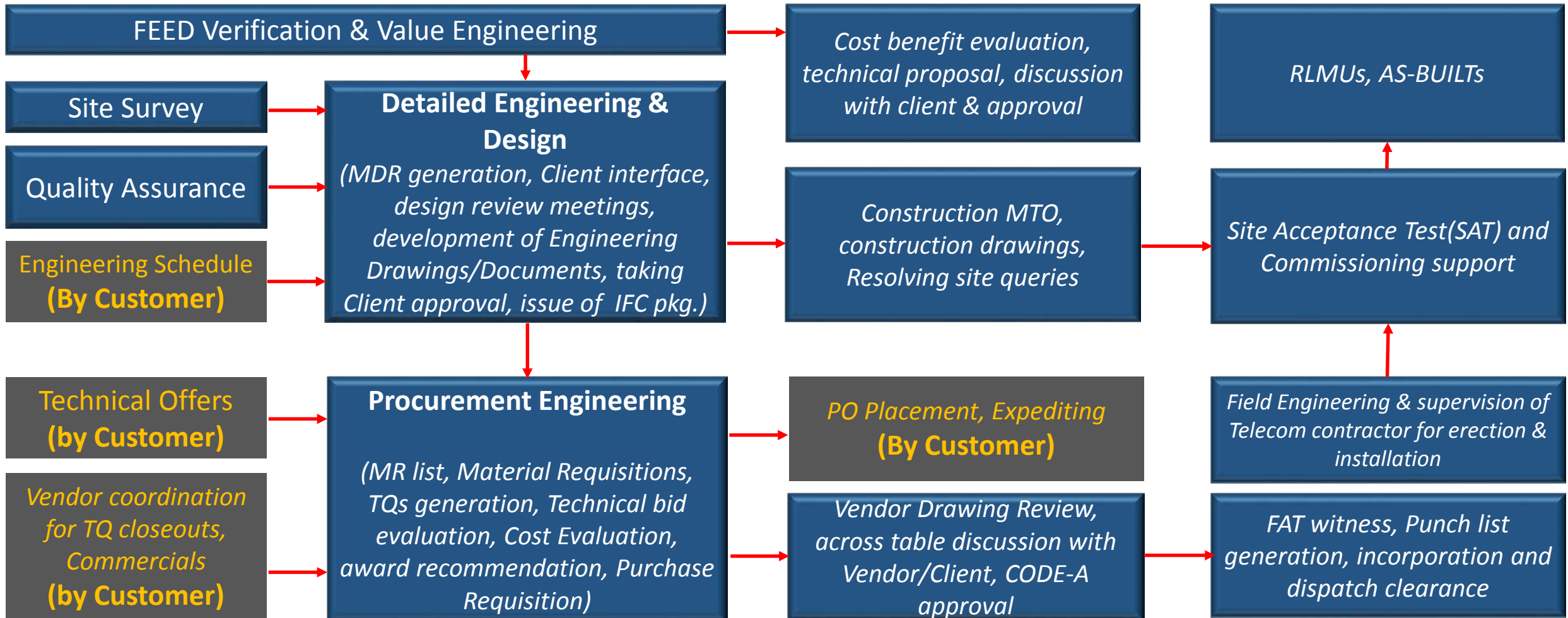
Pipeline Leak & Intruder
Detection System

Automatic Turnstile /
Boom Barrier and Crash
Barrier System

IT & Data Network
DMZ, DWDM
Structured Cabling
System
LAN, WAN, Wi-fi
System
BICSI Certification
Data Centers
Building ICT
Infrastructure
GSP Platform

Public Address & General
Alarm System, TERS
Weather Monitoring Syst.

Telephone System
(IP, Analog, Hotline)
EPBAX, IP-EPBAX, MPLS,
Leased Line





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ENGINEERING DELIVERABLES

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Industrial Telecommunication & Security Systems, Instrumentation & Control System

DOCUMENTS

- Engineering Scope of Work
- Design Basis & Design Criteria
- Data Sheets
- Detailed Bill of Material (BOM)
- Engineering MTO
- Technical Specifications
- Cable Schedule
- Equipment Tag list
- Network Tie-in Specification
- Functional Design Specifications
- Network Channeling Plans
- Third Party Interface Document & Drawing
- Construction Scope of Work
- Construction MTO
- Operation, Trouble Shooting and Maintenance Manuals

DRAWINGS

- System Architecture
- System Block level Diagrams
- Installation Drawings including FOC
- System Wiring & Interconnection Drawings
- Fiber Patching and Termination Drawings
- FOC Core Allocation Drawings
- Network & Channeling Plan (Bandwidth) diagram
- Network Tie-In Drawings

LAYOUTS

- Cable Route layout*
- Telecom room / Control Room layout*
- Equipment Location layout*
- FOC Route layout*



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ENGINEERING DELIVERABLES Contd...

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Industrial Telecommunication & Security Systems, Instrumentation & Control System

STUDIES & CALCULATIONS

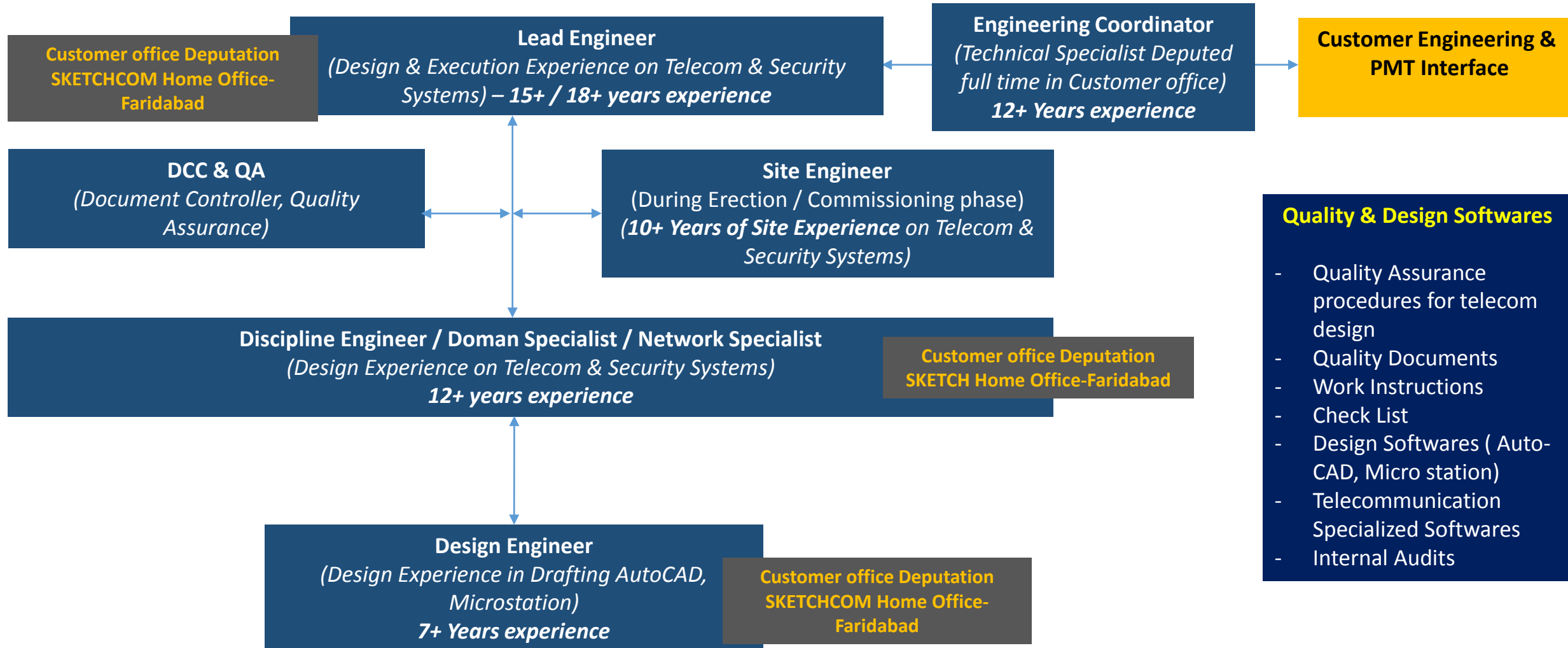
Telecom Battery and Charger Calculation
RF Traffic Study
RF Frequency Planning
RF Intermodulation Study
RF Frequency Interference Study
Telecom System Availability and Reliability Study
Radio Line of Sight Calculation
CCTV Coverage Study
BICSI certification
PA/GA Acoustic Study
Wi-Fi Heat Mapping Study
TETRA Coverage Verification test reports
VSAT Antenna and Transmission line layout
VSAT Link Budget Calculation
Fiber Optic Link Budget Calculation
Telecom Bandwidth and Service Assignment
Telecom Bandwidth Calculation
Panel Power and Heat Calculations

PROCUREMENT ENGINEERING

Material Requisition, Vendor Offer and Review , Technical Bid
Evaluation, Purchase Requisition, Vendor Document Review,
Master Deliverable Register

CONSTRUCTION

Detailed Construction MTO
Cable Schedules, Work Volumes
Earthing Layouts
Pre-commissioning and Commissioning Procedures
AS-BUILT Drawings





Domain	Role	Systems	Location	Standards	No. of Projects
Telecommunication & Security System	- Detailed Engineering & Design - Proposal Engineering	IP & Analog Telephone System (IPBAX, EPBAX, IP-EPBAX, Hotlines), FOC Network (LAN/WAN/Firewalls/Routers and network Switches), Security Access Control System(SACS), PA/GA System, Data Network SDH /PDH, RTU-SCADA Network, Wi-Fi System, CCTV System, TETRA Radio System, Marine VHF System, PDO WiMAX network, Saudi Aramco DMZ Network, Paging & Intercom System, Ship to Shore Links, VSAT System, Audio-Video System, Public Information Display System, Fence Intruder Detection System using FOC, IP and TETRA Radio Collision avoidance system, Automatic Turnstile , Boom Barriers, RF Cabling, Microwave System, Structured Cabling System , Telecom Room layouts, Telecom UPS design, Heat and Power Dissipation, Network Mapping, Wi-Fi Heat Mapping Study, PAGA Coverage study, CCTV Coverage Study, FOC Link Budget Calculation etc.	India Middle east Onshore Oil & Gas EPC Offshore Oil & Gas EPC	Saudi Aramco (SAES, SAMMS, SAEP, Security Standards) PDO Shell DPs Exinnmobil GPs EIL Standards Reliance Standards GASCO IEC IEEE BICSI	50+



Domain	Role	Systems	Location	Standards	No. of Projects
Instrumentation & Control System	1. Detailed Engineering & Design 2. Proposal Engineering	DCS, ESD & F&G System, Field Instruments and Electronic Transmitters like Pressure Guage, Temperature Transmitter, Pressure Transmitters, Flow Transmitters, Thermowell and Wake frequency calculation, PSV Sizing, Vibration Monitoring System, Custody Transfer Metering Skids, Instrument & Control cable, Instrument UPS, E&I Interface, RTU-SCADA System, Packaged PLC System, Telecommunication & Control System Interface design, Pipeline Leak Detection System, Pig Signaler, ESD & ON-OFF Valves, Regulators, Corrosion Probes and Transmitters, Analyzers, Pressure Regulating Skids, F&G Detectors and Devices, MOVs, HIPPS System, Control Valve , Multiflow Meter skids, Density Meter, Gas Chromatographs, Inputs for SIL Study, Inputs for HAZOP Study	India Middle east Onshore Oil & Gas EPC Offshore Oil & Gas EPC	EIL Saudi Aramco (SAES, SAEP, SAMMS) Shell DPs Reliance Standards GASCO/ADNOC IEC, IEEE, ASTM, API etc	35+



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STAKEHOLDERS

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INDRAPRASTHA GAS LIMITED



YOKOGAWA ◆



GAIL (India) Limited



شركة تنمية نفط عُمان
Petro Development Oman



سندان
SENDAN

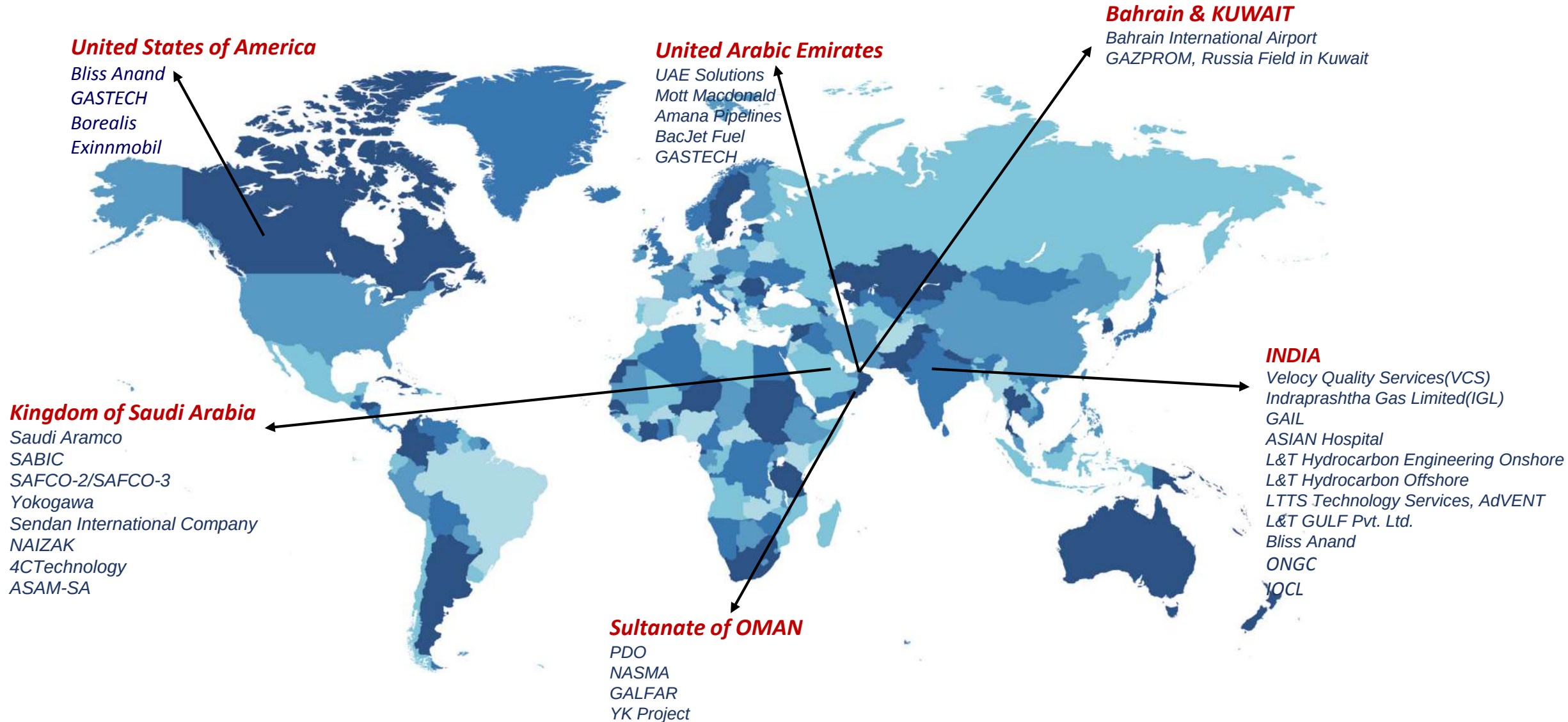




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PROJECT SPREAD

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CONTROL & AUTOMATION DESIGN

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DCS / PLC

SCADA/RTU

ESD & FGS

FAS

Pipeline Leak & Intrusion
Detection System

VMS System

HSSD System

CMS / PMS

AMS

PSA

WHCP

*Control Room Design, HIPPs Logic Solver, MOV
Control panels, ESD Consoles, PDHMS, Solar power
System, UPS, process & safety networks, OPC
severs, PCNs, DMZ Design, Integration works*



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INSTRUMENTATION DESIGN

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Field
Instrument

FF Design

ESD / ON-OFF
Valves

Control Valves
, Regulators

F&G Detectors & Devices

CTMS Skids

Regulation /
Control Skids

Multiphase
Flow meter

HIPPs
System

Sampling
System

PSV

MOVs

Corrosion
Probes / CC

Analyzers

DT / GC

*Building CO₂ / Clean Agent System, Gas Compressors,
Instrument Air Compressors, Multiphase pumps, Scraper
launcher & Receivers, production Manifolds, Active
Conditioned Shelters, Chemical Injection Skids, HVAC*

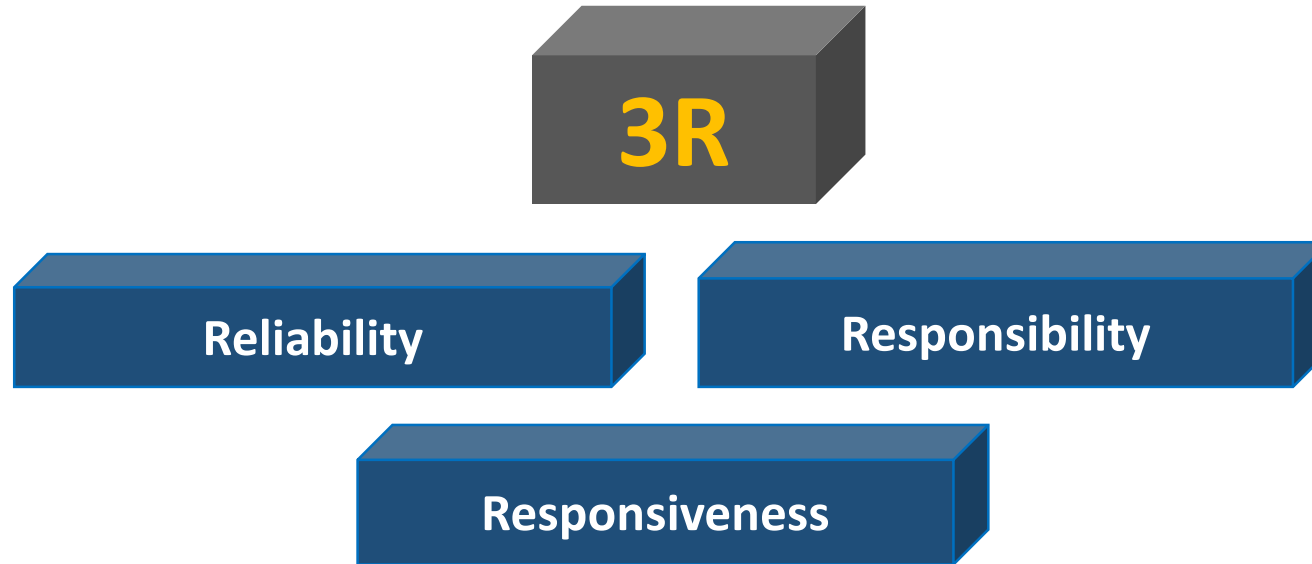


Engineering is the Make or Break of an EPC project

Impacts EPC Cost & Project Schedule

SKETCHCOM delivers optimized design and on schedule....

.....and the key is our 3R Core Values...





VISION STATEMENT

To transform from Quality Assurance(QA) driven design process to a Standardized Module(SM) driven design process, thereby adding high value to its customer with respect to time saving, value engineering & cost saving, error free design, ensuring high quality and high level of consistency.

QUALITY POLICY

Our Quality Policy is to provide a reliable and cost effective design solution with high engineering quality, taking complete responsibility of the project, being responsive at all times and satisfying the applicable health, safety, environmental, statutory, regulatory & contractual requirements and stakeholders' objectives.

We shall possess adequate quality system procedures & objectives to achieve the above and are committed to:

- create total awareness within the company
- provide optimum resources to facilitate adherence
- improve the effectiveness and suitability through periodic reviews



Engineering & PMT

Procurement Team

Construction Team

End User



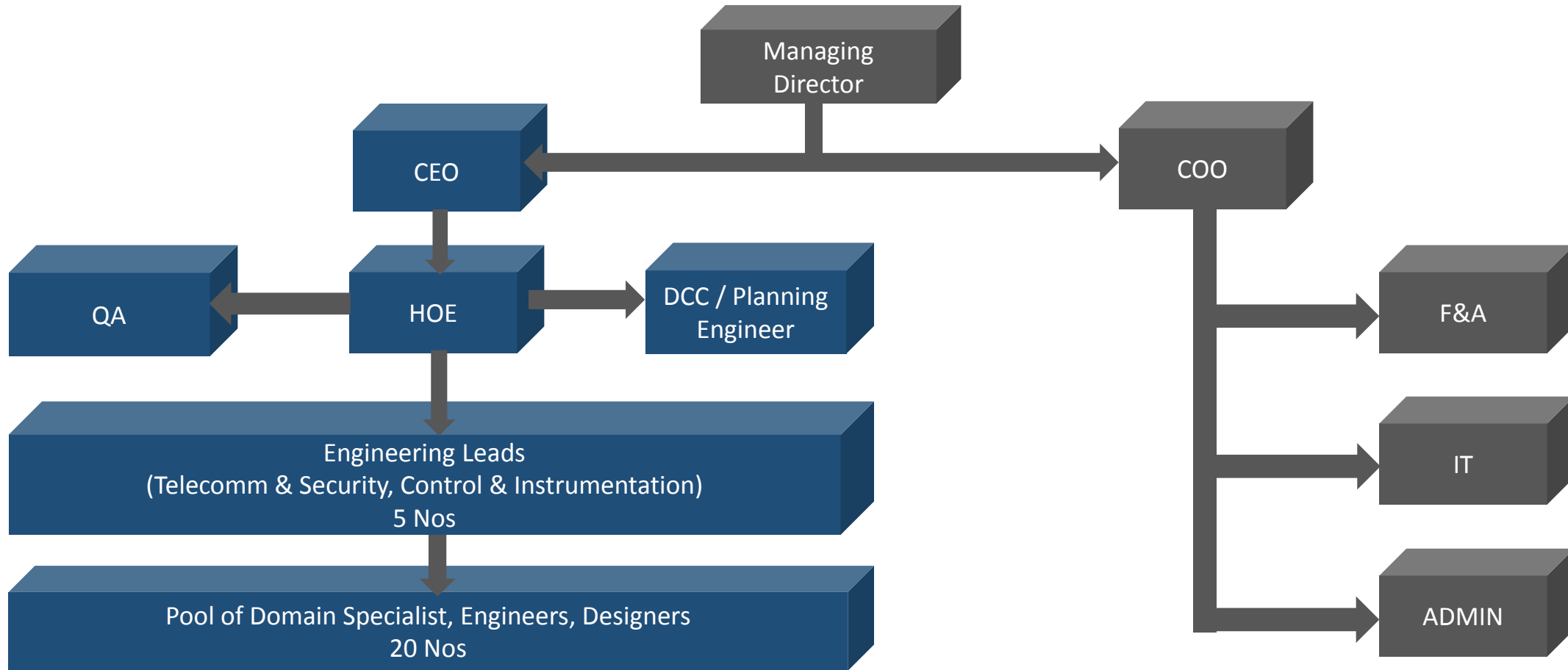
- Full time engineering coordinator posted at customer design office.
- Frequent travel of Lead and Engineers to customer office for design reviews, interface checks and representation in front of end user as one team.
- VC & Teleconference facility
- Across the table discussion with PMT, client and Vendor as required

INFRASTRUCTURE

- 5000 Sq. feet of engineering & design office in Main Delhi Mathura road.
- Easy access by road from Delhi, NOIDA , IGI Airport and Gurgaon.
- Just next to NHPC Metro Station (Violet Line)
- Network server, LAN , Wireless LAN
- Technology support in UAE & Oman
- Telecommunication Design Tools
- Latest windows & office tools
- Data backup / archiving – everyday
- E-mail & Net server
- Fire protection certified office



COMPANY ORGANIZATION CHART





SKETCHCOM
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LOCATION

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SKETCHCOM Engineering & Design PVT. LTD.

5.0 ★★★★★ (2)
Engineering consultant

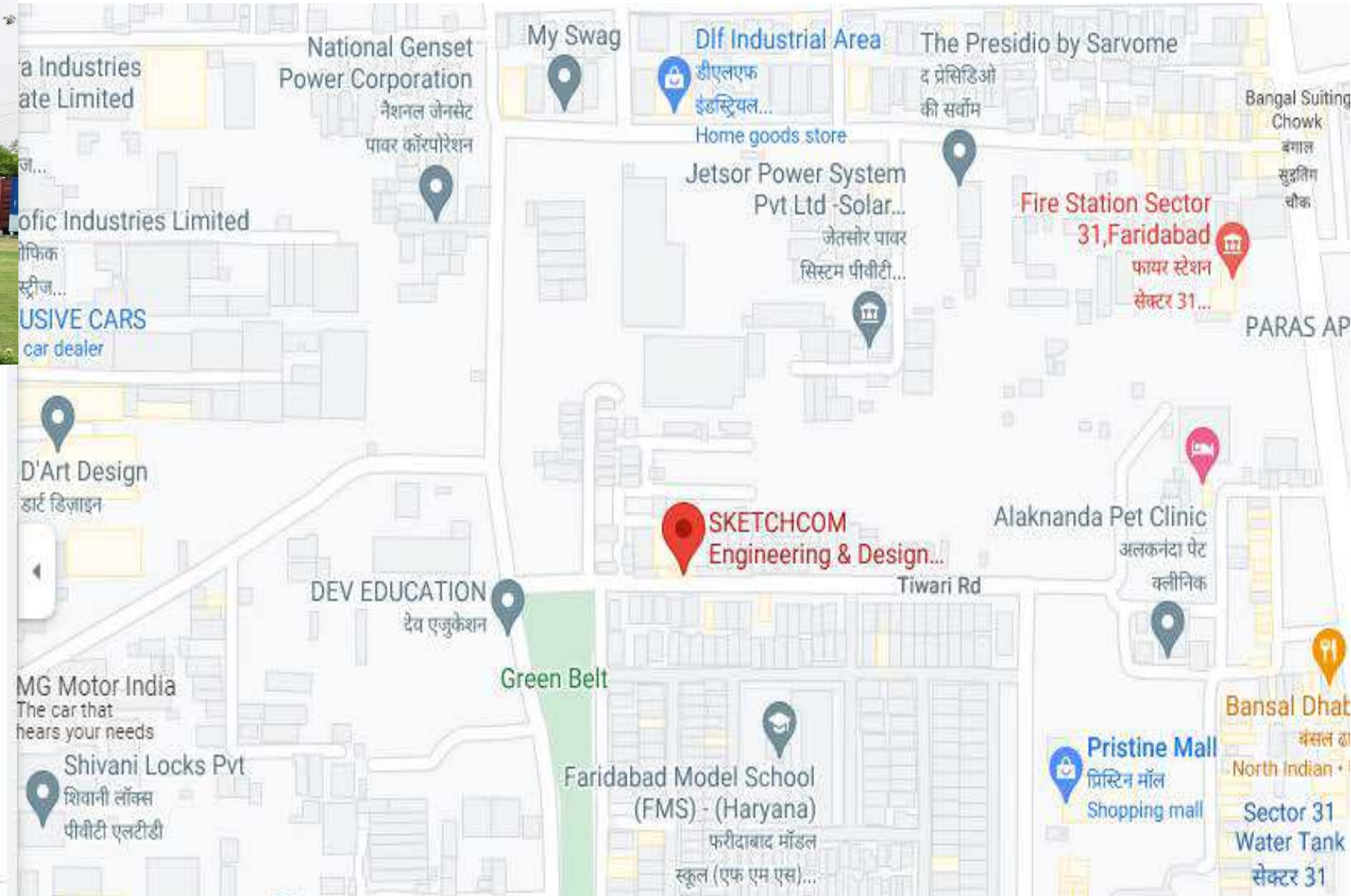
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[Overview](#)

[Reviews](#)

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THANK YOU

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It's the Beginning...

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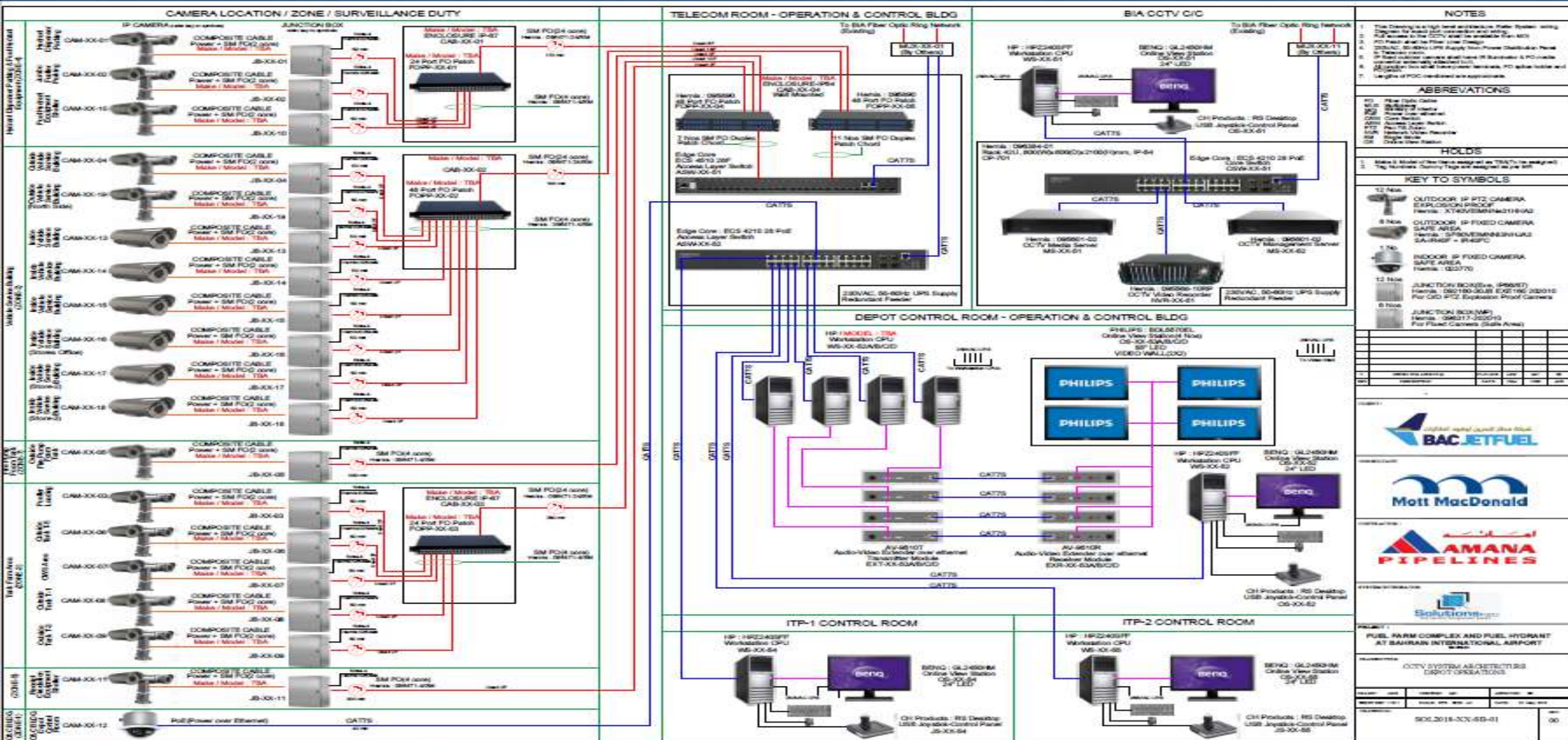
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Sample Drawings



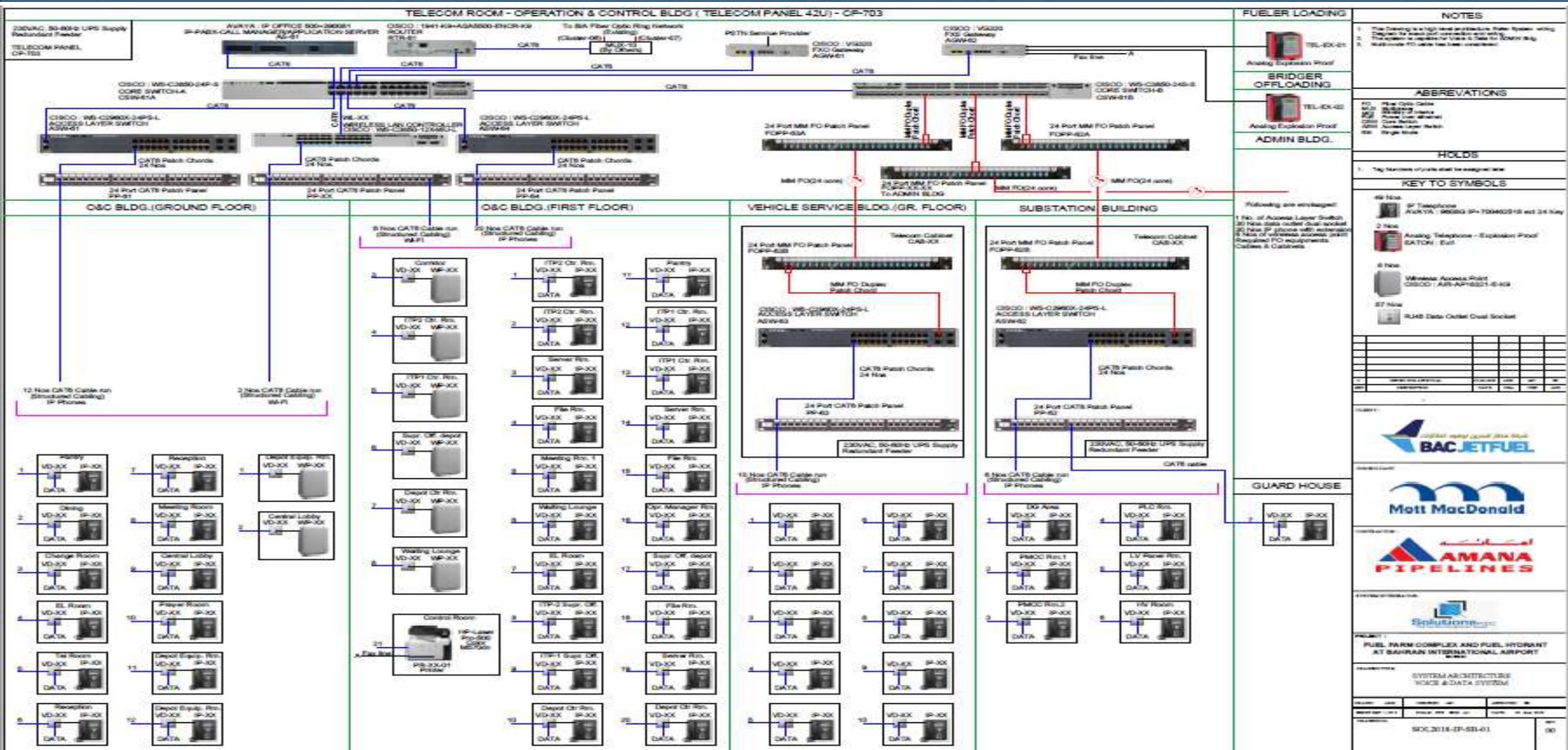


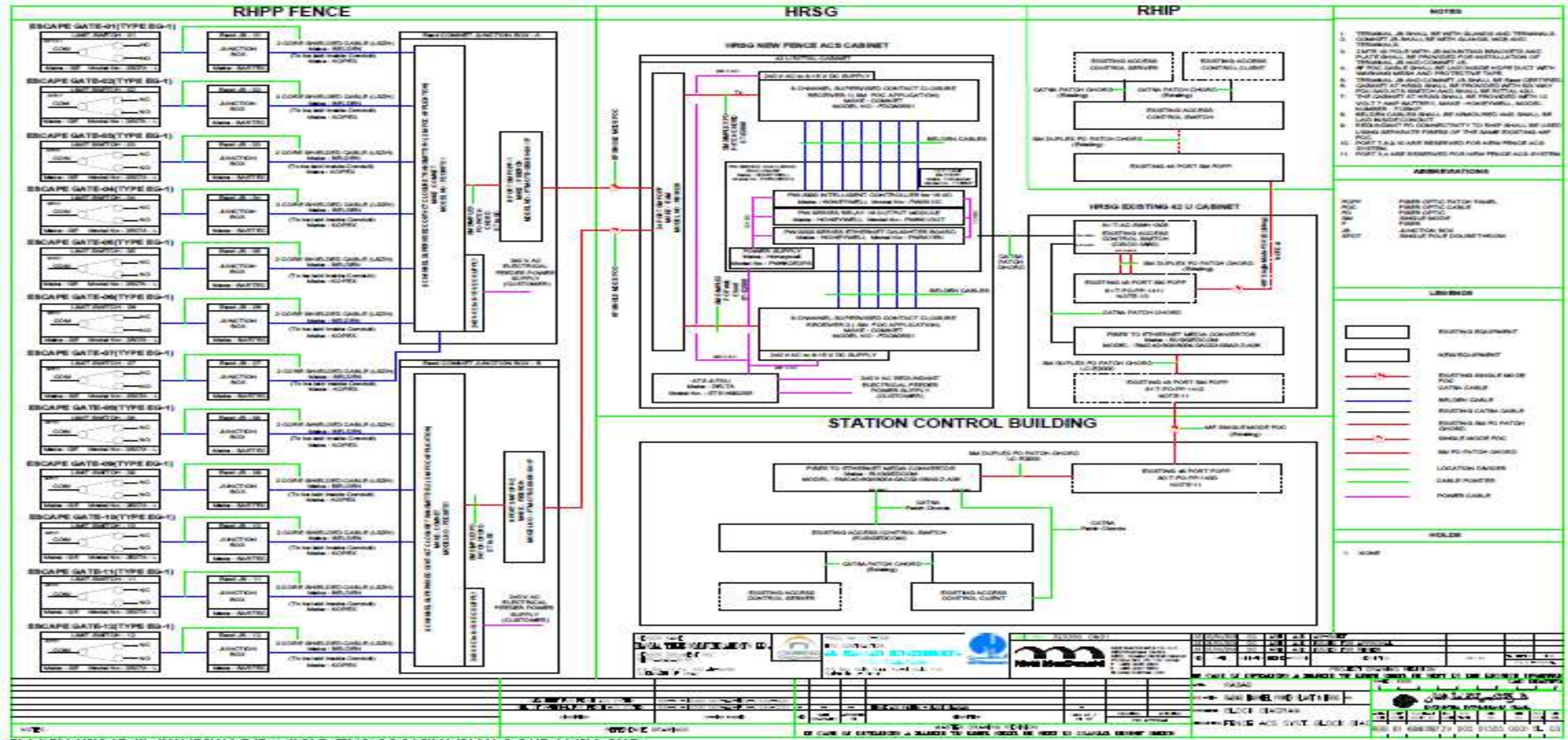
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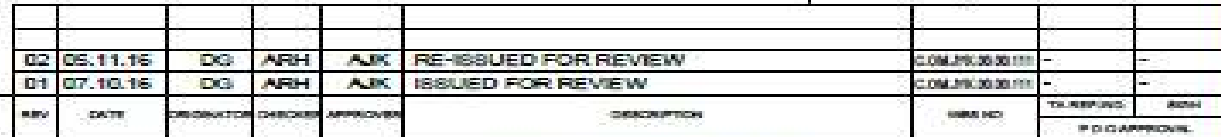
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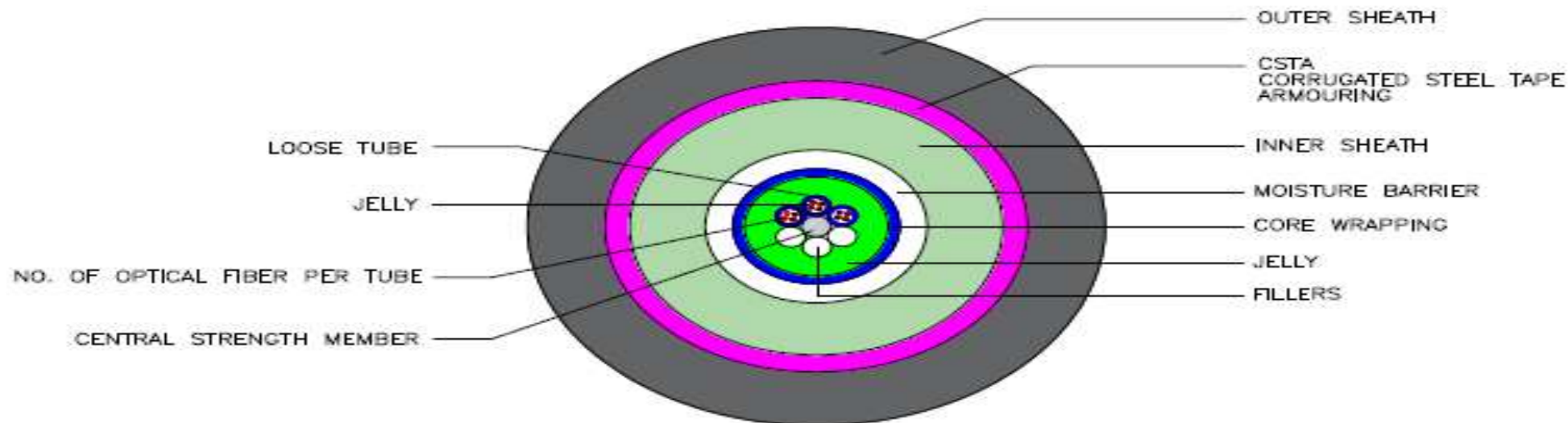
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[illegible]

BLOCK DIAGRAM		Petroleum Development Canada								
DESCRIPTION	OVERALL SYSTEM BLOCK DIAGRAM - PDO ADSS LINK	AREA CODE	UNIT CODE	P.O. NUMBER	DOC. CODE	DOC. TYPE	REQ. NO.	INT. NO.	PROJ. CODE	REV. NO.
		KHF	00	101983	ZV	D05	01304	0001	R5	02



FOC CROSS SECTION DRAWING



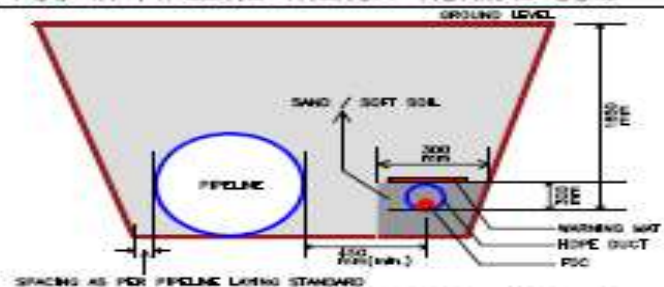
REFERENCE DRAWINGS / DOCUMENTS

NO.	FILE	REV
1	PROJECT SPEC FOR FOC	2006-01-01-0001
2	FOC SPECIFICATION	2006-01-01-0001

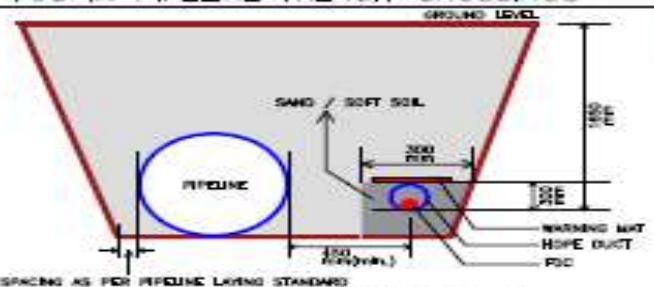
NOTES

- THE 24 FIBER SINGLE MODE FOC SHALL BE Laid IN THE SAME PIPELINE TRENCH FROM SOURCE LAUNCHED POINT TO SOURCE RECEIVED POINT.
- FOC SHALL BE Laid HEREIN PRIMARYLY LUBRICATED ROPE DUCT.
- CONTRACTOR SHALL SUPPLY ALL FOC INSTALLATION MATERIAL LIKE WARNING / PROTECTIVE TAPS, WARNERS, SPLICER, DISCONNECT, CLOSING PIPE AT CROSSING (AS APPLICABLE), MINORITIES ETC., REQUIRED FOR TO COMPLETE THE INSTALLATION.

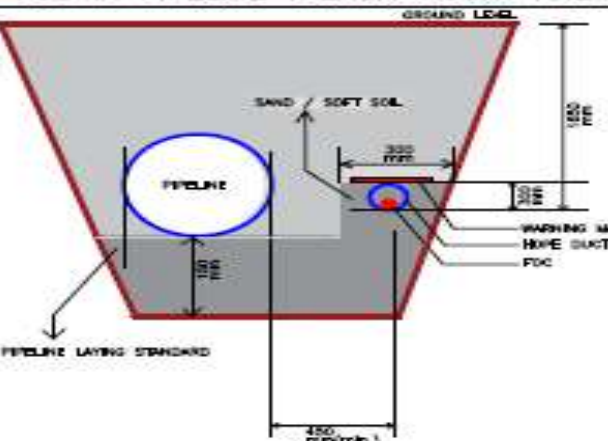
FOC IN PIPELINE TRENCH-NORMAL SOIL



FOC IN PIPELINE TRENCH-CROSSINGS



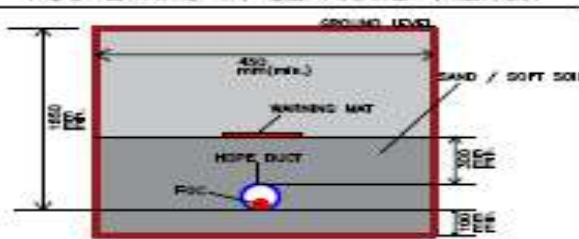
FOC IN PIPELINE TRENCH-ROCKY AREA



FOC LAYING IN CASED CROSSING



FOC LAYING IN SEPARATE TRENCH



REV	DATE	ISSUED FOR APPROVAL	DESIGN	APP	APP
1	01/01/07	ISSUED FOR APPROVAL	DESIGN	APP	APP

OWNER: GAIL (India) Limited,
A GOVT. OF INDIA UNDERTAKING

PROJECT: M/s. VCS QUALITY SERVICES PVT. LTD.,

PROJECT: LMC TO KARNATAKA POWER LIMITED

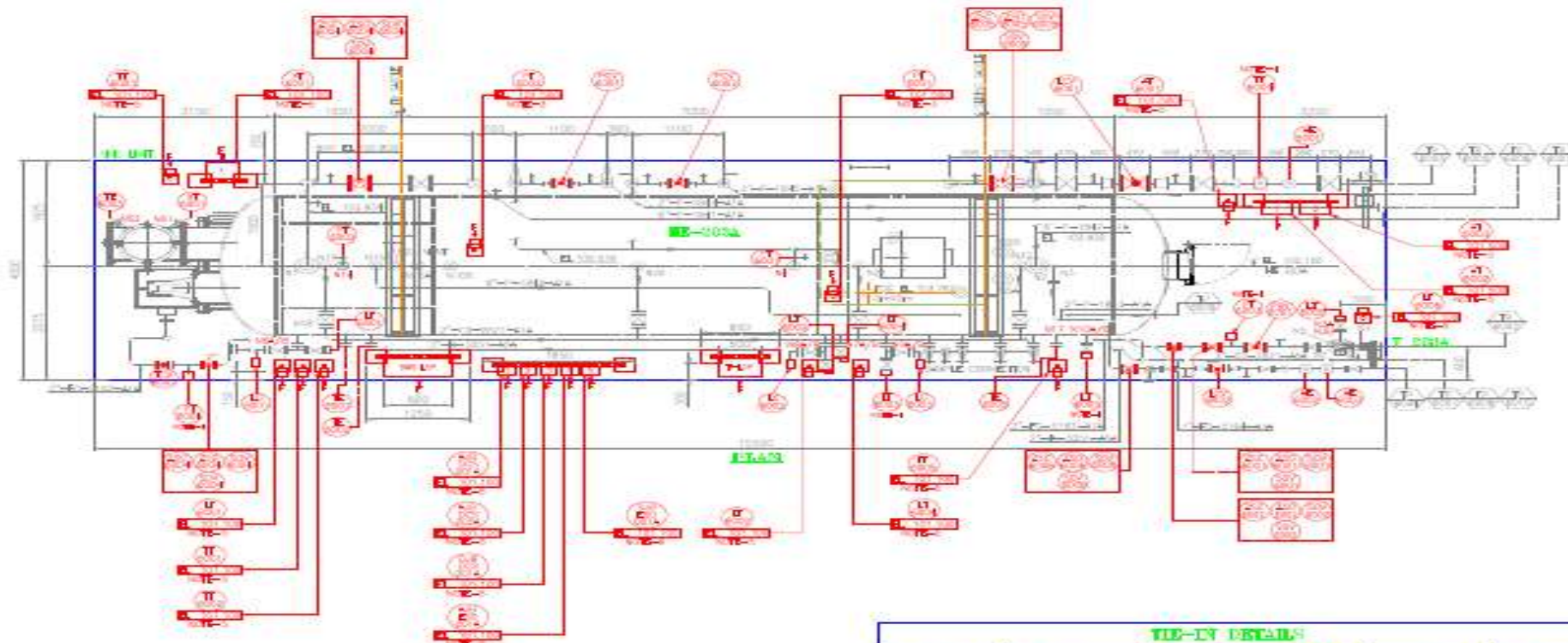
SCALE	TITLE			
1:1	FOC CROSS SECTION AND TYPICAL INSTALLATION DRAWING			
REV	CLIENT JOB NO.	DRAWING NUMBER	SHEET	NO.
00	00000	00000-01-00000000	1 OF 1	



SKETCHCOM
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REFERENCE SAMPLE-10

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TIE-IN DETAILS					
TIE-IN NO.	TIE-IN	TIE CONNECTION DETAIL		CLASS	LINE NO.
		LINE	END TIME		
001	IL RE	27	15:45	404	27-15:45
002	FAL IN TIE	27	15:45	404	27-15:45
003	IL TIE	27	15:45	404	27-15:45
004	OFF-PIPE TIE TIE	27	15:45	404	27-15:45
005	ON-PIPE TIE TIE	27	15:45	404	27-15:45
006	ON TIE	27	15:45	404	27-15:45
007	ON TIE	27	15:45	404	27-15:45
008	ON TIE	27	15:45	404	27-15:45
009	ON TIE	27	15:45	404	27-15:45
010	ON TIE	27	15:45	404	27-15:45
011	ON TIE	27	15:45	404	27-15:45
012	ON TIE	27	15:45	404	27-15:45
013	ON TIE	27	15:45	404	27-15:45
014	ON TIE	27	15:45	404	27-15:45

- GENERAL NOTES:**
1. ELEVATION AND TO CENTER LINE UNLESS OTHERWISE NOTED.
 2. ALL ELEVATIONS ARE IN METERS AND ELEVATIONS ARE IN METERS.
 3. HEAVY ROUTED INSTRUMENT ON ACCESS PLATFORM.
 4. ELEVATION OF INSTRUMENT IS FROM TOP OF ACCESS PLATFORM.
 5. HEAVY ROUTED INSTRUMENT.
 6. HEAVY ROUTED INSTRUMENT ON SIDE SAGE FRAME.
 7. ELEVATION OF INSTRUMENT IS FROM TOP OF SIDE SAGE FRAME.
 8. ELEVATION OF INSTRUMENT JUNCTION BOXES IS FROM TOP OF SIDE SAGE FRAME.

- LEGEND & ASSUMPTIONS:**
- FIELD INSTRUMENT**
- TE - TEMPERATURE
 - TT - THERMISTOR
 - FI - FLOW INDICATOR
 - FC - FLOW CONTROLLER
 - PI - PRESSURE INDICATOR
 - PC - PRESSURE CONTROLLER
 - LI - LEVEL INDICATOR
 - LC - LEVEL CONTROLLER
 - SI - SENSITIVE
 - SC - SENSITIVE
 - SI - SENSITIVE
 - SC - SENSITIVE
- INSTRUMENT JUNCTION BOX**
- JB - JUNCTION BOX
 - JB - JUNCTION BOX
 - JB - JUNCTION BOX
 - JB - JUNCTION BOX
- INSTRUMENTATION SYMBOLS**
- UP - UPSTREAM
 - DN - DOWNSTREAM
 - 4-20 - 4-20 mA
 - 24V - 24V DC
 - 24V - 24V DC
 - 24V - 24V DC
 - 24V - 24V DC

REV. DETAILS:	
REV.	DESCRIPTION
01	ISSUED FOR REVIEW
02	MODIFIED FOR REVIEW
03	MODIFIED FOR REVIEW

APPROVAL STATUS	APPROVAL STATUS
APPROVED	APPROVED
REJECTED	REJECTED
FOR INFORMATION ONLY	FOR INFORMATION ONLY

DATE	DESCRIPTION	BY	CHK	APP
01/01/2020	ISSUED FOR REVIEW	01	01	01
02/01/2020	MODIFIED FOR REVIEW	02	02	02

PROJECT TITLE: MADANAM CPF & PIPELINES PROJECT (CALVERY ASSET)

CLIENT: OIL AND NATURAL GAS CORPORATION LTD ONSHORE ENGG. SERVICES, DELHI

CONTRACTOR: GASTECH ENGINEERING LLC, OKLAHOMA, USA

OWNER: BUSSANAND PRIVATE LIMITED GURGAON, HARYANA

PROJECT TITLE: MADANAM CPF & PIPELINES PROJECT (CALVERY ASSET)

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SKETCHCOM
Engineering & Design
Pvt. Ltd.

DIRECTOR'S PROFILE

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SUBHASH KUMAR
(Managing Director)

B.Tech in Electronics & Communication
Engineering from BITS Pilani, INDIA

MBA from IIM Ahmadabad, Gujarat, INDIA

Certified ISO-9001-2008/15 Quality Auditor

IPMA Level D Certified Professional Engineer

18+ Years of Experience in Design &
Engineering of Telecommunication & Security
Systems, Control & Automation System for Oil
& Gas EPC Projects in India and Middle East.

Previous companies – L&T Hydrocarbon,
BECHTEL, Schneider, Vedanta Resources
(Now CEIL), CIMAC, Allen Bradley.



MUKUL CHAUHAN
(Director & CEO)

B.Tech in Electronics & Instrumentation
UPTU, INDIA

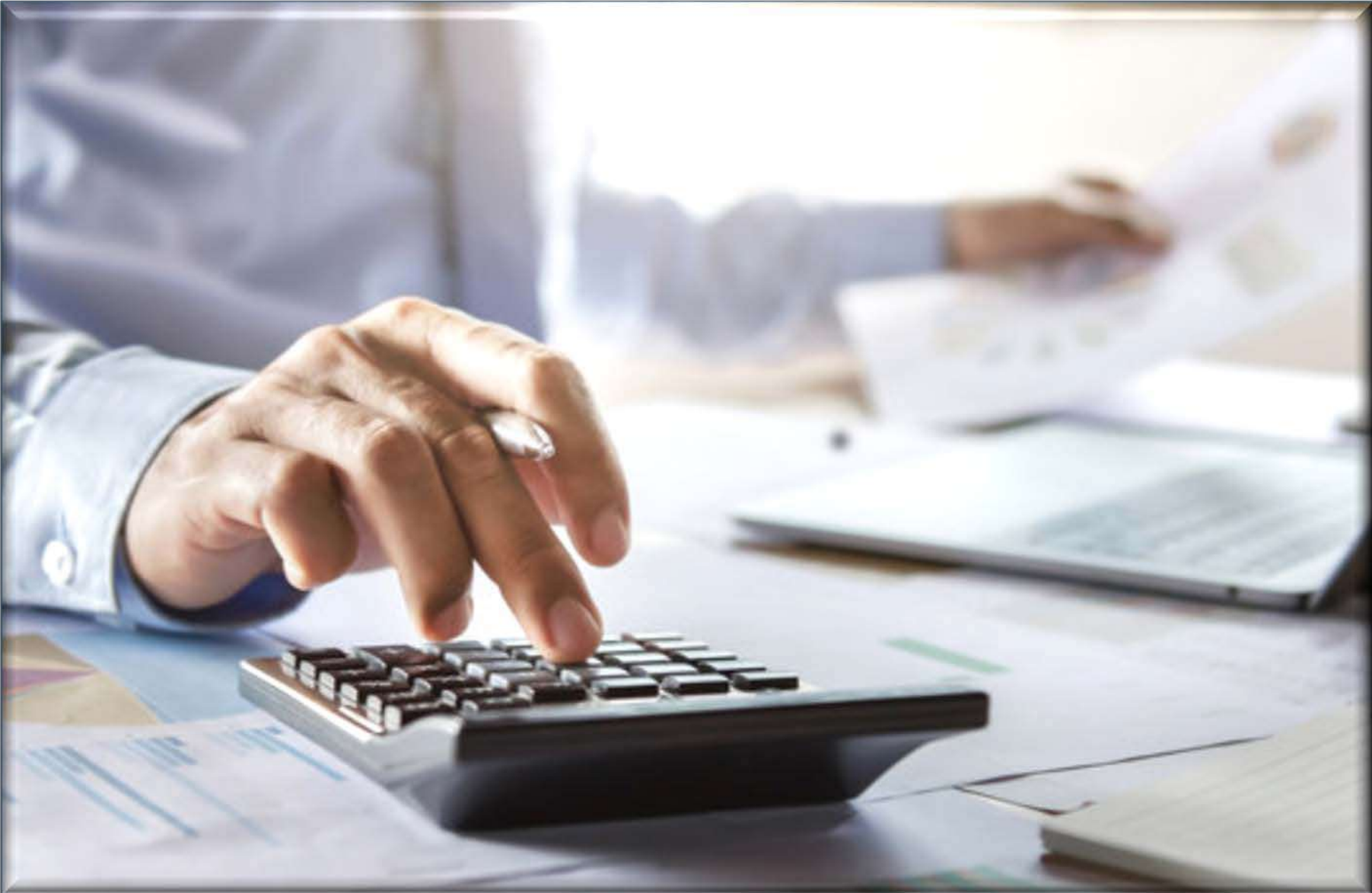
IPMA Level D Certified Professional Engineer

15+ Years of Experience in Design &
Engineering of Telecommunication & Security
Systems, Instrumentation & Control System for
Oil & Gas EPC Projects in India and Middle
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Commercials



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PRICING & PAYMENT TERMS

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Detailed Engineering & Design / FEED / DFR / Consultancy

S.NO	ACTIVITY TYPE	CRITERIA	PRICING	PAYMENTS
1	Detailed Engineering & Design package(Drawings and Documents / Layouts as per Project MDR)	Initial Rev. to Final AFC	Lumpsum + 18% GST	Monthly on Progress % and Weightage
2	Procurement Engineering (MR / Offer Evaluation / TQs / TBE / PR and Vendor Document Review	Till code A approval of all Vendor Documents	Lumpsum + 18% GST	Monthly on Progress % and Weightage
3	Basic / FEED Engineering & Design package(Drawings and Documents / Layouts as per Project MDR)	Initial Rev. to Final AFC	Lumpsum + 18% GST	Monthly on Progress % and Weightage
4	Special Studies	Till Approval of the Study report	Lumpsum + 18% GST	40% Advance with PO 50% upon submission of Study Report 10% after submission of revised report incorporating comments
5	As-BUILTs	RLMU by Purchaser	Lumpsum + 18% GST	20% Advance with PO 80% upon submission of As-BUILTs



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Pvt. Ltd.

PRICING & PAYMENT TERMS

Contd...

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Visits & Deputation

S.NO	ACTIVITY TYPE	CRITERIA	PRICING	PAYMENTS
1	Site Visits / Review Meetings	Max. 7 days	Man-day rate + 18% GST (Excluded : Boarding, Lodging, VISA, Insurance, Travel)	100% after return
2	Deputation (Engineering Office / Site)	Min. 1 Year	Man-Month rate + 18% GST (Excluded : Boarding, Lodging, VISA, Insurance, Travel)	Monthly based on Timesheet



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