



**APPLICATION FORM FOR
PRE-QUALIFICATION OF COMPANIES REGARDING
PROVISION OF FRACTURING SERVICES (GROUP-A)
AND OPEN HOLE MULTISTAGE COMPLETION
MATERIAL & COMPLETION SERVICES (GROUP-B)**

PROC-SERVICES/CB/PQ/PROD-3300/2018



INTRODUCTION & TERMS AND CONDITIONS

1. INTRODUCTION

Oil and Gas Development Company Ltd (OGDCL) is Pakistan's leading E&P sector company, having operations at about 50 locations and fields in all the four provinces. The Company is listed and traded on Pakistan Stock Exchange with highest market capitalization. Recently the Company, through GDR process, has also been listed on London Stock Exchange. More details about the Company can be obtained from its website www.ogdcl.com.

1.1 Invitation of Applications

Applications are invited from potential firms having requisite capability, experience and expertise for providing DST services with flex test at incoming OGDCL wells..

2. SUBMISSION OF APPLICATIONS.

- 2.1 The pre-qualification application shall be submitted in duplicate (one marked "ORIGINAL" and the one marked "COPY") in a sealed envelope clearly marked as: "**APPLICATION FORM FOR PRE-QUALIFICATION OF COMPANIES REGARDING PROVISION OF FRACTURING SERVICES OPEN HOLE MULTISTAGE COMPLETION MATERIAL AND COMPLETION SERVICES AGAINST PRE-QUALIFICATION NOTICE NO. PROC-SERVICES/CB/PQ/PROD-3300/2018**" must be delivered / dropped in the tender box / OGDCL reception at time & date mentioned in Press Tender Notice" at the following address:-

A/Manager (SCM) Services

Oil & Gas Development Company Limited
Supply Chain Management Department
OGDCL House, Plot No. 3 (New No. 3013) F-6/G-6,
Jinnah Avenue, Islamabad (Pakistan)
Phone No. 92-51-920023780/ 3652
Email: ejaz_rizvi@ogdcl.com

- 2.2 The sealed envelope shall indicate the name and address of the Applicant.
- 2.3 All the pages of application shall be signed and stamped by Applicant's authorized Representative(s).

2.4 Language of Application

The Application must be prepared and submitted in English language. Supporting documents and attachments furnished by the Applicant must also be in English language.

2.6 Cost of Pre-Qualification.

The Contractor shall bear all cost associated with the preparation and submission of application for Pre-Qualification. OGDCL shall under no circumstances be responsible or liable for such cost regardless of the out-come of the application process.



2.7 **Deadline for Submission of Application**

- 2.7.1 The original application, together with the required copies must be delivered / dropped in the tender box / OGDCL reception **at time & date mentioned in Press Tender Notice”** at the following address:- at the address specified in clause 2.1.
- 2.7.2 OGDCL may, at its discretion extend the deadline for the submission of applications by amending the Pre-Qualification documents in which case all rights and obligations of the OGDCL and Applicants previously subject to the deadline will thereafter be subject to the deadline as extended.

2.8 **Late Submission of Applications**

Any Application received after deadline for submission of Applications prescribed by the Company pursuant to Clause-2 will be rejected and returned unopened to the Applicant.

2.9 **Clarification of Applications.**

To assist in the examination, evaluation and comparison of Applications the Company may at its discretion, ask the Applicant for a clarification of its application.

2.10 **OGDCL’S Right to Accept or Reject any or All Applications.**

The Company reserves the right to accept or reject any application or to annul the Pre-Qualification process and reject all Applications at any time without thereby incurring any liability to the effected Applicant or any obligation to justify the affected Applicant or Applicants of the grounds for the Company’s action.

2.11 **Affidavit**

The Applicant shall provide an affidavit that his firm has never been blacklisted. In case the Applicant is in litigation or dispute or has involved in litigation or dispute with Company (OGDCL), details and nature of litigation and dispute may be indicated.

2.12 **Evaluation/Short-listing/Prequalification Criteria**

Evaluation/Short-listing/Prequalification shall be carried out on Group Wise basis.

(Syed Ejaz Abbas Rizvi)
A/Manager (SCM) Services



TERMS OF REFERENCE (TOR)

**TECHNICAL PREQUALIFICATION OF COMPANIES FOR PROVISION
FRACTURING SERVICES, OPEN HOLE MULTISTAGE COMPLETION
MATERIAL AND COMPLETION SERVICES**

SECTION 'A' - TECHNICAL DETAILS

1. INTRODUCTION

OIL AND GAS DEVELOPMENT COMPANY LIMITED (OGDCL) INTENDS TO PREQUALIFY COMPANIES FOR PROVISION OF FRACTURING SERVICES, OPEN HOLE COMPLETION MATERIAL AND COMPLETION SERVICES FOR ITS EXPLORATORY, DEVELOPMENT, SHALE GAS, TIGHT GAS AND WORKOVER WELLS AT ALL OGDCL OPERATED FIELDS/BLOCKS OR ANY OTHER AREA IN PAKISTAN FOR THREE YEARS.

Oil and Gas Development Company Limited has vested interests in a number of Exploratory and Development Blocks across Pakistan. The company is looking into the option of carrying out Hydraulic Fracturing Services (both Acid Frac and Proppant Frac) through open hole or cased hole completions on suitable candidate wells. The intended activities will be carried out with rig or rig-less as feasible. The candidate wells are expected to produce anything from dry gas, gas condensate to crude oil. Bids are invited to provide specialized services, expertise, materials and equipment to effectively design and implement hydraulic fracturing treatment, (Propped fracturing, Acid fracturing and stimulation jobs (including mini-Frac/Data Frac/Main Frac) on candidate wells in OGDCL operated fields anywhere in Pakistan.

Considerable resources in terms of low-very low permeability carbonate, sandstone and shale reservoirs have been found which are yet to be fully exploited. To unlock this potential, OGDCL intends to carry out fracturing jobs. The candidate wells are located in all over Pakistan with varying ranges of anticipated reservoir pressures, temperatures and depths. Reservoirs are expected to lie in areas of low to high tectonic activity with wells surrounded by faults.

Tentative Work Plan:

The recent Shale Gas-Tight Gas study for OGDCL suggested three top priority areas for pilot projects. The sweet spots in all of them are at the depth range of 3500m to 4500m in Cretaceous Sands and Shales. Each project will have one to two laterals of at least 1000m comprising 10 - 16 Frac Stages. The vertical sections of the sweet spots will be subjected to Break-Down/Minifrac/Datafrac Tests which will qualify these spots for further drilling of lateral wells in them. That means the drilling and Frac-stimulation of laterals will be contingent upon the results of the minifrac test results of the respective vertical sections.



Possible Candidate Leases for Hydraulic/ Acid Fracturing jobs in coming 03 years:

Sr. No.	Job	No. of Job	Frac-Stages	Type of Well	Lithology	Formation/ Age
1	Breakdown/Mini-frac/Data-frac tests	03 - 08	-	Shale/ Tight Gas laterals/ Vertical	Clastics & Carbonates	Eocene to Cambrian
2	Hydraulic Fracturing	01	01 - 02	Shale/ Tight Gas /	Clastics & Carbonates	Eocene to Cambrian
3	Hydraulic Fracturing	02	10 - 20	Tight gas laterals	Clastics & Carbonates	Eocene to Cambrian
4	Hydraulic Fracturing	02 - 03	10 - 20	Shale Gas laterals	Clastics & Carbonates	Eocene to Cambrian
5.	Acid Fracturing	02 - 03	02 - 04	Vertical	Carbonates	Eocene to Cambrian

GROUP-A: TECHNICAL PREQUALIFICATION OF COMPANIES FOR FRACTURING SERVICES

2. SCOPE OF WORK FOR BIDDERS:

Scope of work includes but not limited to the following:

2.1 Candidate Selection & Evaluation

Review of the fields/wells data provided by the Company, short list and finalize wells suitable for frac execution (for conventional & unconventional reservoirs) in terms of completion and work-over requirements (e.g tubing, packer, isolation plugs, perforations, wellhead requirements, sand plugs etc.), identify additional data requirements which could be provided if available.

Advise about the feasibility for MSS Completion if required.

2.2 Hydraulic Fracture Design

Frac designs shall include detailed fracturing program with frac completion requirements, pumping schedule & specifications of frac chemicals like friction reducers, water/slick water & proppant. Contractor shall design and analyze Mini FRAC. Fracturing design shall be fine-tuned based on MiniFRAC results and lessons learnt from previous fracs. Contractor should be capable of simulating frac geometries in 3D frame.

2.3 Hydraulic Frac Execution

The Contractor must own a hydraulic frac fleet complete in all respects with sufficient backup, capable of fast rig up & having a minimum of 15,000 hydraulic horsepower and capable to manage 20,000 hydraulic horsepower pumping capacity (with sufficient redundancy) if required. The contractor must have capability of handling surface pressure upto 15,000 psi and be able to pump proppant (PPA 0.1 to 12) at the rate of 60 bpm or more.



2.4 Post Frac Job Review

The Contractor shall conduct detailed post frac review of each well, present it to the OGDCL and submit report incorporating all the details of the job executed and learning for the next fracs.

2.5 Fracturing Process – Campaign

2.5.1 Contractor to clearly communicate & submit the screening, selecting & upgrading criteria for hydraulic fracturing treatment to OGDCL for approval.

2.5.2 Contractor shall evaluate, screen & select feasible frac candidates and submit their proposal to OGDCL for approval with clearly defined reasons for selecting or not selecting candidate wells.

2.5.3 Contractor shall submit the frac designs of approved candidate wells to OGDCL for approval sufficiently prior to job.

2.5.4 Contractor shall select and provide suitable frac fluids & proppant with the lab test results for fluid and proppant at bottom hole reservoir conditions (including but not limited to HTHP rheology and proppant crush test, with tracking proof) for approval to OGDCL.

2.5.5 Contractor shall design, execute and analyze MiniFRAC on each selected well after approval from OGDCL.

2.5.6 Contractor shall submit any required modifications in frac designs after MiniFRAC analysis for approval.

2.5.7 Contractor shall **meet the approved/agreed timeline** for frac fleet & equipment mobilization and execution of frac jobs.

2.5.8 Contractor shall pump job as per design and procedures approved by OGDCL under the supervision of OGDCL appointed supervisor.

2.5.9 Contractor shall provide detailed post frac review and incorporate learning from each frac treatment into subsequent frac jobs.

2.6 Details of Requirement (Deliverables for Scope of Work)

The company expects high level of competence and expertise from the Contractor including but not limited to the following:

2.6.1 Deliverables for Scope of Work Item 2.1 - Candidate Selection & Evaluation

2.6.1.1 Review & analyze the respective well data.

2.6.1.2 Contractor shall screen suitable frac candidates and advise about Frac/work-over/completion if required.

2.6.2 Deliverables for Scope of Work Item 2.2 - Hydraulic Fracturing Designs

2.6.2.1 Designing hydraulic frac job using industry accepted/ prevalent software.

2.6.2.2 Design & provide the step by step detailed fracturing program which shall include pumping schedule and contingencies.

2.6.2.3 Shall have the capability to carry out analysis of the water/ flow back fluids/formation cutting sample analysis for use during the hydraulic fracture and shall recommend the same at the design and execution stage.

2.6.2.4 The Contractor shall develop the frac design based on completion quality of reservoir (whichever dataset is available), establish frac gradient, Fracture Closure Pressure,



simulate fracturing pressures, elastic properties, complete stress profile & stress barriers and advise about completion selection in the light of simulated parameters.

2.6.2.5 Contractor shall identify and design optimal propped fracture half-length including:

- Frac Height
- Average Propped Width
- Effective Conductivity
- Post Frac Hydrocarbon Profile / Production Forecast
- Flow Back Monitoring Strategy

2.6.2.6 Contractor shall estimate the cost and submit financial proposal to OGDCL sufficiently ahead of each job.

2.6.2.7 Contractor shall select & provide suitable Frac fluid & proppant, based on:

- BHT & BHP
- Lithology
- Fluid Compatibility
- Adequate Rheology
- Designed Effective Conductivity
- Cross Linking Process
- Fluid Loss Additives
- Proppant Flow Back Control Additives

2.6.2.8 Contractor shall provide full and complete support to the Company's supervisor to analyze the following during main frac treatment and enabling him to take on-spot decisions regarding:

- Injectivity / Breakdown
- Transmissibility Analysis Using Mini Frac Data
- Step Rate Test (Closure Pressure, Extension Pressure)
- Decline (Closure Pressure, Fluid Efficiency)

2.6.3 Deliverables for Scope Of Work Item 2.3 - Hydraulic Frac Execution

2.6.3.1 The Contractor shall have one complete frac fleet with at least but not limited to the following equipment;

2.6.3.1.1 **15K Frac Tree / well head isolation tool;**(compatible X-mass tree size: 2-9/16" x5K, 3-1/8" x5K, 3-1/16" x10K, 4-1/16" x10K, 3-1/16" x15K, 4-1/16" x15K)

2.6.3.1.2 **08 x 2000 HHP Frac pumps or equivalent** (Minimum HHP 15,000 and commitment to arrange HHP 20,000 15Kpsi Rated)

2.6.3.1.3 **Proppant conveyors**/Automated Sand hauling/storage unit (Suitable for handling 500 Klbs of any type of proppant)

2.6.3.1.4 **Data Monitoring Van** with fully equipped data acquisition system for all required parameters.

2.6.3.1.5 **Blender Unit(s)** with back-up Suitable for blending to feed up to 6ppa with 60bpm

2.6.3.1.6 **Hydration units**, capable for continuous mix operation during fly mixing job.

2.6.3.1.7 **Field lab** (equipped for onsite QAQC including but not limited to rheology and breaker testing.

2.6.3.1.8 Appropriate back-up support for all above.

2.6.3.2 Contractor shall have a minimum of following lab apparatus



- 2.6.3.2.1 Fann35 viscometer (or equivalent).
- 2.6.3.2.2 HPHT Rheometer (for measuring rheology at simulated downhole conditions).
- 2.6.3.2.3 Blender w/ adjustable rheostat to control mix speed.
- 2.6.3.2.4 Properly calibrated digital pH probe.
- 2.6.3.2.5 Thermometer
- 2.6.3.2.6 Graduated cylinder or similar for liquid measurement
- 2.6.3.2.7 Standard water analysis kit
- 2.6.3.2.8 1 mL – 10 mL plastic syringes
- 2.6.3.2.9 Suite of sand screens to perform API spec sieve analysis
- 2.6.3.2.10 Stopwatch
- 2.6.3.2.11 Weight Balance
- 2.6.3.2.12 Heat bath and/or microwave to heat samples and confirm activity of thermal cross-linker.
- 2.6.3.2.13 Containers to collect onsite samples of all chemicals
- 2.6.3.2.14 Digital scale
- 2.6.3.2.15 Density measurement device

NOTE: A dedicated sample catcher shall be deputed for collection of samples from sampling point installed at the discharge line so that real time samples can be collected during the treatment. This sampling point is typically installed on the discharge manifold of the blender (low pressure) and a dual ball valve system or similar is recommended.

- **Onsite Spares Storage** – stacked with adequate operational spares
 - **Backside/annulus pump unit** (10 kpsi min) with pressure safety valve.
 - **15K high** pressure pumping manifold with pumping lines capable up to 60 bpm.
 - **Frac chemicals & proppant**
 - Suitable capacity electrical **power generators**
 - **Spill control** equipment
 - Acid and Chemical handling **Personal protection equipment**
 - **Real-time data monitoring & publishing** support during frac execution
 - **Acid storage tank** (500 bbl. minimum)
 - **Diesel storage tank** for frac fleet
 - Water/Chemical/ Acid **transfer pump**
- 2.6.3.3 Contractor shall provide confirmation for the frac fleet and auxiliary equipment reaching the first frac location which shall be no later than 45 days after finalization of job design.
- 2.6.3.4 Contractor shall provide complete technical specification of the Frac treatment equipment.
- 2.6.3.5 Contractor shall provide and maintain Third Party Certification on all its equipment, tools & lifting gears.
- 2.6.3.6 Contractor shall carry out necessary pre job lab testing and data acquisition to facilitate and ascertain treatment design parameters witnessed by OGDCL representative.
- 2.6.3.6.1 Carry out pre-job water analysis.
 - 2.6.3.6.2 Carry out all required pre-job frac fluid testing on location.
 - 2.6.3.6.3 Carry out proppant sieve analysis.



- 2.6.3.6.4 Provide post treatment support to assess job performance.
- 2.6.3.7 Provide necessary experienced personnel, equipment and materials to effectively implement the designed job.
- 2.6.3.8 Capable to carry out 24 hours Frac operations.
- 2.6.3.9 Provide detailed reports (including treatment plot & frac profile), accurately describing the execution.

2.6.4 Deliverables for Scope of Work Item 2.4 - Post Frac Job Review

- 2.6.4.1 Conduct post frac analysis after every individual job to incorporate learnings prior to executing next job.
- 2.6.4.2 Conduct detailed post frac review & submit the report to the OGDCL which shall include complete treatment plots, chemical plots and data file.
- 2.6.4.3 Complete mixing and pumping schedules.
- 2.6.4.4 Shall include Treatment Reports and Analyses Results.

2.6.5 Other Deliverables

2.6.5.1 Personnel(Engineers and Supervisors):

- 2.6.5.1.1 Contractor during the screening, selecting, high grading & frac designing process shall deploy personnel who have proven track record of successful frac evaluation, design & execution of conventional, shale or tight gas/oil reservoirs having at least 05 years of experience. Contractor to confirm availability of back-up personnel in case of any emergency.
- 2.6.5.1.2 Complete list of key personnel along with detailed CV's highlighting their level of competence that will be involved in frac execution, and provide necessary support during the job (both primary and backup crews).
- 2.6.5.1.3 The contractor to confirm availability for deployment of highly trained & experienced professionals & support crew required at execution stage having at least 05 years or more frac execution experience and multistage completion.

2.6.6 Materials and Chemicals:

- 2.6.6.1 As per job specifications, arrangement of materials for the planned activities shall be the responsibility of the Contractor having a proven track record of delivering uninterrupted supply of material, proppant & chemicals from a reputable manufacturer.
- 2.6.6.2 The Contractor will provide chemicals and materials:
 - 2.6.6.2.1 To be used in low to high pressure reservoirs.
 - 2.6.6.2.2 To be used in low to high temperature reservoirs.
 - 2.6.6.2.3 To be used in low to high stress environments.
 - 2.6.6.2.4 Third party vendor certifications of materials and chemicals.
 - 2.6.6.2.5 Additional 15 - 16% proppant and chemicals to the design requirement at location, to accommodate change in job design.
 - 2.6.6.2.6 Onsite materials (Proppant & Frac Fluid additives, etc.) shall be of same batch & Lot numbers as per fluid lab testing reports.

3 DOCUMENTATION FOR TECHNICAL EVALUATION



Bidders are required to certify operational worthiness and provide the following documents:

3.1 Equipment

Following details for all equipment to be provided for services at OGDCL:

- 3.1.1 Age of Equipment
- 3.1.2 Make and model of Equipment
- 3.1.3 Equipment certification with full specifications, maintenance history, and pressure test certificates where necessary, etc.
- 3.1.4 Equipment work history.
- 3.1.5 Complete equipment specifications.
- 3.1.6 Details of lab and testing services available (clearly identifying the facilities available in house & on site) to help gather relevant information to design optimized treatments
- 3.1.7 Pressure & Temperature and operational ratings.
- 3.1.8 Point of origin of the equipment and the time period required for mobilization.

3.2 Proppant, Chemicals & Frac Fluids

Following details for proppant, chemicals and frac fluids are to be provided to OGDCL for the frac jobs:

- 3.2.1 Proppant Crush tests for recommended proppant as per design.
- 3.2.2 Rheology, Pressure and Temperature limitations of frac fluids with additives (for fluids recommended as per design).
- 3.2.3 If the material is being acquired from third party vendor, the Contractor will be required to provide the manufacturer details, brand name and third party certification for quality and consistency.

3.3 Company Profile

Following details are to be provided specifically with respect to fracturing jobs undertaken by the bidder:

- 3.3.1 Total number of jobs executed globally.
- 3.3.2 Case Histories of Fracturing and Stimulation Jobs successfully completed around the globe (in the last 5 years) in conventional and unconventional reservoirs.
- 3.3.3 Case Histories of Fracturing and Stimulation Jobs successfully completed locally in Pakistan (in the last 5 years) in conventional and unconventional reservoirs.
- 3.3.4 Customer appreciation letter.

4 PERSONNEL

Detailed CV's of all personnel intended to be deployed for this project shall be provided to the Company including:

1. HSE / technical training details.
2. Proficiency evidence of spoken and written English.
3. Able and willing to work across, Pakistan.

5 HEALTH, SAFETY & THE ENVIRONMENT



5.1 Contractor shall be responsible & accountable for all HSE aspects of the mobilization / De mobilization & execution of the frac. The following details are required with respect to HSE adherence by bidder:

- 5.1.1 HSE training & certifications
- 5.1.2 HSE records and statistics
- 5.1.3 Hazardous material handling & transportation procedures
- 5.1.4 Hazard identification & risk analysis

5.2 Key Performance Indicators (KPIs)

5.2.1 Equipment

All equipment shall be fully tested and pre-checked at base before mobilizing to location. OGDCL will not carry out job with substandard equipment.

5.2.2 Material

All chemicals, proppant & other materials, equipment and fleet standby. All materials (proppant/chemicals/completions) shall be inspected and quality-checked at base before mobilizing to location. OGDCL will not carry out jobs with substandard material.

6 TECHNICAL SPECIFICATIONS

Scope of the following technical specification is to define the minimum service requirements to provide equipment/tools and qualified & competent personnel with relevant experience.

- 6.1 The Bidder shall not leave any item(s) of requirement un-answered or leave it blank or shall not write only yes, thus, must give details (i.e. drawing, technical literature or other relevant information) of quoted tools/equipment and their applicability with the jobs mentioned herein or any additional jobs not covered in this tender document, which shall affirm the completeness of their bid. **A simple "yes" is not acceptable as an answer.**
- 6.2 The Bidder to confirm the possession of at least one (01) set of complete fracturing setup with sufficient backup to perform proppant and acid fracturing to support Oil and Gas Development company Limited (OGDCL) operation(s). The complete fracturing setup with backup must be made available in Pakistan throughout the prequalification period.
- 6.3 The Bidder to confirm maintenance facilities available in Pakistan for all hydraulic fracturing services covered herein and/or any additional/supplementary services not covered in this tender document.
- 6.4 The Bidder, to quote conventional and advanced techniques and equipment for acid and proppant fracturing, frac design, fluid recovery and results evaluation and other miscellaneous not covered in this document, with support available at site for the duration of job.
- 6.5 All equipment/tools quoted by the bidder must be in good working condition with valid inspection and calibration certificate(s) for the performance of job(s) specified by



OGDCL. [OGDCL reserves the right to inspect quoted equipment and tools as part of technical evaluation]

- 6.6 Bidder, to provide SOFT COPY of the TECHNICAL PROPOSAL including complete submission (certificates, attachments, manuals, case histories) in CD-ROM or solid state storage device along with the bid submission as hard copy.
- 6.7 It is MANDATORY that all quoted tools/equipment shall be suitable for sour service requirements.
- 6.8 The Bidder to confirm compliance with OGDCL's QHSE Policy.
- 6.9 Personnel must be:
 - 6.9.1 Sufficiently experienced to efficiently carry out the intended tasks.
 - 6.9.2 Be able and willing to work anywhere in Pakistan.
- 6.10 Contractor must provide suitable equipment:
 - 6.10.1 To meet the high pressure pumping requirements.
 - 6.10.2 To meet the high rate pumping requirements.
 - 6.10.3 That is versatile and rugged enough to perform in extreme environments.
 - 6.10.4 For performing operations with rig at location and in rig-less environments.
 - 6.10.5 For pumping volatile and abrasive materials and chemicals.
 - 6.10.6 For complementing the available on-site equipment such as cross-overs and tree savers/frac trees etc.
- 6.11 Arrangement of Materials and Chemicals for the planned activities shall be the responsibility of the contractor. The contractor will be required to make available chemicals and materials:
 - 6.11.1 To be used in low to high pressure reservoirs.
 - 6.11.2 To be used in low to high temperature reservoirs.
 - 6.11.3 To be used in low to high stress environments.
 - 6.11.4 To be used in Conventional and Unconventional Reservoirs (shale gas and tight gas etc.).
 - 6.11.5 From third party vendors in case not available with the contractor along with third party certifications of the materials and chemicals.
 - 6.11.6 To handle the post job issues as per best industry practices (proppant flow back control materials, polymer damage and emulsion treating materials etc.).

7 TREATMENT DESIGN AND OPTIMIZATION

- 7.1 Design optimized treatments (Volume and recipe) for respective wells.
- 7.2 Carry out necessary modeling to estimate the post treatment production attributes with a reasonable degree of accuracy, before and after the stimulation job.
- 7.3 Provide a detailed report on treatment design detailing the available data and assumptions.

8 TREATMENT IMPLEMENTATION

- 8.1 Provide expertise and knowledge to carry out conventional and specialized hydraulic fracturing, acid fracturing and stimulation jobs using latest technologies.



- 8.2 Provide necessary experienced personnel, equipment and materials to effectively implement the designed job.
- 8.3 Provide detailed programs for the planned treatment and activities.
- 8.4 Provide detailed reports, accurately describing the treatment implementation, assessment and future recommendations.

9 SUPPORT SERVICES

- 9.1 Provide support in acquisition and interpretation of key data required for the formulation of the Mechanical Earth Model and assessment of specific reservoir conditions and characteristics.
- 9.2 Carry out necessary pre-job testing and data acquisition to facilitate and ascertain treatment design parameters.
- 9.3 Carry out necessary pre-job testing to facilitate and ascertain chemicals and job performance.
- 9.4 Provide post treatment support to assess job performance and remedy unplanned and unfavorable job impacts.

10 TECHNICAL DESCRIPTION

- 10.1 The candidate wells are identified in various field locations in Pakistan with varying degrees of anticipated reservoir pressures, temperatures and depths. The contractor might be asked to carry out the intended activities with rig available at location or in rig-less environments as might be deemed feasible. The candidate wells are expected to produce anything from dry gas, gas condensate to crude oil.
- 10.2 Expected ranges of anticipated target reservoir and well parameters are as under:
 - 10.2.1 Expected Reservoir Pressures may range from 1600-11,600 psi.
 - 10.2.2 Reservoirs might have depleted (below hydrostatic) to over pressured (above hydrostatic).
 - 10.2.3 Expected Reservoir Temperatures may range from 150 °F - 392 °F.
 - 10.2.4 Expected Reservoir Depths may range from 1000 M - 6000 M.
 - 10.2.5 Reservoirs will be conventional (sandstones and carbonates) as well as unconventional (tight sands and shale's).
 - 10.2.6 Reservoirs are expected to produce dry gas, wet gas, gas condensate, volatile oil or crude oil with or without active aquifer present.
 - 10.2.7 Expected Presence of H₂S: 0.008 % - 7 %, CO₂: 01 % - 40 % and N₂: 0 - 33 %.
 - 10.2.8 Reservoirs are expected to lie in areas of low to high tectonic activity with wells encountering nearby faults.
 - 10.2.9 The contractor should be responsible to arrange the required cross-overs and connections for X-mass tree and flow-head with the Frac lines.

11 DOCUMENTATION FOR TECHNOCOMMERCIAL EVALUATION

Bidders are required to provide the following details along with the bid documents:



- 11.1 Complete list along with detailed CV's highlighting the level of competence of key personnel that will be involved in design, supervision, and implementation and provide necessary support during the projects (both primary and backup crews). Note that the defined crew members shall not be changed without the prior consent of OGDCL.
- 11.2 Case Histories of Fracturing and Stimulation Jobs successfully completed around the world (as specified in the annexed evaluation criteria) in conventional and unconventional reservoirs (Separately for each).
- 11.3 Details of labs, equipment and testing services available (clearly identifying the facilities available on site, within the country and outside the country) to help gather relevant information to design optimized treatments.
- 11.4 Complete array of conventional and un-conventional techniques and services available to carry out the fracturing treatments.
- 11.5 Detailed List of necessary equipment to perform the intended fracturing jobs in a safe and efficient manner along with their pressure and temperature ratings
- 11.6 Recommended variety of conventional and un-conventional material (Polymer, Proppant, Breaker, acid recipes, sand control material etc.) required to efficiently achieve the desired job objectives. If the material is being acquired from third party vendor, the contractor will be required to provide the manufacturer details, brand name and third party certification.
- 11.7 Provide the point of origin of the equipment and the time period required to mobilize it to Pakistan. Maximum allowable time is six months from date of prequalification.
- 11.8 Complete list and details of available backup and support services.
- 11.9 Conformity with the proposed terms and conditions.

12 EVALUATION CRITERIA

Prequalification of contractor will be based on the following criteria:

- 12.1 Conformity with Scope of Work and Technical & Personnel requirements set forth in this tender document.
- 12.2 Conformity with the operational and financial terms.
- 12.3 Conformity with the Terms and Conditions of draft work contract.
- 12.4 Availability of Backup and support services.
- 12.5 Performance record.
- 12.6 Credibility of such jobs carried out as specified in the technical evaluation criteria.
- 12.7 The bidder compliant with all of the above.

13 TOOL(S)/EQUIPMENT INVENTORY:

- 13.1 Bidder to provide complete list of hydraulic fracturing equipment, clearly defining tools/equipment description, i.e. technical literature, case histories and/or any other relevant information.



Separate sheet(s) may be attached.

Sr. No.	Equipment / Tools	Set available IN Pakistan	No. of Sets available OUTSIDE Pakistan
13.1			
Conventional			
13.1.1			
13.1.2			
13.1.3			
Advanced			
13.1.4			
13.1.5			
13.1.6			

Sr. No.	Chemicals	Qty available IN Pakistan	Qty available OUTSIDE Pakistan
13.2			
Conventional			
13.2.1			
13.2.2			
13.2.3			
Un- Conventional			
13.2.4			
13.2.5			
13.2.6			

14 EQUIPMENT/ TOOLS

Sr. No.	Description	Remarks	Availability
14.1	PUMPING EQUIPMENT		
14.1.1	FRAC PUMP UNIT 08x 2000 HHP or equivalent pumping units suitable for pumping corrosive, abrasive and non-corrosive fluids. Min 15,000 psi working pressure Pumping capacity min 5bpm each pump		
14.1.1.1	Complete frac fleet with 15,000 HP available in Pakistan		
14.1.1.2	Complete frac fleet with 15,000 HP available outside Pakistan.		
14.1.1.3	(Disqualify) Less than 15,000 HP		



14.1.2	PUMPING RATE		
14.1.2.1	Low Rate Pumps (<1bbl/min)		
14.1.2.2	High Rate Pumps (10-16 bbl/min)		
14.1.3	PUMPING CAPACITY		
14.1.3.1	15, 000 Pumping Horse Power and Pumping pressure 15,000 psi available in Pakistan.		
14.1.3.2	15, 000 Pumping Horse Power and Pumping pressure 15,000 psi available outside Pakistan.		
14.1.3.3	20, 000 Pumping Horse Power and Pumping pressure 15,000 psi available inside/outside Pakistan.		
14.2	Blender(s) Capable of blending and pumping up to 50-60 bpm of fracturing slurry Capable of transmitting real time data of parameters related to pumping to acquisition system	Mandatory	
14.3	MATERIAL HANDLING		
14.3.1	Total on-site non-corrosive fluid storage capacity (3500 - 5000 bbl)		
14.3.2	(Disqualify) Total on-site non-corrosive fluid storage capacity (<3500 bbl)		
14.3.3	Total on-site corrosive fluid storage capacity (160 - 500 bbl)		
14.3.4	(Disqualify) Total on-site non-corrosive fluid storage capacity (<160 bbl)		
14.4	(Mandatory) Electronic Data Acquisition System Ability to remotely control the fracturing operation at wellsite. Acquisition and transmission of real time data remotely to OGDCL office from any location.	Mandatory	
14.5	Electronic Pressure Transducer Annulus and tubing/casing pressure gauge.		
14.6	Frac Tank Min 500 bbls of capacity		
14.6.1	10 no. qty or more available		
14.6.2	6 no. qty available		
14.6.3	(Disqualify) Less than 6 no. qty available		
14.7	Portable Laboratory Cabin/Frac Van Fluid lab to QC slurry/fluid being pumped with relevant lab equipment like viscometer, blender, pH meter etc.	Mandatory	
14.8	High Pressure Fracture Manifold Min 15,000 psi ratings	Mandatory	
14.9	Automatic Sand feeder Capacity requirement 300,000 lbs proppant Feed proppant to blender during fracturing operation Serves as sand storage facility at the well site	Mandatory	
14.10	Proppant Flow Back Prevention		
14.10.1	Availability of Proppant Flow back prevention material adding system		



14.11	Back Up Hydraulic System To be used in case of failure of sand delivery system.		
14.12	Liquid Additive System Equipped with flow meter with accuracy up to error of $\pm 1\%$ Pump from the fluid storage container and discharged to the suction of a centrifugal pump, or to the suction of the discharge of the mixer		
14.13	Fluid Transfer Pumps and Hoses	Mandatory	
14.14	High Pressure Pipping 2" and 3" with minimum 15,000 working pressure	Mandatory	
14.15	Water Filtration Unit Dual cartridge filter skid with ability to filter up to at least 100 microns as per company requirement	Mandatory	
14.16	Tool Basket Cross over flange assembly for production well. Frac cross and piping, chocks for injection and flow back Any other crossover to hook up equipment to the well head/ Xmas tree		
14.17	Annulus Pump To assist with pressure differential for burst prevention of tubing	Mandatory	
14.14	Suction and Discharge Hoses		
14.15	Safety Shower		
14.16	Wellhead Isolation Tool and Frac Tree At least 1 no. quantity each for all size 10K, 15K and 20 K rating each, (compatible X-mass tree size: 2-9/16"x5K, 3-1/8"x5K, 3-1/16"x10K, 4-1/16"x10K, 3-1/16"x15K, 4-1/16"x15K)	Mandatory	

15 CHEMICALS

Sr. No.	Description	Remarks	Availability
CHEMICALS [MANDATORY: MAX MOB TIME = LESS THAN 1 MONTH]			
15.1	Temperature Ratings of available Conventional Fracturing Fluids		
15.1.1	Above 300F		
15.1.2	160F – 300F		
15.1.3	150-160F		
15.2	Temperature Ratings of available Unconventional Fracturing Fluids		
15.2.1	Above 300F		
15.2.2	160F – 300F		
15.2.3	150-160F		

15a Estimated Chemicals for Prop FRAC

Linear Gel	Remarks	Availability
Linear gel (including all required additives) (up to 150F)		
Linear gel (including all required additives) (150F to 250F)		
Linear gel (including all required additives) (250F to 350F)		
Linear gel (including all required additives) (350F to 450F)		



Breaker		
Breaker Live up to 150F		
Breaker Live 150F to 250F		
Breaker Live 250F to 350F		
Breaker Live 350F to 450F		
Breaker encapsulated up to 150F		
Breaker encapsulated 150 to 250F		
Breaker encapsulated 250F to 350F		
Breaker encapsulated 350F to 450F		
Proppant		
Intermediate Strength Proppant (ISP) API Mesh Size 4070		
Intermediate Strength Proppant (ISP) API Mesh Size 3050		
Intermediate Strength Proppant (ISP) API Mesh Size 1640		
Intermediate Strength Proppant (ISP) API Mesh Size 1440		
Intermediate Strength Proppant (ISP) API Mesh Size 3060		
High strength Proppant (HSP) API Mesh Size 4070		
High strength Proppant (HSP) API Mesh Size 3050		
High strength Proppant (HSP) API Mesh Size 1640		
High strength Proppant (HSP) API Mesh Size 1630		
High strength Proppant (HSP) API Mesh Size 1440		
Resin coated proppant (RCP) API Mesh Size 3050		
Resin coated proppant (RCP) API Mesh Size 1640		
Resin coated proppant (RCP) API Mesh Size 1630		
Unconventional Proppant all sizes		
X-Linker		
X-linker LT (up to 150F)		
X-linker MT (150F to 250F)		
X-linker HT (250F to 350F)		
X-linker HT (350F to 450F)		

15b Estimated Chemicals for Acid FRAC

Raw Acid	Remarks	Availability
32% HCl		
Formic Acid		
Acetic Acid		
HF Acid		
Citric Acid		
Corrosion Inhibitors		
Organic Acid Corrosion Inhibitor P110, 150-250 F		
Organic Acid Corrosion Inhibitor P110, 250-350 F		
Organic Acid Corrosion Inhibitor P110, 350-400 F		
Inorganic Acid Corrosion Inhibitor P110, 150-250 F		
Inorganic Acid Corrosion Inhibitor P110, 250-350 F		
Inorganic Acid Corrosion Inhibitor P110, 350-400 F		



Organic Acid Corrosion Inhibitor Cr13, 150-250 F		
Organic Acid Corrosion Inhibitor Cr13, 250-350 F		
Organic Acid Corrosion Inhibitor Cr13, 350-400 F		
Inorganic Acid Corrosion Inhibitor Cr13, 150-250 F		
Inorganic Acid Corrosion Inhibitor Cr13, 250-350 F		
Inorganic Acid Corrosion Inhibitor Cr13, 350-400 F		
Inhibitor Aid		
Inhibitor Aid P110, 150-250 F		
Inhibitor Aid P110, 250-350 F		
Inhibitor Aid P110, 350-400 F		
Inhibitor Aid Cr13, 150-250 F		
Inhibitor Aid Cr13, 250-350 F		
Inhibitor Aid Cr13, 350-400 F		
H2S Scavengers		
H2S Scavenger 150-250 F		
H2S Scavenger 250-350 F		
H2S Scavenger 350-400 F		
H2S/CO2 Inhibitor		
H2S/CO2 Inhibitor 150-250 F		
H2S/CO2 Inhibitor 250-350 F		
H2S/CO2 Inhibitor 350-400 F		
De-emulsifier		
De-emulsifier 150-250 F		
De-emulsifier 250-350 F		
De-emulsifier 350-400 F		
Emulsifying Agents		
Emulsifier 150-250 F		
Emulsifier 250-350 F		
Emulsifier 350-400 F		
Anti-Sludge Agent		
Anti-Sludge Agent 150-250 F		
Anti-Sludge Agent 250-350 F		
Anti-Sludge Agent 350-400 F		
Friction Reducers		
Water based friction reducer		
Oil based friction reducer		
Acid based friction reducer		
Mutual Solvent		
Anionic Mutual Solvent		
Cationic Mutual Solvent		
Amphoteric Mutual Solvent		
Nonionic Mutual Solvent		
Surfactants		
Anionic Surfactant		
Cationic Surfactant		
Amphoteric Surfactant		
Nonionic Surfactant		



Iron Control Agent		
Iron Control Agent 150-250 F		
Iron Control Agent 250-350 F		
Iron Control Agent 350-400 F		
Diverting Agent		
Viscoelastic diverter		
Foam diverter		
Fiber laden diverter		
Hydrocarbon soluble diverter		
Clay Stabilizer		
Clay Stabilizer for migratory clays		
Clay Stabilizer for swelling clays		
Clay Stabilizer for acid sensitive clays		
Clay Stabilizer for kaolinite		
Clay Stabilizer for smectite		
Clay Stabilizer for illite		
Clay Stabilizer for chlorite		
Intensifier		
Intensifier for HF		
Intensifier for Organic Acid		
Intensifier for Hydrochloric Acid		
Chelating Agent		
Chelating Agent 150-250 F		
Chelating Agent 250-350 F		
Chelating Agent 350-400 F		
Foaming Agent		
Foaming Agent 150-250 F		
Foaming Agent 250-350 F		
Foaming Agent 350-400 F		

16 DESIGN AND MODELLING CAPABILITIES

Sr. No.	Description	Remarks	Availability
16.1	Software Capabilities to Perform Fracturing and Stimulation Treatment Design.		
16.2	Software Capabilities to Model Post Treatment Response.		
16.3	Software Capabilities to Simulate Treatment Implementation.		
16.4	Software Capabilities for Evaluating & Testing Data for MiniFRAC.		
16.5	Software Capabilities for Post-Frac treatment evaluation.		

17 COMPANY PROFILE

Sr. No.	Description	Remarks	Availability
17.1	Bidder's History (attach proof)		
17.1.1	Providing the Hydraulic Fracturing Services for five (05) or more years in Pakistan or elsewhere (outside the country of origin).		
17.1.2	Providing the Hydraulic Fracturing Services for 5-7 years in Pakistan or elsewhere (outside the Pakistan).		
17.1.3	(Disqualify) Providing Hydraulic Fracturing Services for less than five (5) years in Pakistan or elsewhere (outside the country of origin)		
17.2	Bidder's experience (attach proof)		

PRE-QUALIFICATION NOTICE NO. PROC-SERVICES/CB/PQ/PROD-3300/2018

All the pages of this application must be signed and stamped by the firm's Authorized Representative.
Incomplete or Incorrect Application will not be entertained.



17.2.1	<p>Performed at least the following number of jobs in Pakistan or Middle East Region (outside the Pakistan) during last 5 years (attach tabulated list with Client Name, brief job details, Date, Location etc.).</p> <p><i>(Disqualify)</i> Performed less than the following number of jobs in Pakistan or Middle East Region (outside the country of origin). Proppant Fracturing: 100 jobs</p> <p>Acid Fracturing: 100 jobs</p> <p>Performed pre frac job design: 100 jobs</p> <p>Performed post frac job evaluation: 100 jobs</p>		
17.3	Bidder's Global Presence (attach proof)		
17.3.1	<p>Performed over 100 Hydraulic Fracturing jobs worldwide (outside Pakistan and other than the country of origin of bidder). { Attach Client Name, brief job details, Date, Location etc.)</p> <p><i>(Disqualify)</i> Performed less than 100 Hydraulic Fracturing jobs worldwide (outside Pakistan and other than the country of origin of bidder).</p>		
17.4	Fully Operational Base in Pakistan <i>(liable to inspection by OGDCL)</i>	Mandatory	
	In case the contractor has no permanent establish base in Pakistan then they have to establish the same within 06 Months of prequalification period. The planning and mode of arranging emergency requirements during drilling phase needs to be confirmed at bidding stage, so that the selected contractor has the binding on continued supply whenever required as per the requirement. The procedure and time required to arrange supplies be mentioned specifically as this will be the key technical criteria.		
17.5	Contractor R&D structure (attach proof, R&D budget allocation in audited financial statements etc.)	Mandatory	
17.7	Bidder to provide standard operating procedure (SOPs) for Hydraulic Fracturing jobs along with Technical specifications of Pressure Control Equipment (PCE), Frac Equipment Inspection Certifications	Mandatory	
17.8	Bidder, to provide certified Pressure Control Equipment for standard hydraulic fracturing operations	Mandatory	
17.9	Equipment should be brand new/good condition and of latest model as per industry standards. Equipment should be accompanied with valid maintenance and inspection certificates (attach with bid). Equipment shall be liable to inspection and final approval by OGDCL.	Mandatory	
17.10	Bidder, to provide case histories and success stories for successful deployment of OH MSS completion in HPHT environment	Mandatory	
17.11	Case studies and success stories of Frac related innovation/client beneficial services performed worldwide (other than the country of origin of bidder), published in SPE or other journals of good international standing).		
17.11.1	Attach at least 10 documented case histories in Pakistan or worldwide and success stories of designing a hydraulic Frac job using a MEM model during last 5 years across different formations and depths mentioning FOI after Frac.		
17.11.2	Attach at least 10 documented case histories and success stories of designing an acid Frac job across different formations and depths mentioning FOI after Frac job and relevant core analyses that was done to gather data.		
17.11.3	Attach at least 5 documented case histories and success stories of performing Open Hole Multi Frac in gas/oil/gas-condensate wells in highly deviated or horizontal wells.		

**18 PERSONNEL**

Sr. No.	Qualification/Experience of crew members	Remarks	Availability
18.1	<p>Frac Master / Specialist (at least 1 per job)</p> <p>Graduate with a technical degree and minimum 05 years of exclusive experience of planning, designing and executing hydraulic/acid fracturing along with relevant training(s) and certified courses etc. He would be responsible of gathering required data from company, designing the job, supervising the pumping operations, arranging chemicals and equipment, managing personnel on location and following the required QHSE standards. (Attach CV and Training/Certificates)</p>		
18.2	<p>Frac Engineer (at least 2 Engineers per job)</p> <p>Graduate with a technical degree and at least 05 years of exclusive experience of executing hydraulic/acid fracture jobs. The Frac Engineer would be responsible for all planning aspects and its execution, working in close coordination with the Frac Master. He would be responsible for guaranteeing good and continuous communication between company man/Operation Manager, the driller, the pumping crew, production & reservoir engineer during the job. (Attach CV and Training/Certificates)</p>		
18.3	<p>Blender operator + chief mechanic (at least 5 per job)</p> <p>Should have at least 05 years of exclusive experience as chief mechanic of the equipment and working as a blender operator. He would be responsible for efficiently handling blending operations on location as per the proposed pumping plan. He should be capable to trouble shoot equipment during operations to ensure smooth operations. (Attach CV and Training/Certificates)</p>		
18.4	<p>Isolation Tool Engineer</p> <p>Graduate with technical degree and at least 5 (five) years of exclusive experience with Frac tree installations, servicing, testing and dismantling. (Attach CV and Training/Certificates)</p>		
18.5	<p>Frac Crew</p> <p>Bidder to recommend all other crew personnel to carry out the proposed Fracturing jobs and as appropriate for proposed pumping equipment. Local expertise are preferred. (Attach CV and Training/Certificates)</p>		

19 QHSE (MANDATORY)

Sr. No	Description	Compliant	Non-Compliant
19.1	QHSE POLICY		
19.1.1	QHSE policy Documents		
19.1.2	Availability of policy statements to Employees		
19.1.3	Management and supervision of work activities		
19.2	STANDARDS AND PROCEDURES		



19.2.1	HSE Standards and Standard Operating Procedures (SOPs)		
19.2.2	QHSE Manuals		
19.2.3	Equipment Control and Maintenance Procedures		
19.2.4	Emergency Response Plan for activities on Location		
19.3	TRAINING & ASSESSMENT		
19.3.1	Competence & Training of supervisors/ senior site staff/ QHSE advisers		
19.3.2	General QHSE Training		
19.3.3	Specialized Training		
19.3.4	Assessment of sub-contractor/other companies		
19.4	HAZARD AND EFFECTS ASSESSMENT		
19.4.1	Incident Reporting Procedures`		
19.4.2	Hazards Identification and Risk Analysis		
19.4.3	Exposure of workforce		
19.4.4	Handling of chemicals		
19.4.5	Handling of radioactive sources		
19.5	PERSONAL PROTECTIVE EQUIPMENT		

20 TECHNICAL EVALUATION CRITERIA FOR GROUP A

Sr.	Description	Maximum Marks
20.1	Fracturing services experience in reputed E & P companies. The bidders have to provide evidence of the jobs in the form of performance certificates and/or signed job tickets and/or copy of services contracts from other E&P Companies. 10 Years Experience = 15 Marks 7 Years Experience = 12 Marks 5 Years Experience = 10 Marks Disqualified = Less than 05 Year Experience	15
20.2	Professional and Skilled manpower with relevant experience (Engineers and supervisors) as explained in personnel detail.(List 18) submit CVs.	15
20.3	Availability of equipment and chemicals as mentioned above in List 14, 15, 15a and 15b	15
20.4	Certification for equipment reliability, model, make etc. All High Pressure equipment must be 15 kpsi rated.	10
20.5	Availability of working frac equipment and chemical inside or outside Pakistan required for job at the time of bidding as per Equipment and chemical list. Complete frac fleet with 15,000 HP available in Pakistan = 15 Marks. Complete frac fleet with 15,000 HP available outside Pakistan = 12 Marks. Disqualified if Farc Fleet is less than 15,000 HP. Commitment to provide 20,000 HP frac fleet is mandatory wherever required. Arrangement of all chemicals is mandatory.	15
20.6	Mobilization Period after finalization of job design Up to 15 Days = 15 Marks Up to 30 Days = 10 Marks Upto 45 Days = 5 Marks More than 45 days = Disqualified	15



20.6	HSE standards, troubleshooting experience with procedures, hazard controlling techniques and record of mishaps in last 02 years	10
20.7	Financial Status (Attach last three years audited Financial statements)	5
	TOTAL	100

Note(s)

- Minimum Qualifying Score for technical evaluation is 75.
- OGDCL reserves the right to visit bidder's operational base and check inventory at any stage of evaluation of the bids.
- Bidder to provide documentary evidence for each criterion where proof is demanded. Provide documents, photographs for inventory claims. No points shall be awarded in case, no documentary evidence provided.
- Copy of services contracts from other E&P Companies... cover page/front page of the contract should suffice.

21 MANDATORY REQUIREMENT

- 21.1 The bidder shall be a registered company in Pakistan. Provide documents for registration with SECP and Tax Department.
- 21.2 The company have to establish equipment base set up in Pakistan within 06 months of prequalification period.
- 21.3 All QHSE responsibility shall rest with the contractor for any third-party equipment and personnel supplied by the contractor.
- 21.4 Equipment, tools and personnel covering full scope of services must be available with the bidder in Pakistan or abroad at the time of submission of bid. In case of availability outside Pakistan, bidder shall make equipment, tools and personnel covering full scope of services available in Pakistan within 06 Months of prequalification period.
- 21.5 The bidder have to mobilize equipment and crew to well site within 45 days after job finalization, failing to do so will result in the confiscation of the Bank Guarantee and OGDCL reserves the right to revoke the LOI of the bidder and hence any commitment of work, even though it may be financially lowest.
- 21.6 All certificates, documents, proof of work etc. should be in English language, if not then they shall be accompanied with certified translation to English language to be considered for evaluation.

22 GENERAL TERMS AND CONDITIONS

- 22.1 The technical prequalification shall remain valid for a period of 03 years.
- 22.2 All Costs to be quoted in US\$ only but the payments to the Service Company will be made in 100% Pak Rupees at official currency exchange Pakistan based rate prevalent for such transactions on the date of raising payment voucher.
- 22.3 A price list of additional / relevant equipment / services must be provided with the bid document which will be used for reference purpose only.
- 22.4 Professionals (Engineers and supervisors) must have 05 years' experience in Hydraulic/Acid frac services internationally or within Pakistan.



- 22.5 Minimum time required for report generation of each service should be clearly mentioned. The bidder is required to submit the post job report after execution of job, otherwise invoices will not be accepted for payment.
- 22.6 All third-party equipment supplied must be accompanied with applicable quality and safety standards and/or pressure control manual.
- 22.7 The bidders have to provide evidence of the jobs (in the form of performance certificates and/or signed job tickets and/or copy of services contracts from other E&P Companies carried out in 05 years
- 22.8 Contractor will have to manage the cross over for any job in line with well head connection & pumping equipment.
- 22.9 Operator shall not be liable to pay mobilization/demobilization charges, during execution phase of prequalification period, of any tools/equipment for bringing them to Pakistan that may be located elsewhere.
- 22.10 Any bidder offering services in alliance with other contractor shall be evaluated accordingly such that all the terms and technical requirements shall individually apply on the contractor offering the particular service.
- 22.11 No job cancellation charges shall be paid if the call out is cancelled before the unit/tools is (are) mobilized from the contractor's base.
- 22.12 1st day would be paid as stand-by for both crew and equipment if spotting of equipment is started.
- 22.13 The standby charges will be applicable from the arrival day of all crew & equipment at location / field to the day crew & equipment is released. Partial availability of crew or equipment will not attract any charges. However, operating charges will only be applicable from 1st / reporting day if job is started on the reporting day till the job is completed. During traveling (mobilization/de-mobilization) phase, no operating/stand-by/rental charges will be admissible and only Mob-De-Mob will be payable.
- 22.14 Rig up & rig down period will be paid as standby for both crew & equipment.
- 22.15 If, after mobilization / reporting at site, job is cancelled then only mobilization / demobilization charges for crew / equipment will be paid. No job cancellation charges are admissible.
- 22.16 If equipment/material is air freight on OGDCL request to meet urgency before agreed time line of job, charges will be paid at actual+10%.
- 22.17 If during job, it is ascertained that the service company is unable to perform / accomplish the job satisfactorily, OGDCL reserves the right to demobilize the service company. Invoice for unsuccessful jobs will not be entertained for any payment.
- 22.18 OGDCL reserves the right to increase or decrease the scope of work at any time without any change in terms & conditions.
- 22.19 The bidder to provide the CV's of the professionals in the technical and operational segments within the organization of the bidder.
- 22.20 OGDCL reserves the right to ask bidder for the replacement of any of their personnel who is / are unacceptable to OGDCL for his / their incompetence or misbehavior at Contract holder's expense.
- 22.21 The bidder will be fully responsible for the financial compensation to OGDCL if mishandling by Service Company results in any loss.



- 22.22 Fuel, oil, lubricants and transport that may be required by service company for operational purpose will be charged to service company as per actual and the cost will be deducted from the invoice.
- 22.23 Boarding / Lodging and laundry services would be provided free of cost by OGDCL to the service company crew while working in the field.
- 22.24 While submitting invoice(s) for payment, Service Company shall submit a certificate from concerned FBR Office to the effect that Service Company has cleared its tax liabilities.
- 22.25 OGDCL reserves the right to accept or reject any/all bid (s) or annul the entire bidding process at any time prior to award of Contract without taking any responsibility of the affected bidder(s) and is not bound to justify the reasons to the affected bidder(s).
- 22.26 The bidder must agree with all terms and conditions in this TOR.
- 22.27 After the finalization of the prequalification process future Tender enquiries will only be issued to the Pre-Qualified Manufacturers. It will be at the OGDCL discretion to call combined Technical/Financial Bids under single envelope system or separate technical and financial bids under two envelope system.
- 22.28 OGDCL will issue tender enquiries on as and when required basis during the validity of the Pre-Qualification i.e. three years. The Purchase orders/ contracts will be placed on the financially lowest Bidder.
- 22.29 The contract/job shall be interpreted in accordance with the laws applicable in Pakistan.
- 22.30 Treatment / management of hazardous gases and waste water if any will be the responsibility of contractor without any additional cost to OGDCL.

GROUP-B: Pre-Qualification of companies for provision of completion Material and completion services for Open Hole Multi Stage Frac System.

1. General Terms and Condition.

(The Bidder/Manufacturer should abide by the following General Terms and Conditions to be considered for further evaluation.

The Bidders will be required to full fill the Below Mentioned Table as per the Given Format.

Sr#	<u>Terms and Conditions.</u>	<u>Bidders Confirmation/R emarks.</u>
i.	Open Hole Multi Stage Frac Completion Equipment Manufacturers will be prequalified technically for a period of three (03) years as per prequalification criteria mentioned under "Technical Evaluation Criteria". After the finalization of the prequalification process future Tender enquiries will only be issued to the Pre-Qualified Manufacturers. It will be at the OGDCL discretion to call combined Technical/Financial Bids under single envelope system or separate technical and financial bids under two envelope system.	Bidder to Accept.



ii.	OGDCL will issue tender enquiries on as and when required basis during the validity of the Pre-Qualification i.e. three years. The Purchase orders/ contracts will be placed on the financially lowest Manufacturers/Bidder and payment will be made through LC.	Bidder to Accept.
iii.	The Pre-Qualified Bidders/Manufacturer are required to confirm that they will deliver Multi Stage Frac System completion equipment within <u>03-06</u> months for Future Tender Enquiries launched under the Umbrella of this Pre-Qualification exercise.	Bidder to Confirm.
iv.	The Pre-Qualified Bidders/Manufacturer will be required to submit Pre Job Designs for all Individual wells for Future Tenders on actual basis.	Bidder to Confirm.
v.	The Pre-Qualified Bidders/Manufacturers must also confirm that they will cooperate with other Third Party Service Providers who will be involved in Providing Frac services.	Bidder to Confirm.
vi.	OGDCL may decide to retender this pre-qualification exercise after 03 years contract period based on its experience.	Bidder to Accept.
vii.	OGDCL will Prequalify Multiple Manufacturers based on their Capability Like for Pressure Rating Up to i.10 K Rating, ii, 12 k Rating and iii. 15 K Rating , etc. Same will be applicable for Temperature ratings as well. However Pre-Qualification will specify the Limit of the Pre-Qualification and Tenders will be called based on the Pre-Qualification Criteria.	Bidder to Accept.
viii.	The bidders will be required to confirm that they have the capability to manufacture and supply the mentioned below Items (Refer to Tables) and accessories for all the Future Tender Enquiries launched under the Umbrella of this Pre-Qualification exercise. However, quantities, sizes, threads and lengths would be specified at the time of tender based on actual requirements. Moreover, any additional completion material/accessory required by OGDCL on as and when required basis but not mentioned below may also be included in the future Tender Enquiries.	Bidder to Accept and Confirm.
ix.	During the Course of the Pre-Qualification Time Frame if required OGDCL will still have the right to procure the mentioned Multi Stage Open Hole Frac completion material through press tender or any other mode of Procurement.	Bidder to Accept.
x.	Submission of incomplete information in the prequalification documents may lead to disqualification of bidder/manufacturer.	Bidder to Accept.
xi.	OGDCL, at any stage of the procurement proceedings, having credible reasons for or prima facie evidence of any defect in firm's capacities, may require them to provide information concerning their professional, technical, financial, legal or managerial competence of already pre-qualified firms. OGDCL, shall disqualify a supplier or contractor if it finds, at any time, that the information submitted by those concerning qualification as supplier or contractor were false and materially inaccurate or incomplete.	Bidder to Accept and Confirm.
xii.	All the documents should be submitted in original, properly numbered, duly signed and stamped. Any document not signed and stamped will not be considered for evaluation purpose.	Bidder to Comply.
xiii.	Bidder to provide soft copy of their Technical Quotation along with the submitted Tender documents. i.e. (CD/USB).	Bidder to Comply.

OPENHOLE COMPLETION MATERIAL

The following List of Items are the Basic Requirement for Carrying out Multi Stage Open Hole Frac System. This Listed Equipment shows the basic Requirement of Items Required for the Pre-Qualification of Prospective Bidder/Manufacturers Only. The Bidder/Manufacturers are required to Only Confirm their Capability to Manufacture the Listed Items. Moreover they can also mentioned any additional Items /Design Options.

In case of any of the Listed Items are not required as per the Manufacturer's Specific Design they can also specify the same. However they will be required to explain the Reasons for the requirement for any additional Item or the Not Requirement of any of the specified Items.



2. Category-1 for 6" Open Hole.

The Bidders/Manufacturer will be required to full fill the Below Mentioned Table as per the Given Format.

Sr#	Multi Stage Open Hole Frac System	Tentative Quantity for 01 Sets +01 Back Up.		Remarks
	<p>All the Required Equipment should be of the following Ratings;</p> <p>Temperature Rating: 350 to 400 Degree Fahrenheit.</p> <p>Pressure Rating: 10,000 Psi to 15,000 Psi. (Bidder's to specify the Max Press Rating equipment they have Manufactured and supplied to Various E&P companies).</p> <p>Material Requirement: P-110- to Super 13 Chrome or more.</p>			The Bidder / Manufacturer to confirm that they have the Manufacturing Capability.
1.	<p><u>Locator Seal Assembly (Minimum 20ft to 30 ft. Stroke Length or More as Required)</u></p> <ul style="list-style-type: none"> A/w 5 to 7 No of Seal units (or more) A/w 4-1/2" or any other size /Grade Premium Thread connections as Specified (Thread Can be either T&C or Integral). A/w Suitable Elastomers. C/w Handling Pup Joint 06 ft. or as specified. 	No.	02 (01as Back Up)	The Bidder / Manufacturer to confirm that they have the Manufacturing Capability.
2.	<p><u>Hydraulic Set Liner Hanger Casing Packer suitable for (7" 32-35# or 35-38 # or 29-32#) liner/casing.</u></p> <ul style="list-style-type: none"> C/w 20 ft. to 30 ft. Upper Seal Bore to Tie Back Frac String and upper completion. Seal bore should be Compatible with Item # 1. Bottom connections 4-1/2" or any other size /Grade Premium Thread Connections as specified (Threads Can be either T&C or (Integral). C/w Handling Pup Joint 06 ft. or as specified. 	No.	02 (01as Back Up)	The Bidder / Manufacturer to confirm that they have the Manufacturing Capability.
3.	<p><u>Open Hole Dual Element Packer Suitable for 6" Open hole.</u></p> <p>With 4-1/2" or any other size /Grade Premium Thread Connections as specified (Threads Can be either T&C or Integral).</p> <p>C/w Handling Pup Joint 03 ft. or as specified.</p> <ul style="list-style-type: none"> Hydraulic set. Swell able Packers. 	No.	As per Actual. Varying from 02 to 14 Stages or more.	The Bidder / Manufacturer to confirm that they have the Manufacturing Capability.
4.	<p><u>Frac Sleeves :</u></p> <p>Size: 4 1/2" or any other size /Grade Premium Thread Connections as specified (Threads Can be either T&C or Integral).</p> <ul style="list-style-type: none"> All Frac sleeves must have different ball seat sizes, C/w 3ft / 6ft handling Pup joints or as Specified. 	No.	As per Actual. Varying from 02 to 14 Stages or more.	The Bidder / Manufacturer to confirm that they have the Manufacturing Capability
	<p><u>A:</u> Non Closable system (If Required)</p>	No.		



	<p>B: Closable Sleeves C/w Shifting tool to open and close Frac sleeves. (Refer to item No 14)</p> <p>Note: Bidder must provide detail procedures for opening and reclosing of Frac sleeves.</p>	No.		
5 (a).	<u>Degradable Actuation Ball for above Frac sleeves.</u>	No.	02 /per Sleeve. (01 as Back Up)	The Bidder / Manufacturer to confirm that they have the Manufacturing Capability.
5 (b).	<u>Non-Degradable Actuation Ball for above Frac sleeves.</u>	No.	02 /Per Sleeve. (01 as Back Up)	

3. Category-2, 8-1/2" Open Hole.

The Bidders will be required to full fill the Below Mentioned Table as per the Given Format.

Sr#	Multi Stage Open Hole Frac System	Tentative Quantity for 01 Sets +01 Back Up.	Remarks	
	<p>All the Required Equipment should be of the following Ratings;</p> <p><u>Temperature Rating:</u> 350 to 400 Degree Fahrenheit.</p> <p><u>Pressure Rating:</u> 10,000 Psi to 15,000 Psi. (Bidder's to specify the Max Press Rating equipment they have Manufactured and supplied to Various E&P companies).</p> <p><u>Material Requirement:</u> P-110- to Super 13 Chrome or more.</p>		The Bidder / Manufacturer to confirm that they have the Manufacturing Capability.	
1.	<p><u>Locator Seal Assembly (Minimum 20ft to 30 ft. Stroke Length or More as Required)</u></p> <ul style="list-style-type: none"> A/w 5 to 7 No of Seal units (or more) A/w 5-1/2" or any other size /Grade Premium Thread connections as Specified (Thread Can be either T&C or Integral). A/w Suitable Elastomers C/w Handling Pup Joint 06 ft. or as specified. 	No.	02 (01as Back Up)	The Bidder / Manufacturer to confirm that they have the Manufacturing Capability.
2.	<p><u>Hydraulic Set Liner Hanger Casing Packer suitable for (9-5/8" 40-47# or 47-53.5#) liner/casing).</u></p> <ul style="list-style-type: none"> C/w 20 ft. to 30 ft. Upper Seal Bore to Tie Back Frac String and upper completion. Seal bore should be Compatible with Item # 1. Bottom connections 5-1/2" or any other size /Grade Premium Thread Connections as specified (Threads Can be either T&C or Integral). C/w Handling Pup Joint 06 ft. or as specified. 	No.	02 (01as Back Up)	The Bidder / Manufacturer to confirm that they have the Manufacturing Capability.
3.	<p><u>Open Hole Dual Element Packer Suitable for 8-1/2" Open hole.</u></p> <p>With 5-1/2" or any other size /Grade Premium Thread Connections as specified (Threads Can be either T&C or Integral).</p> <p>C/w Handling Pup Joint 03 ft. or as specified.</p>	No.	As per Actual. Varying from 02 to 14 Stages or more.	The Bidder / Manufacturer to confirm that they have the Manufacturing Capability.



	<ul style="list-style-type: none"> Hydraulic set. Swell able Packers. 			
4.	<p><u>Frac Sleeves :</u></p> <p>Size: 5-1/2" or any other size /Grade Premium Thread Connections as specified (Threads Can be either T&C or Integral).</p> <ul style="list-style-type: none"> All Frac sleeves must have different ball seat sizes, C/w 3ft / 6ft handling Pup joints or as Specified. <p>A: Non Closable system (If Required)</p> <p>B: Closable Sleeves C/w Shifting tool to open and close Frac sleeves. (Refer to item No 14)</p> <p>Note: Bidder must provide detail procedures for opening and reclosing of Frac sleeves.</p>	No.	As per Actual. Varying from 02 to 14 Stages or more.	The Bidder / Manufacturer to confirm that they have the Manufacturing Capability
		No.		
		No.		
5 (a).	<u>Degradable Actuation Ball for above Frac sleeves.</u>	No.	02 /Per Sleeve (01 as Back Up)	
5 (b).	<u>Non-Degradable Actuation Ball for above Frac sleeves.</u>	No.	02 /Per Sleeve (01 as Back Up)	
6.	<p><u>Composite Spiral Centralizer;</u> suitable for 8-1/2" open hole to be run with 5-1/2" or any other size /Grade Premium Thread Connections as specified (Threads Can be either T&C or Integral).Tubing to centralize open hole completion jewellery.</p>	No.	As per Actual. Varying from 02 to 14 Stages or more + Back up.	
7 (a).	<p><u>Dual External Pressure activated Non-Closeable Frac Sleeve;</u> Size: 5-1/2" or any other size /Grade Premium Thread Connections as specified (Threads Can be either T&C or Integral).</p> <ul style="list-style-type: none"> C/w 6ft / 3ft or as specified handling pup joints. 	No.	02 (01 as Back Up)	The Bidder / Manufacturer to confirm that they have the Manufacturing Capability
7 (b).	<p><u>Dual External pressure activated Closeable Frac Sleeve:</u> Size: 5-1/2" or any other size /Grade Premium Thread Connections as specified (Threads Can be either T&C or Integral).</p> <ul style="list-style-type: none"> C/w 6ft / 3ft handling pup joints or as specified, 	No.	02 (01 as Back Up)	
8.	<p><u>Bottom Circulating Sub;</u> 5-1/2" or any other size /Grade Premium Thread Connections as specified (Threads Can be either T&C or Integral).</p> <ul style="list-style-type: none"> C/w 3ft / 6ft Handling Pup joints. 	No.	02 (01as Back Up)	
9.	<u>Degradable Actuation Ball for above Frac sleeves.</u>	No.	02 (01as Back Up)	
10.	<p><u>Float Collar;</u> Size: 5-1/2" or any other size /Grade Premium Thread Connections as specified (Threads Can be either T&C or Integral).</p> <ul style="list-style-type: none"> C/w 3ft / 6ft Handling Pup Joint. 	No.	02 (01as Back Up)	
11.	<p><u>Bullet Nose Style Re-Entry Guide;</u> 5-1/2" or any other size /Grade Premium Thread Connections as specified (Threads Can be either T&C or Integral).</p>	No.	02 (01as Back Up)	The Bidder / Manufacturer to confirm that they



12.	<u>Open Hole Reamer shoe to clear tight spots in 8-1/2" openhole section.</u> With 3-1/2" IF threads or as specified.	No.	02 (01as Back Up	have the Manufacturing Capability.
13.	<u>Tapered Mill for ball seat</u>	No.	02 (01as Back Up	
14(a)	<u>Shifting Tool:</u> Hydraulically Actuated Shifting Tool to shift Ports to open or Close without Milling the Seat.	No	01 Saleable + Rental Option.	
14(b)	<u>Shifting Tool:</u> Hydraulically Actuated Shifting Tool to shift Ports to open or Close After Milling the Seat.		01 Saleable + Rental Option.	
15.	<u>Coil Tubing Ball seat Activator Per Ball Seat Size</u> (As Per Stage Count 2 to 14 or More).	No	As per Actual. Varying from 02 to 14 Stages or more + Back up	
16.	<u>Latch Seal Assembly.</u> 5-1/2" or any other size /Grade Premium Thread Connections as specified (Threads Can be either T&C or Integral). 110 KSI Material + Suitable ATR or any other Sealing Elastomer.	No.	02 (01as Back Up	The Bidder / Manufacturer to confirm that they have the Manufacturing Capability.
17.	<u>TRSCSSV and Flow Couplings.</u> Self-Equalizing/Non Equalizing TRSCSSV along with Necessary Tools and Flow Couplings. (as Specified) Size: 4- /12" or 5-1/2" or as specified	No.	02 (01as Back Up	The Bidder / Manufacturer to confirm that they have the Manufacturing Capability.
	<u>Redress Kits</u>			
18.	For Locator Seal Assembly (item 1)	Set	07 Seal Stacks.	The Bidder / Manufacturer to confirm that they have the Manufacturing Capability.
19.	For Anchor Latch Assembly (Item No 16)	Set	02 Sets.	The Bidder / Manufacturer to confirm that they have the Manufacturing Capability.

4. **Technical Evaluation Criteria for Both Category-1 & 2.**

Every bidder must confirm the following conditions in order to qualify for the detailed technical evaluation, all the required supporting documents must be attached with the Technical Bid for Pre-Qualification. Any technical bid without the required supporting documents or not fulfilling the conditions from Point 1-27 given below in this section will not be considered for Technical Prequalification.

1.	Openhole completion jewellery will be hanged through last casing string of 7" /9-5/8" Liner Hanger and liner hanger packer should be of same strength as of Openhole completion.	Bidder to Comply.
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2.	The Bidder to confirm that they can provide equipment and elastomer suitable for Oil, Gas, Gas/condensate wells with <ul style="list-style-type: none"> Differential pressure rating of Minimum 10, 000 Psi, 12,000 Psi or 15,000 Psi. Temp= 350 or 400 °F BHT & Co2; 10-15%. Or More. 	Bidder to Comply.
3.	Openhole hydraulic fracturing shall be carried out through completion. Quoted material should be suitable for acid as well as Propped Frac System .The Bidder to confirm that they will provide All equipment and Elastomer which will be suitable for HCL 15 % or More and HCL-ORA: 7.5% or More & 9% Formic or More and will be suitable for any other Chemicals which are usually used during Frac Jobs.	Bidder to Comply.
4.	Bidder to confirm and Provide Documentary evidence for at least 50 Wells where they have Installed Multi Stage Open Hole Frac System. Bidder to attach at least 20 case histories for both Prop and Acid Frac in which the proposed system has been deployed successfully.	Bidder to Provide the necessary Documentation
4.1	Bidders to Separately Identify the Pressure Rating/Temperature Rating for the 50 Wells so that Pre-Qualification on the basis of Pressure Capabilities can be finalized accordingly. <ul style="list-style-type: none"> At least 10 Jobs/Wells must be completed with 15 K Rated Equipment and 400 Degree Fahrenheit Equipment to be Pre-Qualified for the Max Conditions. At least 30 Jobs/Wells must be completed with 10 K & 12 K Rated Equipment and 400 Degree Fahrenheit Equipment to be Pre-Qualified for the Specified Range. 	Bidder to Provide the necessary Documentation.
5.	The Manufacturing Company/Plants must be certified by API under Specs. <ul style="list-style-type: none"> API 11D1, API 14-A, API 14-L for the last 10 years. The certificates should confirm the V0 testing capability of the Manufacturer. For this tender the Five year period will be considered from the date of tender opening (technical bid). The bidder to provide copies of the relevant API certificates as a proof (no breaks will be acceptable). The Plants should also have the relevant necessary ISO certifications like 9001 2008 & 9001 2015 & Q1 etc. 	Bidder to Provide the necessary Documentation/certification.
6.	After Pre-Qualification in case of order Placement Bidder will Identify and will seek approval from OGDCL if quoting any third party Equipment.	Bidder to Comply.
7.	After Pre-Qualification in case of order placement OGDCL will arrange third Party inspection of the equipment, bidder to confirm that all necessary assistance will be provided to the third party inspector(s). The tentative scope of third Party Inspection is as follows.	Bidder to Comply.
i	Pre shipment Visual Inspection of the Finished Equipment.	
ii	Verification of Mill Test Certificates and to confirm that the equipment is brand new/unused and as per SOR specifications	
iii	Verification of Documentation / Certifications confirming that the Completion Packers/Frac Sleeves/TRSCSSV's & accessories were Manufactured as per API 11-D-1,14-A & API 14-L certifications and ISO 14310 V0 Standards.	
iv	Verification of mill test certificates to confirm that flow wetted material of all the items is as per SOR specifications	
8.	Bidder to confirm the differential pressure requirements for setting packer. Bidder to provide /quote separately where option a and b exists in tools	Bidder to Comply.
9.	Technical literature complete with detailed operational procedure, drawings of all equipment and a hook-up drawing must be submitted with the bid in hard and soft form for all future Tenders.	Bidder to confirm.



10.	In case of requirement the Bidders will be required to furnish a technical presentation/workshop at OGDCL office to explain/present their proposed solutions as part of the technical evaluation.	Bidder to confirm.
11.	Bidders must specify the setting Pressure range for each quoted equipment.	Bidder to Comply.
12.	Current Document is for Pre-Qualification However bidder to confirm that they will submit (on as and when required basis) 02 Separate Technical / Commercial Proposals considering. <ul style="list-style-type: none"> • Frac System with (Non-Closable Sleeves) & • Frac System with (Closable Sleeves). 	Bidder to Confirm.
13.	After Pre-Qualification it will be OGDCL's Discretion to Evaluate Each Frac System Separately or place order for multiple systems for Financial Evaluation for Future Tenders on as and when required basis.	Bidder to Confirm.
14.	Bidder to confirm that they will Quoted /provide Elastomers for LSA and LH Packer which are Vo Rated.	Bidder to Comply.
15.	Bidder to attach the Standard Deployment Procedure of proposed System	Bidder to Provide.
16.	Bidder to confirm that at the time of Actual Job the day rates will commence at the arrival of the Engineer at Rig site and will cease from the day when service Engineer completed the job at Rig site. No extra days will be paid.	Bidder to Confirm.
17.	The Bidder/Manufacturer to confirm that only one service Engineer charges will be applicable to carry out the Open Hole Multi Stage Frac System completion Job. Completion Engineer should be professionally competent, <ul style="list-style-type: none"> • The service Engineer must have 5 to 10 years relevant experience with Minimum of 10 to 15 jobs Frac or similar completion jobs carried out independently. • The Bidder will ensure to send preferably Local Service Engineer at Rig site within 03 days (maximum) after receiving mobilization notice from OGDCL. 	Bidder to Confirm.
18.	At the time of Job Boarding lodging of Completion Engineer at Rig site will be the responsibility of OGDCL. However OGDCL will not provide any transport to service Engineer/tools to reach at rig site, it will be the exclusive responsibility of the service provider to arrange the transportation for the service engineer/tools from the base to the OGDCL site and back to the base.	Bidder to Confirm.
19.	At the time of Job Services payment will be made as per actual services rendered at any OGDCL well on as and when required basis.	Bidder to Confirm.
20.	In case the Material Providing Entity and Service Providing Entity are different than the Bidder to identify both at this Pre-Qualification and confirm to provide separate Data Summary Sheet accordingly. Bidder to identify/mention the LC beneficiary for Saleable Items and the service Order.	Bidder to Comply.
21.	Certificates of satisfactory performance issued by authorized officials of at least 3 different multinational E&P companies or other renowned E & P companies (not belonging to the manufacturer's country) regarding the Satisfactory performance of Multi Stage Fracturing system deployed at their wells. The certificates must be on the company letterhead and should indicate the Name & Designation of the signing authority along with his complete contact details including his official email address. The bidder must provide latest E-mail/Fax numbers etc. to directly verify the authenticity of these certificates from the issuing authority/company. Certificates issued by supply houses. Etc. will not be acceptable.	Bidder to Comply.
22.	In case the bidder is different from the manufacturer then authority letters in original from the manufacturer to bidder must be furnished with the technical offer. The bidder will also provide a similar letter in case they have their local agent in Pakistan. The	Bidder to Comply.



	authority letter must be on company letter head, showing the name and contact details (E-mail & fax number) of the signing authority.	
23.	Vam Top HC or Equivalent Premium threads may be specified which may include the leading CAL IV Tested Threads Like JFE Bear, JFE Fox, and Tenaris Blue, etc. Manufacturers to confirm that they will Provide the mentioned Threads or any other as specified for the above listed Items.	Bidder to Confirm.
24.	The Bidder/Manufacturer is required to quote Lump sum Hydraulic setting tool charges on as and when required basis per job. No stand by charges will be applicable.	Bidder To Comply.
25.	The bidder/Manufacturer to quote lump sum Mob/De-Mob charges for the service engineer which should include all transportation charges, hotel stay charges (if any) during the journey to the OGDCL site, etc.	Bidder to Confirm.
26.	After Pre-Qualification the bidders/Manufacturers will be required to quote service rates in US Dollars. If services are provided locally then payment will be made in 100% equivalent Pak rupees as per the exchange rate prevalent at the date of payment. The Payment will be made through Cross Cheuqe/TT/LC as per actual days for which the services are rendered.	Bidder to Confirm.
27.	After Pre-Qualification the bidders/Manufacturers will be required to quote service rates for each /Multiple Jobs on as and when required basis which should be firm and Inclusive of all applicable taxes and levies as per Government of Pakistan rules, except Provincial Sales Tax on Services. Provincial Sales Tax on Services if applicable will be paid by OGDCL as per prevailing policy.	Bidder to Confirm.

5. Financial Evaluation Criteria.

Bidder to Provide Confirmation that they will comply to the below mentioned evaluation Criteria and Quote on the given format accordingly.

1. After Pre-Qualification all the Pre-Qualified Bidders/Manufacturers will be required to Quote Sale able Items as per the specific Tables mentioned above for either Categories depending upon the actual well design.
2. The associated Open Hole Multistage Frac Completion system will also be installed by the Bidder. The Financial Evaluation for Group-B services for each Individual Tender will be carried out as follows;

1.	<u>Total Cost of Saleable Items</u>	Total Cost (C&F) By Sea.				
2.	<u>Associated Completion services.</u>	Rates in US \$ (a)	Est. Number of Jobs (b)	Est. Job Duration of each job (c)	Total Cost, US \$	Remarks
i.	Service Engineer Per Day Rate for Completion services.	Day Rate	As Per Actual	07 Days	axbxc	The rate will be calculated /Evaluated for a 07 Day Job.
ii.	Lump Sum Mob/De Mob charges of Service Engineer	Per Mob/D e-Mob	As Per Actual	N/A	axb	Evaluation will be carried out accordingly.
iii.	Hydraulic Packer Setting Tool /Any other Rental Equipment Charges per Job.	Per Job Rate	As Per Actual	N/A	axb	No Stand By rates will be entertained. The bidders are required to quote only Per Job Rates.
iv.	Lump Sum Mob/De Mob charges of Hyd Setting tool/Any other Rental Tools.	Per Mob/D e-Mob	As Per Actual	N/A	axb	Evaluation will be carried out accordingly.
v.	Total cost for associated Services					
3.	Total Cost for Sale Items + Total cost for associated Services.	Evaluation and Order Placement will be on Total Sale Items + Total Services Cost				

**DRAFT CONTRACT**

**CONTRACT NO. PROC-SERVICES/CASE NO. /
NAME OF SERVICES**

THIS **Contract for hiring of (Name of Services) (“Contract”)** is made at Islamabad as of this----- day of -----/year of execution, by and between

Oil & Gas Development Company Limited, a body corporate, having its office at OGDCL House, Jinnah Avenue, Sector F-6, Islamabad (hereinafter referred to as the “Company” which expression shall include its successors and assigns) and

M/s (Name of Contractor or Consultant as the case may be) having its office at address..... (hereinafter referred to as the “Contractor / Consultant” which expression shall include its successors and assigns)

Contractor/ Consultant and Company may hereinafter be collectively referred to as the “Parties” and each individually as a “Party”.

WHEREAS, The Company is desirous of hiring timely, efficient and reliable (Name of Services)services under rate running contract for a period of (period)on as and when required basis.

AND WHEREAS, the Company invited bids for providing Name of Services through Tender Enquiry No. PROC-SERVICES/Case No..... and the Contractor / Consultant through its Bid Proposal No..... dated warrants and represents for providing efficient and reliable Name of Services

WHEREAS, the Contractor / Consultant is engaged in the business of rendering the desired services to various E & P companies and it hereby expresses its ability and willingness to provide the desired services along with necessary equipment, type of Contract.

NOW THEREFORE, in consideration of the promises and mutual undertaking and covenants hereinafter set forth, the Parties hereby agree as follows:

SECTION 1. SCOPE OF WORK

Description of Scope of Work (As described in TOR/Tender enquiry)

SECTION 2. TERM:

The initial term of this Contract shall be -----months/years from the date of its acceptance by the contractor till completion of the job whichever is later unless earlier terminated under the provisions hereof. Any extension in the term of Contract will be subject to mutual consent of both the parties.

SECTION 3. CONTRACT DOCUMENTS:

The following documents shall be deemed to form and be read and construed as integral part of this Contract:

- (a) This Contract.
- (b) Company’s Invitation to Bid No. PROC-SERVICES/ / /2017 dated _____.



- (c) Company's LOI No. PROC-SERVICES/ / /2018 dated_____.
- (d) Contractor's letter dated_____.
- (e) Contractor's Bid Proposals No. dated _____.

Any inconsistency between the above documents of this Contract shall be resolved by giving precedence in the order in which they are listed above.

SECTION 4. PRICING TERMS:

- 4.1 The Services under this Contract shall be rendered at an estimated Cost of _____ as detailed below:
- 4.2 All prices charged under this Contract shall remain firm during the period of this Contract.
- 4.3 All payments under this Contract shall be made at actual in equivalent Pak Rupees at official currency exchange rate prevalent on the date of payment. The Company shall use its best efforts to make payment as early as possible against duly verified invoices. However, any payment made after thirty (30) days shall not in any way attract any markup, interest, surcharge or charges, etc.
- 4.4 To avoid delay in payment, it is essential that the invoices shall:
- (a) be duly signed and stamped and type-written in English.
 - (b) be identified by the Contract number.
 - (c) contain sufficient description of services provided by the Contractor.
 - (d) state the location of the Company where Services have been provided.
 - (e) state the period of Services, duly verified with sign and stamp of Head of Department.
 - (f) be precise and strictly in accordance with the Contract.
 - (g) contain any other information deemed essential either by the Contractor or by the Company.
 - (h) be submitted to Manager Accounts under intimation to SCM Department.

SECTION 5. TAXES AND DUTIES:

- 5.1 The contract price includes all direct taxes, duties, fees, levies and any other relevant charges payable/ applicable on the last date of submission of main/supplementary financial bid inside and outside Pakistan, except if OGDCL imports material in its own name it will bear duties/ import taxes/ port charges. The Contractor will be responsible for all the direct taxes (present or future) with respect to income/ payments of total contract amount, under the scope of the contract.
- 5.2 Indirect taxes (Provincial Sales Tax/ Islamabad Capital Territory Sales Tax) in Pakistan will be borne by OGDCL at actual where applicable. The contract price will be adjusted for any subsequent changes in the rates of indirect taxes as made applicable thereafter by the relevant authorities in Pakistan.
- 5.3 Any direct taxes, duties, fees, levies and other relevant charges, present or future, assessed or payable inside or outside Pakistan by the Contractor and its sub-contractor and /or by the expatriate personnel deputed by the Contractor



- and its sub-contractor in connection with its performance under the Contract shall be the sole and exclusive responsibility of the Contractor.
- 5.4 The Contractor shall be responsible and pay all taxes on its income outside and in particular on its income in Pakistan under the Contract and under the laws of Pakistan.
- 5.5 The Company shall have the right, as provided under the laws of Pakistan to meet its obligations and in particular to deduct from the payment due to the Contractor (against entire contract value including supplies and / or services components etc as applicable) , income tax at source at the rates prevailing from time to time, from the invoiced amounts, or such reduced rates fixed by the taxation authorities in Pakistan for the Contractor on production of current and valid documentary evidence by the Contractor from competent tax authorities in Pakistan and pay such amount to appropriate authorities.
- 5.6 The Contractor shall also be responsible for any income taxes levied on the Contractor's and its sub-contractor's expatriate personnel, under the laws of Pakistan and for all social security issuances and other contributions for the Contractor's expatriate personnel regardless of whether such contributions are levied on employer or employee or both in Pakistan or outside Pakistan.
- 5.7 The Contractor shall keep the Company duly informed about the steps taken by the Contractor in order to meet its obligations under the Contract and provide the necessary documents to the Company in this connection.
- 5.8 The Contractor shall indemnify the Company against any claim which might occur due to noncompliance by Contractor of any legal obligation regarding the taxes, duties, fees, levies, or other charges, including taxes on income in Pakistan and any other payments to the relevant Government or Governmental agencies or any other applicable authority.
- 5.9 Understanding reflected under the above tax clause would prevail in case of any understanding to the contrary that may be reflected with respect to tax matters, in any other clause of the contract

SECTION 6. ADJUSTMENT OF CONTRACT PRICE:

The Contract value (price) shall be subject to adjustment as a result of addition / reduction in scope of work. However unit price quoted for such work shall be used as base price for computation of final invoice. Contractor should take approval for such changes in writing from the Company. Rates and quantum of any work, not covered in the scope of work shall be subject to approval of Company.

SECTION 7. CONTRACTOR'S OBLIGATIONS:

- 7.1 The Contractor warrants and represents that all Services along with necessary equipment provided under this Contract shall be in accordance with good industry practice and the Contractor shall use every reasonable means for efficient and timely performance and provision of the Services.
- 7.2 The equipments, tools and materials utilized by the Contractor in performance of this Contract shall be handled and utilized with due care and diligence and



- proper record of consumables etc shall be maintained and made available to the Company upon request.
- 7.3 The Contractor shall secure and maintain during the performance of this Contract, all licenses, permits, authorization and certification required under the laws of Pakistan and applicable to Contractor. Company has the right to inspect such licenses, permits, authorization and certificates and the Contractor shall forthwith comply with such request.
- 7.4 Contractor shall employ and depute for the execution of Services, persons who are careful, skilled and experienced in their profession. The Company' shall have the right to ask the Contractor to replace any person employed by the Contractor for execution of Services who, in the sole opinion of Company, misbehaves, is incompetent or negligent in the performance of his duties or fails to conform with any particular provisions with regard to safety which may be set out in the Contract, or any conduct which is prejudicial to safety or health, and such person shall not be employed again for the Services without the permission of the Company.
- 7.5 Contractor and its personnel shall, when using Company's premises, adopt and observe all safety, security, fire and health measures and comply with all reasonable directions relating to health and safety rules and emergency evacuation plans as notified or as directed by the Company.

SECTION 8. DECLARATION:

- 8.1 The Contractor hereby declares that it has not obtained or induced the procurement of any Contract, right, interest, privilege or other obligation or benefit from Company through any corrupt business practices.
- 8.2 Without limiting the generality of the foregoing, the Contractor represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, Contractor, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from the Company, except that which has been expressly declared pursuant hereto.
- 8.3 The Contractor certifies that it has made and shall make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with the Company and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.
- 8.4 The Contractor accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any Contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice



to any other rights and remedies available to the Company under any law, Contract or other instrument, be voidable at the option of the Company.

- 8.5 Notwithstanding any rights and remedies exercised by Company in this regard, the Contractor agrees to indemnify Company for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to Company in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback paid by the Contractor as aforesaid for the purpose of obtaining or inducing the procurement of any Contract, right, interest, privilege or other obligation or benefit in whatsoever form from Company.

SECTION 9. PERFORMANCE BOND/SECURITY DEPOSIT:

The Contractor shall provide to the Company, within fifteen (15) days of the award of the Contract, a Performance Bond in the form of an irrevocable, independent, unconditional, direct obligation of the bank and first and simple demand guarantee of a Pakistani Scheduled Bank or branch of a foreign bank operating in Pakistan, except NIB Bank, in the amount equivalent to 10% (Ten percent) of the total contract value in Pak Rupees/US\$ strictly in accordance with the format given at LOI to cover and secure the Contractor's faithful performance and execution of this Contract. The charges and expenses payable in connection with the issuance, extension, renewal and maintenance of the Performance Bond shall be borne and paid by the Contractor. The Performance Bond shall be valid and shall be maintained in full force effect until -----/ extendable six (06) months beyond the validity of the Contract. The Company has sole and absolute right to encash the Performance Bond without any prior notice to the Contractor in the event of any breach, failure, non-compliance or delay in the performance of the Contract.

SECTION 10. LIABILITIES:

- 10.1 Each party shall defend, indemnify and hold the other party harmless from and against any claim INCLUDING THIRD (3rd) PARTIES arising out of (i) loss or damage to its own property, and / or (ii) death of or injury to its own personnel.
- 10.2 Each party shall be liable for, and shall defend, indemnify and hold the other Party and its members/affiliates, co-ventures (if any), contractors or subcontractors, and it's and their respective employees, directors, officers, agents and invitees harmless from and against all claims, demands, causes of action, judgments, awards, damages, losses, costs, expenses and liabilities of any kind and character arising out of third party property damage (including death) caused by the indemnifying Party's negligence during the performance of the Contract.
- 10.3 Notwithstanding any other provision of this Contract, Company shall defend, indemnify and hold harmless the Contractor from and against all liabilities, claims, damages, losses and costs relating to or resulting from (a) through (e) below, including any and all personal injury, death and loss of or damage to the drilling rig, vessel or platform and all other property arising there from (except if caused by Contractor's Gross Negligence or willful misconduct):
- (a) damage to or loss of or impairment to any well (including the casing) or well bore;
 - (b) killing of or the bringing under control of any well:



- (c) damage to or loss or any reservoir or productive formation, or subsurface minerals or structure or the loss of oil or gas therefore in;
- (d) blowout, fire, explosion, catering , or any uncontrolled well condition;
- (e) pollution, as well as containing, controlling and cleaning up any pollution, contamination or debris.

Gross Negligence or Willful Misconduct means any act or failure to act (whether sole, joint or concurrent) by a person that was intended to cause or was in reckless disregard of, or wanton indifference to, the harmful consequences to the safety or property of another person which the person acting or failing to act knew, or should have known, would result from such act of omission, provided that Gross Negligence or Willful Misconduct does not include any act or failure to act insofar as it: (i) constituted mere ordinary omission or oversight; or (ii) was done or omitted in accordance with the express instructions or approval of all parties."

The liability clause will be applicable to both parties i.e. OGDCL and the contractor and therefore its ambit and scope will be interpreted accordingly.

SECTION 11. INDEMNITIES:

- 11.1 Neither Party shall be liable to the other for any punitive, indirect or consequential damages sustained by the other including without limitation business interruptions, loss of profits, loss of use of assets, loss of data and loss of contracts, and each Party shall hold the other Party harmless in respect thereof.
- 11.2 The Contractor shall indemnify the Company against all motions, proceedings, claims, liens and demands whatsoever which may be made against the Company by the third parties for or in respect of or out of any failure by the Contractor in performance of its obligation or wrongful performance under this Contract or any act or omission in connection therewith. Should Company have to pay any moneys in respect of any such claims or demands, the amounts to be paid and the costs incurred by the Company connection therewith, shall be charged in to and paid by the Contractor in full.

SECTION 12. LIQUIDATED DAMAGES:

- 12.1 If the contractor fails to deliver any or all of the goods/services within the time periods(s) specified in the Contract, the purchaser shall, without prejudice to other remedies under the Contract, deduct from the Contract Price/Bank Guarantee as liquidated damages, a sum not more than 0.5% of the contract price per week or part thereof for first four weeks, 1.00% per week for next four weeks and 1.5% per week exceeding four weeks upto maximum extent of 5% of the contract value.
- 12.2 In case the purchaser is satisfied that the delayed/defective services/shipment was due to some mistake or circumstances beyond the control of the contractor and the contractor has not intentionally or negligently contributed in the delay, the purchaser may impose Liquidated Damages for not more than a sum equivalent to 0.5% of the delayed or defective shipment per week or part thereof for first two weeks, 1.00 per week for next three weeks and 1.5% per week



exceeding five weeks but not exceeding 5% of the contract value of the delayed/defective shipment provided that the Contractor takes immediate remedial measures for the replacement of defective shipment and takes prompt steps to mitigate the delayed. The Purchaser may however, impose Liquidated Damages as per clause 12.1 above if the delayed or defective shipment/ services has affected the project completion schedule or has resulted in Production losses.

- 12.3 Even after imposition of LDs, if the supplier fails to materialize the delivery (material and or services); the Purchaser reserves the right to cancel Purchase Order/Contract/LC and forfeit the Guarantee (if applicable) after intimating the supplier for such cancellation/forfeiture.

SECTION 13. PATENT RIGHTS:

The Contractor shall protect, indemnify and hold the Company harmless from and against all claims, proceedings, demands, damages, costs, charges and expenses whatsoever for or on account of infringement of any patent rights, design, trade-mark, industrial design or name or other protected rights in respect of any design, method, machine work, material etc. used for or in connection with the Services.

SECTION 14. DIRECTIONS:

The Contractor and its personnel must, when using Company's premises, adopt and observe all safety, security, fire and health measures and comply with all reasonable directions relating to health and safety rules and emergency evacuation plans as notified or as directed by the Company or its representative.

SECTION 15. CONFIDENTIALITY:

- 15.1 Any data provided by the Company or which the Contractor or its employees have access to, or which they acquire directly or indirectly under this Contract or during the performance of this Contract, shall be deemed Confidential Information. Duplication or disclosure of such Confidential Information by Contractor or any one claiming through it without the prior written consent of the Company is strictly prohibited. All Confidential Information shall be the sole property of the Company. The Contractor hereby agrees not to disclose said data, information, any interpretations thereof, or data derivative there from or any information relating to Company's facilities, installations and operations etc to unauthorized parties or person. This Section also applies to any sub-consultant, assignee or consultants used by the Contractor. The obligations under these provisions shall survive the termination or expiry of this Contract.
- 15.2 Neither the Contractor nor any of its employees shall, except with the prior written consent of the Company, take ground or aerial photographs of the site, rig, installation or existing facilities of the Company.
- 15.3 The Contractor further undertakes that it shall not, except with the prior written consent of the Company:
- i) make any reference publicly, whether to the press or in books, brochures, internal publications, publicity material, magazines and periodicals or by advertisement through radio, television or films or by any other medium relating to:



- a) the Contract or its terms and conditions,
 - b) the nature or extent of Services carried out by the Contractor,
 - c) the method, materials, or equipment used and personnel employed, or
 - d) any other Company information in the possession of the Contractor.
- ii) disclose or convey any of the matters or information referred to in (i) above to any employees of the Contractor not directly concerned with the Contract.

SECTION 16. DEFAULT:

- 16.1 If the Contractor is unable or unwilling to perform its Services in accordance with terms of the Contract, the Company may obtain conforming Services from other sources, in which case, the Contractor shall be liable to the Company for the increased cost, if any, incurred by the Company for procuring such Services from other sources.
- 16.2 The Contractor shall also be in default under the Contract if the Contractor (a) fails to fully and timely perform any of its material obligations under the Contract (b) becomes insolvent or seeks relief under the bankruptcy laws.

SECTION 17. ARBITRATION:

- 17.1 If any technical question, difference or dispute arises under this Contract, the Parties shall use their best efforts to promptly resolve such dispute, controversy or disagreement. However, if the dispute continues, either Party may give written notice to the other for appointment of an expert to resolve the dispute. The expert shall be preferably a Pakistani national and shall have at least ten years of experience in the relevant technical field.
- 17.2 If any question, difference or dispute arises regarding the rights, obligations or performance by the Parties under this Contract, the Parties shall use their best efforts to promptly resolve such dispute, controversy or disagreement. This includes without limitation the question of whether one or the other is in default and what action if any shall be taken to remedy such default. If the Parties are unable to resolve such question, difference, dispute and controversy, the matter may be referred to arbitration. Either Party may notify the other in writing specifying the nature of the dispute and designate one arbitrator to whom such dispute shall be referred requesting that the other party give notice in writing within fifteen (15) days after receipt of the notice of designation of the second arbitrator. The two arbitrators shall within fifteen (15) days after the receipt of notice of the second arbitrator, appoint an umpire whose decision with respect to the dispute shall govern in the event that the arbitrators shall fail to agree. In the event that second arbitrator is not designated within the time specified, the first arbitrator shall have full and complete power to determine the dispute.
- 17.3 Arbitration shall be precedent in any action of law and that the provisions of the Arbitration Act, 1940 and rules framed thereunder shall apply. The venue of the arbitration shall be in Islamabad, Pakistan.
- 17.4 The expenses of arbitration shall be charged equally to the Parties unless the award of the arbitrator(s) or the umpire, as the case may be, otherwise provide.

SECTION 18. TERMINATION:



- 18.1 In the event of default by the Contractor, the Company shall have the right to terminate the Contract for cause, by giving written notice effective ten (10) days after the date of such notice, unless otherwise specified therein. If the Contractor cures such default within the ten (10) days period, or provides evidence to satisfy the Company that such default does not exist. In addition to any other remedy available under law or in equity, the Company shall be entitled to recover all actual damages, costs and losses incurred by the Company as a result of default by the Contractor.
- 18.2 The Company shall have the right to terminate the Contract, in whole or in part, without any cause at any time upon thirty (30) days' prior written notice. Upon receipt of such notice of termination, the Contractor shall promptly cease all further Services under the Contract with such exceptions, if any, specified in the notice of termination. The Company shall pay the Contractor for all Services performed and obligations incurred prior to the date of termination in accordance with the terms of the Contract.

SECTION 19. FORCE MAJEURE:

- 19.1 "Force Majeure" shall mean an unforeseeable event that impairs the ability of the Party affected by it to wholly or partially perform its obligations under this Contract. In the event of either party hereto being rendered unable, wholly or in part, by Force Majeure circumstances to carry out its obligations under this Contract, then such party by giving notice with satisfactory evidence of such Force Majeure circumstance(s) relied upon, the obligations of the party giving such notice so far as they are affected by such Force Majeure shall be suspended for the period during which the party, is rendered unable as aforesaid, but for no longer period. However, such notice must be given within fourteen (14) days of occurrence of Force Majeure event. The terms Force Majeure as employed herein, shall include but not be limited to acts of God or war, war whether declared or undeclared; acts of terrorism or sabotage, or public enemy; riots and insurrection; civil commotion; revolution; embargo, blockade, invasion or act of foreign enemies; epidemic; landslide, lightening, earthquake, loss of well, reservoir failure, change of law or policy; or any other cause beyond the control of the affected Party which materially and adversely affects the performance by such Party of its obligations under or pursuant to this Contract, other than to make payments due hereunder, acts of enemies, civil insurrection, fires, floods, earthquakes or other physical disasters, order or request of Government, blockade or embargo. It is however, clarified that strikes, lockouts, shortage or non availability of raw materials, rains disturbances, other labour disputes or non availability of transport shall not be included in the term "Force Majeure". During the established period of Force Majeure as contained hereinabove, the Contractor shall not be entitled to payment for Services and the Company shall not impose penalty.
- 19.2 In case the Force Majeure contingencies last continuously for more than one month, both parties will agree on the necessary arrangement for the further implementation of the contract. In case further implementation is unforeseeable and impossible, both parties shall arrange for the termination of the Contract, but without prejudice to their right and obligations prior to such termination it



being understood that each party shall fulfill its contractual obligations so far as they have fallen due before the operation of Force Majeure.

SECTION 20. LICENSE, PERMITS, AUTHORIZATION AND CERTIFICATION:

The Contractor / Consultant hereby warrants and undertakes that all kinds of licenses, permits, authorizations and certifications required under the laws of Pakistan and applicable to the Contractor / Consultant are intact, valid and possessed by the Contractor / Consultant and shall be maintained during the performance of this Contract. The Company has the right to inspect, or demand for such licenses, permits, authorization and certificates and the Contractor/ Consultant shall forthwith comply with such inspection on demand.

SECTION 21. PHOTOGRAPHY AND ADVERTISING:

- 21.1 The Contractor undertakes that neither the Contractor nor any of its employees shall, except with the prior written consent of the Company shall take, any ground or aerial photographs of the site, rig, installation or existing facilities at or around the work site.
- 21.2 The Contractor further undertakes that neither the Contractor nor any of the Contractor's personnel shall, except with the prior written consent of the Company:
- i. make any reference publicly, whether to the press or in books, brochures, internal publications, publicity material, magazines and periodicals or by advertisement through radio, television or films or by any other medium relating to:
 - the Contract or its terms and conditions,
 - the type or extent of the works, services, jobs required to be carried out by the Contractor,
 - the method, materials, or equipment used and personnel employed,
 - any information in the possession of the Contractor as to the operations of the Company.
 - ii. Disclose or convey any of the matters or information referred to in (i) above to any employees of the Contractor not directly concerned with the Contract.

SECTION 22. SECURITY:

- 22.1 Company shall provide appropriate site security including, as from time to time may be necessary, security personnel and security services at the work site or during transportation of personnel and equipment to and from the work site.
- 22.2 It is the express intent of the Parties that any delay in the performance of Services or provision of equipment, or part thereof related directly or indirectly to security issues shall under no circumstances be deemed a breach of Contractor's obligation under the Contract.



SECTION 23. INSURANCE DEMURRAGE:

- 23.1 The Contractor shall within seven (07) days of the date hereof take out and shall maintain until maturity of the Contract, standard insurance policies, which shall include Contractor's waiver of subrogation as follows:
- (a) Worker's compensation insurance covering all employees, engaged directly or indirectly in the performance of the Services in accordance with the applicable statutory requirements of the state or nation having jurisdiction over such employees.
 - (b) All risk insurance cover for the Services and Equipment including without limitation Equipment and machinery and other materials, if any supplied hereunder by the Contractor.
 - (c) The foregoing insurance shall be maintained with insurers that are satisfactory to the Company, and the terms of coverage for the foregoing insurance shall also be satisfactory to the Company and shall be evidenced by certificate to be furnished to Company. Such certificates shall provide that ten (10) days written notice shall be given to Company prior to cancellation of any policy. In the event the Contractor fails to effect or keep in force the insurances then the Company without prejudice to any other rights, shall effect and keep in force such insurance's at the Contractor's cost and risk.
 - (d) It shall be the duty of the Contractor to notify the insurers of any insurance referred to above or of any matter or event, which by the terms of such insurance are required to be so notified.
- 23.2 The Contractor shall indemnify the Company against all suits, proceedings, claims, liens and demands whatsoever which may be made against the Company by the third parties for or in respect of, out of any failure by the Contractor in performance of its obligation or wrongful performance under this Contract or any act or omission in connection therewith. Should Company have to pay any moneys in respect of any such claims or demands, the amounts to be paid and the costs incurred by the Company in connection therewith, shall be charged to and paid by the Contractor in full.

SECTION 24. EMPLOYMENT OF PAKISTANI NATIONALS

The Contractor shall employ qualified Pakistani nationals for its Services, if available. If necessary, Contractor may employ expatriate professionals only after making all out efforts to employ Pakistani nationals. The Contractor shall make reasonable efforts to train Pakistani nationals in order to gradually replace its expatriate staff. Unskilled workers if needed for the Services shall be hired from the area where the Services are being performed.

SECTION 25. ASSIGNMENT:

The Contractor shall not sub-contract or assign either whole or part of its obligations under this Contract without the prior written consent of the Company and such consent if given shall not relieve the Contractor from any liability or obligation under this Contract. The Contractor shall be responsible for the acts, defaults and negligence of any sub Contractor, its personnel or agents as fully as it/they were the acts, defaults or negligence of the Contractor, or its personnel.



SECTION 26. ENTIRE CONTRACT:

The documents mentioned in Section-3 of this Contract constitute the entire understanding between the Company and the Contractor on the subject matter and supersede all prior discussions, communications and agreements regarding the subject matter, whether written or oral.

SECTION 27. AMENDMENTS:

No variation in or modification of the terms of this Contract shall be made except by written amendment signed by the duly authorized representative of the Company and the Contractor.

SECTION 28. GOVERNING LAW:

This Contract shall be construed, interpreted and governed by the laws of the Islamic Republic of Pakistan.

SECTION 29. ERADICATION OF CORRUPTION:

All vendors, Suppliers, Contractors, Consultants and alike are encouraged to inform the Managing Director and Heads of Departments in case where any Company's employee asks for any type of favour whether monetary or in kind. You can contact the M.D. and Heads of Departments on the following addresses, phone numbers, faxes or e-mail:

- i MD & CEO
Oil & Gas Development Company Limited
OGDCL House, Blue Area, Islamabad.
Tel No. 051-9209701
Fax No. 051-9209708
E-mail: md@ogdcl.com

- ii GM (SCM)
Tel No. 051-920023540
Fax No. 051-9209859

SECTION 30. NOTICES:

Any notice, request demand, statement, call, question, intimation, reference, or other Communication required for execution of this Contract shall be made in writing and shall be directed by courier service or facsimile to the address of the Parties as follows:

To the Company: Manager (_____)
Oil & Gas Development Company limited
OGDCL House, Jinnah Avenue, Sector F-6
Blue Area, Islamabad, Pakistan
Telephone: 0092 - 51-92002____
Facsimile: 0092 - 51-



To the Contractor: Mr. _____
M/s _____

Address:- _____

Telephone: 0092 -

Facsimile: 0092 -

Notices shall be deemed served when received by the addressee.

IN WITNESS WHEREOF, the Parties hereto have executed this Contract as of the date first above written.

COMPANY

CONTRACTOR

Signature _____

Signature _____

Name _____

Name _____

Position _____

Position _____

Witness _____

Witness _____

Witness _____

Witness _____