INVITATION TO TENDER

(ITT)

FOR A CONTRACT FOR

PROVISION OF A LAND UNIT RIG

Tender No. SBC-WE-002-2017

SHELL BOLIVIA CORPORATION, SUCURSAL BOLIVIA ("COMPANY")

DATE: APRIL 2017

Contents

SECTION I

INSTRUCTIONS TO TENDERER

PLEASE READ THE INSTRUCTIONS IN THIS SECTION OF THE ITT CAREFULLY AS FAILURE TO COMPLY WITH THESE PROCEDURES MAY INVALIDATE YOUR BID.

1 DEFINITIONS

Capitalised words and expressions have the following meanings when interpreting the ITT:

ACKNOWLEDGEMENT FORM	the form included in Section III – Form of Acknowledgement.
ADDENDUM or ADDENDA	an addition to or clarification of the ITT issued by COMPANY.
AFFILIATE	in reference to a PERSON, any other PERSON that: (a) directly or indirectly controls or is controlled by the first PERSON; or (b) is directly or indirectly controlled by a PERSON that also directly or indirectly controls the first PERSON. A PERSON controls another PERSON if that first PERSON has the power to direct or cause the direction of the management of the other PERSON, whether directly or indirectly, through one or more intermediaries or otherwise, and whether by ownership of shares or other equity interests, the holding of voting rights or contractual rights, by being the general partner of a limited partnership, or otherwise. An AFFILIATE of COMPANY is also an AFFILIATE of Royal Dutch Shell, plc.
ALTERNATIVE PROPOSAL	an alternate technical or commercial (or both) proposal prepared and submitted by TENDERER.
ANTI-BRIBERY LAWS	all APPLICABLE LAWS that prohibit the bribery of, or the providing of unlawful gratuities, facilitation payments, or other benefits to, any GOVERNMENT OFFICIAL or any other PERSON, including: (a) the United States Foreign Corrupt Practices Act of 1977; and (b) the United Kingdom Bribery Act 2010.
APPLICABLE LAWS	where applicable to a PERSON, property, or circumstance, and as amended from time to time: (a) statutes (including regulations enacted under those statutes); (b) national, regional, provincial, state, municipal, or local laws; (c) judgments and orders of courts of competent jurisdiction; (d) rules, regulations, and orders issued by government agencies, authorities, and other regulatory bodies; and (e) regulatory approvals, permits, licenses, approvals, and authorisations.
COMPANY	the entity identified on the cover page.
COMPANY GROUP	COMPANY and: (a) its co-venturers and joint ventures; (b) any AFFILIATE of COMPANY, its joint ventures, or its co-venturers; and (c) any director, officer, employee, or other individual working under the direct control and supervision of COMPANY, its joint ventures, or co-venturers, or the AFFILIATES of COMPANY, its joint ventures, or co-venturers.
COMPANY LEAD	the person to which any and all communication with respect to this ITT must be made. In this case:

	Rhian Davies: Rhian.Davies@Shell.com (cc. Rodrigo Toro: Hugo.Toro@shell.com)
CONFIDENTIAL INFORMATION	all data, reports, records, correspondence, notes, compilations, studies and other information disclosed by either COMPANY or its AFFILIATES or TENDERER, and relating to or in any way connected with this ITT, COMPANY, or any of their respective AFFILIATES or their actual or proposed business activities, whether such information is disclosed orally, in writing, in machine readable form or by any other means, whether disclosed directly or indirectly, and regardless of whether such information is identified as confidential, and includes any information ascertained by inspection by TENDERER or its AFFILIATES of the premises or worksites of COMPANY or its AFFILIATES.
CONSEQUENTIAL LOSS	(a) indirect or consequential losses; and (b) loss of production, loss of product, loss of use, and loss of revenue, profit, or anticipated profit, whether direct, indirect, or consequential, and whether or not the losses were foreseeable at the time of entering into the TENDER.
CONTRACT	the form included in Section IV – Contract Template and Other Required Documents.
GOVERNMENT OFFICIAL	(a) any official or employee of any government, or any agency, ministry, or department of a government (at any level); (b) anyone acting in an official capacity for a government regardless of rank or position; (c) any official or employee of a company wholly or partially controlled by a government (e.g. a state-owned oil company), political party, or any official of a political party; (d) any candidate for political office, or any officer or employee of a public international organisation (e.g. the United Nations or the World Bank); and (e) any immediate family member (meaning a spouse, dependent child, or household member) of any of the foregoing.
ITT or ITT DOCUMENTS	this Invitation to Tender, including all documents listed in the table of contents and all other documents incorporated by reference in those listed documents.
NOTICE	means a communication to be delivered to COMPANY LEAD.
PERSON	(a) a natural person; or (b) a legal person, including any individual, partnership, limited partnership, firm, trust, body corporate, government, governmental body, agency, or instrumentality, or unincorporated venture.
PERSONAL DATA	any information relating to an identified or identifiable individual, unless otherwise defined under APPLICABLE LAWS related to the protection of individuals, the processing of such information, and security requirements for and the free movement of such information.
SCOPE	all activities and obligations to be performed by or on behalf of CONTRACTOR under the CONTRACT, including those described in Section V.
TENDER	the document prepared and submitted by TENDERER in response to, and in accordance with the this ITT, and includes an ALTERNATE TENDER.
TENDERER GROUP	TENDERER and: (a) its joint venture partners and subcontractors; (b) any AFFILIATE of TENDERER or its subcontractors; and (c) any director, officer, employee, other PERSON, employed by or acting for and on behalf of TENDERER, its subcontractors, or the AFFILIATES of TENDERER and its subcontractors.
TENDER LETTER	the form included in Section III – Form of Tender.

TENDERER	the PERSON having confirmed its intent to submit a TENDER in accordance with the ITT, and also includes any and all joint venture partners with which the party elects to join in submitting its TENDER, and any subcontractors nominated by the party to provide any part of the SCOPE. TENDERERS refers to each TENDERER to which COMPANY has sent an ITT for the provision of SCOPE.
TENDER DEADLINE	the date and time by which TENDERER must submit its TENDER.
TENDER PERIOD	the period during which a TENDER may be submitted by a TENDERER, which period commences on the date the ITT is issued by COMPANY and ends on the TENDER DEADLINE.

2 INTRODUCTION

2.1 Invitation to Tender

(a) COMPANY invites you to submit a TENDER for the supply of Land Unit Rig

(b) This ITT is comprised of the following sections:

SECTION I	INSTRUCTIONS TO TENDERER
SECTION II	CONDITIONS OF TENDER
SECTION III	FORMS APPLICABLE TO THE TENDER
SECTION IV	CONTRACT TEMPLATE AND OTHER REQUIRED DOCUMENTS
SECTION V	SCOPE DESCRIPTION
SECTION VI	SOCIAL PERFORMANCE

(c) This ITT is not an offer to contract with COMPANY and is subject to conditions of the TENDER and the Confidentiality Agreement you have signed.

2.2 Particular Features of the SCOPE

The successful TENDERER will be responsible for the SCOPE. COMPANY will monitor and appraise the successful TENDERER's performance against the requirements of the CONTRACT and the successful TENDERER will be required to supply information necessary to allow COMPANY to monitor and appraise the progress of the SCOPE.

2.3 Executive Summary

2.3.1 Project Background

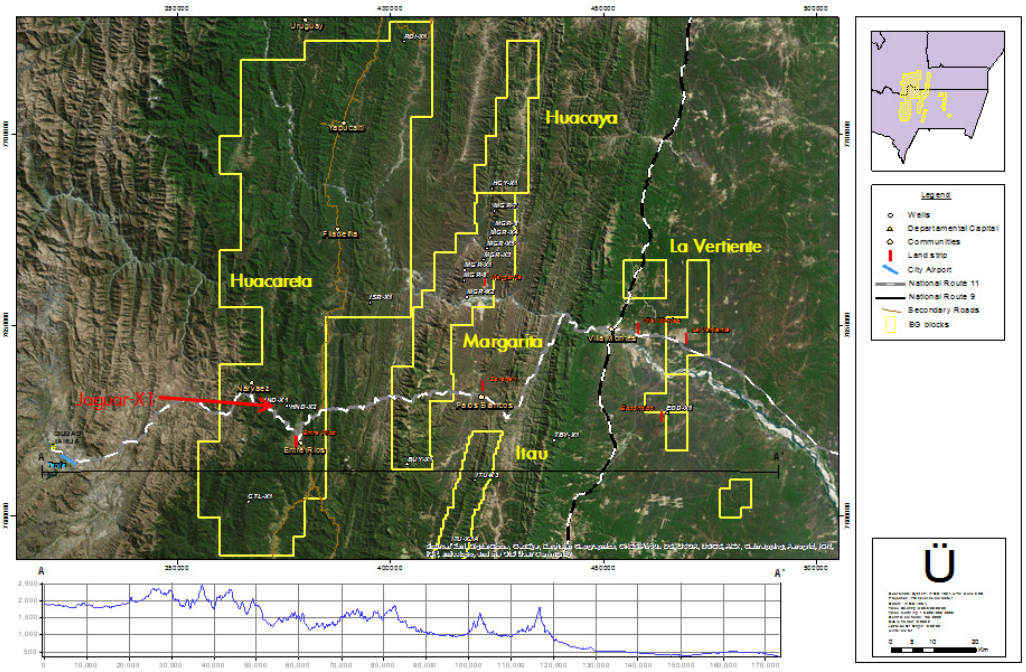
Set out below are the best forecast for the anticipated Scope of Work; due to the nature of the industry, all aspects may be subject to change. However, Shell Bolivia has endeavored to provide a realistic scenario in order to estimate the scope of work for the CONTRACTOR to define their bid approach. The provisional drilling program for this ITT, comprises drilling & testing the well (Jaguar-X1). In a success case the well will be suspended and a workover planned to complete the well at a later date. The period of the CONTRACT for the associated SERVICES shall be a one well term. Jaguar-X1 is set to be drilled in Q2 2017.

The depth of the well could be 4600m (-200m/+700m); it is planned to target the Huamampampa formation with bottom hole pressure of 10,869 psi and bottom hole temperature of up to 280°F. The well will be deviated up to 25°.

It is the intention of Shell Bolivia to drill the well in an efficient, safe and environmentally sound manner, while meeting all geological and production objectives. Shell Bolivia intends to drill this well in partnership with CONTRACTOR, and it is essential that Shell Bolivia's and CONTRACTOR's HSE objectives are aligned at the outset.

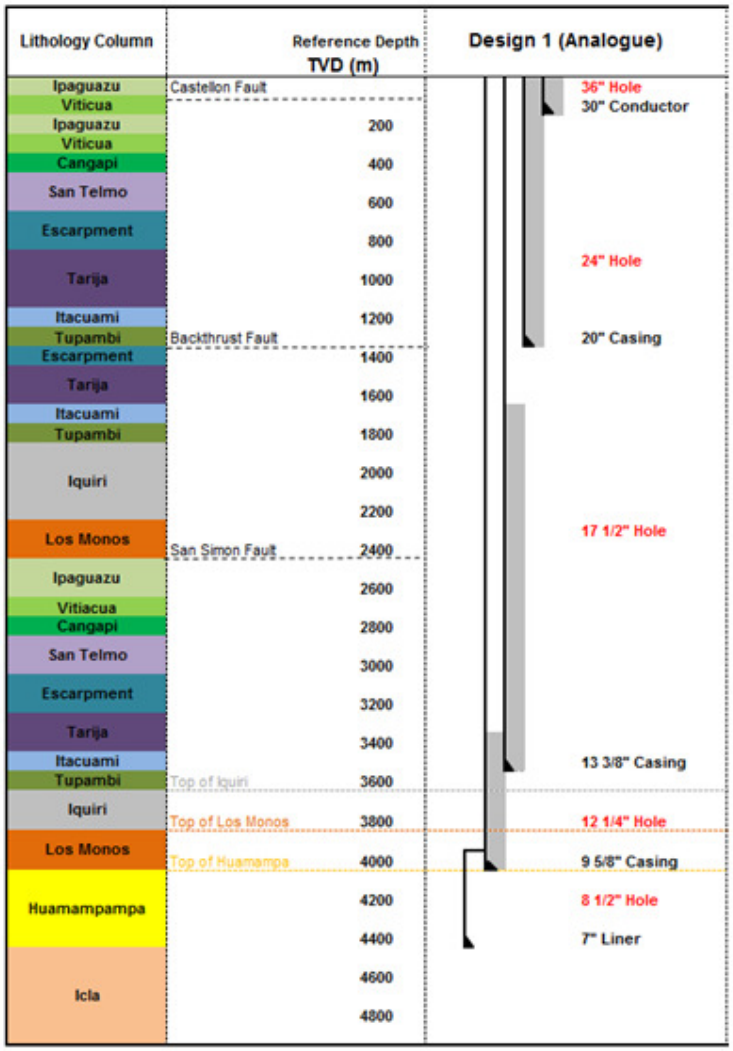
The prospect is a potential gas well. No H_2S and up to 2.5% CO_2 is expected in the well. At this time it is planned to use a water based drilling fluid system and potentially also an oil based drilling fluid system.

The well will be located in the Southern Subandean. The nearest town is Entre Rios, which is 40-50 min drive from the well location. The block is currently in the first Phase of the exploration period and exploratory activities are required, as part of the commitment submitted to the government, by Q1 2019.



2.3.2 General Well Design

COMPANY will provide detailed well design information prior to any drilling campaign. The information on the following pages is for reference only.



2.3.3 Project Schedule

The table below gives an indication of the projected operations schedule as it is currently envisaged. These dates are not official and they should be used just for reference.

Operation	Start Date	End Date	Days
Preparation & Training in Company's yard in Entre Rios	01 Feb 2018	10 Mar 2018	37
Mob & Rig up	10 Mar 2018	2 Apr 2018	23
Drilling	2 Apr 2018	27 Jan 2019	300

2.4 ITT Timetable

The proposed schedule is as set forth below. COMPANY may change any of these dates at its discretion without liability. COMPANY will communicate any changes to TENDERERS promptly.

DATE	EVENT/MILESTONE
May 8th, 2017	Submission of ACKNOWLEDGEMENT FORM
June 1st, 2017	TENDER DEADLINE (BID SUBMISSION) (12 noon Bolivia local time)
July 24th, 2017	CONTRACT and required COMPANY documents signed with winning TENDERER

July 30th, 2017	CONTRACT start date

TENDERER must be adhere to the dates and times shown above.

3 GENERAL REQUIREMENTS

3.1 Acknowledgement Form

TENDERER will submit the ACKNOWLEDGEMENT FORM to COMPANY no later than 5 days after receiving the invitation.

3.2 Return if not Tendering

If, after submitting the ACKNOWLEDGEMENT FORM, TENDERER decides not to submit a TENDER, the entire ITT package must be returned to the COMPANY immediately.

3.3 Communications with Others

During the TENDER PERIOD, any communications in respect of this ITT must be made to COMPANY LEAD. TENDERER will not communicate with any other PERSON at COMPANY regarding the ITT or related matters, whether or not such PERSON was engaged in work leading up to the ITT or in the preparation of the ITT prior to the TENDER DEADLINE.

3.4 Ownership

All copies of this ITT supplied by COMPANY to TENDERER remain the property of COMPANY and must be (i) returned to COMPANY 5 days after TENDERER receives notification from COMPANY that TENDERER has been unsuccessful or (ii) destroyed or deleted from electronic storage immediately upon notification from COMPANY.

3.5 Sufficiency of Tender

The submission of a TENDER confirms that TENDERER has satisfied them self, either independently or by proper consultation with COMPANY, as to the extent and nature of the SCOPE which is the subject of the TENDER and all requirements contained in this ITT, and that there is sufficient information to permit proper assessment of risks and contingencies and all other circumstances which could otherwise affect a TENDER.

4 PREPARATION OF TENDER

4.1 Language of the Tender

The TENDER and its accompanying documents must be submitted entirely in the English language.

4.2 Currency of the Tender

(a) The currency used in the TENDER must be United States Dollars.

4.3 Validity Period

All details of the TENDER, including prices and rates, are to remain valid for acceptance for 120 days or any reasonable revision to such period by COMPANY.

4.4 Legal Authority of Tenderer

(a) The TENDER must give the full legal name and registered office of TENDERER and, if applicable, the jurisdiction in which it is registered or incorporated. The TENDER must be signed by its duly authorized representative. If requested by COMPANY, TENDERER agrees to use COMPANY's designated on-line tool to sign with a digital signature, except where prohibited by APPLICABLE LAW. If signed digitally, TENDERER agrees to waive any right to dispute the genuineness of the signature, or the admissibility of its TENDER or COMPANY's ITT where such challenge is based on the absence of a physical signature.

(b) If TENDERER proposes to perform SCOPE through another entity, such other entity will be a subcontractor of TENDERER and TENDERER will remain obligated for such performance.

(c) A TENDER by a joint venture must state the full names of all parties to the joint venture and must be signed by either an authorised representative with authority to sign on behalf of the joint venture or by an authorized representative of each joint venture member, such that in either case all members are legally bound. If SCOPE will be performed by a joint venture, each member must acknowledge joint and several liability for the performance of the CONTRACT and of all TENDERER's liabilities.

(d) COMPANY may request evidence of the authority of any PERSON signing on behalf of TENDERER.

4.5 Meetings with Company

An information session will be organised, if necessary, to outline COMPANY's strategy and to provide TENDERERS with an opportunity to ask questions about the ITT, the process and the requirements for a TENDER.

4.6 Contents of the Tender

(a) The TENDER must follow the order and form provided in this ITT.

(b) The TENDER must include the following documents noted in Section III:

Form of Acknowledgement
Form of TENDER
Form of Schedule of Prices
Form of Qualifications to the Contract Template
Form of ALTERNATIVE TENDERS
Form of Confidentiality Agreement
Technical Questionnaire
Social Performance Questionnaire

(c) The TENDER must be submitted in digital storage media.

5 INSTRUCTIONS REGARDING FORMS SUBMITTED

5.1 Form of TENDER

The TENDER will be completed by TENDERER and will constitute an offer by TENDERER to enter into the CONTRACT as the "CONTRACTOR" with COMPANY under the terms and conditions of the CONTRACT.

5.2 Schedule of Prices

(a) TENDERER must enter its rates, prices and other information onto the tables provided in the Schedule of Prices. TENDERER may not alter the text or layout of the tables in any manner whatsoever.

(b) TENDERER will include all applicable Taxes in the prices/rates.

5.3 Qualifications to the Contract Template and Other Required COMPANY documents.

(a) COMPANY and its AFFILIATES, as purchasers on a global basis, have standardized contracting and procurement processes. The ITT is accompanied by standard terms and conditions which take into account the commercial interests relevant to the TENDER while maintaining a fair and reasonable position for all its suppliers. Standard terms and conditions are intended to contain all necessary operative clauses and have been drafted following due consideration of the marketplace. Utilization of standard terms permits fair comparison of the TENDER relative to that of other potential suppliers. For this reason, COMPANY will not

entertain requests for changes to terms and conditions except under conditions noted below. COMPANY will not accept requests for changes based on preferences.

(b) Any qualifications that are necessary to allow for performance of SCOPE must clearly set out by TENDERER on a table provided by COMPANY, with proposed alternative terms and conditions. A mark-up or "red line" of the CONTRACT is not acceptable to the COMPANY.

(c) The list of qualifications to the CONTRACT together with TENDERER's commercial proposal will be used to assess the competitiveness of the TENDER.

(d) COMPANY's will not use any contract template or general terms and conditions proposed by TENDERER and the submission of an alternate contract template or general terms and conditions will not satisfy the requirement to propose alternative terms and conditions as specified above or an ALTERNATE TENDER.

(e) If the TENDER is qualified, the rates and prices are to be calculated and presented on the assumption that COMPANY will accept all the qualifications. COMPANY reserves the right to disregard the TENDER if it is qualified.

(f) COMPANY will not entertain further qualifications to the CONTRACT submitted post-award or otherwise after the TENDER DEADLINE.

(g) Where applicable, the same requirements as above pertain to additional required COMPANY documents, including the following:

(i) Parent Company Guarantee – A TENDERER may be required, where applicable, to cause its parent company to provide additional financial or performance assurances at the outset of the CONTRACT, or where required by occurrence of subsequent conditions specified by the CONTRACT.

(ii) Data Processing Agreement – Where SCOPE involves the processing of PERSONAL DATA by TENDERER, if TENDERER is awarded the CONTRACT, a data processing agreement must be signed by CONTRACTOR in addition to the CONTRACT.

(iii) IM/IT Agreement for IT Access and Security – Where SCOPE involves access by TENDERER to COMPANY GROUP's IT systems or infrastructure, if TENDERER is awarded the CONTRACT, an IM/IT agreement must be signed by CONTRACTOR in addition to the CONTRACT.

5.4 Alternative Tender

(a) Where TENDERER feels it would be advantageous or more cost-effective to TENDERER or COMPANY, or both, to deviate from the requirements set forth in this ITT, TENDERER may present such deviations as an ALTERNATIVE TENDER, marked as such, and presented in addition to TENDERER's principal TENDER.

(b) TENDERER is encouraged to develop and propose alternatives to the SCOPE that do not challenge the broad concepts contained in it, if alternatives will reduce the CONTRACT price or improve the schedule or operating economy with no sacrifice in quality. Any ALTERNATE TENDER must describe the nature and extent of TENDERER's proposed deviations and the resultant effect on the prices, schedules, commercial terms and other aspects of TENDERER's principal TENDER.

(c) Notwithstanding the foregoing, COMPANY's consideration of any ALTERNATIVE TENDER is conditional upon TENDERER's submission of a principal TENDER in accordance with the terms of this ITT.

5.5 Delivery

TENDERS will be submitted in digital storage media in two closed envelops (A-B).

Envelope A:

Form of Acknowledgement

Form of TENDER

Form of Qualifications to the Contract Template

Form of ALTERNATIVE TENDERS

Form of Confidentiality Agreement

Technical Questionnaire

Social Performance Questionnaire

Envelope B:

Form of Schedule of PRICES

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5.6 Modifications to the Tender

TENDERER may modify or withdraw its TENDER through written NOTICE at any time between its submission and the TENDER DEADLINE. Following withdrawal of its TENDER, TENDERER may submit a new TENDER, provided it is submitted prior to the TENDER DEADLINE.

6 RESULTS OF TENDERING

When COMPANY takes a decision on the results of the ITT, TENDERER will be informed whether or not the TENDER has been successful. No other information will be given on the progress of the TENDER evaluation.

7 FURTHER INFORMATION ABOUT TENDERER OR TENDER

7.1 Further Information

COMPANY reserves the right to request any further information it may deem necessary to evaluate the TENDER and additional information necessary for the appraisal of the TENDER.

7.2 Visits

COMPANY may visit TENDERER for the purpose of obtaining further information or require that TENDERER visit COMPANY's offices or worksites.

7.3 Win-Win Discussions

COMPANY expects, after TENDERS have been received and evaluated, to explore with short-listed TENDERERS means whereby mutual savings and commensurate benefits may be achieved. This process will be conducted before the award of the CONTRACT.

7.4 Local Content Plan

When requested to be included as part of its TENDER, TENDERER will attach a written plan to provide opportunities to local businesses consistent with the relevant provisions of the CONTRACT. The Local Content Plan should include details requested to evaluate the Local Content Plan.

7.5 Permits

TENDERER will provide all permits required for the SCOPE, except where COMPANY has agreed in the SCOPE DESCRIPTION to supply listed permits. Providing information regarding the SCOPE or COMPANY's contemplation of activities in connection with the SCOPE to any governmental authority or third party is not permitted. Where material to the TENDER, COMPANY and TENDERER will discuss the means to obtain information on permits that may be required and proceed only as approved by COMPANY.

SECTION II

CONDITIONS OF TENDER

1 CONDITIONS RELATING TO TENDER

(a) By submitting a TENDER:

(i) TENDERER accepts the terms and conditions set forth in this ITT, agrees to perform its obligations set forth in this ITT, and further agrees that no other terms and conditions apply; and

(ii) COMPANY will not be deemed to have accepted a TENDER until TENDERER and COMPANY have signed the CONTRACT for the supply of the SCOPE and then only for such SCOPE.

(b) The preparation and submission of a TENDER is at the sole expense of TENDERER. COMPANY is not liable for any costs incurred by TENDERER, including costs and expenses of attending meetings or worksite visits.

(c) Acceptance of any TENDER by COMPANY is contingent upon COMPANY's sole determination that it is in the best interest of COMPANY to accept any such TENDER, in whole or in part. COMPANY may consider any other considerations, including the following, in making its determination:

(i) The commercial and technical basis of TENDER;

(ii) TENDERER's willingness to accept the terms and conditions set out in the CONTRACT without qualification;

(iii) TENDERER's personnel, efficiency, and experience in performing similar SCOPE;

(iv) TENDERER's technical capability;

(v) TENDERER's organization, structure, and proposed subcontractors;

(vi) TENDERER's HSSE record and ability to adhere HSSE rules; and

(vii) TENDERER's environmental performance/sustainable development capability.

(d) COMPANY makes no representations, covenants, warranties or guarantees, expressed or implied, other than those expressly set forth herein. All warranties expressed or implied are specifically excluded, including those based on custom, usage or industry practices, and those concerning acceptance of the lowest price TENDERS.

(e) COMPANY MAKES NO REPRESENTATION OR WARRANTY AS TO THE ADEQUACY, ACCURACY, OR SUITABILITY FOR ANY PURPOSE OF ANY INFORMATION SUPPLIED BY COMPANY TO TENDERER IN CONNECTION WITH THIS ITT. COMPANY WILL NOT BE LIABLE FOR ANY LOSSES, COSTS, DAMAGES, EXPENSES OR THIRD PARTY CLAIMS ARISING FROM OR IN RELATION TO THE USE OF THE INFORMATION BY TENDERER, EVEN IF NEGLIGENT.

(f) COMPANY will not be responsible or liable for any act or omission of COMPANY in relation to this TENDER, including any decision to:

(i) reject any or all proposals;

(ii) accept a TENDER (including a non-compliant TENDER) submitted by another TENDERER or a third party; or

(iii) procure the supply of the SCOPE, in whole or in part, from a third party, and TENDERER.

(g) COMPANY will not be responsible for any losses, costs, damages, expenses, CONSEQUENTIAL LOSSES and third party claims which TENDERER may sustain, incur or pay, or which may be brought against TENDERER.

(h) While performance of a portion of the SCOPE may be subcontracted by a successful TENDERER when approved by COMPANY, TENDERER may not subcontract or assign any of its rights to TENDER or its obligations under the ITT.

(i) TENDERER agrees to maintain confidentiality in regard to this ITT process and the contents of the ITT DOCUMENTS. TENDERER acknowledges that the terms of the confidentiality agreement entered into between TENDERER and COMPANY will apply to this ITT and all documents and information provided by COMPANY to TENDERER hereunder.

(j) TENDERER may not disclose the ITT or any correspondence with COMPANY to any subcontractors without COMPANY's consent. Where COMPANY consents to such disclosure, TENDERER agrees to bind the subcontractors to the same written obligations as those assumed in this ITT.

(k) By submitting a TENDER, TENDERER warrants that:

(i) as to any matter related to prices in the TENDER, they were arrived at independently, without consultation, communication, agreement or understanding with any other PERSON participating in the TENDER process or a third party for the purpose of restricting competition;

(ii) unless otherwise required by APPLICABLE LAWS, the quoted prices in the TENDER were not knowingly disclosed by TENDERER, directly or indirectly, to any other PERSON participating in the TENDER process or third party. TENDERER will keep the quoted prices confidential; and

(iii) no attempt has been made or will be made by TENDERER to induce any other person or firm to submit or not to submit a TENDER for the purpose of restricting competition.

(l) TENDERER may reproduce the ITT only to the extent required to enable TENDERER to respond to this ITT.

(m) All submitted TENDERS will be retained by COMPANY and will not be returned to TENDERER.

(n) TENDERER will not make any public announcements or news releases pertaining to the acceptance by COMPANY of its TENDER without the prior express written approval of COMPANY.

(o) Any conflict or inconsistency between this ITT and the provisions in this Section II will be resolved in favour this Section II.

2 COMPANY'S RIGHTS

(a) COMPANY, in its sole discretion, reserves the right to:

(i) accept a non-compliant TENDER notwithstanding any material or immaterial, defect, error, or deficiency in the TENDER;

(ii) not accept the lowest-cost compliant TENDER;

(iii) accept a TENDER submitted after the TENDER DEADLINE;

(iv) accept an ALTERNATE TENDER;

(v) accept a TENDER for the performance of all or a portion of the SCOPE;

(vi) enter into discussions or negotiations in respect of the SCOPE with one or more PERSONS participating in the TENDER process or third parties at any time;

(vii) enter into one or more CONTRACTS for the performance of SCOPE with one or more PERSONS or any third parties, upon the same or different terms and conditions as set forth in this ITT;

(viii) accept a TENDER subject to TENDERER entering into a subcontract with another PERSON participating in the TENDER process or a third party where COMPANY wishes to have a specific

portion of the SCOPE performed by such other PERSON or third party under the supervision and control of TENDERER;

(ix) request further information from or discuss with a TENDERER the terms of its TENDER for the purposes of clarification or appraisal of the TENDER;

(x) terminate this ITT at any time and without prior notice to TENDERER and procure all or any portion of the SCOPE from one or more of those PERSONS participating in the TENDER process or third parties of COMPANY's choice upon the same or different terms and conditions as set forth in this ITT; and

(xi) reject any or all TENDERS, even where such TENDERS are compliant with this ITT.

(b) COMPANY's rejection may be on its sole discretion without providing its reasons to TENDERER, or may be on specific grounds, including:

(i) TENDERER has not complied with the requirements set forth in this ITT;

(ii) there is a material or immaterial defect or error in the TENDER;

(iii) the TENDER is conditional, incomplete, irregular, unrealistic or otherwise deficient;

(iv) TENDERER does not have the capability to fully perform the SCOPE under the terms of the CONTRACT;

(v) the TENDER may give rise to adverse cost consequences to COMPANY;

(vi) the TENDER is not received by COMPANY by the TENDER DEADLINE.

(c) COMPANY may extend, but is not obliged to extend, the TENDER DEADLINE before or after the TENDER DEADLINE.

3 CLARIFICATION, EQUALITY OF INFORMATION AND ADDENDA

(a) TENDERER may seek clarification from COMPANY LEAD in order to complete the TENDER.

(i) Any questions or requests for clarification or information may only be submitted by e-mail.

(ii) COMPANY may disregard, and not acknowledge or respond to any telephone or verbal queries.

(iii) Any response by COMPANY will be in the form of a question and answer pair, which will be e-mailed to all suppliers participating in the TENDER concurrently, without revealing the identity of TENDERER responsible for the original question or clarification, in the form of an ADDENDUM to the ITT.

(b) Where TENDERER finds errors or omissions in any aspect of the ITT DOCUMENTS, such matters must be immediately submitted by e-mail to COMPANY LEAD. Where necessary, COMPANY will issue an ADDENDUM to address any material errors or omissions, or COMPANY may otherwise respond with any corrections to non-material errors or omissions to all TENDERERS concurrently via e-mail.

(c) Any request for clarification which is based on TENDERER's own development of innovative design/technical proposal will be treated as proprietary to that TENDERER and hence COMPANY's response to such will not be circulated to all other TENDERERS. TENDERER must notify COMPANY that its request for clarification is in relation to its submission of an ALTERNATIVE TENDER and that the clarification is proprietary in order to ensure confidentiality is maintained. COMPANY may determine that the request for clarification is not proprietary to TENDERER.

(d) Any requests for clarification must be received at least 10 day(s) before the TENDER DEADLINE.

(e) COMPANY may, for any reason, modify the ITT by an ADDENDUM prior to the TENDER DEADLINE.

(i) All ADDENDA to the ITT will be numbered sequentially and TENDERER must acknowledge receipt of all such ADDENDA to COMPANY LEAD by e-mail (or other required form of communication, if specified) immediately upon receipt.

(ii) Each ADDENDUM will be issued to each PERSON participating in the TENDER. If TENDERER has submitted its TENDER to COMPANY prior to the issuance of an ADDENDUM, TENDERER must re-submit its TENDER to COMPANY based upon the revised ITT.

(iii) COMPANY may, at its sole discretion, revise the TENDER DEADLINE as a result of such modification and resulting ADDENDUM. Except as COMPANY may revise the TENDER DEADLINE, no extension of time and date by which the TENDER must be submitted will be granted.

(iv) Matters raised in ADDENDA will be included in any resulting CONTRACT without the necessity of making any other adjustment to the ITT.

(f) The information contained in the ITT will be the basis for the TENDER and nothing will be deemed to change or supplement the ITT, except as noted below, in connection with the ADDENDA.

4 COMPANY'S CONFIDENTIALITY OBLIGATIONS

(a) COMPANY will not disclose or permit a disclosure to a third party of the TENDER.

(b) COMPANY may disclose the TENDER only to the extent of the following:

(i) Disclosure is expressly permitted under the ITT;

(ii) TENDERER has requested or consented in writing to the disclosure; or

(iii) Disclosure is necessary to review the TENDER and is made only to those in COMPANY GROUP who have agreed to be bound by any confidentiality provisions assumed by COMPANY.

(c) COMPANY will treat ALTERNATIVE TENDERS as confidential, only where marked as such. Where an ALTERNATIVE TENDER is not marked confidential, COMPANY is entitled to reissue an ITT based on the ALTERNATIVE TENDER without attribution to TENDERER.

5 PRIVACY OF PERSONAL DATA

(a) Information submitted as part of a TENDER may be distributed within COMPANY GROUP to:

(i) evaluate TENDERER's overall capabilities and capacity to perform the SCOPE; and

(ii) evaluate competence of TENDERER's proposed project leads.

(b) Where COMPANY receives PERSONAL DATA for the purposes noted above, or for other reasons, TENDERER will alert COMPANY to the fact it has supplied PERSONAL DATA. COMPANY will implement appropriate security measures to protect PERSONAL DATA against accidental or unlawful destruction or loss, alteration, unauthorised disclosure, or access (including remote access), and to protect it against all other forms of unlawful processing. TENDERER will not include PERSONAL DATA in the TENDER beyond what is strictly necessary for the evaluation of TENDERER and its project leads.

(c) Where it is necessary for COMPANY to provide PERSONAL DATA to TENDERER, then TENDERER will provide the safeguards described above. As a condition of award of any SCOPE that includes the processing of PERSONAL DATA, TENDERER will be required to enter into a data processing agreement in COMPANY's usual form.

6 GENERAL BUSINESS PRINCIPLES

(a) TENDERER acknowledges that it has actual knowledge of:

(i) the Shell General Business Principles, available at: www.shell.com/sgbp, and the Shell Supplier Principles, available at www.shell.com/suppliers; and

(ii) the Shell Global Helpline, available at: http://www.shell.com/home/content/aboutshell/who_we_are/our_values/compliance_helpline/.

(b) In connection with all activities associated with the ITT, TENDERER agrees that it will adhere to the principles contained in the Shell General Business Principles and Shell Supplier Principles (or where TENDERER has adopted equivalent principles, to those equivalent principles).

(c) TENDERER will notify COMPANY immediately if it becomes aware of any behaviour by TENDERER GROUP in relation to this TENDER which is, or may be, inconsistent with the Shell General Business Principles or the Shell Supplier Principles, where applicable, or where TENDERER has adopted equivalent principles, their equivalent. TENDERER will make use of the Shell Global Helpline to report any suspected violations of the above.

7 ANTI-BRIBERY AND CORRUPTION

(a) In connection with all activities associated with the ITT, TENDERER represents that:

(i) it is knowledgeable about ANTI-BRIBERY LAWS applicable to the TENDER and will comply with those laws; and

(ii) TENDERER has not made, offered, authorised, or accepted, and will not make, offer, authorise, or accept, any payment, gift, promise, or other advantage, whether directly or through any other PERSON, to or for the use or benefit of any GOVERNMENT OFFICIAL or any other PERSON where that payment, gift, promise, or other advantage would: (A) comprise a facilitation payment; or (B) violate the relevant ANTI-BRIBERY LAWS.

(b) TENDERER will immediately notify COMPANY if TENDERER receives or becomes aware of any request from a GOVERNMENT OFFICIAL or any other PERSON that is prohibited by the preceding paragraph.

(c) TENDERER agrees that in the event that it comes under investigation or is found by any authority or body to be in breach of (i) APPLICABLE LAWS; or (ii) ANTI-BRIBERY LAWS, after it has been awarded the CONTRACT by COMPANY, the COMPANY reserves the right to withdraw the CONTRACT award and decline to sign the CONTRACT with TENDERER.

SECTION III

FORMS APPLICABLE TO THE TENDER

1 FORM OF ACKNOWLEDGEMENT

THE TENDERER MAY E-MAIL A SIGNED PDF OF ITS ACKNOWLEDGMENT FORM TO COMPANY LEAD

RE: ACKNOWLEDGEMENT for TENDER NO. SBC-WE-002/207 for Provision of Land Unit Rig.

To: COMPANY LEAD

(a) We acknowledge receipt of the ITT and we agree to maintain confidentiality in regard to this ITT process and the contents of the ITT DOCUMENTS.

(b) We confirm that: (*Please ✓ in only one of the* ☐)

☐ We have received all the documents listed in the ITT Index without damage and in useable condition.

☐ The following listed ITT DOCUMENTS were not received and/or are damaged and unusable:

_____

_____

(c) We confirm that: (*Please ✓ in only one of the* ☐)

☐ We intend to submit a bona fide TENDER in accordance with the specified requirements of the ITT by the TENDER DEADLINE. We confirm our adherence to appropriate standards of business ethics and, in particular, we have established procedures to prevent the making, receiving, providing or offering of any payment, gift, promise, or other advantage which may violate ANTI-BRIBERY LAWS. Furthermore, we will comply with Shell's "Life Saving Rules", available at http://www.shell.com/global/environment-society/safety/culture.html and other safety rules when visiting any COMPANY GROUP premises.

☐ We do not wish to TENDER and therefore return all the ITT DOCUMENTS with this ACKNOWLEDGEMENT FORM.

(d) We confirm that: (*Please ✓ in only one of the* ☐)

☐ As of this date, we have no requirements to seek clarification of these ITT DOCUMENTS. We will request clarification as soon as the need arises.

☐ We require clarification of the following:

_____

_____

(e) We request that you send all future communications in respect of this ITT to:

Company Name:	
Mailing Address:	
Courier Address:	
Telephone Number:	
Fax Number:	

E-Mail Address:	
Contact Person:	

Yours truly,

[**INSERT NAME OF TENDERER]

Signed: _____

Name: _____

Title: _____

Date: _____

2 FORM OF TENDER

TENDERER NAME: [**Insert Tenderer Name]

Date: [**Insert date]

RE: FORM OF TENDER FOR A CONTRACT FOR TENDER NO. SBC-WE-002/2017 FOR PROVISION OF LAND UNIT RIG

To COMPANY LEAD:

In accordance with the above referenced TENDER, the undersigned, on behalf of the TENDERER confirms:

(a) We have examined your entire ITT package including its forms, and are providing all completed required forms, and where applicable, optional forms, all of which are listed below and in accordance with the requirements of your ITT we hereby offer to enter into a CONTRACT with COMPANY on the terms and conditions set out in the CONTRACT in accordance with the following:

Form of TENDER

Schedule of Prices

Qualifications to the CONTRACT

ALTERNATIVE TENDERS

Other Information Requested by COMPANY

(b) We are able to commence the SCOPE within [**days] working days of award of CONTRACT and to complete the SCOPE on or before the times stipulated in the CONTRACT.

(c) We agree that this TENDER constitutes a firm offer to COMPANY which CONTRACTOR will not withdraw after the TENDER DEADLINE, unless the CONTRACT is not signed by COMPANY within 90 days of the TENDER DEADLINE. The time for signing the CONTRACT may be extended by written agreement of COMPANY and CONTRACTOR.

(d) We agree that COMPANY is not obliged to review or accept any new deviations to the provisions of the ITT, including COMPANY's CONTRACT, raised by us after the submittal of this TENDER.

(e) We certify that we have:

(i) examined and are fully familiar with all of the provisions of the ITT;

(ii) carefully checked and confirmed as accurate all of the words and figures shown in the pricing in this TENDER;

(iii) carefully reviewed the accuracy of all statements in our TENDER; and

(iv) by careful examination of the ITT, satisfied ourselves as to the requirements of the ITT and all other matters which can in any way affect the supply of the SCOPE or the cost thereof.

(f) We hereby agree that COMPANY will not be responsible for any errors or omissions on our part in preparing this TENDER.

(g) We understand that COMPANY is not bound to accept the lowest-cost compliant or any TENDER, and COMPANY may not assign a reason for rejection of any TENDER.

(h) We agree that any costs incurred by us in the course of preparation of this TENDER are entirely of our own account.

(i) We accept that future unsolicited re-TENDERS of any kind may result in our disqualification.

(j) We confirm that all insurances required by us under the proposed contract are currently in force or will be provided in sufficient time to permit commencement of the CONTRACT.

(k) We confirm that we [**are/are not] a subsidiary of another company.

(l) We certify that this is a bona-fide TENDER, intended to be competitive, and that we have not fixed or adjusted the amount of the TENDER by or under or in accordance with any agreement or arrangement with any PERSON not directly involved with its preparation. We further certify that we have not performed, and will not:

(i) communicate to any PERSON the amount of the proposed TENDER except in confidence for obtaining insurance premium quotations in connection with the TENDER;

(ii) enter into any agreement or arrangement with any other person that either we will refrain from tendering or discuss the amount of any TENDER to be submitted; or

(iii) offer, pay or give or agree to pay or give any sum of money or valuable consideration to any PERSON for any act of the type described above.

(m) We agree that the COMPANY has the right, in its sole discretion, and at any time, to change the ITT, cancel, delay or otherwise not proceed to award the CONTRACT based on this ITT.

(n) We confirm actual knowledge of:

(i) the Shell General Business Principles, available at: www.shell.com/sgbp, and the Shell Supplier Principles, available at www.shell.com/suppliers; and

(ii) the Shell Global Helpline, available at: http://www.shell.com/home/content/aboutshell/who_we_are/our_values/compliance_helpline/

(o) In connection with all activities associated with the ITT, we agree to adhere to the principles contained in the Shell General Business Principles and Shell Supplier Principles (or where we have adopted equivalent principles, to those equivalent principles). We will notify COMPANY LEAD immediately if we become aware of any behaviour by TENDERER GROUP which is, or may be, inconsistent with the Shell General Business Principles or the Shell Supplier Principles, or where applicable, our equivalent principles.

[**INSERT NAME OF TENDERER]

Signed: _____

Name: _____

Title: _____

Date: _____

3 FORM FOR SCHEDULE OF PRICES

Please refer to SECTION III – Prices and Rates of the CONTRACT when completing this Schedule of Prices

All rates are expressed in US Dollars (US$).

Table 13.1: PROVISION OF DRILLING UNIT SERVICES			
Item	**Description**	**Unit**	**Drilling Rate**
A	**FIXED CHARGES**		
A.1	Mobilisation Fee to designated COMPANY WELL location including a 3 week Warm Up (Full Rig Up & Personnel Training) on a nearby designated COMPANY location (if required).	Lump Sum	$
A.2	Demobilisation Fee (to an agreed location inside the COUNTRY OF OPERATION)	Lump Sum	$
A.3	Demobilisation Fee (to an agreed location outside the COUNTRY OF OPERATION)	Lump Sum	$
B	**RIG DAYRATE CHARGES**		
B.1	Operating Rate	Day	$
B.2	Reduced Operating Rate	75%	$
B.3	Zero Rate	0%	$ Nil
B.4	Remedial Work Rate	65%	$
B.5	Mobilisation Rate	XX% / Day (if any)	$
B.6	Extended Stacking with Full Crew Rate	70%	$
B.7	Extended Stacking with Skeleton Crew Rate	50%	$
B.8	Force Majeure Rate	50%	$
C	**ACCOMMODATION & CATERING**		
C.1	All meals and accommodation per person per day for COMPANY and OTHER CONTRACTORS as specified in Article 7 (7.9)	Person / Day	$
C.2	Cost of single meal for day visitors	Per meal	$

TABLE 13 .1 (B) DRILLING UNIT AND CAMP MOVE RATES

LUMP SUM CHARGES	**US$ Lump Sum Drilling Unit Only**	**US$ Lump Sum Drilling Unit & Camp**
Move in block up to 10km		
Move in block up to 50km		
Move in block up to 100km		
Move in block up to 150km		
UNIT RATE SURCHARGES	**US$/km in excess of 150km**	**US$/km in excess of 150km**

LUMP SUM CHARGES	US$ Lump Sum Drilling Unit Only	US$ Lump Sum Drilling Unit & Camp
Moves in excess of 150km		

TABLE 13.1 (C) – Call-out equipment charges

The following charges are applicable only in respect of items which are additional to CONTRACTOR ITEMS provided with the DRILLING UNIT.

CALL-OUT CHARGES (additional day rate)	
Item	**Incremental Day Rate US$/day**
1000m of 4", 14lb/ft, S-135, XT-39 Drill pipe and Handling equipment	
30 joints of 4", 29.82 lb/ft, XT-39 Heavy Weight Drill pipe and Handling equipment	
20 joints of 4 ¾"OD x 2 ¼" ID Drill Collars w/NC-38 and Handling equipment	
1500m of 2 7/8", 6.4 lb/ft, N-80 Drill pipe and Handling equipment	
Additional Fluid storage tanks	
Additional Diesel storage tanks	
Additional VIP Cabin	
Bulldozer	
Camp add-on's	

TABLE 13.2 – CONTRACTOR personnel rate adjustments (IF/ WHEN APPLICABLE)

Table 13.2: CONTRACTOR PERSONNEL RATE ADJUSTMENTS if/when applicable				
ITEM	**JOB CLASSIFICATION**	**RATE**	**MOBILISATION LUMP SUM (see Article 6.2)**	**DEMOBILISATION LUMP SUM (see Article 6.2)**
A	**OFFICE BASED CONTRACTOR PERSONNEL**			
A.1	Local Base Manager	$	$	$
A.2	Rig Manager / Drilling Superintendent	$	$	$
A.3	Administrator	$	$	$
A.4	Materialsman	$	$	$
A.5	Receptionist	$	$	$
A.6	Senior Engineer	$	$	$
A.7	Staff Engineer	$	$	$
A.8	Project Manager	$	$	$
B	**RIG BASED CONTRACTOR PERSONNEL**			

Table 13.2: CONTRACTOR PERSONNEL RATE ADJUSTMENTS if/when applicable				
ITEM	**JOB CLASSIFICATION**	**RATE**	**MOBILISATION LUMP SUM (see Article 6.2)**	**DEMOBILISATION LUMP SUM (see Article 6.2)**
B.1	Toolpusher (days)	$	$	$
B.2	Toolpusher (nights)	$	$	$
B.3	Driller	$	$	$
B.4	Chief Mechanic	$	$	$
B.5	Mechanical Supervisor	$	$	$
B.6	Assistant Driller	$	$	$
B.7	Derrickman	$	$	$
B.8	Floorman	$	$	$
B.9	Roustabouts	$	$	$
B.10	Mechanic	$	$	$
B.11	Motorman	$	$	$
B.12	Electrician	$	$	$
B.13	Electrical Technicians	$	$	$
B.14	Mud Tester	$	$	$
B.15	Safety Co-ordinator (H_2S etc.)	$	$	$
B.16	Forklift Operator	$	$	$
B.17	Crane Operator	$	$	$
B.18	Welder	$	$	$
B.19	Radio Operator	$	$	$
B.20	Painter	$	$	$
B.21	Materials and Warehouseman	$	$	$
B.22	Medic	$	$	$
B.23	Catering Boss	$	$	$
B.24	Catering Staff	$	$	$
B.25	Camp security personnel	$	$	$

Note: Job Classifications and Titles will vary between Contracts and with drilling unit type. The above table is a guide only and Contractor should provide a list of his crew complement in any tender or rig negotiation

4 FORM FOR QUALIFICATIONS TO THE CONTRACT TEMPLATE

QUALIFICATION NO.	REFERENCE IN CONTRACT	TEXT OF TENDERER'S QUALIFICATION	REASON TENDERER HAS REQUESTED THE QUALIFICATION
1	[Tenderer to insert Section, Article and Clause number]	[Tenderer to insert text of Clause it wishes to change and indicate the change desired by using the 'track changes' function.]	
2			

The following table lists all the TENDERER's proposed qualifications to the CONTRACT.

5 FORM FOR ALTERNATIVE TENDERS

TENDERER'S PROPOSED ALTERNATIVES TO THE CONTRACT

			EFFECT ON TENDER IF ALTERNATIVE IS ACCEPTED	
REFERENCE IN CONTRACT	DESCRIPTION OF PROPOSED ALTERNATIVE INCLUDING SUGGESTED MODIFICATION TO CONTRACT DOCUMENTS	REASON FOR PROPOSING ALTERNATIVE	CONTRACT PRICE	TIME AND MANNER OF PERFORMANCE

6 FORM FOR CONFIDENTIALITY AGREEMENT

CONFIDENTIALITY AGREEMENT

AN AGREEMENT dated xxxxx, 201x (the Effective Date) between

SHELL Bolivia Corporation, Sucursal Bolivia, a company incorporated or organized under the laws of Republica Plurinacional de Bolivia having an office in Santa Cruz, Bolivia,

(hereinafter referred to as "COMPANY")

and

[INSERT FULL LEGAL NAME OF COMPANY]
a company incorporated in [Insert country of incorporation]
having an office at [Insert full company address]

(*hereinafter "RECIPIENT")*

RECITALS

1. RECIPIENT wishes to have access to certain information relating to the ITT SBC-WE-002/2017 for the supply of certain software, services and/or goods as described in the ITT which COMPANY considers confidential, proprietary and valuable; and
2. COMPANY is willing to disclose such information as COMPANY deems appropriate, and RECIPIENT is willing to receive such information, for the Purpose (as defined) on the following terms and conditions.

NOW THEREFORE IT IS AGREED AS FOLLOWS:

1. The following expressions shall have the meanings specified in this Clause.

(a) "Affiliate of SHELL"

means Royal Dutch Shell plc and any entity other than SHELL which is at the time in question directly or indirectly controlled by Royal Dutch Shell plc. For the purpose of this definition an entity (i) directly controls another entity if it owns fifty per cent (50%) or more of the ownership interest of, or of the voting rights in the other entity; and (ii) indirectly controls another entity if a series of entities can be specified, beginning with the first entity and ending with the other entity, so related that each entity of the series (except the ultimate controlling entity) is directly controlled by one or more of the entities earlier in the series;

(b) "the Purpose"

means the preparation and submission of the RECIPIENT's response or proposal to the ITT and the preparation and conclusion of a contract in relation thereto.

(c) "COMPANY Information"

means information relating to the requirement of software, goods and/or services under the ITT including any further information as COMPANY may consider useful and any general knowledge of the business plans and/or activities of COMPANY and/or any Affiliate of SHELL received or obtained by RECIPIENT either directly or indirectly from COMPANY and/or any Affiliate of SHELL. Furthermore, the expression "COMPANY Information" shall include the results, conclusions and findings of any evaluation or any other use by RECIPIENT of COMPANY Information.

(d) "Third Party" means any person or entity other than SHELL, COMPANY or any Affiliate of SHELL.

2. In consideration of the disclosure of COMPANY Information to RECIPIENT, RECIPIENT agrees:

(a) not to disclose any COMPANY Information to any Third Party, (including, for the avoidance of doubt, disclosure to shareholders, affiliates, subsidiaries, contractors and agents);

(b) not to use COMPANY Information except for the Purpose; and

(c) to establish and maintain reasonably effective security measures to prevent unauthorised access to, use, copying or disclosure of COMPANY Information.

The obligations in Clauses 2(a) and 2(b) include the obligation not to include COMPANY Information in any patent application and not to disclose COMPANY Information to any patent office.

3. RECIPIENT may disclose such COMPANY Information as is reasonably necessary to carry out the Purpose to those employees of RECIPIENT who before the date of disclosure (i) have been informed of the confidential nature of the COMPANY Information in question; and (ii) are bound by written obligations no less stringent than those assumed by RECIPIENT under this Agreement.

4. The provisions of Clause 2 above shall not apply to any COMPANY Information which, at the time it is received or obtained by RECIPIENT,

(a) is lawfully known to RECIPIENT without binder of secrecy; or

(b) is publicly available

and shall cease to apply to any COMPANY Information which, after it is received or obtained by RECIPIENT,

(c) is received or obtained by RECIPIENT without restriction on disclosure from a source free to disclose it other than COMPANY or an agent or Affiliate of SHELL; or

(d) becomes publicly available through no act or omission on the part of RECIPIENT.

The foregoing exceptions shall only be effective to the extent that RECIPIENT can prove the facts.

5. Specific disclosures made hereunder shall not be deemed to be subject to any of the above exceptions merely because they are embraced by general disclosures in the public knowledge or literature or in the possession of RECIPIENT, and any combination of features disclosed hereunder shall not be deemed subject to the above exceptions merely because individual features are in the public knowledge or literature or in the possession of RECIPIENT but only if the combination itself is publicly available or lawfully known to RECIPIENT without binder of secrecy

6. RECIPIENT shall have the right, to the extent necessary to carry out the Purpose,

(a) to make copies of COMPANY Information; and

(b) to use, reproduce, transform or store any COMPANY Information in a computer or electronic information retrieval system under control by RECIPIENT.

7. If RECIPIENT receives a subpoena, order, notice or other legal process seeking disclosure of COMPANY Information, RECIPIENT shall immediately notify COMPANY in order to allow COMPANY the opportunity to oppose the order, notice or process, or seek a protective order. If requested by COMPANY, RECIPIENT shall co-operate fully with COMPANY in contesting such disclosure. Except as such demand shall have been limited, quashed or extended, RECIPIENT may thereafter comply with such demand, but only to the extent required by law. Where a protective order is obtained by COMPANY, nothing in this Agreement shall be construed to authorise RECIPIENT to use in any manner or disclose COMPANY Information to Third Parties other than such governmental or judicial agency or body or beyond the scope of the protective order.

8. At the request and option of COMPANY, RECIPIENT shall

(a) either destroy or return promptly to COMPANY, or its nominee, all tangible records containing COMPANY Information and excerpts and portions thereof and other information derived from COMPANY Information, which are in the possession of RECIPIENT; and

(b) remove all COMPANY Information and excepts and portions thereof (including any backup copies) from any computer and/or other electronic storage system and in such case RECIPIENT shall, if so requested by COMPANY, provide independent auditor's confirmation of completion of such removal.

9. Nothing in this Agreement shall be construed as granting RECIPIENT a licence under intellectual property rights of COMPANY or an Affiliate of COMPANY, or any rights in respect of COMPANY Information other than those specifically set out herein. Furthermore, RECIPIENT shall have no right to make any changes, modifications or enhancements to COMPANY Information, or to create any derivative work from such COMPANY Information.

10. COMPANY shall not be liable in negligence or otherwise for any loss, damage, cost and expenses arising from or in connection with the use made by RECIPIENT of any COMPANY Information or any allegation that such use infringes any Third Party intellectual property right or otherwise. RECIPIENT shall indemnify COMPANY against any Third Party claim for loss or damage (including personal injury or death) arising from or in connection with RECIPIENT's use of any COMPANY Information.

11. RECIPIENT hereby certifies that in exercising its rights and in carrying out its obligations under this Agreement, it shall comply with all applicable governmental laws, regulations, decrees and orders governing the export and re-export of goods, technology, software and/or services, including, without limitation, the U.S. Export Administration Regulations administered by the U.S. Department of Commerce, the U.S. trade sanctions legislation administered by the U.S. Department of the Treasury and European Council Regulation 428/2009 and any amendments thereto. This clause shall survive the termination or expiry of this Agreement.

12. COMPANY makes no representation and extends no warranty, express or implied, and assumes no responsibilities whatsoever with respect to the completeness, utility or accuracy of any COMPANY Information; merchantability or fitness for a particular purpose; or the freedom from infringement of any Third Party intellectual property rights by RECIPIENT's use of COMPANY Information.

13. RECIPIENT shall not assign any of its rights or obligations arising from this Agreement without the prior written consent of COMPANY.

14. This Agreement shall be effective from the Effective Date.

AS WITNESS WHEREOF, the Parties have caused this Agreement to be executed in duplicate original at the places and on the dates indicated below.

Shell Bolivia Corporation, Sucursal Bolivia

Signed by: ----------

Name: ----------

Title: ----------

Date: ----------

[INSERT FULL LEGAL NAME OF COMPANY]

Signed by: ----------

Name: ----------

Title: ----------

Date: ----------

7 TECHNICAL QUESTIONNAIRE

CONTRACTOR has to supply all the answers to the following questionnaire as part of the Rig offer:

1. Please state the expected location of the proposed unit prior to mobilization to Southern Bolivia, the expected mode and duration of mobilization time. Similarly, please provide the expected demobilization destination, and mode and duration of demob.

2. Please provide details of scope and duration of any current or planned upgrade, repair or modification activities to your proposed unit in order to fulfil the required Scope of Work.

3. Please provide the names and contact information for the last 5 operators the rig has worked for.

4. Please provide information about recent involvement in similar projects (if any)

5. Please provide details of rig up/ rig down plans and requirements including any items contractor expect company to be responsible for.

6. Please provide details of pumping capacities for pumps, including rates, pressures, liner sizes and proven field data.

7. Please provide the organization charts for:

    a. The Head Office Corporate Structure
    b. The current/proposed local Bolivia-based management
    c. The current/proposed Unit(s)

8. Please provide the CV's of the following rig crew personnel for the proposed unit(s): Onshore Rig Manager; Senior Toolpusher; Toolpusher; Rig Mechanic; Drillers.

9. Please confirm whether or not you intend to register a local entity in Bolivia or already have a registered entity in Bolivia.

10. How do you intend on supporting the operations locally in Bolivia? Provide the proposed organisational structure for local support.

11. How do you propose on utilizing local labour from within Bolivia so as to ensure that there is local content within your workforce? How do you propose to engage the local labour pool / companies?

12. Please describe the Supply Chain process for the proposed unit(s), from the ordering of supplies through the proposed unit(s) receiving the supplies.

13. What critical spares do you plan on having in Bolivia for the project(s)?

14. How do you measure and monitor the proposed unit(s)'s performance (downtime, flat times, trip times, HSE, etc.)?

15. How is the proposed unit(s) performance data used to improve operations?

16. How do you help the operator achieve his key performance indicators (ft/day, %NPT, LTI's, spills etc) for drilling performance?

17. How does the corporate office monitor the proposed unit(s) performance?

18. What pro-active processes do the corporate offices exercise to improve proposed unit(s) operation performance?

APPENDIX 1 TO TECHNICAL QUESTIONNAIRE – CONTRACTOR EQUIPMENT LISTING

RIG EQUIPMENT LIST

Sub-section	Equipment Description
1	GENERAL
2	HIGH PRESSURE MUD SYSTEM
3	LOW PRESSURE MUD SYSTEM
4	BLOW OUT PREVENTION EQUIPMENT
5	INSTRUMENTS
6	DRILL STRING
7	HANDLING TOOLS
8	CASING EQUIPMENT
9	FISHING EQUIPMENT
10	TRANSPORT AND LIFTING EQUIPMENT
11	ACCOMMODATION
12	FIRE FIGHTING EQUIPMENT
13	MISCELLANEOUS EQUIPMENT
14	CALL OUT EQUIPMENT

1 GENERAL

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
1.0.0 Safety Zones	All equipment shall be certified to be used in accordance with safety zones defined in API 500 Recommended Practice for Classification of Locations for Electrical Installations at Petroleum Facilities Classified as Class I, Division 1 and Division 2 or API 505 Recommended Practice for Classification of Locations for Electrical Installations at Petroleum Facilities Classified as Class I, Zone O, Zone 1, and Zone 2. All windows on the rig site must be fitted with safety glass.	
1.0.1 Illumination	The rig location shall be provided with illumination with a strength of 300 lux in all working areas and 200 lux in all storage areas. Lighting (permanent or temporary) must be sufficient to allow rigging up and down at night.	
1.0.2 Handrails	All working areas more than 1.8m above ground level to have rigid handrails and kicker plates. All handrails to be 1.2 m high, fitted with 2 rails and a kicking board. Handrails and all floor penetrations on the drillfloor should be plated in where a risk of falling tools exists.	
1.1 Rig Unit	The entire drilling package must be designed to achieve a minimum number of loads, minimum flat rig move time. Lay out such that items of rig equipment can be moved in/out in any sequence. Nothing should have to wait on the placement of other items.	
1.2 Mast.	Mast clear height should be enough for safely tripping and racking triples of range 2 drillpipe, with the contractor provided top drive. Dynamic derrick load capacity 1.4 mln lbs.(w/ maximum of 12 lines string up) and simultaneous 500,000 lb. setback. All welded type mast. Mast specification as per API Spec 4F and fitted with:	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	a) Racking platform, fitted with belly belt and 'fall arrestor', and with locks on fingers, able to accommodate minimum of 5000m 5-7/8" drill pipe, 8 stands 8 " drill collar, 4 stands 9 1/2" drill collar.	
	b) Airwinch or other system at racking platform level to aid the racking of drill collars up to 9 1/2".	
	c) Adjustable casing stabbing board for range 2& 3 tubulars, hydraulic or airpowered, certified by the same certifying authority as used for the mast, incl. certified safety stops. The stabbing board should be certified as a man riding device. The stabbing board should be fitted with a belly belt and "fall arrestor".	
	d) Ladders with safety cages and rest platforms. Two climbing safety devices available for derrickman.	
	e) Four counterbalance systems; two for the rotary tongs and one each for the pipe spinning tong and inside BOP.	
	f) A certified derrickman escape line - Stop Chute system or equivalent.	
	g) Fast line guide for drilling line.	
	h) Dead line guide for drilling line	
1.3 Substructure	One set of mast substructures with flooring having sufficient clear height to permit easy installation of CONTRACTOR furnished BOP stacks and COMPANY furnished wellhead equipment with sufficient room for installation of emergency hangers. Minimum clear height below the rotary beams is 35ft.	
	Substructure footprint should be capable of straddling a standard COMPANY-designed cellar of 8.5m long by 3.5m width Rig must back-up facing the long dimension of the cellar. Substructure design should be such that it does not interfere with the installation/operation of the BOP when the BOP is set at the standard height.	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	a) Set back capacity of substructure 500,000lb simultaneous with a 1,100,000lb rotary table load. Setback trays must be provided to collect and control mud draining from setback tubular.	
	b) BOP trolley to be provided for safe handling of complete Contractor provided BOP stacks. Trolley beams and hoisting equipment to be certified.	
	c) Provision for single hole (mouse hole). The single hole to be equipped with mud collection system, routed to the cellar.	
	d) Use of a "Drip Pan" covering the entire drill floor area to prevent spillage of drilling mud and other fluids into the sub base area. "Drip Pan" design to be such as to allow fast rig up/down.	
	e) Non slip matting covering those areas of the floor where personnel are required to stand when handling pipe.	
	f) Inertia reel fall protection should be provided from at least three points in the substructure.	
1.4 Kelly Scabbard and Single Hole	a) Kelly scabbard compatible with fully assembled 4 1/4"kelly and fully assembled 5 1/4"kelly	N/A
	b) Single hole, nominal 9 5/8, c/w shock absorber	
1.5 Drawworks	One electric drawworks, rated for 3000 HP input power, driven by adequate electric motors power. Air intakes for motors to be outside zone 2 area. All brake and clutch linings to be asbestos free. Disk brakes preferred. Drawworks c/w:	
	a) make-up and break-out cat heads.	
	b) electric auxiliary brake.	
	c) crown block safety device (adjustable Crown-o-matic type preferred).	
	d) grooving on main drum for drilling line.	
	e) Independent fresh water cooling system for drawworks and electric brake. Brake cooling water supply to be fitted with audio-visual pressure, flow and temperature alarms that can be seen and heard from the Driller's console.	

		COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
		Drillers position to have a protective cage / cabin providing protection from falling objects, the sun and rain. The cage / cabin should provide protection for instruments and SCR controls, maintaining unrestricted view of drillfloor, V-door and monkey board.	
1.6	Crown Block	Crown block to be rated for the static hookload capacity with all sheaves grooved for drilling line with 7 x 60" sheaves grooved for drilling line. Fitted with jumper bars such that no section of more than 100 deg of arc is unprotected.	
1.7	Travelling Block & Hook	One travelling block-hook combination, 650 tons (imperial) capacity with adequate number of sheaves grooved for drilling line, c/w: a) Spring assembly, b) Hook locking device.	
1.8	Swivel.	One swivel with 350 tons (imperial) capacity, 10,000 psi WP, c/w: a) Gooseneck and washpipe minimum ID 3"; b) 6 5/8" regular left hand pin connection; c) Wearsub for kelly spinner; N/A d) Access for wireline entry on top of gooseneck, minimum ID 2 1/2"; e) NO threaded connections; f) Seals to be suitable for WBM and OBM.	
	Top Drive	Top Drive rating of 650 Ton (imperial) ratings, electric driven Max continuous torque output 36,000 lbs-ft. Specify all details of Top Drive and VFD. Seals to be suitable for WBM and OBM and required Temperature.	
1.9	Drilling line.	One drilling line 6 x19 improved plow steel with independent wire rope core of at least 2300m length. Specify all details of drilling line.	
1.10	Deadline anchor.	One dead line anchor for drilling line c/w a weight sensor. The deadline anchor must be easily accessible for slipping and cutting operations.	
1.11	Rotary table.	One rotary table with a minimum opening of 37 1/2", capable of handling 9 1/2" drill collars c/w:	
		a) Dead load capacity of 500 tons (imperial) minimum	
		b) Pin type kelly drive bushing N/A	
		c) Rotary kelly bushing and master bushing locks to allow backreaming.	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	d) Kelly bushing cover	
	e) Capable to freely rotate and to be lockable in both directions.	
	f) Driven by a minimum 750 HP electric motor (independent of drawworks). Air intakes for motor to be outside zone 2 area. Two speed gearbox.	
	g) The rotary drive to be fitted with an independent hydraulic or air operated brake.	
	h) Clear height below of the rotary beam of 35 ft	
1.12 Auxiliary Winches	Three drill floor mounted airwinches. Two with minimum capacity of 10000 lb. Plus one certified manriding airwinch. Mounting brackets and bolts to be certified.	
	Air winches should be fitted with tail chains and bearing type barrel swivels.	
	All pad eyes, snatch blocks and lines used for air winches must exceed the maximum capacity of air winches.	
1.13 Pipe racks.	Set of pipe racks c/w catwalk and walkways with adequate capacity for 4000m of 13 5/8"-88.2 lb./ft. Casing. Specify if automated catwalk and provide details	
1.14 Rig service air system.	The rig air system should have compressors c/w dryers of sufficient capacity to operate e.g. the rig floor air winch and the drillpipe spinner continuously, whilst maintaining 120 psi minimum for other controls.	
1.15 Rig Power plant.	All electrical equipment to be installed and operated in accordance with COMPANY standard.	
	All electrical switches to be clearly labelled with functions, and be appropriate for external use and in accordance with I.P. code classification and provided with lock out.	
	All engines capable of operating continuously at ambient temperatures.	
	All surface cables must be protected from UV light and oil based mud, and be adequately supported by cable trays. All underground cables and piping to be protected by steel cowling.	
	Complete power system comprising of diesel driven generator sets supplying DC and AC power	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	(or alternatively using a SCR system).	
	Alternatives to diesel driven sets may be acceptable to COMPANY. All engines to be fitted with clearly marked ESD switches. Power system c/w:	
	a) In the drilling mode sufficient power must be available to control and power simultaneously the mud pumps and rotary table both at full load and the drawworks at half load with one diesel generator as standby.	
	b) AC generator sets of 500 to 1400 kW according to size of the unit. One generator set shall be capable of taking the peak demand, with a second as a 100% standby.	
	c) AC power for the camp to be furnished by separate generators at the campsite.	
	d) Separate (small) generator to provide temporary power to well site offices during rig moves.	
	e) Emergency shutdown switches for the complete power system (AC and DC) must be provided at the driller's position and individual stop at generator (air intake shut off valves).	
	f) Provision for power supply for a mud logging unit with a typical power requirement of 440 or 380 volt line to line 3 phase 50 or 60 Hz 15 kVa.	
	g) Diesel engine plant must be equipped with dust filters, spark arrestors, Rig -savers and mufflers. Air intake shut off valves should operate either from the driller's console and from the power plant.	
	h) Provide additional power for driving centrifugal pumps, which might be used with an additional mudstorage system.	
	i) Provide power supply to drive Company water well pump (including sufficient power cable).	
	CONTRACTOR to supply calculations demonstrating that power plant is suitable for maximum operating conditions and specifying limitations.	
	Emissions to be in accordance to Bolivian law requirements. Provide emission table.	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
1.16 Emergency power	Sufficient battery powered emergency lamps for strategic points at rig (e.g. muster points) to allow escape in the event of a total black out.	
	All battery powered torches / lamps to be explosion proof.	
1.17 Power Consumption Meters	kWh meter for each generator. Permanently installed and with manufacturers seal intact. 2% tolerance.	
1.18 Communications system	A communication system between drill floor, toolpusher office, mud tanks, COMPANY office, mudlogging unit, mud engineer office, radioroom and the portable unit.	
	The system should consist of handsets with a push to talk PA address after which communication is limited to those picking up handsets.	
	The PA system should be audible all over the rig including all offices and the mud-logging unit with the exception of the generators.	
	The portable unit should be fitted with approximately 40m of cable. The portable unit should be c/w a headset allowing the unit to be used hands free and in a high noise area (e.g. cementing unit).	
	Hand sets should be in all offices, the mud logging unit, drillfloor, mud tanks, shakers, mud pumps, SCR room, Choke manifold, sub-base and adjacent to the cementing unit. A switchable hands free system should be installed at the monkey board.	
	A means of communication between rig site and camp (minimum single line of voice comms between e.g. radio op and senior galley).	
	Independent (battery) power supply to ensure operation of the communication/PA system for at least 12 hrs, during a "black-out" situation.	
1.19 Z-Torque Rotary System	Z-Torque system from a vendor that is an official COMPANY Licensee holder of the technology. The system has to be shown to meet the commissioning criteria as per COMPANY commissioning procedures.	
1.20 Drilling unit Age	Overall drilling unit age	

2 HIGH PRESSURE MUD SYSTEM.

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
2.0 General	All components of the high pressure mud system must have a working pressure of at least 5000 psi and a test pressure of 6500 psi and be designed and constructed in accordance with ANSI B31.3, API 1104, ASME IX or equivalent standards. The High Pressure mud system must be capable to operate at a WP of 5000 psi for long sustained periods. All connections must be welded.	
	All components of the high pressure mud system to be compatible with the use of OIL BASED MUD.	
	All HP pipework from mudpumps to swivel to have a minimum id of 4", and test pressure of 1.5 times the working pressure.	
2.1 Pumps.	Three mud pumps, each mud pump equipped with an independently driven centrifugal charging pump. Each pump driven by electric motors with adequate power. Air intakes for all motors to be outside zone 2 area. Minimum pump power rating 1600 HP. Closed loop cooling system for both pumps and power train. Total pump capacity to be sufficient to allow desired flowrate at working pressure to be achieved with one pump spare. Seals to be suitable for WBM and OBM.	
2.2 Pump discharge lines	Two 4" ID 5000 psi WP mud pump discharge lines with 4" 5000 psi mud valves. All flexible hoses to be equipped with minimum 5/8" snubbing lines and c/w integral couplings. Separate line from each mud pump to the H-manifold. Flexible hoses mus be designed for WBM and OBM.	
2.3 Standpipe.	Two 4" ID standpipes with goosenecks connected to an H-type standpipe manifold. All connections must be fig 1002 Weco unions (or equivalent accepted in advance by COMPANY).	
	Solid block instrumentation header to provide three (3) offtake points for sensors on each side of the H-manifold.	
	Standpipe manifold c/w:	
	a) Pressure gauges and sensors for instrumentation and recorders as per items	

		COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
		5.1, 5.3 and 5.4.	
		b) Kill line outlet.	
		c) Fill-up/bleed-off line outlet.	
		d) Two 2" outlets complete with hammer lug wing union connections (fig 1502).	
		e) NO threaded connections allowed.	
		f) Manifold to have an offtake point for a chicksan at drillfloor level in addition to the kill line and cellar line. This should be on the opposite side of the H-manifold from the main kelly hose.	
		g) Standpipe manifold and pipework must allow pumping through the drillpipe with one pump and the annulus with the other pumps (all pumps at maximum output).	
		h) Fitted with an outlet for MWD instrumentation and complete with a 2" gate valve.	
		i) utility standpipe, 2" ID (min) with gooseneck, connected to standpipe manifold, constructed without threaded connections and designed for 5000 psi working pressure, have sufficient height to enable reciprocation of casing string while cementing.	
2.4	Rotary hose.	Two 3 1/2" ID 5000 psi WP, 6500psi TP rotary hoses complete with minimum 5/8" snubbing lines. Both hoses c/w integral connections (no LP threaded connections). One hose fitted in the derrick and one (new) hose spare on site.	
2.5	Casing fill-up system	A 4" casing fill-up system, c/w strainer, connected to the low pressure system, fed by one of the centrifugal pumps.	
2.6	Chicksan / Temporary Pipe Work steel hoses.	a) At least 60 ft of 2" nominal FMC chiksan steel consisting of 6 ft to 10 ft straight sections with forged or welded ends only. b) At least 8 FMC chiksan style 50 HPTL 2" nominal sweep swivels. c) A minimum of 5 lo-torque valves suitable for Fig 1502 chicksan. d) A fixed 2" HP cement line, 10000 psi working pressure, fitted with Fig 1502 connections, running up to the drillfloor.	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	Straight and swivel sections to be fitted with Weco fig 1502 hammer lug wing unions. The chicksans should be fitted with snubbing line loops to speed up the hook-up and tear down of chicksan runs.	

3 LOW PRESSURE MUD SYSTEM

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	All mud, reserve and water tanks to be either trailer or skid mounted to maximise rig moving speed.	
	All components of the low pressure mud system to be compatible with the use of OIL BASED MUD.	
3.1 Mud tank system (suitable for OBM and WBM)	a) At least three main mud tanks with a total minimum capacity of 1500 bbls. Paddle agitators should be both sufficient in number and power rating fitted in all active and reserve tanks (excluding the sand trap and degasser settling tank) to maintain a mud of 17.5ppg in suspension. Mud agitator blades shall be angled, sized and powered in accordance with OEM specifications for the size of tanks. All agitators capable of being independently electrically isolated.	
	Tanks to be shaped to match properly sized agitators (minimise dead areas). Suction manifolding at lowest point in tank. Must be able to pump from all active and pill tanks from either mud pump. Tank system drawing to be available containing inventory of all valves inside the system.	
	Active tanks dimensioned to give at least 10cm level change for 6 bbls volume change.	
	All tanks to be provided with dump valves and sloping bottoms which permit complete emptying of the tank to the waste pit. Minimum human intervention in cleaning the tanks required. All dump valves have the provision to be locked when using Oil Based Mud.	
	All handles on the mud tanks must be clearly labelled with function and position. As-built isometric pipework schematics must be placed	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	on all mud tanks.	
	b) One settling tank of 100 bbls capacity with sloping bottom and one quick acting dump valve.	
	c) Two pill tanks of 50 bbls capacity. Zero dead volume.	
	d) Trip tank minimum volume 50 bbls c/w centrifugal pump, an alarm and strip chart recorder. Tank dimensioned such that a level change of at least 2" equals a stand of 5" drill pipe. Specify if two trip tanks are offered	
	e) One separate stripping-in tank c/w equalising facility with trip tank, set up as per EP2000-1500. And as per "Pressure Control Manual for Drilling, Completion and Intervention Operations_WS 38.80.31.32" (Section 6.9.4)	
	f) One chemical mixing tank of 150 bbls fitted with an agitator.	
	g) Reserve mud tanks, each fitted with agitators and with 1000 bbls total capacity.	
	h) Two drill water tanks of at least 500 bbls capacity each.	
	i) HP shearing device for polymer shearing / yielding.	
	k) Mud tanks to be capable of handling fluids of 17.5ppg weight. Manifolding must allow line up of one pump to the drillstring, the other to the annulus.	
	l) Mud tanks fitted with both LP and HP mud guns for rapid turnover / shearing of drilling fluids.	
	m) a high pressure shearing line shall be installed from one of the mud pumps, the discharge being routed via a common line directly into the main active and reserve mud tanks.	
	n) Isolation valves shall be installed so as to be able to select one or both the specified tanks for mixing.	
	o) the system shall be set up such that it is possible to shear mud with one pump whilst pumping down hole with the other.	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	p) shearing devices shall be provided on each discharge outlet.	
	q) all tanks (incl. reserve tanks) should have the possibility to be connected and disconnected to / from the active mud system by flowlines and valves.	
	r) both mud and mixing pump suctions must be capable of sucking from either compartment of suction tank and all reserve tanks. Mud pumps must be capable of sucking from all reserve tanks.	
	s) mixing of chemicals in two reserve tanks simultaneously is required. Line diagram of the HP/LP mud system showing tanks, mixing facilities and various treating systems to be submitted.	
	t) tanks should be connected/manifolded to a tanker loading / offloading and general transfer pump. Included in the system should be a tanker loading point (gallows style).	
	u) must be possible to mix in part of the reserve tank system whilst simultaneously transferring mud from elsewhere in the reserve system into the active system.	
	v) all tanks must be covered by well secured grating and equipped with railings, handrails and stairways, properly secured and in good condition. Gratings must be secured such that it is not possible for misalignment to allow grating to tip up.	
3.2 Mud mixing system.	Complete mud mixing system comprising two hoppers and two centrifugal pumps. System to be able to treat mud in the active system together with mixing a pill or reserve mud whilst not interfering with the mud pump and charging pump operation. Piping should be at least 6". Pump output 1200-1800 gpm at 60 - 40 psi. Contractor shall provide data on mixing speed.	
	All mud pumping / transfer pumps to be fitted (as a minimum) with oil based mud resistant seals (mechanical seals preferred). Specify the temperature rating of seals.	
	One of the mixing hoppers should be fitted with a big bag feed bin above it.	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	Suitably certified big bag lifting device to be provided.	
	Chemical mixing / addition drums must be provided to safely add powdered / pelleted caustic soda, lime and soda ash to the mud system.	
	Emergency showers and eye wash stations must be installed (as a minimum) at all mixing areas, near the shakers and on the drillfloor.	
	These must be designed to recirculate water to prevent extreme water temperatures in the system during the summer and freezing in the winter.	
3.3 Shakers	Minimum 4 Shakers. They will have a minimum fluid capacity throughput of 500 gpm (1900 l/m) capable of heavy mud weights (17.5ppg). Shakers should be compact, have a small footprint and have screens that are easily changed out using an air actuated screen retention system. Screen change outs must be accomplished within the time it takes to make a connection i.e. from pumps off to pumps on - < 5 minutes. The deck angles need to be adjustable to produce an optimum fluid cut point. To handle additional flow, the shakers need to be equipped with an on-demand G force boost that temporarily increases the G force. The number of shakers will be dictated by the expected drilling activities and the services and flexibility required. Depending on the services required the bank of shakers may be used in parallel or in series and the pipe work must be installed to enable this functionality. The functionality of the shaker package must be such to allow LCM recovery – especially in wellbore strengthening activities. Contractor will provide a SCE (Solid Control Equipment) Installation Plan, OEM recommendations should be considered when installing and operating the shakers, COMPANY will approve such plan prior to installation.	
	The header boxes shall have dump chutes to the waste pit, to enable clearing of cuttings at high ROP's.	
3.4 Screens	Minimum Stock of screens provided by CONTRACTOR to be approved by COMPANY. Ap to certain API size specified by COMPANY.	

		COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
		Use screens ONLY recommended by OEM unless approved by COMPANY. And in accordance with API RP 13C.	
3.5	Hydro cyclone equipment. generally	Sufficient centrifugal pump capacity should be provided to deliver the required flow capacity to all items of hydrocyclone equipment at the hydrostatic head requirements specified by the individual equipment manufacturers. Feed and discharge lines shall be designed such that restrictions are minimised. Centrifugal feed pumps should be singular in purpose other than for the degasser which should be arranged so that it may be operated by another pump in the solids control or mud mixing system. The mud pump charging pumps should be backed up by the mud mixing pumps.	
3.6	Desander	Sized to process 100% of mud returns at maximum flowrate with either 2x12" cones or 3x 10' cones. Feed from a 6x8 centrifugal pump to produce adequate pressure, fed from the settling tank downstream of the sandtrap. Underflow to waste pit, overflow to the next downstream compartment. Capable of handling 100% of max circ rate.	
3.7	Mud cleaner	Adequate mud cleaner with 16 x 4" cones, circular manifold and electrically driven centrifugal pump (also for heavy muds).	
		Capable of handling 100% of max. circ. rate. Cone underflow (solids or liquids) may be taken as suction to a centrifuge. Inlet pipework to have a clear straight run of at least 1m before inlet manifold of mud cleaner. Discharge into next compartment downstream of suction tank. Only screens manufactured or approved by the mud cleaner manufacturer to be used.	
		CONTRACTOR shall maintain a minimum spare stock of two (2) full sets of "NEW" screens per mud cleaner in the following sizes: 150, 200, 250.	
3.8	Degasser.	Sized to process up to 50% of maximum flow rate. (fitted with vacuum pump). Pump suction from degasser tank, receiving degassed mud.	
		Liquids from the degasser shall discharge into a treatment tank which shall be equipped with an adjustable high level equalisation valve to the degasser tank.	

		COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
		Gas shall have a vented system, (min. distance from the rig 30 meters) via a dedicated line with no cut off or isolation valves and shall be routed so as to avoid any bends.	
3.9	Mud-gas separator (poor-boy degasser).	One mud gas separator in accordance with COMPANY'S Pressure Control Manual WS 38.80.31.32-Gen. Minimum specifications are: Vessel body = ID: 49 inch, liquid seal height: 10 ft (minimum), Vent line diameter: min 8 inch, Pressure rating: 150 psi, Temperature rating: -45 deg C, Piping to be such that the degasser can be bypassed. Discharge into the shaker header tank with bypass option. Mud hot injection system to ensure liquid seal height is maintained during well control operations. A low-pressure 15-psi or 35-psi gauge shall be fitted to the base of the line from the choke manifold. Temperature gauge shall be fitted on the Mud Gas separator. A 15-psi or 35-psi pressure gauge shall be fitted on the bottom of the U-tube to monitor the liquid seal height. The gauge readings should be easily visible for monitoring the proper operation of the MGS. Vent line to be routed to the top of the derrick or run across the location to the waste pit or other safe vent area without becoming a trip hazard or otherwise restrict the location work area. A gas detector / analyser to be installed in the vent line. Minimum Gas Handling capacity of 15 MMScf/d.	
3.10	Cellar jet/sump pump.	a) One cellar jet powered by mud pump. Cellar jet should be capable of operating at the same time as pumping down the drillstring. The option should exist to take returns either into the shaker header tank or into the waste pit. Alternatively provide b) Sufficient air operated sump pumps. c) Two pumps for cellar cleaning whilst drilling top-hole.	
3.11	Mud saver bucket.	Mud saver bucket for 4" and 5-1/2" or 5 7/8" drill pipe. Return of mud bucket to be routed to the trip tank.	
3.12	Mud centrifuge	Centrifuges will be provided by 3rd party SCE contractor; however, COMPANY will agree the type, make, lay-out and centrifuge operations mode. To be efficient the centrifuges must have high throughputs, ideally 2 m^3/min, with a large	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	bowl length and diameter, for extended retention time, generating a high torque to enable effective separation and solids removal.	
	CONTRACTOR to ensure adequate space, pipe, and power connection and supply are provided for the installation of the centrifuge.	
3.13 Ditch magnet.	Two ditch magnets mounted horizontally at shaker box overflow, c/w suitable handling device / mechanism. Provide detailed specifications of Ditch magnets.	
3.14 Mud testing equipment.	Set of mud testing equipment including 1 pressurised 'tru- wate' mud balance, 1 API mud balance, 1 marsh funnel.	
3.15 Fluid transfer system	a) 1 drilling fluid loading hose with 4" connections at either end, ca 30 metres long and of 4 inches diameter.	
	b) One Drilling fluid transfer pump.	
	c) Dedicated cement mixwater supply line, capable of delivering mixwater to the cement unit at 10 bbl/min.	
3.16 Drill water pumping system	Waterpump c/w piping, power supply, floating device to pump water from the water pit to the rig tanks.	
	Overhead loading point to allow water tankers to be filled from the system above.	

4 BLOW OUT PREVENTION EQUIPMENT.

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	All equipment shall be in accordance with the "Shell Pressure Control Manual for Drilling and Workover Operations" (EP 2002-1500).	
	All Well Control equipment certification must be renewed at the COMMENCEMENT DATE of the CONTRACT.	
	All Well Control equipment to be compatible with the use of OIL BASED MUD.	
	All control hoses shall be fire resistant.	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	Only genuine OEM or OEM approved spares/replacement parts shall be used in the maintenance of well control equipment. No alternations shall be made to any well control equipment withoutout the written approval of the OEM or OEM approved facility. 1-Re-certification that includes repairs or modifications are to be carried out by an OEM or OEM- approved facility.	
4.1 1 – Blowout Preventer	One 13 5/8" 10,000 psi WP BOP in accordance with COMPANY's Pressure Control Manual WS38.80.31.32, consisting of:	
	- 10,000 psi WP 13 5/8 bag type preventer c/w 5 gallon stripping bottle as close as possible to closing chamber	
	- 13 5/8 double ram type preventer. • One Blind Shear Ram or Blind Ram • One PR/VBR, PR suitable for rig provided DP and VBRs for a range of 3 ½" to 7"	
	- 13 5/8 single ram type preventer. • PR suitable for rig provided DP	
	In addition the following rams must be supplied: • One set of 9 5/8" casing rams • One set of 7" casing rams • One set of 5 7/8" PR or VBR to close on 5 7/8" pipe and 5 ½" Tubing	
	One full-opening drilling spool with two 3 1/16" outlet	
	All elastomers will have to be rated for WBM and OBM and appropriate temperature. Please specify temperature rating	
	Some means to allow safe working at height when working on the BOP; adjustable work platforms and fixed fall arrestors below the drillfloor.	
	Drawings giving detailed engineering data on pressure ratings and dimensions of BOP stacks and its components.	
4.1 2 – Blowout Preventer	One 21 ¼" 5000 psi WP BOP in accordance with COMPANY's Pressure Control Manual WS38.80.31.32, consisting of:	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	- 3000/5000psi WP 21 1/4" bag type preventer	
	- 21 1/4" double ram or two single ram preventers. • One Blind Shear Ram or Blind Ram • One PR/VBR, PR suitable for rig provided DP and VBRs for a range of 3 ½" to 7"	
	One full-opening drilling spool with two 3 1/16" outlet	
	Some means to allow safe working at height when working on the BOP; adjustable work platforms and fixed fall arrestors below the drillfloor.	
	Drawings giving detailed engineering data on pressure ratings and dimensions of BOP stacks and its components.	
4.1 3 - Diverter	One 29 ½" 500 psi WP diverter system in accordance with COMPANY's Pressure Control Manual WS38.80.31.32	
	Min 6" vent line To be fully opening valves with an actuator (pneumatic or hydraulic) with the bore of the valves equal to the bore of the diverter lines Valves to be opened before the diverter element are completely closed	
4.2 Wellhead and BOP adaptor spools & risers/spacers	To be provided by CONTRACTOR and specified by COMPANY and Wellhead Contractor.	
4.3 Kill & Choke Outlets	a) Choke outlet c/w a 3 1/16" or 4 1/16" manual operated valve, a 3 1/16" or 4 1/16" hydraulic operated valve and a 3 1/16" or 4 1/16" connection flange to choke line.	
	b) Kill outlet c/w a 2 1/16" or 3 1/16" NRV and a connection to 2 1/16" or 3 1/16" fig 1502 Weco.	
	A manifolded choke and kill line arrangement on the BOP, which will have target flanges fitted (dual choke lines, both tied in into the choke manifold, are also allowed as the choke line arrangement). See Figure 21 in COMPANY's Pressure Control Manual WS38.80.31.32	
4.4 Choke line	3 1/16" or 4 1/16" 10,000 psi WP Coflex hose with flanged or clamp connections on both ends.	

		COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
		Suitable for WBM and OBM. Specify temperature rating	
4.5	Kill line	2 1/16" or 3 1/16" 10,000 psi WP Coflex hose with fig 1502 Weco unions. Suitable for WBM and OBM. Specify temperature rating	
		Both choke and kill line should be adjustably suspended from the stack to avoid bending forces at connections.	
		1x Spare kill and choke hose to be available on site.	
4.6	Choke manifold.	One 10,000 psi WP choke manifold in accordance with EP 2002-1500. Drawing giving detailed data on pressure ratings and dimensions of the choke manifold to be submitted.	
		Choke manifold should have hydrate inhibitor injection system with injection point up-stream of the choke.	
		Provision of flare line as required and to be approved by COMPANY.	
4.7	Blowout preventer control system.	One 3000 psi WP automatic pump accumulator unit with control manifold, a minimum of two (2) pump systems with at least two (2) independent power systems (power supply is a source of power that is not impaired by any fault which disables the power to the other pump system(s)), and fluid reservoir. The unit shall be fitted with a regulator similar to the Koomey type TR5. The unit must be capable of closing and opening all preventers as specified in the SIEP EP 2002-1500 Well Control manual.	
		CONTRACTOR to provide calculations demonstrating that the BOP control unit complies with sizing requirements contained in COMPANY's Pressure Control Manual WS 38.80.31.32 – Gen.	
		One driller's control panel (located off the rig floor) showing functions with all controls for the functions of the BOP stack.	
		One additional remote control panel showing functions with controls for all functions of the BOPs to be located in the Sr Toolpushers office.	
		The remote panel is to operate the main closing unit valves direct and not through the derrick floor unit so that should the latter be destroyed	

		COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
		in case of a blow-out and fire the remote unit can still be used.	
		Both control panels must show position of preventors and valves. Low reservoir level, low accumulator and low rig air pressure alarms must be installed. Air junction boxes between the main BOP control system and the control panels should be of the round (RB) style.	
		The main closing unit should be located in a safe area away from the cellar and derrick floor.	
		All hoses to be in accordance with the COMPANY's Pressure Control Manual WS 38.80.31.32 – Gen.	
4.8	Hydraulic BOP test pump.	One hydraulic air operated and calibrated 10,000 psi test pump c/w chart recorder, gauges, high pressure and low pressure hoses.	
4.9	Tools	Suitable impact wrench and hi-torque wrench for nippling up BOP and risers safely.	
		Thread chaser for all BOP bonnet bolts.	
		All BOP test tools as per COMPANY's Pressure Control Manual WS 38.80.31.32 – Gen.	

5 INSTRUMENTS.

		COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
5.1	Driller's position.	a) One anchor type weight indicator for the full rating of the derrick with applicable number of lines strung.	
		b) Two standpipe pressure gauges, 0-8000 psi,.	
		c) One choke manifold pressure gauge, 0-10,000 psi.	
		d) One rotary tachometer.	
		e) One rotary torque indicator.	
		f) One cumulative pump stroke counter for each mud pump.	
		g) mud pump stroke indicators; one for each pump.	
		h) Minimum of 2 tong torque indicators c/w pull	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	line sensators	
	i) One, preferably sonic, pit volume totaliser for the active mud tanks and on reserve and trip tanks complete with loss gain indicator and alarm (audio and visual).	
	j) Direct (taught wire) and electronic trip tank level indicators.	
	k) One mud flow indicator with high and low alarm.	
	l) A general alarm system suitable for operation conditions at up to 50 deg C. Capable of different alarm sounds for H2S, fire and well control conditions and audible over the complete rig site.	
	The alarm shall consist of the following characteristics:	
	- Audible signal	
	- Visual signal	
	- A flashing Light	
	Capable of actuation by driller and rigsite offices and capable of relaying mudlogger alarms.	
	m) Two emergency shutdown switches; electrical and total power.	
	n) Crown - 0 matic activation and drawworks emergency stop switches installed at drillers console.	
	o) One choke control panel located near the Driller's position on the rig floor for remote operation of at least one of the adjustable chokes. The choke manifold pressure gauge, Item 5.1c, and one of the standpipe pressure gauges, Item 5.1b, to be mounted on the choke control panel.	
5.2 Driller's doghouse.	a) computerised monitoring for at least mud pressure, circulation rate (or pump strokes), weight on bit/string weight, rotary RPM, rotary torque and rate of penetration, and depth in meters.	
	b) One recorder for the mud volume totaliser and flow rate.	
	c) One recorder for triptank.	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
5.3 Choke manifold.	a) One instrument header c/w 0-500, 1000, 3000 and 0-5000 psi gauges (to assist in dealing with low pressure kicks)	
	b) One choke manifold pressure gauge, 0-10,000 psi	
	c) sufficient 1/2" NPT connections for pressure gauges of various ranges.	
	5.3.a and 5.3.b combined on one panel mounted on the choke manifold. All connections must be welded.	
	Annulus pressure monitoring facility to minimise cellar entry during well control operations (remote gauge).	
5.4 Standpipe manifold.	One instrument header c/w 0-500 and 0-7500 psi gauges (to assist in dealing with low pressure kicks),. Pressure gauge 0-7500 psi, visible/legible from the driller's stand. 1/2" NPT connections for pressure gauges of various ranges.	
	All welded connections.	
5.6 Deviation Equipment.	One deviation recorder unit, complete with double recording instruments 0-10 degree complete with protective barrels, weight bars, swivel to wireline and totco or spider rings to fit 7 5/8" Reg, 6 5/8" Reg, 4" IF, NC 35 connections and rig provided DP connection	
	Crossover to allow combination totco and magnetic single shot tool.	
	Fishing tool for survey barrel.	
5.7 Wireline unit.	One power driven measuring line assembly with 20000 ft of 0.092 or 0.108" line complete with depth indicator, wireline pull indicator and spooling device. C/w certification incl. last stretch test report.	N/A
5.8 Calipers.	Internal and external calipers in the range of 0-20" should be available. Ring gauges for 24". 17 1/2", 12 1/4", 8 1/2" and 6" bits. Tri-point calipers for the range 2-17 1/2" (e.g.. Homco).	
5.9 Derrick tapes.	Two 30m long derrick tapes calibrated in ft & cms.	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
5.10 H2S and HC detection system.	Complete detection system for H2S and hydrocarbon gas suitable for operating conditions in temperatures up to 50 degr. C. Comprising:	
	- three measuring heads, explosion proof for installation at the bell nipple, shale shaker and rig floor.	
	- central monitoring unit for 6 detection points.	
	- channel card for each measuring point for installation in the central unit.	
	- two alarm settings.	
	- 24 Volt DC back-up supply.	
	- alarm acknowledgement card.	
	- explosion proof visible alarm (revolving alarm light) and audible alarm for installation at the rig floor and other stations as necessary to allow visible / audible warning over complete rig site.	
5.11 Gas Tester	a) Portable hand-held solid state electrical multi-meters for H2S, combustible gas, CO, and oxygen measurements.	
	b) "Draeger Tube" type gas test set, suitable to establish concentrations of H2S, oxygen, and combustible gases.	
	c) Set of 6 pce personal H2S monitors (Compur 4100 or equivalent) complete with maintenance kit and charging unit.	

6 DRILL STRING

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	All NEW pipe and hoisting equipment to be in accordance with the relevant API RP7G-2 and API Spec 5DP	
	All used equipment shall be inspected by a recognised oilfield tubular inspection company at CONTRACTOR's expense before the start of the first well and certified as a minimum to premium grade after inspection as per API RP7G-2 (latest edition).	
	All drillstring components to be uniquely identifiable and traceable in certifying documents	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	and history sheets.	
	All drilling string equipment to be provided with thread protectors for pin and box.	
	COMPANY reserves the right to reject pipe without certification, or to request re-inspection / certification from a nominated inspection COMPANY at CONTRACTOR's expense.	
	Drill collars, drill pipe, substitutes, etc. must at least meet API RP7G-2 and any other specifications required by COMPANY. All quantities of equipment mentioned in sections 6, 7, 8 and 9 should be available and operational at all times.	
	In general it is preferred that all downhole equipment used for long-term operation (drill pipe, drill collars etc.) be new or never have been used, but as a minimum, used downhole equipment must be less than 3 years old at the COMMENCEMENT DATE.	
	All New tubulars must have make and break of tool joints carried out at the manufacturing facility.	
	Certificates of tests for drill collars, drill pipe, substitutes, must be made available to COMPANY.	
	Drill pipe with more than 25% of the plastic coating missing will be rejected for further use.	
6.1 Drill pipe (5 7/8" and 5")	5000 metres of 5 7/8" (26.3 lb/ft), grade S-135, range 2 or 3.	
	3000 meters of 5" (25.6 lb/ft), grade S-135, range 2 or 3.	
	3000 meters of 5" (19.5 lb/ft), grade S-135, range 2 or 3.	
	a) Plastic lining, acceptable coatings: i) AMF-Tuboscope TK 34 ii) Plastic Applicators USA, type Plasticap 200. iii) Vetco, Type CW - 106. Other types to be approved in advance by COMPANY. Minimum thickness: 125 micron. Maximum thickness: 225 micron.	
	b) Friction welded tool joints with hardfacing in accordance with Specifications.	
	c) 5 7/8" XT57; 5" NC 50 connections.	

		COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
		d) Hardbanding techniques acceptable: Armcor M, Arnco 100XT/300XT, Platinum and TCS 8000. Hardbanding height is flush to max 3/32" for all components.	
6.2	Pup joints 5 7/8"	2 pup joints each of 1.1/2, 3 and 5m with specification as per 6.1 but no hardbanding required.	
6.3	HWDP	20 joints 5 7/8" OD ~55 lb./ft range 2 or 3 with XT-57 connections. Plastic coated and hardfacing as per drillpipe specification.	
		40 joints 5" OD ~50 lb./ft range 2 or 3 with NC 50 connections. Plastic coated and hardfacing as per drillpipe specification.	
		All HWDP to be provided with centre upset pad to reduce buckling.	
6.4	Drill pipe (2 7/8")	1500m of 2 7/8" drillpipe 6.4 lb/ft grade N-80. Range 2 or 3 drill pipe complete with:	N/A
		- Plastic lining and hardbanding by COMPANY approved manufacturer. (see 6.1 above)	N/A
		- Friction welded tooljoints with hardbanding as per 6.1 above and 18 degree tapered shoulders.	N/A
		- Hydrill 511 connections	N/A
6.5	Pup joints (2 7/8")	1x pup joint of 1.1/2, 3 and 5m with specification as per 6.4 but no hardbanding required.	N/A
6.6	Heavy weight drill pipe 3½"	40 joints 3 1/2" OD, 26 lb./ft range 2 or 3 with NC 38 connections. Plastic lined and hardfacing on the tool joint should be as per 6.1 above.	N/A
6.7	Drill collars	Sizes, dimensions and connections as stipulated in API RP 7G-2.	
		Any drill collars with connections showing anomalies'/ defects shall be replaced by new collars or alternatively re-cut providing their length is not reduced below the API RP7G-2 range minimum. Re-cutting is only to be done by a reputable manufacturer who manufactures rotary drill stem elements and is in the API authorized list given API RP7G-2.	
		Drill collars to be supplied without elevator recesses, handling gear (lift sub and safety clamp) to be supplied in handling equip list	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	If CONTRACTOR's existing stock of dc's contain elevator recesses, then CONTRACTOR to supply suitable elevators in addition to those for full size BHA components.	
	Drill collars to have required groove for sealing rings.	
	a) 20 pcs spiral drill collars 9 1/2" OD X 3" ID X 32 ft long with API 7 5/8 Reg. connections.	
	b) 2 pcs 9 1/2" pony drill collars 10 ft long.	
	c) 30 pcs spiral drill collars 8 " OD X 2 13/16" ID X 32 ft long with API 6 5/8 Reg. connections.	
	d) 2 pcs 8" pony drill collars 10 ft long.	
	e) 30 pcs spiral drill collars 6 1/2" OD X 2 13/16" ID X 32 ft long with NC 46 connections.	
	f) 2 pcs 6 1/2 pony drill collars 10 ft long.	
	g) 12 pcs spiral drill collars 11 1/4" OD X 3" ID X 32ft long with 8 5/8" Reg connections.	
6.8 Stabilisers	270 degree open spiral integral blade type. Stabilisers with 7 5/8 Reg. connections should have a 3" ID. Stabilisers with other connections should have a 2 13/16" ID, unless specified differently.	N/A
	All stabilisers which are used in the drilling string are to have connections to the same quality as drill collar connections. All stabilisers are manufactured / inspected as per API RP7G-2 standard.	N/A
	4 pcs 17 1/2" OD string stabilisers to suit 9 1/2" drill collars.	N/A
	2 pcs 17 1/2" OD string stabilisers to suit 8 1/4" drill collars.	N/A
	2 pcs 17 1/2" OD near bit stabilisers with float valve receptacle to suit the 9 1/2" drill collars, box x box, lower connection 7 5/8"REG.	N/A
	4 pcs 12 1/4" OD string stabilizer to suit 8 1/4" drill collars.	N/A
	2 pcs 12 1/4" OD near bit stabilisers with float valve receptacle to suit the 8 1/4" drill collars, box x box, lower connection 6 5/8"REG.	N/A
	6 pcs 8 3/8 " (or 8 1/2" TBA)OD string stabilisers to suit the 6 3/8" drill collars.	N/A

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	2 pcs 8 3/8" OD (or 8 1/2" TBA) near bit stabilisers with float valve receptacle to suit the 6 1/4" drill collars, box x box, lower connection 4 1/2" REG.	N/A
	4 pcs 5 7/8" OD (or 6" TBA), 2 1/4" ID string stabilisers to suit the 4 3/4" drill collars.	N/A
	2 pcs 5 7/8" (or 6" TBA) OD, 2 1/4" ID near bit stabilisers with float valve receptacle to suit the 4 3/4" drill collars, box x box, lower connection 3 1/2" REG.	N/A
6.9 Cross-over subs	Sufficient cross-over subs to make up all possible drill and fishing string configurations. All drill stem subs to be in accordance with API RP7G-2.	
	Sufficient cross-over subs (list to be provided with bid) to make up all possible drill and fishing string configurations. Cross- overs to include the following:	
	- short X-over from drill collar connections to inside blow-out preventers (1 foot);	
	- at least three X-overs from drill collar connections to drill pipe and HWPD connection;	
	- near bit subs of at least 2 1/2" feet length for fishing operation and receptacle for float valve for the 9 1/2", 8" and 6 ½" drill collar sizes;	
	- X-over subs from drill pipe connections to 3 1/2", 2 7/8" and 2 3/8" VAM and EUE tubing;	
	- X-over to run 7" and 4 1/2" scrapers in tandem;	N/A
	- X-overs to connect Circulating Head (6.12) to all drill pipe sizes (Please specify details of X-overs)	
	- mud saver sub c/w spares for 5 1/4" Kelly;	N/A
	- mud saver sub c/w spares for 4 1/4" Kelly.	N/A
6.10 Kellies	1 pcs 5 1/4" 40 ft long kellies with 6 5/8 Reg. L.H. box and 4 1/2 IF pin.	N/A
	1 pce 4 1/4" 40 ft long Kelly with 6 5/8 Reg. L.H. box and 3 1/2" IF pin.	N/A
	1 pcs Kelly saver with casing protectors for 5 1/4" kellies with 4 1/2" IF pin x box connection.	N/A
	1 pcs Kelly saver subs with casing protectors for 4 1/4" kellies with 3 1/2" IF pin x box connection.	N/A

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
6.11 Inside BOP's and FOSV		
	2 pce Inside BOP valve 10000 psi WP with DP connections for 5 7/8"	
	2 pce Inside BOP valve 10000 psi WP with DP connections for 5"	
	Three FOSVs 10,000 psi WP for each size (5 7/8" and 5" of drillpipe in use should be available as follows: on the drill floor (with removable handles for easy stabbing), on the top drive, and one as a spare. (Specify sizes of FOSVs)	
6.12 Circulating heads	No line pipe threaded connections permitted on circulating heads. A circulating head, ideally a rotating type, with a WP the same as the BOP system should be available in the direct work area (e.g., drill/unit floor) during drilling, completion, DST, workstring or casing running operations, with the appropriate cross-over.	
	1 pce circulating head (inc. swivel) with valve 10,000 psi WP with NC50 pin down and a 2" hammer lug-wing union connection up (fig. 1502).	
6.13 Float valves	2 pcs Float valves of each size to fit bit subs and near bit stabilisers	
6.14 Circulating subs	2 pcs 6 1/4" OD, 2 13/16" ID with 4" IF connections, plus dressing kit.	N/A
	2 pcs 4 3/4" OD, 2 1/4" ID with NC 38 connections, plus dressing kit.	N/A
6.15 Cup type testers	Cup type testers with cups for the following range of casing sizes and weights : 13 5/8", 88.2 lb./ft, 9 5/8", 40 - 53.5 lb./ft	
6.16 Casing scrapers	1 pce Baker rotovert casing scraper for 9 5/8" casing, 40 - 53.5lbs/ft with 4 1/2" Reg. box down and 4 1/2 Reg. pin-up.	N/A
	1 pce Baker rotovert casing scraper for 7" casing, 29 - 32 lb./ft with 3 1/2" Reg. box down and 3 1/2" Reg. pin-up	N/A
6.17 Drifts	All drifts must be hollow and fitted with a standard wireline fishing neck on both ends for recovery down hole. Minimum OD 2.5".	
	2 pcs API 5 7/8" drill pipe drifts.	
	2 pcs API 5" drill pipe drifts.	
	API drifts for CONTRACTOR supplied drillcollars	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
6.18 Wipers	5 7/8" and 5" external drill pipe wipers.	
6.19 Testing subs	0.5m long with 1/2" hole for running with plug type tester.	
6.20 Hang-off Subs	1 pce 5" hang-off sub with square shoulder.	N/A
	1 pce 3.1/2" hang-off sub with square shoulder.	N/A

7 HANDLING TOOLS

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
7.1 Bit breakers.	36" bit breaker for tricone bits to fit rotary table.	
	24" bit breaker for tricone bits to fit rotary table.	
	17.1/2" bit breaker for tricone bits to fit rotary table.	
	12.1/4" bit breaker for tricone bits to fit rotary table.	
	8.1/2" bit breaker for tricone bits to fit rotary table.	
7.2 Slips for drill string.	2 sets API extra long slips for 5 7/8" drill pipe.	
	2 sets API extra long slips for 5" drill pipe.	
	2 sets API extra long slips for 4" drill pipe.	
	One set 11 1/4" drill collar slips.	
	One set 9 1/2" drill collar slips.	
	Two sets 8 " drill collar slips.	
	Two sets 6 1/2" drill collar slips.	
	Two sets 4 3/4" drill collar slips.	
7.3 Drill collar safety clamp.	2 pcs Drill collar clamps for the range 4 3/4 -11 1/4" Pin latch type. Plus lifting subs (new dc's to be supplied without elevator recesses).	
7.4 Drill pipe elevators.	2 pcs Centre latch elevators for 5 7/8" drill pipe, 18 degree tapered tool joints minimum 350 ton capacity.	
	2 pcs Centre latch elevators for 5" drill pipe, 18 degree tapered tooljoints, minimum 350 tons capacity.	
7.5 Links.	One set of elevator links 2 3/4" x 192" 350 tons capacity, suitable for all elevators	

		COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
		One set of elevator links 3 1/2" x 144" 500 ton capacity, suitable for all elevators	
7.6	Drill collar elevators.	If CONTRACTOR's existing stock of DC's contain elevator recesses, then CONTRACTOR to supply suitable elevators in addition to those for full size BHA components.	
		One 11 1/4" drill collar elevator 100 ton minimum capacity.	
		One 9 1/2" drill collar elevator 100 ton minimum capacity.	
		One 8" drill collar elevator 100 ton minimum capacity.	
		One 6.1/2" drill collar elevator 100 tons minimum capacity.	
		One 4.3/4" drill collar elevator 75 tons minimum capacity.	
7.7	Kelly spinner.	One reversible air powered kelly spinner c/w 6 5/8" Reg. LH pin x box connections and wearsub. Air hose diameter 1.1/2".	N/A
7.8	Drill pipe spinner.	One reversible air powered drill pipe spinning wrench for 5 7/8" and 5" drill pipe. Varco SSW 40 or equivalent.	
7.9	Rotary tongs.	For all tongs supplied, due consideration must be given to break-out torques greater than the initial make-up torque.	
		a) 2 pcs Extra heavy tongs with a torque rating of 100,000 ft/lb. from 5" through 11 1/2".	
		b) 2 pcs Manual tongs	
		c) 2 pcs Lightweight tongs primarily designed for use of 2 3/8 - 5 3/4" tubulars	
		Cathead lines, padeyes and snatch blocks must be suitable for making and breaking 7 5/8 Reg connections.	
		Hydraulic cathead (EZ TORQ type) device for making up and breaking out up to size 11 1/4" x 7 5/8 REG drill collar connections.	
7.10	Single joint elevators	Two pieces for 5 7/8" drill pipe, 18 deg tapered.	
		Two pieces for 5" drill pipe, 18 deg tapered.	
7.11	Drill collar lifting	All DC lifting subs to have elevator recesses (18	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
subs	deg shoulder), hollow and dressed with DC connection box up	
	4 pcs Lifting subs for 11 1/4" drill collars.	
	4 pcs Lifting subs for 9 1/2" drill collars.	
	10 pcs Lifting subs for 8" drill collars.	
	10 pcs Lifting subs for 6 1/2" drill collars.	
	10 pcs Lifting subs for 4 3/4" drill collars.	
	Lifting caps for single joints of all drillpipe supplied under the CONTRACT.	
7.12 Iron Roughneck	Required for tubular from 2 7/8" tubing to 11 ¼" DC. A torque gauge shall be included with the power tongs. Specify details of provided Iron Roughneck.	

8 CASING EQUIPMENT.

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	Specify all the Casing handling equipment available on the rig.	

9 FISHING EQUIPMENT.

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	From the COMMENCEMENT DATE of the CONTRACT, CONTRACTOR shall have available, inspected, and certified and, all the fishing equipment required to fish all CONTRACTOR's downhole items.	
	From the same date, CONTRACTOR shall also have available and in working conditions, casing spears for fishing COMPANYs casing sizes.	
	CONTRACTOR may elect to rent such items rather than to own them. However, all arrangements must ensure that fishing equipment is available on site when required without delays. Any charges for renting are for CONTRACTOR account.	
	All fishing equipment must have stress relief features in accordance with API RP 7G-2.	
9.1 Fishing Jars (Specify if provided)	Fishing jars and intensifiers to be Houston Engineering / Griffith or COMPANY approved equivalent. To be able to fish all CONTRACTOR downhole equipment.	
	Service kits for all of the above. Jars & intensifiers from same manufacturer. Performance charts for the combination to be submitted to COMPANY.	
9.2 Fishing Bumper subs	Fishing Bumber subs to be Houston Engineering / Griffith or COMPANY approved equivalent. To be able to fish all CONTRACTOR downhole equipment.	
9.3 Overshots.	Overshots to fish for all of CONTRACTOR's equipment inside all hole / casing sizes. Bowen series 150 or equivalent. i.e.	
	a) Pack offs.	
	b) Spiral and basket grapples.	
	c) Extension subs (48" long).	
	d) Oversized and regular lipped guides for the various hole size.	
	Overshot accessories should include all sizes necessary to catch CONTRACTOR's downhole equipment including undersize.	
9.4 Junk baskets.	2 pcs Junk basket for 8 " drill collar string 6 5/8 Reg. pin-up 6 5/8 Reg. box down.	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	2 pcs Junk basket for 6 1/2" drill collar string 4" IF pin-up 4 1/2 Reg. box down.	
	2 pcs Junk basket for 4 3/4" drill collar string NC 35 pin-up 3 1/2 Reg. box down.	
9.5 Reverse circulating junk baskets	Complete with spare kits for jetting and grapple assemblies.	
	Specify details of all reverse circulating junk baskets to be provided	
9.6 Junk mills	Flat mills.	
	Specify details of all junk mills to be provided	
9.7 Magnets	Magnets	
	Specify details of all magnets to be provided	
9.8 Impression Blocks		
	1 pce 11" OD.	
	1 pce 8" OD.	
9.9 Casing Spears		
	To fish 13 5/8" 88.5 lb/ft casing.	
	To fish 9.5/8" 40-53.5 lb/ft casing.	
	To fish 7" 29-32 lb/ft casing.	

10 TRANSPORT AND LIFTING EQUIPMENT.

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
10.1 General		
	All vehicles supplied under this contract must comply with the specifications contained in the Shell transport HSE manual.	
	All vehicles must be clearly marked with CONTRACTOR's company logo and contract number.	
	All vehicles should be fitted with communication equipment to allow good Journey Management.	
	Manufacturer approved rollover bars to be fitted to all vehicles.	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	All necessary transport and lifting equipment to efficiently handle all CONTRACTOR and COMPANY furnished materials, equipment, supplies and personnel at the well site.	
10.2 Crew Cab / Bus	One closed crew cab for both CONTRACTOR and COMPANY personnel.	
10.3 Crane / Forklift general	Crane and forklift with diesel engines are permitted in Zone 2 areas provided the following are installed and functioning :	
	a) exhaust spark arrestor. b) automatic inlet overspeed s/d valve. c) sealed crankcase. d) auto remote shut off device on air inlet.	
	e) low oil pressure shut down device f) fuel shutdown valve (mechanical and automatic) g) anti-static fan drive belt.	
10.4 Forklift	One forklift truck of min. 8 metric ton suitable to operate in prevailing weather / environmental conditions and Zone 2 according to IP Code inc Telescopic loader. Warehouse forklift trucks explicitly forbidden.	
	Forklift complete with: a) hydraulic load clamp to secure tubulars during movement. b) manufacture supplied load hook. c) dumpbucket (quick change-out type).	
	Forklift to be preferably equipped with hydraulic fork side shifting.	
10.5 Crane	One rough terrain telescopic/hydraulic 65MT crane for handling all CONTRACTOR's heavy equipment in rough terrain conditions and Class 2 area c/w crown saver, reversing alarm and weight indicator.	
	- fitted with boom and block end stops.	
	- c/w radius charts.	
10.6 Emergency Vehicle	CONTRACTOR to nominate an emergency vehicle which is continuously available, equipped to transport a stretcher c/w patient and medical support staff.	
	Emergency lights and horns. Rear saloon heating/AC, lighting, fixing bracket for oxygen bottles x 2, ceiling hook for fluid administration,	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	storage container for medical supplies 50cm x 20cm x 20cm, rear seat belts for passengers.	
	Vehicle to be in compliance with "MER (Medical Emergency Response) minimum requirements contained in the EP 2005-0151-ST".	
10.7 Personnel Baskets	Certified personnel basket for both crane and forklift including retention cable / set-up.	
10.8 Lifting register	Crane and forklift register complete with:	
	- maintenance schedule	
	- slip / cut frequency for blocklines	
	- inspection / certification of overload arms	
	- condition monitoring record of tyres, lights, reversing alarm	
10.9 Cherry Picker	Provision of one Cherry picker with the adequate Certifications for COMPANY to approve.	

11 ACCOMMODATION

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	Full camp to be highly mobile, trailer or skid mounted to enable fast moves and meeting the specific requirements detailed elsewhere herein.	
	The camp should be designed for frequent moving and should be either trailer-mounted or skid-mounted. Camp should be designed to achieve a minimum number of loads (i.e. multiple caravans on one skid)	
	The Camp will be in accordance with COMPANY Standard: DEP 34.17.10.34.	
11.0 General	All caravans have to be suitable for prevailing weather / environmental conditions (heating and AC), skid or wheel mounted and have been manufactured or undergone major refurbishment within last 3 years. All caravans to be designed for rapid moving between locations.	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	All caravans must be sound proof and earthed. All double bunks must have ladders to the top bunk. All caravans fitted with smoke alarms and emergency lighting. All new accommodation to include en-suite bathroom / toilet facilities.	
	Company representatives offices minimum 12m2, incl. 4m2 desk space , bedroom 12 m2 floor area. Other offices minimum 12 m2. Senior staff offices to be linked internally to bathroom.	
	CONTRACTOR to provide suitable installations to operate/manage the entrance to Main Camp and Rig Site with Muster Board and record keeping as per COMPANY requirements.	
11.1 Rig site		
11.1.1 Cabins	-1x Shell office suitable for minimum 4 PC Work Stations (w/ bathroom) -1x Toolpusher/HSSE office (w/ bathroom) -1x Office/bedroom YPFB (w/ 2 beds & 1 bathroom) -1x Office/bedroom Geologists (w/ 2 beds & 1 bathroom) -1x Office/bedroom Shell HSSE (w/ 2 beds & 1 bathroom) -1x bedroom Company Men DSV/NDSV (w/2 beds & 2 bathrooms) -1x bedroom Toolpushers (As per CONTRACTOR requirements) -1x bedroom Mechanic/Electrician (As per CONTRACTOR requirements) -2 x bedroom VIP (w/4 beds & 2 bathrooms) -1x Medic cabin / (w/1 x bed & 1 bathroom) As per requirements on 11.1.6 -1x Meeting Room, As per requirements on 11.1.5 -1x Dining Room, As per requirements on 11.1.4 TOTAL of 13 Cabins Bedroom shall be equipped with at least air-conditioner/heater, bed with bed light, side-table, small table, easy chair, two door locker with shelves, curtains or equivalent and Satellite TV. . Bathroom shall be equipped with at least shower cabin, toilet, hot water boiler, sink and mirror.	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	Offices shall be equipped with at least desk with drawers, air-conditioner/heater, swivel chair, extra table, refrigerator, two extra chairs, two door locker with shelves, filing cabinet with drawers. Office of COMPANY's senior drilling representative shall be equipped additionally with coffee/tea making facilities. Voltage stabilisers / UPS systems shall be provided for offices with PC's.	
11.1.2 Mud lab	One caravan with separate bedroom, bathroom and mud laboratory for mud engineer. Bedroom and bathroom equipped as per 11.1.1 Laboratory shall be equipped with at least a bench with drawers, swivel chair, one extra chair, two door locker with shelves, basin with hot and cold water taps, filing cabinet with drawers, air-conditioner / heater, basic laboratory equipment, refrigerator. 12m2 office inc 3m2 desk space, 12 m2 bedroom.	N/A
11.1.3 Radio room	One caravan to accommodate radio room, c/w separate toilet for radio operator. Radio room shall be equipped with at least air-conditioner/heater, bench with drawers, swivel chair, two extra chairs, and notice board. Potentially also to be used as a Safety induction room.	
	COMPANY provided data / telecomms equipment requires minimum 1m x 1m x 2m space inside caravan in addition to any other CONTRACTOR requirements. Suitable for fitting COMPANY provided external antennae on the same skid as the COMPANY provided equipment.	
11.1.4 Dining room	Dining room should be provided for crew members at the rigsite. This should have facilities for preparation of tea/coffee as well as a refrigerator for cooling drinking water.	
11.1.5 Meeting Room	Suitable caravan (air conditioned/heated) with tables and chairs, equipped with TV, video, computer beamer or O/H projector to be used as meeting room for safety and DTL meetings. The room should comfortably take at least 15-20 people.	
11.1.6 Medic Cabin on Rig Site	On site health centre for the provision of medical attention, First Aid and Advanced Life support including Tier 2 Medical Emergency Response care. OSC shall be equipped as per specification "MER (Medical Emergency Response) minimum	

		COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
		requirements contained in the EP 2005-0151-ST".	
		Clinic shall be equipped with at least (as a minimum) air conditioner/ heater, one bed for examination, one stretcher, two first aid kits of which one is sealed, one medicine cabinet with shelves and lock, two chairs, basic medical instruments, medicines as per COMPANY requirements, lockable refrigerator for medicines only. Stock of bottled drinking water. Clinic must have sufficient emergency lighting to conduct treatment in the event of black out conditions.	
11.1.7	Water Treatment & Waste management	Blue Dolphin / Red Fox unit (or equivalent) to treat waste water. Also, a compost pit shall be provided and managed by CONTRACTOR catering personnel.	
11.2	Camp site	Camp site to be provided with adequate lighting between living quarters and along walkways.	
11.2.1	COMPANY contractors	45 beds to be available for COMPANY contractors. Bathroom equipped as per 11.2.10	
11.2.3	Medic Equipment on Camp Site	First Aid equipment as per "MER (Medical Emergency Response) minimum requirements contained in the EP 2005-0151-ST" document	
11.2.4	Staff mess / Dining	Staff mess suitable to accommodate a minimum of 70 personnel, air-conditioned/heated with tables, chairs, ice making machine and glass door refrigerator(s).	
11.2.5	Kitchen	Kitchen suitable to cook for up to 70 persons equipped with all the necessary cooking utilities and dry store.	
		Food preparation surfaces to be smooth and easily cleanable.	
		Suitable air-conditioning / ventilation to cope with summer / winter conditions. Fly screens installed on all doors /windows.	
		Soap and hand towels (paper) to be available in the kitchen area.	
		Confirm Compliance with all HSSE requirements in Section 5 (Section C. 2.5 Food and Drinking Water Safety)	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
11.2.7 Laundry	Laundry suitable to launder for up to 70 personnel equipped with all the necessary washing and drying facilities for both working and personal clothing. Dedicated washing machines for working clothing to be provided. Laundry room AC adequate for higher temperatures.	
11.2.8 Recreation caravan	Staff recreation caravan, air-conditioned/heated equipped with video recorder and DVD, satelite TV set, tables and chairs c/w overhead projector and screen.	
11.2.9 CONTRACTORs	Caravans for all required rig contractors. Please specify caravan quantity	
11.2.10 Toilets / washrooms / showers	All accommodation to include bathroom / toilet facilities. According to Section 5 HSSE requirements (Section B. 2.1 Compliance with HSSE regulations)	
11.2.13 Food, water storage	Skid mounted freezer/cooler/dry store and water purification and storage system.	
11.2.14 Camp generators	Camp generators c/w roof plus fuel tank. Generators and fuel tank should be at least 50 metres away from the camp.	
11.2.15 Emergency power	Sufficient battery powered emergency lamps for strategic points at campsite (e.g. muster points) to allow escape in the event of a total black out.	
11.2.16 Septic pits	Pipes carrying effluent to Septic pits (both rig and camp shall be fabricated from steel to protect against accidental damage. Septic pits to include purpose built barriers and warning signs.	
11.2.17 Fitness room	air-conditioned fitness room containing as a minimum: two rowing machines one jogging machine; two bicycles; range of free weights; weight bench; multi-gym machine; sound system.	N/A
	Corrugated iron covers for standard sized septic pit at both camp and rig. (ca 4m x 4m).	
11.2.18 Prayer room	Suitable air-conditioned / heated caravan as a mosque or prayer room. If prayer room is stand alone, proper tie-down of room shall be in place to avoid turn/roll over by wind forces.	N/A
11.2.19 Water Treatment & Waste management	Blue Dolphin / Red Fox unit (or equivalent) to treat waste water. Also, a compost pit shall be provided and managed by CONTRACTOR catering personnel.	

12 FIRE FIGHTING EQUIPMENT.

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
12.0 General	A fire fighting equipment layout shall be available and submitted.	
	All fire extinguishers to be of the non CFC (Halon) type.	
	CONTRACTOR shall, as a minimum, provide the following fire fighting equipment.	
12.1 Camp site		
12.1.1 Fire team	Sufficient protective clothing for the nominated fire team, incl. but not limited to approved fire jackets, trousers, gloves boots and helmet with visors.	
12.1.2 Alarm system	Fire alarm system independent from rig site, audible at all locations on the camp.	
12.1.3 Portable extinguishers	ABC type powder extinguisher, capacity 9 kg, cartridge type for: each portacabin (outside), fuel storage area (2 pcs), generator area (2 pcs) and water distribution pumps (1 pc).	
12.1.4 Kitchen requirements	CO2 extinguisher, capacity 5 kg, for each kitchen (2 pcs) and switch gear room (2 pcs).	
	Two fire blankets in each kitchen.	
12.1.5 Fire pump	Independently powered Fire pump c/w hoses to reach all caravans. Pump sized to power two hoses concurrently. Hose storage system to allow rapid deployment and protection from sunlight.	
	Fire hoses to be of sufficient length to cover the entire camp site location.	
12.2 Rig site.		
12.2.1 Alarm system	Fire alarm system independent from camp site, audible at all locations on the rig. Actuation points near to engines and rigsite offices.	
12.2.2 Portable extinguishers	ABC type powder extinguisher, capacity 9 kg, cartridge type for each portacabin, workshop area (4 pcs), fuel storage area (4 pcs) and driller's dog house (2 pcs).	
	ABC type powder extinguisher on wheels, capacity 50 kg, cartridge type for:- 1) Generator area.	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	2) Fuel/oil storage area.	
	CO2 extinguisher, capacity 5 kg, for switch gear room (2 pcs) and radio room (1 pc).	
	All portable extinguishers shall be clearly visible and installed off the ground with brackets to walls or to free standing supports with dust cover. Spare extinguishers, cartridges and powder shall be available.	
12.2.3 Fire pump	Independently (diesel) powered Fire pump c/w hoses to reach all parts of the location. Hose storage system to allow rapid deployment and protection from sunlight. Pump sized to drive a minimum of 2 hoses concurrently, or one hose and the foam inductor of 12.2.4 (notionally 500gpm at 150 psi). Nozzle type to allow to switch between water jet and screen mode.	
12.2.4 Foam requirements	A foam system consisting of a portable or stationary diesel engine driven fire pump. Foam type to be 3% AFFF (aqueous film forming foam). Fire pump installed in a non hazardous area complete with foam inductors, foam nozzles (2), hoses and sufficient foam for 2 hours fire fighting at optimum pump rate shall be available when using oil base mud.	

13 MISCELLANEOUS EQUIPMENT.

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
13.1 Workshop Equipment.	a) Two electric welding sets 300 Amp. capacity. Two oxygen and acetylene cutting torches. Purpose built rack for oxygen and acetylene bottles. Oxy-Acetylene sets complete with flash back arrestors at the regulators. Equipment to be manufactured in accordance with BS6158 or equivalent.	
	b) Hand-tools for workshop and drill floor including, metric and imperial full set, allen keys, hammers, screwdrivers, pipe wrenches, chain wrenches, adjustable wrenches, chisels, nozzle pliers, pliers, ring-spanners, files, wire brushes, paint brushes, dope brushes, shovels,	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	etc.	
13.2 Office Equipment	a) One photocopy machine suitable for A-4 size paper.	
	b) One Desktop PC and one laser printers provided in YPFB cabin and meeting room	
	c) One A4 flat bed scanner.	
	d) UPS systems for powering PCs and printers.	
	e) Maintenance, spare parts and consumables for the above PC and printer equipment.	
	f) One digital camera.	N/A
	g) One speaker phone and one standard phone, installed in Company representative's offices.	N/A
	h) One fax machine installed in Company senior drilling representative's office.	N/A
	i) One overhead projector complete with screen.	
13.3 Breathing Apparatus	a) 4x BA set, self contained, open circuit, positive pressure, minimum 30 minutes, cylinder pressure 200 bar, with case and valid inspection certificate.	
	b) 4x BA emergency escape set, self contained, open circuit, positive pressure 5 minutes, cylinder pressure 200 bar, hansen fitting for connection to air ("cascade") line system. All air cylinders with valid inspection certificates.	
	c) One portable electric or diesel driven recharge compressor, complete and certified. Filter cartridges to be provided by Contractor.	
	d) One air purity testing kit.	
	e) Six spare air cylinders for item 13.3a, with valid inspection certificate	
13.4 Fuel Tanks	Rig fuel tanks and camp fuel tank sized to allow a minimum of 14 days continuous operation at normal average drilling load without re-stocking.	
	Tanks complete with: a) COMPANY standard loading point connection and metering device. b) Pipework (Distance as required by COMPANY) and explosion rated pumps to offload tankers	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	at 60m3/hr minimum. c) Earthing wires and clamps fitted to the loading point. d) Tanks to be double walled.	
	Main diesel tank to include a metering system complete with locking device to prevent unauthorised use.	
	Pump and fuel tank to include drip trays to prevent diesel spillage.	
	Day tank for both rig and camp sites c/w centrifugal fuel filter.	
13.5 Drinking water	Water treating unit complete with pump, piping, valves etc. to make drinking water or stock of bottled drinking water to be provided.	
13.6 Potable water	Potable water tank(s) of 1000 bbls capacity with diesel or electrically powered water transfer pump. Potable Water Tanks to include fine particle filter and UV light purification unit.	
13.7 Stores	Stores at the rig location for CONTRACTOR and COMPANY furnished equipment, supplies and spare parts.	
13.8 HP Cleaner	High pressure cleaner of at least 6000 ltr/min output and 200 bar, intrinsically safe for use in hazardous areas, zone 1 according to IP code. (or installed in zone 2 with sufficient HP hose to reach anywhere on rig site).	
13.9 Mud Vacuum	Mud vacuum cleaner suitable for both oil and water based muds. Intrinsically safe for use in hazardous areas. Air driven and Suitable for rig floor usage.	
13.10 Floodlights	Three portable floodlights (min. 500 watts), each on a stand with sufficient cable or diesel / electrical generator to be employed anywhere on the rig location suitable for Class I area.	
13.11 Bug blowers	Two portable bug blowers 5 HP capacity for work around wellhead area, mud treatment area and rig floor.	
13.12 Oil skimmer	One self priming pump with skimmer to skim oil off or transfer excess fluid from the waste pit to tanks or road tanker. Wilden type preferred with suction hose and skimming head.	
13.13 Mud return hoses	Two pieces mud return hoses, at least 3" ID, from the side outlets of the wellhead to the flow-line,	

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	in case mandrel type casing hangers are used.	
13.14 Water bath	Temperature bath for cement samples.	
13.15 Burning baskets	2 pcs Burning basket/incinerator to dispose of rubbish.	
13.16 Waste transport containers	Sufficient waste storage/transport containers to store on the well site and transport to COMPANY designated waste collection site segregated: scrap, hazardous waste, wood.	
13.17	Hand-held radio's; 6 each minimum.	
	Safe for use in zone-2 areas.	
	6 head sets for these radio's.	

14 CALL OUT EQUIPMENT

	COMPANY's REQUIREMENTS	CONTRACTOR's OFFER
	At COMPANY's discretion, CONTRACTOR may be requested to provide the following equipment at 30 days notice : Refer to Section 3 (TABLE 13.1 (C) – CALL-OUT EQUIPMENT CHARGES)	

ADDENDUM I

TO APPENDIX I

ADDITIONAL REQUIREMENTS FOR

LAND DRILLING UNIT

ADDENDUM 1 TO APPENDIX 1 - ADDITIONAL REQUIREMENTS FOR LAND DRILLING UNIT

Land drilling unit - SUMMARY sheets

Item	Description	Age	Certification	
			yes/no	Expiry Date
Rig Number :				
Rig Owner :				
Year Built/Re-built				
Nominal vertical depth rating with 5 7/8" and 5" drill pipe				
Mast : Type: Gross Nominal Capacity (lbs): Dynamic Load Capacity (lbs) per number of lines (Provide Table):				
Drawworks : Type: Drive: Power Rating (HP): Max. designed hoisting capacity (lbs):				
Drilling line : Wire type : Wire diameter (inch): Nom.Breaking Strength :				
Auxiliary Brake : Type: Torque rating (daN):				
Substructure : Height (m): Clear height below rotary (m): Setback load (lbs): Rotary capacity (lbs): Max. Combined load (lbs):				

Item	Description	Age	Certification	
			yes/no	Expiry Date
Rotary Table : Type: Drive: Size(inch): Power Rating (HP): Rotary Load Capacity (lbs):				
Top Drive : Type: Manufacturer: Certified Capacity API 8(impTON): Continuous Drill Torque (lbf-f): Max Torque (Make/Break) (lbf-f): Max Speed (rpm): Temp. Rating (min/max) (°F): VFD system driving TD (Details):				
Hoisting Equipment : Crown Block : Type: Capacity (lbs): Travelling Block : Type: Capacity (lbs): Hook : Type: Capacity (lbs): Swivel : Type: Capacity (lbs):				
Rig Power : Number of Engines: Number of Generators Continuous generator power (HP): SCR system:				

Item	Description	Age	Certification	
			yes/no	Expiry Date
Mud Pumps : Type: Number of pumps: Power Rating (HP): Max. combined pump output (gpm): Max. pressure at max. flow rate (psi): Max. pump pressure (pis): Max. combined pump output @ max press (gpm):				
Mud System : Active tank capacity (bbl): Reserve tank capacity (bbl): Water/brine tank capacity (bbl): Specify all additional tanks (bbl):				

Item	Description	Age	Certification	
			yes/no	Expiry Date
Drill String :				
Drill Pipe:				
#1 Size (inch):				
Length (m):				
Weight (lb/ft):				
Grade:				
Connection:				
#2 Size (inch):				
Length (m):				
Weight (lb/ft):				
Grade:				
Connection:				
#3 Size (inch):				
Length (m):				
Weight (lb/ft):				
Grade:				
Connection:				
HW Drill Pipe:				
Size (inch):				
Length (m):				
Weight (lb/ft):				
Grade:				
Connection:				
Size (inch):				
Length (m):				
Weight (lb/ft):				
Grade:				
Connection:				
Drill Collars:				
Size (inch):				
Length (m):				
Weight (lb/ft):				
Connection:				
Size (inch):				
Length (m):				
Weight (lb/ft):				
Connection:				
Size (inch):				

Item	Description	Age	Certification	
			yes/no	Expiry Date
Blow out preventers : Specify all 3 BOP stacks. BOP #1 Annular preventers: Make : Size (inch): Pressure rating (psi): Ram type preventers: Make : Size (inch): Pressure rating (psi): . . BOP#2 . . Diverter . .				
Accumulator Unit : Total bottle capacity (gal): Pressure Op. Rating (psi):				
Choke Manifold : Make : Size (inch): Pressure rating (psi):				

LAND DRILLING UNIT – ADDITIONAL REQUIREMENTS

A. Mobile Camp

A.1 Company Requirements	Compliance **Yes**/**No**? If **No**, give details under list of non-compliance and provide **full details of the cost of making item compliant**
a) Mobile camp shall be designed and constructed in accordance with the standards and specifications herein	
b) Rig site offices shall be provided for : - COMPANY site representative - CONTRACTOR site representative - COMPANY assistant supervisor/CONTRACTOR drilling engineer - etc. To be completed as required and specified in 11.1.1	
c) COMPANY site representative office to be fitted with an Uninterrupted Power Supply system (UPS) and Power Conditioner.	
d) One-man room sleeping accommodation c/w toilet and shower facilities at rig site for COMPANY site representative, COMPANY assistant supervisor/CONTRACTOR drilling engineer. etc, as required.	
e) Rig site (15-20) man training/meeting room c/w TV and video equipment, overhead projector and screen, table, chairs, white board, notice board.	
f) WORKSITE prayer room for Muslim staff	N/A
g) Sufficient sleeping accommodation at camp site for CONTRACTOR'S PERSONNEL.	
h) Two-man/Four-man room sleeping accommodation c/w 1-2 toilet and shower facilities and four-man room sleeping accommodation for up to (60) COMPANY or COMPANY's OTHER CONTRACTOR(s) personnel at camp site.	
i) Kitchen, mess, recreation, laundry, ablution, dry and refrigerated food storage facilities.	
j) Clinic to be situated at Rig site and be furnished/equipped in accordance with COMPANY's HSE standards.	
k) Prayer room caravan, air conditioned, for Muslim staff.	N/A
l) Satellite T.V for COMPANY site representative and COMPANY assistant representative	

B	Camp Power Plant

B.1 Company Requirements	Compliance **Yes**/**No**? If **No**, give details under list of non-compliance and provide **full details of the cost of making item compliant**
a) Sufficient power available to supply camp at peak demand.	

	Contractor Specifications
B.1.1 Diesel engine plant	
Quantity :	
Size (each):	
Make :	
Type :	
Continuous power (kW/HP) :	
B.1.2 AC- Generator	
Quantity :	
Make :	
Type :	
Continuous power (kW/HP) :	
Output volts (Volts) :	

C	Safety Equipment

D. Miscellaneous Equipment

D Company Requirements	Compliance **Yes**/**No**? If **No**, give details under list of non-compliance and provide **full details of the cost of making item compliant**
a) Workshop Suitable for mechanic to carry out repair work.	
b) Stores Sufficient skid mounted stores and baskets for all CONTRACTOR furnished equipment, supplies and spare parts. Skids shall be designed to accommodate the maximum expected loading and shall be accessible from both sides.	
c) Guard hut Positioned at entrance to location.	
d) Waste lube oil tank, skid mounted with 5m³ capacity.	
e) Waste bin for scrap metal.	
f) Vehicles Forklift, rough terrain, for handling casing, tubing and drill pipe, reversing alarm.	
Sufficient 2/4WD estates or pick-ups for CONTRACTORS activities, diesel engines, with air conditioning and fitted out in accordance with COMPANY's safety specification for vehicles.	
Bus/ Crew Cab, diesel, with air conditioning and fitted out in accordance with COMPANY's safety specification for vehicles.	
One 4WD LWB estate car available for COMPANY site representative, diesel, with air conditioning and fitted out in accordance with COMPANY's safety specification for vehicles.	
One vehicle must be on site at all times that can accommodate and properly secure a stretcher inside the vehicle. If required, time to convert a vehicle to accommodate a stretcher shall take 20 minutes or less.	

E Rig Moving

E.1 Company Requirements	Compliance **Yes**/**No**? If **No**, give details under list of non-compliance and provide **full details of the cost of making item compliant**
a) Trailers shall be designed and constructed in accordance with COMPANY's transport specifications.	
b) Rig shall be capable of moving (i.e. rig down, move and rig up) between wells in at least the following times.	N/A

		Contractor Specifications
E.1.1 Rig/Camp Moving Times		
Rig		
Rig down	days	
10km move	days (daylight hours)	
50km move	days (daylight hours)	
100km move	days(daylight hours)	
500km move	days(daylight hours)	
Rig up	days	
Camp		
Rig down	days	
50km move	days(daylight hours)	
100km move	days(daylight hours)	
500km move	days(daylight hours)	
Rig up	days	
E.1.2 Rig/Camp Loads		
Rig Loads		Refer to Attachment 1
Camp Loads		Refer to Attachment 2

ATTACHMENT 1

RIG LOADS							
DESCRIPTION	**NO. OF LOADS**	**TRANSPORT REQUIRED**		**SKID OR TRAILER**	**WIDE LOAD**	**MAX. AXLE LOAD (TONS)**	**WEIGHT (TONS)**
		SHORT MOVE	**LONG MOVE**				
Mast and substructure							
Drawwork							
Power set							
Mud tanks							
Mix units							
Reserve tanks							
Water tanks							
Mud pumps							
Engines							
Diesel Storage Tanks							
Container							
BOP							
Drillstring							
Tools							
Accessories							
TOTAL TRANSPORT REQUIRED FOR CONVOY LOADS LISTED ABOVE							
No.of Prime Mover Loads							
No.of Oil Field Loads							
No.of Flat Trailer Loads							
No.of Self Driven Loads							
No.of Wide Loads							
Total No.of Loads							

Abbreviations

P/M = Prime Mover

O/F = Oil Field

F/T = Flat Trailer

S/D = Self Driven

T = Trailer Load

S = Skid Load

W -= Wide Load

ATTACHMENT 2

CAMP LOADS							
DESCRIPTION	**NO. OF LOADS**	**TRANSPORT REQUIRED**		**SKID OR TRAILER**	**WIDE LOAD**	**MAX. AXLE LOAD (TONS)**	**WEIGHT (TONS)**
		SHORT MOVE	**LONG MOVE**				
Main camp							
Camp power plant							
TOTAL TRANSPORT REQUIRED FOR CONVOY LOADS LISTED ABOVE							
No.of Oil Field Loads							
No.of Flat Trailer Loads							
No.of Self Driven Loads							
No.of Wide Loads							
Total No.of Loads							

Abbreviations

O/F = Oil Field

F/T = Flat Trailer

S/D = Self Driven

T = Trailer Load

S = Skid Load

W = Wide Load

SECTION IV

CONTRACT TEMPLATE AND OTHER REQUIRED DOCUMENTS

Please see attached Contract Template.

SECTION V

SCOPE DESCRIPTION

In addition to the information provided in Article 2.3 of Section 1 of this TENDER document please refer to the Contract Template Attached, in particular Section IV – Scope of Work.

SECTION VI

SOCIAL PERFORMANCE

Questions	Answers
Experience	
• Does your company have experience in community relations in Bolivia? Please attach a brief description indicating in which areas? If there existed Peasant Communities and / or Indigenous Territory? Which the current members of your social management team participated in some of these projects? What was their roles?	
• Does your company have experience handling conflict situations or social tensions during projects in Bolivia? Please attach a brief description indicating the role of your company in this situation? What contingency measures were implemented? Which of the current members of your social management team participated in the resolution of this situation? What were their role?	
• Does your company have experience in local hiring in project areas? Bolivia? Please attach a brief description indicating in which areas? If there existed Peasant Communities and / or Indigenous Territory? Which of the current members of your team participated in some of these projects? What were their role?	
Socio Environmental	
• • Explain briefly whether your company have included local population in environmental monitoring and / or contracted indigenous / peasant socio-environmental monitors? How does your company handle transparency and / or confidentiality regarding environmental aspects? In case you have not done so, how would you propose to involve the local population.	
• Explain briefly whether your company has implemented participatory monitoring with the local population? How did you structure it? In case you have not done so, how would you propose to implement this participatory monitoring.	
• Is there a corporate level commitment of your company to implement training with the communities of the area of influence on the care of the environment? Briefly describe what topics you cover in this program.	