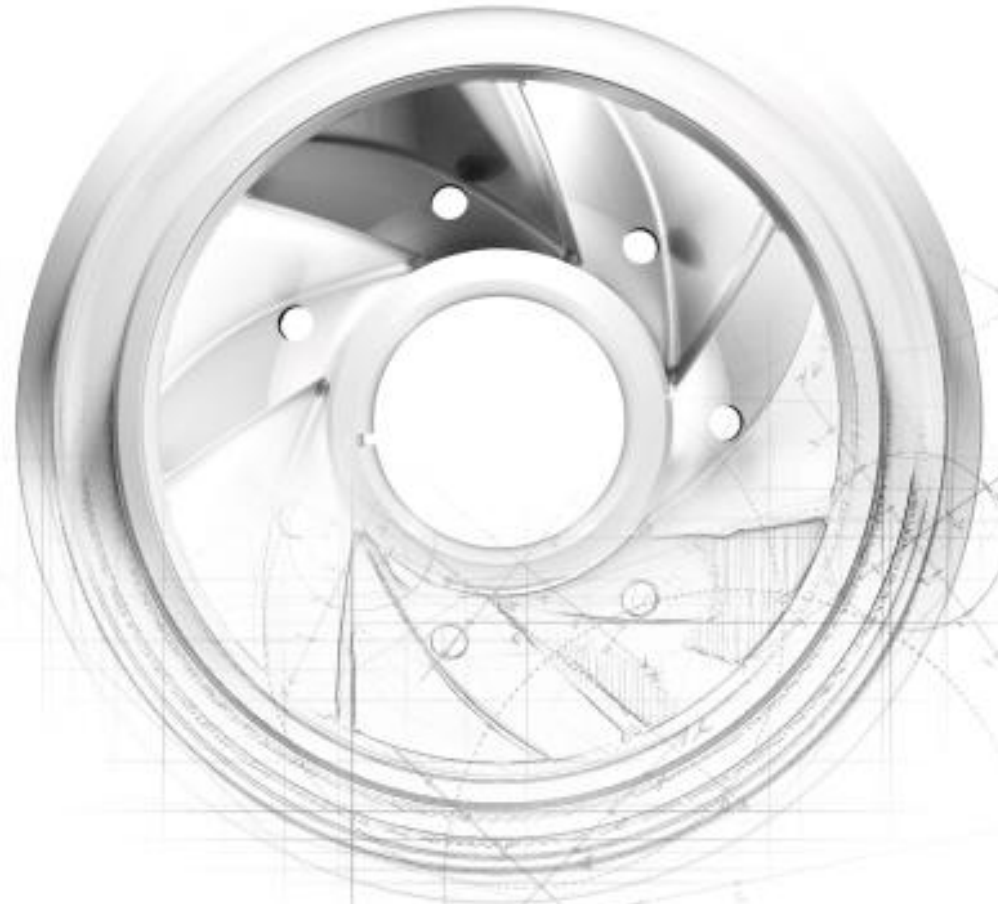


# ALAGAR Oil Field Equipment & Services

**EXCELINE**  
PERFORMANCE MATTERS



**ALAGAR Oil Field Equipment & Services** is UAE based service provider and ESP manufacturer with over 15 years of collective experience.

**ALAGAR**, derives its name from a simple belief that to be a true regional leader in provisioning of a total Electrical Submersible Pumping (ESP) solution, operational excellence is the only issue that matters.

**ALAGAR** introduces own line of ESP under product line name:

**EXCELINE**

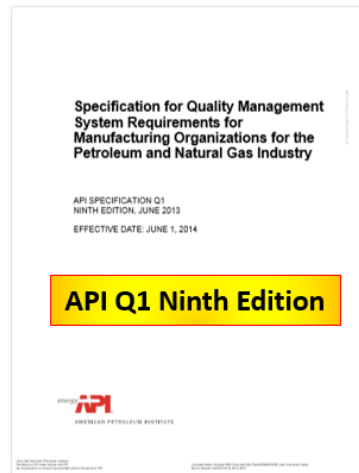
The **EXCELINE Operating System (EOS)** integrates quality, occupational health & safety, and environmental management systems into one complete framework, enabling EXCELINE to work as a single unit with unified objectives.



The **EXCELINE QMS**, embedded within EOS, is based on the latest revision requirements of ISO 9001, API Q1, and API Q2 international quality management system requirements:



**GENERAL** QMS requirements

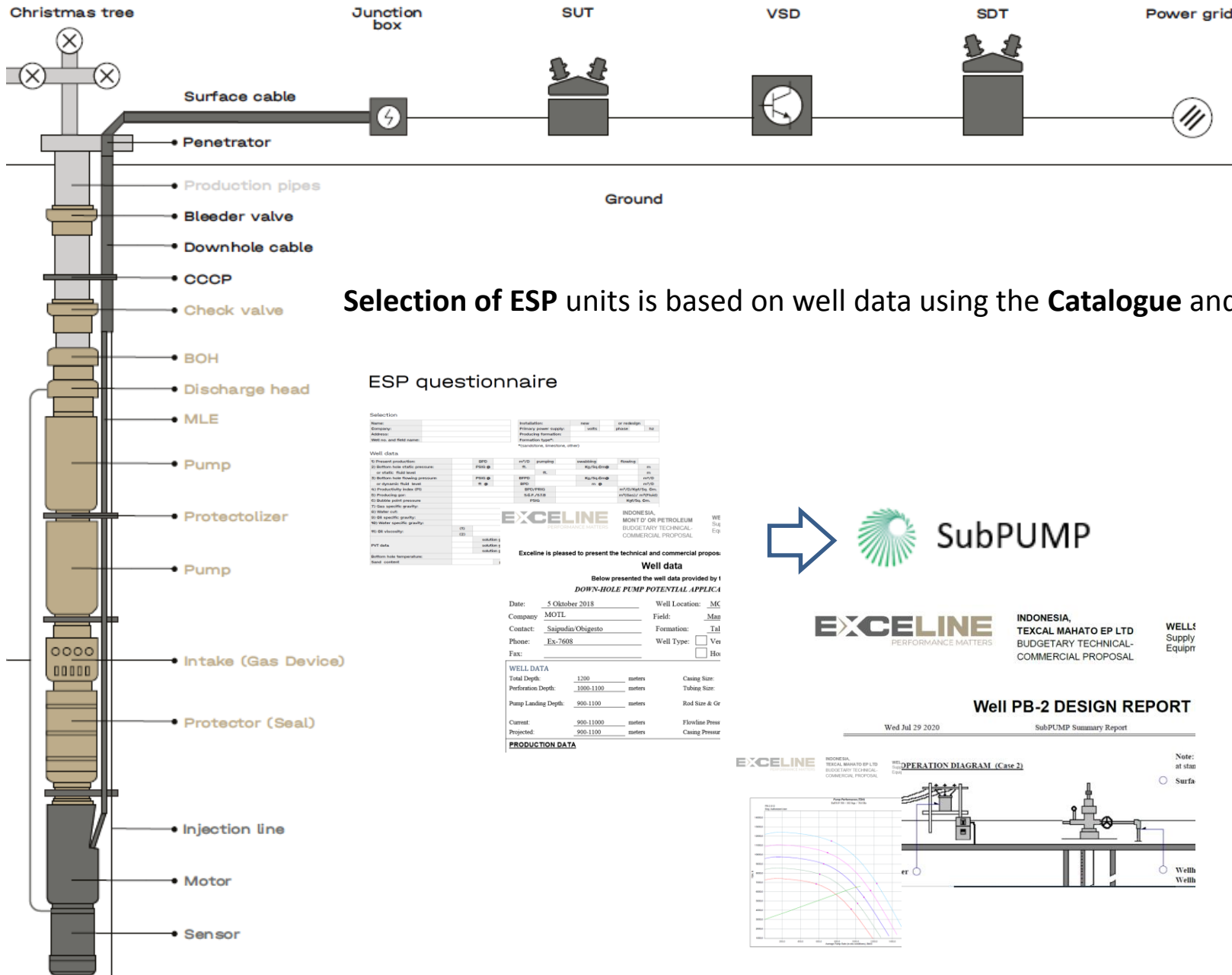


Our industry QMS requirements for **MANUFACTURING**



Our industry QMS requirements for **SERVICE PROVISION**

# ESP sizing & manufacturing



**Selection of ESP units is based on well data using the Catalogue and the Sub Pump**

### ESP questionnaire

Selection		Installation		new	or	rebuild
Name:		Production power supply:	well	or	plant	3rd
Company:		Production formation:				
Address:		Production type:				
Well no. and field name:		*Production, structure, other				

Well data		SFD	SPD	SPD	SPD	SPD	SPD	SPD	SPD
1) Present production		SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD
2) Bottom hole static pressure		SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD
3) or static fluid level		SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD
4) Bottom hole flowing pressure		SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD
5) or dynamic fluid level		SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD
6) Production index (PI)		SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD
7) Production gas		SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD
8) Bottom hole pressure		SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD
9) Size specific gravity		SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD
10) Water specific gravity		SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD
11) Well viscosity		SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD
12) Well viscosity		SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD
13) Well viscosity		SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD
14) Well viscosity		SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD
15) Well viscosity		SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD
16) Well viscosity		SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD
17) Well viscosity		SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD
18) Well viscosity		SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD
19) Well viscosity		SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD
20) Well viscosity		SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD

**EXCELINE** PERFORMANCE MATTERS

INDONESIA, MONY'D OR PETROLEUM WELLS  
BUDGETARY TECHNICAL- COMMERCIAL PROPOSAL

Excelsine is pleased to present the technical and commercial propos  
Well data

Below presented the well data provided by 1  
DOWN-HOLE PUMP POTENTIAL APPLICA

Date: 5 October 2018 Well Location: MC  
Company: MOTL Field: Man  
Contact: Saipudin/Obigesto Formation: Tal  
Phone: Ex:7608 Well Type:  Ve  Ho  
Fax:

**WELL DATA**

Total Depth:	1200	meters	Casing Size:	
Perforation Depth:	1000-1100	meters	Tubing Size:	
Pump Landing Depth:	900-1100	meters	Rod Size & Gr	
Current:	900-11000	meters	Flowline Press	
Projected:	900-1100	meters	Casing Pressure	

**PRODUCTION DATA**



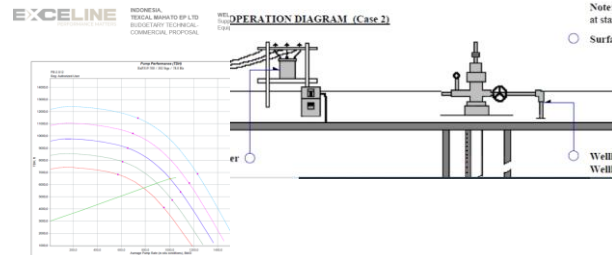
**EXCELINE** PERFORMANCE MATTERS

INDONESIA, TEXCAL MAHATO EP LTD  
BUDGETARY TECHNICAL-  
COMMERCIAL PROPOSAL

WELLS  
Supply  
Equipr

### Well PB-2 DESIGN REPORT

Wed Jul 29 2020 SubPUMP Summary Report



**PUMP**

**Example of abbreviation**

Exp406-200 FLT 0.87 S14 84STG CR1 AR1 10

**Short name:**

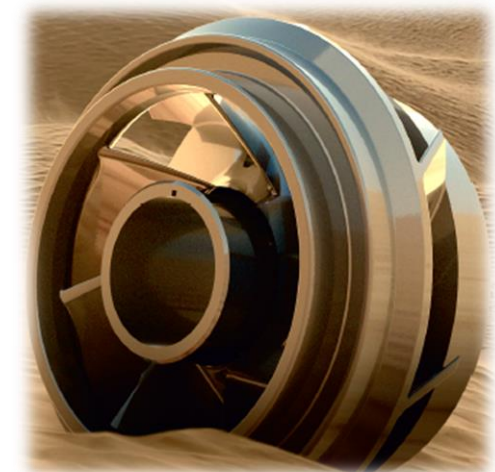
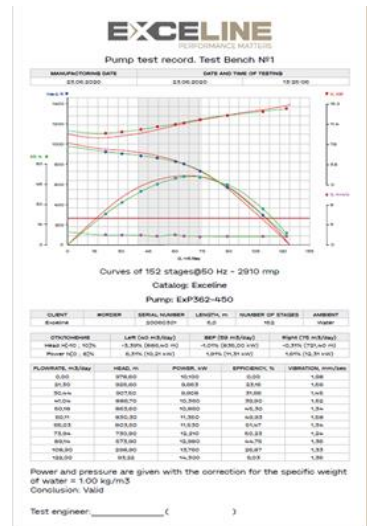
Exp406-200

Housing Diameter (OD inch)

Optimum Operating Range BPD 60Hz

2.72 .....	117 - 511
3.19 .....	150 - 870
3.62 .....	136 - 1880
4.06 .....	136 - 2640
5.35 .....	1600 - 12070

Manufacturing and testing we do basing on detailed ESP design and in accordance with **API 11S2**





# ESP sizing & manufacturing

## PROTECTOR

Example of abbreviation

ExS406 LSBPB HL 0.87 S14 CR1 AR1

Short name:

ExS406 LSBPB

Series: 272 ..... 319 .... 362 .... 406 ..... 512

Thrust bearing load limit (69 Hz lb.): 1190 .. 3174 .. 2117 .. 3174 .. 4409



INTAKES      GAS SEPARATOR      GAS HANDLER  
GAS SEPARATOR – HANDLER

Series: 272 ..... 319 .... 362 .... 406 ..... 535



BOLT-ON-HEAD CHECK VALVE  
BLEEDER VALVE    SAND TRAP

Example of abbreviation

ExBoH 2.875 8RD EUE CR1

Short name:

ExBoH 2.875



## ESP sizing & manufacturing

### WELLHEAD CABLE PENETRATOR

The cable penetrator provides tightness of the submersible cable outlet from wellhead up to **5000** PSI.

**Example of abbreviation**  
ExWP2 5000 AWG4 CR2

**Short name:**  
ExWP2



### MOTOR LEAD EXTENTION

**Example of abbreviation**  
ExMLE406 AWG7 4 450 CRO

**Short name:**  
ExMLE406



### DOWNHOLE SENSOR

**Example of abbreviation**

ExD1S362 2.875-Flg CR1 T2

**Short name:**

ExD1S362

Type of DHS:

1S - Downhole gage type 1. Intake T & P, motor vibration X & Y, motor oil temperature

2S - Downhole gage type 2. Intake T & P, motor vibration X & Y, motor oil temperature + pump discharge pressure

Series:

319  
362  
406  
450

Connection type of discharge sub:

1. Tubing side: Thread - 2-3/8", 2-7/8", 3-1/2"  
Flange with fasteners
2. Pump side: Thread - 2-3/8", 2-7/8", 3-1/2"  
Flange with fasteners

Corrosion resistance design:

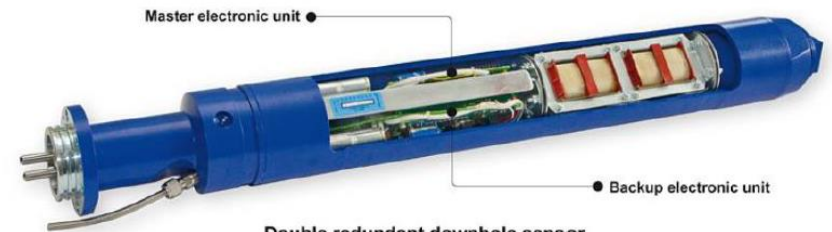
CRO - carbon steel head, base and housing, carbon steel fasteners

CR1 - stainless steel head and base, carbon steel housing with anti-corrosion coating (super stainless flame coating), monel fasteners

CR2 - stainless steel head, base and housing, monel fasteners

Ambient temperature rating

- T1 - for 248°F (120°C)
- T2 - for 302°F (150°C)
- T3 - for 338°F (170°C)



Double redundant downhole sensor



# REMOTE MONITORING SYSTEM

## 1. Data collection

- Collecting telemetry data from a variety of sources
- Collecting data from third-party systems
- Collecting data from manual input forms
- Collecting data from the Internet

## 2. Data processing

- Filtering data from telemetry
- Obtaining the design parameters
- Data validation
- Data aggregation

## 3. Production control

- Representation of data in mnemonic diagrams, maps, and technical diagrams
- View the dynamics of changes in production indicators
- Monitoring of key indicators

## 4. Preparation of reports

- Generation of operational production reports
- Generating analytical reports
- Import\export from \ to Excel



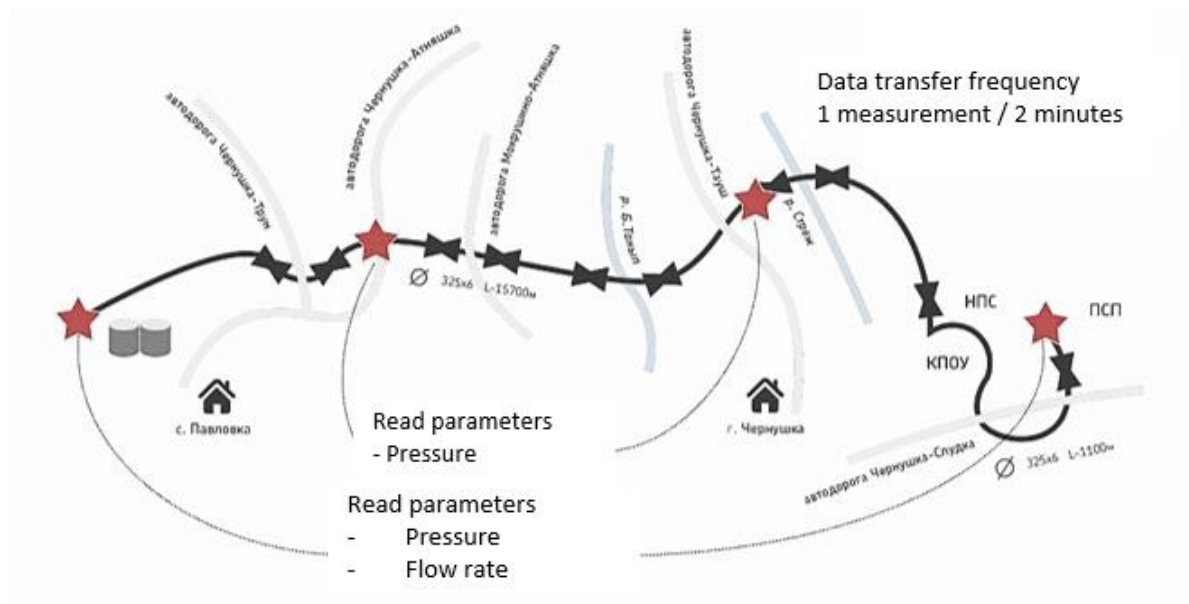
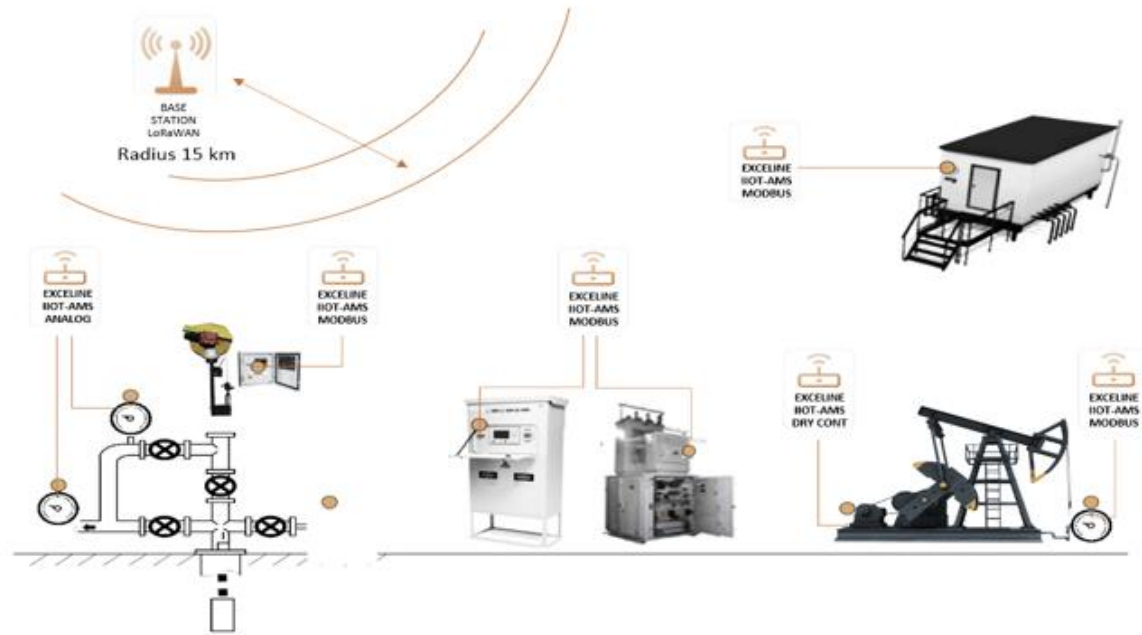
Technology	Way to transmit data to the server	Base station	Antenna for the BS	Client Station	Antenna for the CS
LoRaWAN	3G /4G / LAN	✓	✓	✓	
CELLULAR ROUTERS	3G/4G			✓	✓
WiMAX	LAN	✓	✓	✓	✓

REMOTE MONITORING SYSTEM

# LoRaWAN

Advantages Of LoRaWAN:

1. Does not require antenna alignment
2. Automatic selection of base stations
3. Does not require licensing
4. Easy to install
5. Noise immunity
6. Budget solution
7. Easy to set up



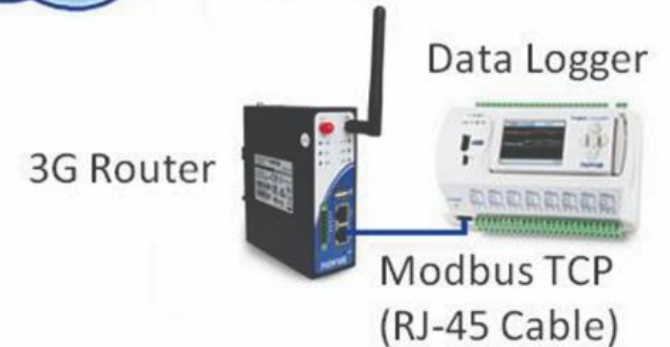
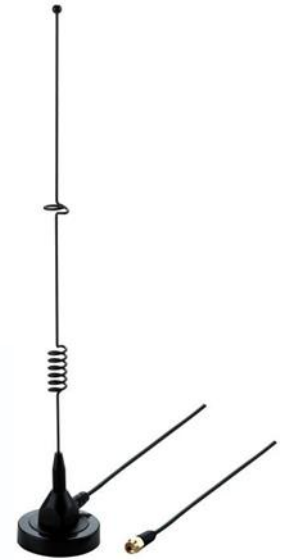
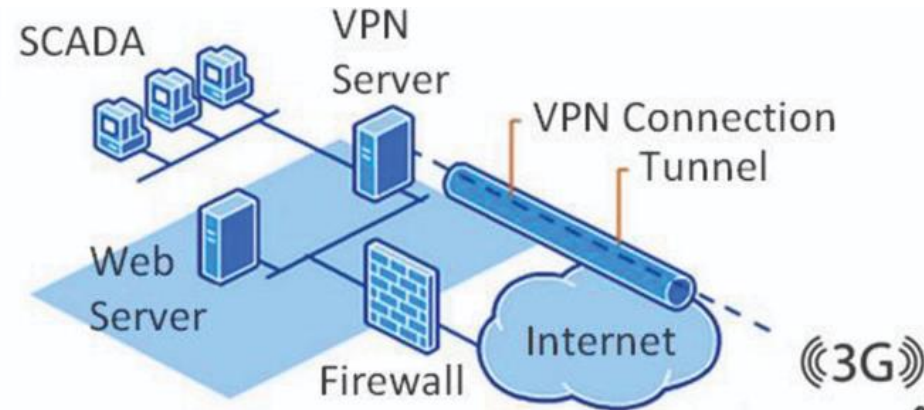
## REMOTE MONITORING SYSTEM

# CELLULAR ROUTERS

CELLULAR ROUTERS requires 3G/4G coverage and a router.

### Advantages Of A Cellular Router:

1. Does not require installation of base stations
2. Does not require antenna alignment
3. Easy to install
4. Works at any point where there is network coverage
5. Budget solution
6. Does not require licensing



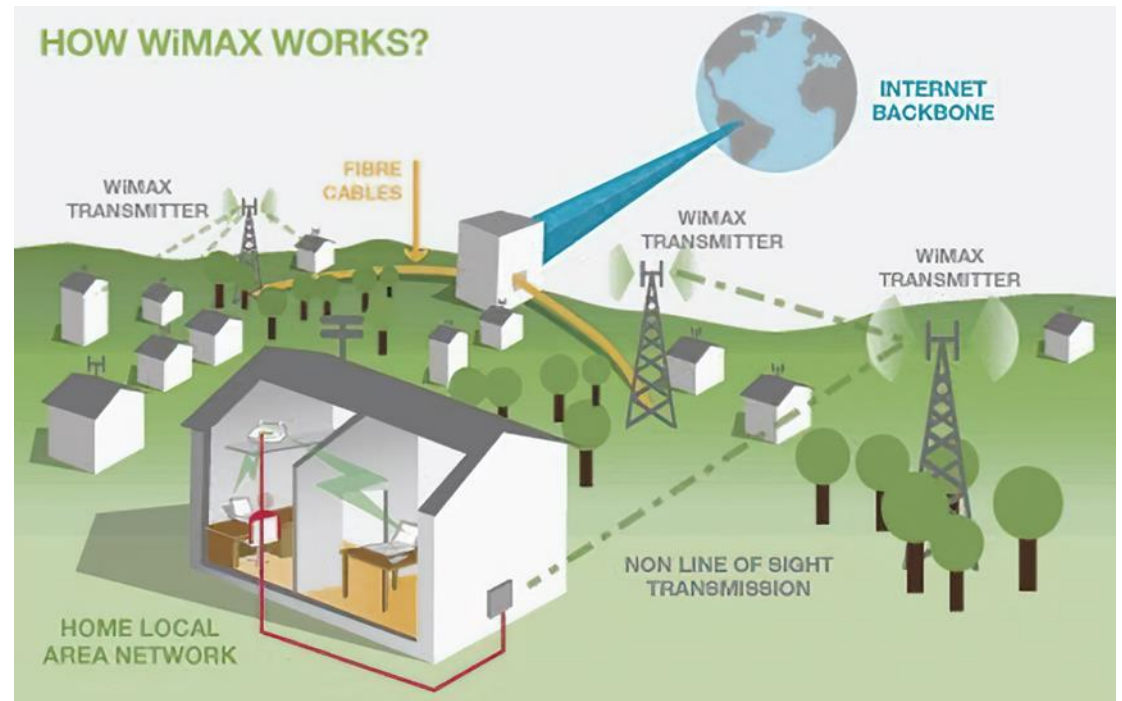
## REMOTE MONITORING SYSTEM

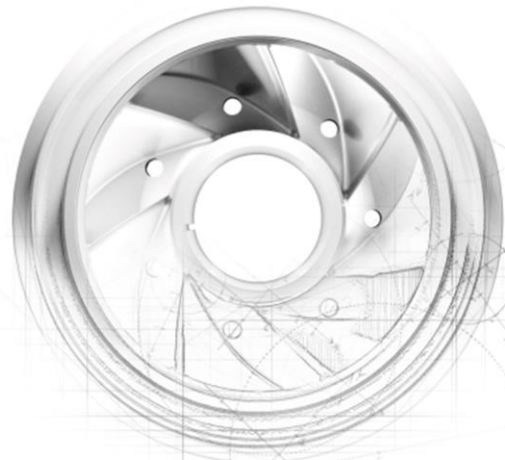
# WiMAX

WiMAX technology is a wireless broadband communications technology based around the IEE 802.16 standard providing high speed data over a wide area

### Advantages Of WiMax:

1. High connection speed
2. High throughput
3. Remote configuration





## **ALAGAR OIL FIELD EQUIPMENT & SERVICES LLC**

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