



TENDER ENQUIRY # PROC-SERVICES/CB/DO-4694-A/2020

**HIRING OF OIL WELL DRILLING CONSULTANCY SERVICES FOR
NASHPA & MELA WELLS**

TERMS OF REFERENCE (TOR)

1. INTRODUCTION

Oil & Gas development Company Ltd (OGDCL) referred to as the Company is Pakistan's leading E&P Sector Company, committed to Exploration/ Development well drilling in the areas of various Oil & Gas Projects located in Pakistan. OGDCL is a professionally managed and leading Exploration & Production Company with its presence in four provinces of the country. The company is undergoing a drastic evaluation process with the vision to achieve excellence in its existing and upcoming wells drilling projects.

2. SCOPE OF WORK / PROJECT DELIVERABLES

OGDCL is operating in Nashpa & Mela D & PLs block for over a decade and have already drilled multiple wells in these two leases. Further wells are planned to be drilled in the future development /appraisal wells program. Due to complex geology of the structure many down hole complications are encountered during drilling wells in this area. In order to overcome these complications and reduce the NPT, the company intends to hire oil well Drilling Consultancy Services from internationally reputed well consultancy Services providers for future wells in said block.

The following Services will be provided by the Consultant:-

- i) Review previous wells drilling history Nashpa & Mela D&P leases and identify reasons for complications and provide best drilling practices for future wells to be drilled.
- ii) Review casing and liner design and propose improvements.
- iii) Review bits design and provide proposal for Drilling Bit selection for each hole size, optimized BHA, Bit hydraulic optimization and Casing / liner Running In Hole program.
- iv) Review mud program / performance and drilling challenges regards to hole stability issues, specify safe operating windows, provide remedial options for improving hole stability including, but not limited to, losses, gains, borehole breakouts, induced fractures, etc. and clearly identify areas for mud design improvements.

- v) Review cementing designs, perform gap analysis, identify areas for improvement including, but not limited to, use of stage tools, ECPs, loss control & bridging agents, and propose optimized slurry design for casings and liners to achieve zonal isolation across reservoirs as well as high pressure water zones.
- vi) Provide risk register for drilling and associated services for each section / formation. Provide clear recommendation of prevention and mitigation measures against these risks.
- vii) Identify, assess and control potential and actual drilling hazards such as abnormal pressures, complex geology or mud loss zones. Prepare detailed drilling and operating procedures for each hole interval. Study the pore pressure and frac gradient behavior in the previous wells
- viii) Create a well bore stability model / mechanical earth model through available data (subsurface info from drilling, logging, and coring, etc. data) from previously drilled wells. Provide clear mud weight windows based on this study.
- ix) Provide guidance on preventing differential sticking and propose measures for achieving borehole stability.
- x) Recommend future data set to be acquired for updating and refining the models to achieve drilling efficiency in future wells.
- xi) Prepare mechanical earth model based on the available data provided by OGDCL

3. MEETING & REPORTS

i)	Data identification & delivery to bidder	= 10 days
ii)	Selection of offset wells	= 05 days
iii)	Selection of planned wells	= 05 days
iv)	Study of offset wells data complications	= 30 days
v)	Report finalization	= 15 days
vi)	Presentation to OGDCL office Islamabad	= 02 days
vii)	Handling over the final report	= 08 days
	Total	= 75 days

Above report will include proposal for both Nashpa & Mela D&P leases.

Given the current Covid-19 pandemic most of the work is expected to be carried out from selected Contractor's base i.e. remotely/virtually. However, maximum two number of face to face meetings to be considered by bidders with preferably one at the beginning of the process and one at the time of presentation at OGDCL office. These two meetings are subject to travel restrictions and Covid-19 situation and if needed OGDCL will also schedule those to be done virtually.

Bidders are requested to provide the following information in technical proposal:

1. Profile of the firm.
2. Certification and financial credibility of the firm.
3. Client list with addresses / E-mail/Phone Nos.
4. History of wells where Bidder has provided similar services related to well design or its related improvements.
5. CVs of Professionals as part of the team to carry out this study
 - a. Geomechanics Expert
 - b. Petrophysicist
 - c. Geologist
 - d. Drilling Engineer
 - e. Mud Engineer
 - f. Cementing Engineer
6. It must be demonstrated by the bidder that professionals carrying out the work must have work experience on HPHT, deviated (> 15 deg) wells and are well versed with understanding compressive regime.
7. Detail of local/international office & strength of technical professionals working with the bidder in & out side of Pakistan.
8. Detail of software/program/simulator of well reputed International Company.

OGDCL will utilize Techno Commercial evaluation criteria for bid evaluation purposes. Table has been provided on next page showing the evaluation criteria. It is based on 70% technical weightage and 30% financial.

RATE FORMAT FOR COMMERCIAL/ FINANCIAL EVALUATION

S. No.	DESCRIPTION	AMOUNT IN US \$
1	Lump sum cost for oil well drilling consultancy services to complete assignments mentioned in TOR in SOR No. 2 & 3.	

- Evaluation will be carried out on lump sum contract basis.
- Duration of contract will be 6 months after award of contract.

TECHNICAL EVALUATION CRITERIA

Sr.#	Description	Max points	Point Allocation	Bidder
3.1	Bidder's continuous experience in Well Engineering & Well Design: a) Above 20 years experience (20 points) b) 16 to 20 years experience (15 points) c) 11 to 15 years experience (10 points) d) 05-10 years experience = (5 points) e) Less than 5 years experience (Zero point) Bidder to submit verified data e.g. client testimonial, letters etc. as a proof	20	a) >20 years=20, b) 16-20 years =15, c) 11-15 years =10, d) 05-10 years = 05 e) < 5 years = zero	
3.2	Bidder to provide Case studies of Well Engineering & Well Design Optimization Studies verified by the relevant customer including minimum 05 studies for HPHT wells as part of the response. (* In case of less than 05 studies for HPHT wells zero points will be allocated for 3.2	20	>20 Cases = 20, 10-20 Cases = 10, <10 = Zero (*)	
3.3	Bidder is capable to construct Mechanical Earth Models (MEM) through an Engineering software 10 verifiable case studies to be presented	10	(If YES=10, No=Zero)	
3.4	Experience & Capability of Team Members in the domain. a) Geomechanics b) Petrophysics c) Geology d) Drilling Engineering e) Mud Engineering / Cementing Engineering Bidder to submit CV of the personnel who have provided technical input in various domains of this project. Max 03 Marks will be assigned against each domain based on the number of years of experience. It is acceptable to have one person having experience in more than one domain.	15	>20 years = 15, 16-20 years = 10 10-15 years = 5 <10 years = Zero	
3.5	Bidder has worked for multiple customers (Preferably on Global level). Provide list of clients. OGDCL reserves the right to verify if needed.	10	> 10 clients = 10, 5-10 clients = 5, < 5 clients = Zero	
3.6	Well Engineering and Well Design carried out through a Drilling Engineering / Well Engineering software and associated results submitted for well design including casing design	10	(If YES=10, No=Zero)	
3.7	Bidder is registered with reputable global organizations e.g. IADC or SPE	5	(If YES=5, No=Zero)	
3.8	Standard Drilling Instructions / Operational Practices are submitted along with the submitted bid document for the concerned well design	5	(If YES=05, No=Zero)	
3.9	Bidder will provide two visits to its employees to OGDCL office as part of the technical submission process. This is subject to COVID-19 situation and OGDCL may waive the requirement if situation does not allow it.	5	(If YES=5, No=Zero)	
Total Points - Technical Evaluation Computation		100	-	
Minimum over all qualifying marks are 60 %. OGDCL reserves the right to verify any data provided herein. Please provide email and phone contact for such purpose. However, it is Bidder's responsibility to provide verified data. Note that any false information submitted even inadvertently will lead to disqualification of the bid.				

TECHNO-COMMERCIAL EVALUATION CRITERIA (70% Technical & 30% Financial)

Bid Score Evaluation

- a) Technical Bid Score will get a weightage of 70% and Financial Bid Score will get a weightage of 30% in Award Decision.
- b) The contract will be awarded to the bidder securing highest evaluated score.
- c) The total bid score would be determined as follows:

$$Score_i = \left(\frac{Cost_{lowest}}{Cost_i} \times 100 \right) \times 30\% + ((Technical\ Score\ as\ per\ Technical\ evaluation\ criteria) \times 70\%)$$

$Score_i$ = Evaluated Score of the Bidder i

$Cost_i$ = Evaluated Bid Price of the bidder i

$Cost_{lowest}$ = Lowest evaluated bid price amongst all responsive bids

$Technicl\ Score$ = Technical score of bidder as per Technical evaluation criteria

OTHER IMPORTANT INFORMATION

BIDDING METHOD:

Bids against this tender are invited on **'single stage Two envelop'**

AMOUNT OF BID BOND:

Bid Bond /Bid Security amounting to USD 45,000/- is to be attached / provided with the technical bid. Please see Master Set of Tender Document for further details.

MANDATORY REQUIREMENT

For online payment to vendors/contractors through (IBFT & LFT). Following info is required from your company: -

1. IBAN (INTERNATIONAL BANK ACCOUNT NUMBER 24 DIGITS).
2. VENDOR NAME AS PER TITLE OF THEIR BANK ACCOUNT.
3. NTN NO.
4. CONTACT # OF COMPANY CEO/OWNER (MOBILE & LANDLINE).
5. POSTAL ADDRESS.
6. BANK NAME.
7. BANK BRANCH NAME & ADDRESS.

The master set of tender documents (services) uploaded on OGDCL's website (www.ogdcl.com) is the integral part of this TOR.

Bidders are requested to read TOR & Master Set to Tender Documents (Services) and provide complete information / documents including tender annexures with the bid.