

TERMS OF REFERENCE (TOR)

FOR

**HIRING OF COIL TUBING, NITROGEN PUMPING,
NITROGEN, STIMULATION, THRU TUBING,
SMART COIL, INFLATEABLE BRIDGE PLUG
(PERMANENT/RETRIEVABLE) & ASSOCIATED
SERVICES**



**TENDER ENQUIRY # PROC-SERVICES/CB/PROD-
5158/2021**

TERMS OF REFERENCE / SCOPE OF WORK

1. SCOPE OF WORK:

GROUP "A": Hiring Coil tubing, Nitrogen pumping, Nitrogen, Stimulation/Pumping, Thru tubing & associated services for wells/fields/plants located in province of Punjab and KPK on rate running and call out basis over a period of three (03) years for estimated 130 Jobs.

GROUP "B": Hiring Coil tubing, Nitrogen pumping, Nitrogen, Stimulation/Pumping, Thru tubing & associated services for wells/fields/plants located in province of Sindh and Baluchistan on rate running and call out basis over a period of three (03) years for estimated 150 Jobs.

GROUP "C": Acquiring Smart coil and Inflatable bridge plug services (Retrievable/Permanent) for wells located all over Pakistan on rate running and call out basis over a period of three (03) years for estimated 15 jobs.

2. CRITERIA FOR PARTICIPATING IN BIDDING PROCESS:

- 2.1 **GROUP "A"**: To meet the equipment and crew requirement set forth in the technical evaluation criteria for Group "A".
- 2.2 **GROUP "B"**: To meet the equipment and crew requirement set forth in the technical evaluation criteria for Group "B".
- 2.3 **GROUP "C"**: To meet the equipment and crew requirement set forth in the technical evaluation criteria for Group "C".
- 2.4 **GROUP "A" & GROUP "C"**: To meet the equipment and crew requirement set forth in the technical evaluation criteria for Group "A" Plus Group "C".
- 2.5 **GROUP "B & GROUP "C"**: To meet the equipment and crew requirement set forth in the technical evaluation criteria for Group "B" Plus Group "C".
- 2.6 **GROUP "A" & GROUP "B"**: To meet the equipment and crew requirement set forth in the technical evaluation criteria for Group "A" Plus Group "B".
- 2.7 **GROUP "A", GROUP "B" & GROUP "C"**: To meet the equipment and crew requirement set forth in the technical evaluation criteria for Group "A" Plus Group "B" Plus Group "C".

3. General Terms and Conditions for All Groups:

- 3.1 Bidders quoting for multiple groups have to submit single technical bid along with soft copy clearly mentioning on front page the groups for which the bid is being submitted.
- 3.2 Financial proposal to be submitted separately for each group in separate envelopes. Combined financial bids for multiple groups will not be accepted.
- 3.3 The bidders will be evaluated separately for each group. Contract will be awarded to lowest evaluated bidder separately for each group.
- 3.4 If bidder participates for group A & B and is unable to justify and prove availability of crew and equipment as per requirement of each group independently, however, have enough crew to fulfil requirement of any one of the group only, OGDCL reserves the right to choose the group of the bidder. In this scenario, any grievance regarding opting of the group on behalf of the bidder will not be entertained.
- 3.5 All certificates, documents, proof of work etc. should be in English language; if not then they shall be accompanied with certified translation to English language.

- 3.6 Coil tubing should have coil life suitable for the subject application(s).
- 3.7 Coil tubing size requirement for all groups
 - i) 1.5" Coil size up to 5,500 M length along with each coil tubing unit and 01 additional 1.5" coil for backup.
 - ii) One set each for 1.75"(4,300 M) and 2" (4,000 M) coil sizes additionally required for utilization as per OGDCL requirement.
- 3.8 All HSEQ responsibility shall rest with the contractor for any third party equipment and personnel supplied by the contractor.
- 3.9 All the equipment should be in good working condition for the performance of the services, valid calibration certification and third party inspection certificates should be available with the bidder and may be checked any time during the contract period.
- 3.10 OGDCL shall not be liable to pay mobilization/demobilization charges, of any tools/equipment for bringing them to Pakistan that may be located elsewhere.
- 3.11 Contractor to provide check list of equipment, tools and other accessories wherever required by OGDCL before mobilizing to wellsite.
- 3.12 HSE / safety related equipment in working condition should be available during all jobs.
- 3.13 Bidder to arrange all safety equipment/services at their own for their personnel's whichever is required by them for working in extreme H₂S environment with no additional cost to OGDCL.
- 3.14 OGDCL shall not be accountable for any personnel injury during Mob/De-mob, loading, offloading and during the course of operations at well site. Health/accidental insurance of deployed crew will be the responsibility of the bidder.
- 3.15 Adequate back-up services / equipment should be available at well site. However, OGDCL will not pay for backup equipment.
- 3.16 All technical details for items specified in Section "Technical Evaluation Criteria" must be covered in the technical bid.
- 3.17 Any type of fluid including but not limited to mud, brine, stimulation slurry, sand plug slurry, cement plug slurry, gel, crude oil, diesel etc. can be pumped using service company coil tubing, stimulation/pumping package or pump unit.
- 3.18 Contractor may provide standard price list for additional material, equipment, consumables and tools required for the performance of the job. The same will be used as reference for obtaining Management approvals when required. No terms and conditions specified in contractor price list will be applicable unless agreed by the OGDCL.
- 3.19 The terms and conditions, if any, in the standard price list are to be superseded by the contract terms and conditions.
- 3.20 OGDCL reserves the right to procure or hire and contractor hereby agrees to provide any of the material, equipment, consumables and tools listed in the main contract or attached standard price list during the entire duration of the contract.
- 3.21 The equipment and crew have to work round the clock as per operational activities.
- 3.22 Bidders to attach unpriced financial bids in their technical bids.
- 3.23 Stimulation job will be performed either through bull heading or through coil tubing.
- 3.24 All equipment must be H₂S/CO₂ compliant.
- 3.25 Maximum notice period for each call-out is 3 days and transit time from company base to OGDCL location is 2 days.
- 3.26 Successful bidder will provide the same personnel mentioned in their bid to carryout jobs. In case the service company engages the personnel other than those mentioned in their bid, the educational and experience certificate must be provided before mobilization. In

case company fails to provide the necessary documentation, OGDCL reserves the right to cancel the personnel operation and standby charges for that particular job.

- 3.27 If required by OGDCL, the bidder will provide complete list of personnel to be deployed for the jobs along with CV's highlighting the details of the completed jobs, level of competence of key personnel that will be involved in design, supervision and implementation, and provide necessary support during the projects.
- 3.28 OGDCL reserves the right to ask bidder for the replacement of any of their personnel due to incompetence or misbehavior at contractor's expense.
- 3.29 If during job, it is ascertained that the service company is unable to perform / accomplish the job satisfactorily, OGDCL reserves the right to demobilize the service company.
- 3.30 Invoice for unsuccessful jobs i.e. due to mechanical failure of contractor's equipment or inefficiency of well site crew will not be paid.
- 3.31 Standard coil tubing BHA for Nitrogen kick Off, stimulation and other relevant jobs must include but not limited to Connector, DFCV, Hydraulic Disconnect, knuckle joint, Circulating Sub, MHA, Nozzle Various Types, Weight Bars, Riser, etc.
- 3.32 Pressure testing of all service company equipment is mandatory and should be carried out as per standard procedures before execution of any job including but not limited to Kick Off, stimulation, thru tubing etc. No additional cost for pressure testing of service company equipment is applicable.
- 3.33 Pump unit services includes 10K/15K pumper and surface piping.
- 3.34 Stimulation/Pumping equipment package includes 10K/15K pumpers, chemical transfer pump, centrifugal pumps, RMX/batch mixer/blender, Poly tank(s) for raw acid storage, 500 BBL storage tank(s), chemical truck/tanker, surface piping etc. and all other necessary equipment which ever required for successful stimulation/pumping job.
- 3.35 OGDCL has the sole discretion to utilize the services as whole or partial and service company have to provide the complete or partial services against each group as per OGDCL requirement.
- 3.36 Stimulation/Pumping package and pump unit services of Group "A" and "B" will be utilized along with smart coil services for respective zones.
- 3.37 Smart coil tubing services are being hired for jobs to be carried out all over Pakistan, therefore any third party/OGDCL services for stimulation, cementing and other services may be utilized along with smart coil.
- 3.38 Bidder must quote the cost of every item of financial bid format otherwise incomplete bid will not be entertained.
- 3.39 Evaluation tables are for evaluation purpose only, job design and acid recipes may change as per actual well conditions.
- 3.40 The number of jobs mentioned against each job model are estimated and for evaluation purpose only. Number of jobs against each model may vary as per actual requirement.
- 3.41 Chemical quantities, millage, number of days for operating and standby are for evaluation purpose only, payment will be made as per actual.
- 3.42 The number of jobs and cost/job as per financial bid is tentative, number of jobs, cost/job may increase or decrease as per actual operation. The approved amount against the contract will be collectively used for any number of jobs/wells.
- 3.43 Fuel, oil and lubricants/transport that may be required by service company for operational purpose will be charged to service company as per actual and the cost will be deducted from the invoice.
- 3.44 Rig up/Rig down and chemical mixing period before start of job will be paid as standby for both equipment and crew.

- 3.45 There will be no standby charges on the day of mobilization and demobilization for both equipment and crew including Nitrogen supply tanker and Acid supply tanker.
- 3.46 Standby charges for nitrogen supply tanker on the day of shifting of nitrogen to Nitrogen pumping unit are not admissible.
- 3.47 Standby charges for acid supply tanker on the day of shifting of acid to stimulation equipment are not admissible.
- 3.48 Daily operating and standby Rates shall be charged for full day and cannot be prorated.
- 3.49 OGDCL shall not be liable to pay for any leftover chemicals. Handling of all chemicals before and after the job will be the responsibility of the contractor.
- 3.50 Most of the stimulation jobs are carried out using OGDCL standard recipes based on solubility test (Solubility test to be provided free of cost by the contractor). For wells where standard recipes does not work, contractor will provide stimulation design based on XRD test results using industry reputed software. The price for additional chemicals (which are not covered in the contract) if required will be used from contractor's standard price list with 50% discount after approval from OGDCL management.
- 3.51 Lighting arrangement if required at well site is to be arranged by the bidder.
- 3.52 Daily operating charges for coil tubing equipment and crew if applicable would commence from the date / time coil tubing is lowered into the well bore and would cease when coil tubing is out of hole.
- 3.53 The coil tubing cumulative depth is defined as the accumulated downward movement of the coil tubing.
- 3.54 Partial availability of crew or equipment will not attract any charges. During traveling (mobilization/de-mobilization) phase, no operating/stand-by/rental charges will be admissible and only Mob/De-mob will be payable (if not mobilized by OGDCL).
- 3.55 Daily operating charges for Nitrogen pumping equipment/crew if applicable would commence when the Nitrogen cool down/pumping is started and would cease when nitrogen pumping is finished.
- 3.56 Daily operating charges for Pumping/Stimulation package, pump unit and respective crew would commence when pumping is started and would cease when the job is accomplished and pumping unit is switched off.
- 3.57 If, after mobilization / reporting at site, job is cancelled then only mobilization / demobilization charges for crew / equipment will be paid. No job cancellation charges are admissible. However, OGDCL will pay standby charges for both equipment and crew after 24 hrs. standby period at location i.e. no standby charges for first 24 hrs. of standby after reporting at well site for the case where job is not performed.
- 3.58 The standby rates of equipment and personnel must not exceed 50% of operating charges for equipment and crew.
- 3.59 Mob/De-mob. charges for equipment and crew shall not be applicable for well to well movement within the same field.
- 3.60 Mob/De-mob charges for equipment & crew will be calculated as per OGDCL distance chart for the locations covered in the chart and as per actual for the locations which are not covered in OGDCL location distance chart.
- 3.61 Mob/De-mob charges for equipment/crew will be as per actual i.e. the point from where the equipment/crew is mobilized or from respective base as per each group, whichever is lowest.
- 3.62 Boarding / lodging and laundry services would be provided free of cost by OGDCL to the service company crew while working in the field/Rig site.

- 3.63 During coil tubing operation, environment would be treated as corrosive if respective recorded values of CO₂ exceeds 5 % or H₂S exceeds 10 PPM by volume. Extra charges for corrosive environment to be incorporated including adjusted additional dosage of chemicals e.g. corrosion inhibitor, inhibitor aid, H₂S scavenger, H₂S-CO₂ Inhibitor etc. Extra charges for chemicals to combat corrosive environment is not to be paid by OGDCL in case of corrosive environment.
- 3.64 Cost of liquid nitrogen would be only paid for the volume shifted to nitrogen pumper. If available, OGDCL will provide nitrogen and contractor have no objection on using OGDCL provided nitrogen.
- 3.65 The lost in hole (LIH)/DBR charges for bottom hole tools (BHA) and actual damaged/LIH coil tubing length will be paid by OGDCL as per following criteria subject to the condition that there is no malfunctioning of service company equipment and loss/DBR is due to abnormal well conditions.
- 40 % of landed cost of equipment/tools which are less than three years old.
 - 30% of landed cost of equipment/tools which are equal to or more than three years old.
- 3.66 If required third party inspection/evaluation will be carried out as per predefined scope with mutual consent. Any additional cost for third party evaluation will be on bidders account.
- 3.67 Bidder must give “Clean acceptance certificate” of OGDCL terms and conditions and if exceptions are found, the bidder will withdraw all exceptions.
- 3.68 The scope of work for each group is tentative. OGDCL may increase or decrease the scope of work without any change in rates and terms & conditions.
- 3.69 OGDCL reserves the right to accept or reject any/all bid(s) or annul the entire bidding process at any time prior to award of contract without taking any responsibility of the affected bidder(s) and is not bound to justify the reasons to the affected bidder(s).
- 3.70 The existing contract for provision of same services will discontinue the day new contract is being signed against this tender. However, for jobs where service company was mobilized before signing of this contract will be paid as per previous contract.
- 3.71 Bidder to comply with OGDCL’s HSEQ policy.

4. Duration of Contract:

- 4.1 The duration of the contract for each group will be three (03) years starting from date of signing of contract.
- 4.2 The bid proposal/rates should remain valid unconditionally during the term of contract.
- 4.3 The **Rate Running Contract** (as and when required basis) will remain intact till the completion of jobs on wells where contractor is mobilized for the job during the contract period, however, any extension in term of contract will be subject to mutual consent of both the parties in writing.

5. Payment Terms:

- 5.1 The prices quoted by bidder in financial bid should be in US\$. The quoted price should be fixed/firm and are inclusive of all applicable taxes, duties and levies etc. except Provincial Sales Tax/ICT Tax on services.
- 5.2 The payment will be made in 100% Pak rupees against verified invoices at official exchange rate prevalent on the date of payment.
- (This clause will prevail instead of Master Tender document “ITB” clause # 07 ‘PAYMENT’).**

6. Bid Bond:

For each Group, following amount of Bid bond/Bid security is required to be attached/provided with technical bid.

Group-A: USD 63,000/- (US Dollars Sixty Three Thousand only)

Group-B: USD 63,000/- (US Dollars Sixty Three Thousand only)

Group-C: USD 13,000/- (US Dollars Thirteen thousand only)

7. Bidding Method:

- 7.1 Bids against this tender are invited on “**Single Stage Two Envelope Bidding Procedure**” through press tendering.
- 7.2 The bidders shall submit one original technical and one original financial bid along with soft copies of technical bids sealed in their respective envelopes.

Note: The Master Set of tender documents for services uploaded on OGDCL website (www.ogdcl.com) is the integral part of this TOR.

TECHNICAL EVALUATION

1. Only technically qualified bidder(s) will be considered for financial evaluation.
2. OGDCL reserves the right to visit bidder’s operational base, check inventory and verify the information provided in the bid at any stage during the evaluation of the bids.
3. All the bidders must fulfill the below mentioned technical requirements for technical qualification. In case they do not fulfill any of the below mentioned technical criteria their bid will not be acceptable. Even single “No” in below mentioned tables for technical evaluation of Group “A”, “B” and Group “C” lead to disqualification for particular group. All the bidders are required to submit the below tables as per the given pattern. Also mention the current location of items where applicable.
4. For bidders who have not provided similar services to OGDCL/PPEPCA in the past must fulfill the following criteria for the evaluation/confirmation of their technical capabilities.
 - i) Minimum 05 years’ international experience of providing coil tubing, stimulation, smart coil, thru tubing and allied services along with documentary evidence.
 - ii) Establish complete equipment base setup, shift all equipment and crew as mentioned in technical evaluation criteria for each group to Pakistan and start providing services within 45 days after signing of contract with OGDCL. Failing to do so will result in termination of contract and confiscation of bank guarantee.
5. For the bidders who have provided/are providing similar services to OGDCL/PPEPCA (Petroleum Exploration and Production Companies Association) must full fill the following criteria to become eligible for technical evaluation.
 - i) Provide documentary evidence of satisfactory performance/experience.
 - ii) All equipment and crew to be available in Pakistan at the time of bidding except those mentioned otherwise.
 - iii) The bidder to provide commitment to arrange third package within 45 days after signing of contract for nitrogen kick off and stimulation jobs on as and when required basis against group “A” and group “B”.

GROUP "A": PROVISION OF COIL TUBING, NITROGEN PUMPING, NITROGEN, STIMULATION/PUMPING, THRU TUBING & ASSOCIATED SERVICES FOR PUNJAB & KPK:

1. EQUIPMENT

| Sr. | DESCRIPTION | AVAILABILITY |
|-----------------------------|---|--------------|
| COIL TUBING SERVICES | | |
| 1 | COIL TUBING UNIT/ REEL/INJECTOR HEAD | |
| i | Availability of minimum two (2) coil tubing units with capacity for coil sizes 1.5" (5,500 M), 1.75" (4,300 M) and 2" (+4,000 M) complete with all valid certificates. | Yes/No |
| ii | Commitment to arrange and provide 3 rd coil tubing unit whenever required by OGDCL within 45 days of signing of contract. | Yes/No |
| iii | The coil tubing units must be equipped with latest real time monitoring software (fatigue computation and data acquisition), with self-aligning sliding goose neck, separate power pack drive mechanism and injector heads. | Yes/No |
| iv | Availability of injector heads with pulling capacity of 60K lbs. | Yes/No |
| v | Availability of injector heads with pulling capacity of 80K lbs. | Yes/No |
| 2 | PRESSURE CONTROL EQUIPMENT (MINIMUM 02 BOPS WITH EACH UNIT) | |
| i | WCE remote control panel (To be operated from control cabin). | Yes/No |
| ii | 10K Psi rating WCE (CAT-I), compatible to H ₂ S environment. | Yes/No |
| iii | 10K Psi rating WCE (CAT-II), compatible to H ₂ S environment. | Yes/No |
| iv | 15K Psi rating WCE (CAT-III), compatible to H ₂ S environment. | Yes/No |
| 3 | Adapters/X-overs for coil tubing rig-up as per standard tree top/drill pipe connections without any financial impact. | Yes/No |
| 4 | Availability of minimum following Thru tubing milling/fishing tools with backup for completion sizes 2-3/8" to 7". (Can be arranged and made available in Pakistan within 45 Days after signing of contract either OWN or through third Party contracting). | Yes/No |
| i | Dimple Connector both internal and external | Yes/No |
| ii | Up to 2-1/8" Size Down hole filter | Yes/No |
| iii | Up to 2-1/8" Size Thru tubing motor | Yes/No |
| iv | Hydraulic tubing cutting tool | Yes/No |
| v | Up to 2-1/8" Size Thru tubing weight bar | Yes/No |
| vi | Up to 2-1/8" Flat bottom mill | Yes/No |
| vii | Up to 2-1/8" Tapered mill | Yes/No |
| viii | Up to 2-1/8" Junk mill | Yes/No |
| ix | Up to 2-1/8" Impact hammer | Yes/No |
| x | Up to 2-1/8" Accelerator | Yes/No |
| xi | Up to 2-1/8" Jar | Yes/No |
| xii | Centralizer | Yes/No |
| xiii | Pull test sub | Yes/No |
| xiv | Surface filter | Yes/No |
| xv | Debris Filter | Yes/No |
| xvi | Thru Tubing Screen Filter | Yes/No |
| 5 | High speed rotating & jetting tools at least 02 Nos. | Yes/No |

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|-------------------------------------|--|--------|
| 6 | Data acquisition system at least 02 Nos. | Yes/No |
| 7 | Abbrasi/Abbrasive or equivalent tubing cutting/perforation tool. (Can be arranged and made available in Pakistan within 45 Days after signing of contract either OWN or through third Party contracting) | |
| STIMULATION/PUMPING SERVICES | | |
| 1 | PUMPING UNITS 10 K/15 K PSI WP SINGLE/TWIN PUMPING UNIT | |
| i | Minimum 02 pumping units having minimum 350 hp -500 hp. | Yes/No |
| ii | Hook up piping 15,000 Psi rating for performing jobs simultaneously at 02 OGDCL wells immediately after signing of contract | Yes/No |
| iii | Commitment to arrange and provide 3 rd complete stimulation/pumping package along with crew within 45 Days after signing of contract with OGDCL. | Yes/No |
| 2 | MIXING/TANKS WITH HOOK UP PIPING | |
| i | 50 bbl batch mixer at least 03 Nos. | Yes/No |
| ii | 100 bbl Paddle batch mixer at least 02 Nos. | Yes/No |
| iii | 500 bbl storage tanks at least 03 Nos. | Yes/No |
| iv | 250-300 bbl storage tanks at least 02 Nos. | Yes/No |
| 3 | STIMULATION RECIPES AND STIMULATION SOFTWARE | |
| i | Stimulation recipes in line with ITB | Yes/No |
| ii | Stimulation software (To be arranged within 45 days after signing of contract with OGDCL and commitment for availability in Pakistan throughout the contract validity) | Yes/No |
| NITROGEN PUMPING SERVICES | | |
| 1 | Minimum 02 nitrogen pumping units with hook up. | Yes/No |
| 2 | Minimum 02 liquid nitrogen cryogenic storage tank. Minimum 2,000 gals capacity. | Yes/No |
| 3 | Commitment to arrange and provide 3 rd complete nitrogen pumping package along with crew within 45 days after signing of contract. | Yes/No |
| ZONE-II CERTIFICATION | | |
| 1 | At least one coil tubing unit, pumping and nitrogen equipment are Zone II certified. The bidder to arrange Zone II certification of the remaining units within 45 days of signing of contract failing to do so will result in termination of contract and confiscation of PBG. | Yes/No |
| BASE SETUP | | |
| 1 | Equipment base setup in Punjab/Islamabad to be established within 45 days after issuance of LOI. Equipment base set up must have maintenance shops, compliant pressure test bay, pressure control equipment workshop, chemical storage, spares storage warehouse, temperature control room for oxidizers etc. | Yes/No |

2. CREW

| Sr. | QUALIFICATION/EXPERIENCE OF CREW MEMBERS | AVAILABILITY |
|-----|--|--------------|
| 1 | <p>CTU ENGINEERS / SPECIALIST (AT LEAST 01 ENGINEER FOR EACH JOB) Graduate Engineer with minimum five (5) years of exclusive experience of planning, designing and executing coil tubing operations along with relevant training(s) and certified courses etc. Must have designed and performed following jobs.</p> <ul style="list-style-type: none"> • Nitrogen Kick Off = 100 Jobs • Stimulation = 100 Jobs • Thru tubing jobs = 50 Jobs. | Yes/No |
| 2 | <p>THRU TUBING ENGINEERS (AT LEAST 2 ENGINEER FOR EACH JOB) Graduate Engineer with minimum five (5) years of exclusive experience of performing thru tubing jobs with CTU along with relevant training(s) and certified courses etc.</p> <ul style="list-style-type: none"> • Must have designed and performed 50 thru tubing jobs. | Yes/No |
| 3 | <p>STIMULATION ENGINEERS / SPECIALIST (AT LEAST 01 ENGINEER FOR EACH JOB) Graduate Engineer with minimum five (5) years of exclusive experience of planning, designing and executing stimulation Jobs along with relevant training(s) and certified courses etc. Must have designed and Performed following jobs</p> <ul style="list-style-type: none"> • Sand Stone Stimulation =100 Jobs • Lime Stone Stimulation =100 Jobs • HPHT Stimulation = 20 Jobs. | Yes/No |
| 4 | <p>SUPERVISOR (AT LEAST 1 SUPERVISORS FOR EACH CATEGORY/JOB) Technical diploma holder (3 Years) with minimum five (05) years of exclusive experience of planning, designing and executing jobs along with relevant training(s) and certified courses etc. CTU supervisors must have performed following jobs.</p> <ul style="list-style-type: none"> • Nitrogen Kick Off = 100 Jobs • Stimulation = 100 Jobs • Thru tubing jobs= 50 Jobs. <p>Stimulation supervisors must have performed following jobs.</p> <ul style="list-style-type: none"> • Sand Stone Stimulation =100 Jobs • Lime Stone Stimulation =100 Jobs • HPHT Stimulation = 20 Jobs. | Yes/No |
| 5 | <p>OPERATOR (AT LEAST 02 OERATORS FOR EACH CATEGORY/JOB) Technical diploma holder/ matric with at least five (05) years of relevant experience of executing jobs along with relevant certification and training courses etc. CTU Operators must have performed following jobs.</p> <ul style="list-style-type: none"> • Nitrogen Kick Off = 100 Jobs • Stimulation = 100 Jobs • Thru tubing jobs= 50 Jobs. <p>Stimulation Operators must have performed following jobs</p> <ul style="list-style-type: none"> • Sand Stone Stimulation =100 Jobs • Lime Stone Stimulation =100 Jobs • HPHT Stimulation = 20 Jobs. | Yes/No |
| 6 | <p>Commitment to provide additional manpower along with additional equipment for carrying out acid stimulation, nitrogen kick off and thru tubing jobs simultaneously on Three(03) OGDCL wells within 45 days after signing of contract.</p> | Yes/No |

3. COMPANY PROFILE

| Sr. | DESCRIPTION | AVAILABILITY |
|----------|--|--------------|
| 1 | BIDDER'S HISTORY (ATTACH PROOF) | |
| | Registered company in Pakistan or elsewhere for providing coil tubing and stimulation services. Minimum registration period = 03 Years. | Yes/No |
| 2 | BIDDER'S CAPABILITIES | |
| i | Capability in terms of equipment and crew to perform job on deep wells (+5,200 meters) with H ₂ S environment simultaneously on 02 OGDCL wells with commitment to enhance capabilities to perform jobs simultaneously on three(03) OGDCL wells within 45 days of signing of contract. | Yes/No |
| ii | Capability in terms of equipment and crew to provide stimulation solutions for sandstone & limestone. | Yes/No |
| iii | Capability to handle job volumes up to 2,000 bbl | Yes/No |
| iv | Providing Lab & XRD facilities, or commitment thereof for provision of required tests from reputed Laboratory anywhere around the globe. | Yes/No |
| v | Placing sand plug, cement plug thru coil tubing. | Yes/No |
| vi | Thru tubing services | Yes/No |
| vii | Pumping & handling more than 20,000 gallons liquid nitrogen | Yes/No |
| viii | Bidder, to provide standard operating procedure (SOPs) for coil tubing, nitrogen kickoff, well clean out, thru tubing jobs along with technical manual of pressure control equipment (PCE), coil tubing unit and all types of thru tubing tools are also to be provided by the bidder. | Yes/No |
| ix | Bidder, to provide published pressure control manual for standard coil tubing operations & stimulation services. | Yes/No |
| x | Bidder, to provide free of cost at least 06 days basic and advanced coil tubing and stimulation training to two (02) OGDCL Engineers every year. Share a structured training program c/w list of courses and location where training will be performed. | Yes/No |
| 3 | BIDDER'S FINANCIAL STATUS | |
| | Bidder must be financially sound enough to execute the contract with OGDCL. Provide audited financial statement for last three years to confirm financial status. | Yes/No |

GROUP "B": PROVISION OF COIL TUBING, NITROGEN PUMPING, NITROGEN, STIMULATION/PUMPING, THRU TUBING & ASSOCIATED SERVICES FOR SINDH & BALUCHISTAN PROVINCE:

1. EQUIPMENT

| Sr. | DESCRIPTION | AVAILABILITY |
|-----------------------------|--|--------------|
| COIL TUBING SERVICES | | |
| 1 | COIL TUBING UNIT/ REEL/INJECTOR HEAD | |
| i | Availability of minimum two (2) coil tubing units with capacity for coil sizes 1.5" (5,500 M), 1.75" (4,300 M) and 2" (±4,000 M) complete with all valid certificates. | Yes/No |

| | | |
|-------------------------------------|---|--------|
| ii | Commitment to arrange and provide 3 rd coil tubing unit whenever required by OGDCL within 45 days of signing of contract. | Yes/No |
| iii | The coil tubing units must be equipped with latest real time monitoring software (fatigue computation and data acquisition), with self-aligning sliding goose neck, separate power pack drive mechanism and injector heads. | Yes/No |
| iv | Availability of injector heads with pulling capacity of 60K lbs. | Yes/No |
| v | Availability of injector heads with pulling capacity of 80K lbs. | Yes/No |
| 2 | PRESSURE CONTROL EQUIPMENT (MINIMUM 02 BOPS WITH EACH UNIT) | |
| i | WCE remote control panel (To be operated from control cabin). | Yes/No |
| ii | 10K Psi rating WCE (CAT-I), compatible to H ₂ S environment. | Yes/No |
| iii | 10K Psi rating WCE (CAT-II), compatible to H ₂ S environment. | Yes/No |
| iv | 15K Psi rating WCE (CAT-III), compatible to H ₂ S environment. | Yes/No |
| 3 | Adapters/X-overs for coil tubing rig-up as per standard tree top/drill pipe connections without any financial impact. | Yes/No |
| 4 | Availability of minimum following Thru tubing milling/fishing tools with backup for completion sizes 2-3/8" to 7". (Can be arranged and made available in Pakistan within 45 Days after signing of contract either OWN or through third Party contracting). | Yes/No |
| i | Dimple Connector both internal and external | Yes/No |
| ii | Up to 2-1/8" Size Down hole filter | Yes/No |
| iii | Up to 2-1/8" Size Thru tubing motor | Yes/No |
| iv | Hydraulic tubing cutting tool | Yes/No |
| v | High Pressure Jetting / Rotating tool | Yes/No |
| vi | Up to 2-1/8" Size Thru tubing weight bar | Yes/No |
| vii | Up to 2-1/8" Flat bottom mill | Yes/No |
| viii | Up to 2-1/8" Tapered mill | Yes/No |
| ix | Up to 2-1/8" Junk mill | Yes/No |
| x | Up to 2-1/8" Impact hammer | Yes/No |
| xi | Up to 2-1/8" Accelerator | Yes/No |
| xii | Up to 2-1/8" Jar | Yes/No |
| xiii | Centralizer | Yes/No |
| xiv | Pull test sub | Yes/No |
| xv | Surface filter | Yes/No |
| xvi | Debris Filter | Yes/No |
| xvii | Thru Tubing Screen Filter | Yes/No |
| 5 | High speed rotating & jetting tools at least 02 Nos. | Yes/No |
| 6 | Data acquisition system at least 02 Nos. | Yes/No |
| 7 | Abbrasi/Abbrasive or equivalent tubing cutting/perforation tool. (Can be arranged and made available in Pakistan within 45 Days after signing of contract either OWN or through third Party contracting) | |
| STIMULATION/PUMPING SERVICES | | |
| 1 | PUMPING UNITS 10 K/15 K PSI WP SINGLE/TWIN PUMPING UNIT | |
| i | Minimum 02 pumping units having minimum 350 hp -500 hp. | Yes/No |

| | | |
|----------------------------------|---|--------|
| ii | Hook up piping 15,000 Psi rating for performing jobs simultaneously at 02 OGDCL wells immediately after signing of contract | Yes/No |
| iii | Commitment to arrange and provide 3 rd complete stimulation/pumping package along with crew within 45 Days after signing of contract with OGDCL. | Yes/No |
| 2 | MIXING/TANKS WITH HOOK UP PIPING | |
| i | 50 bbl batch mixer at least 03 Nos. | Yes/No |
| ii | 100 bbl Paddle batch mixer at least 02 Nos. | Yes/No |
| iii | 500 bbl storage tanks at least 03 Nos. | Yes/No |
| iv | 250-300 bbl storage tanks at least 02 Nos. | Yes/No |
| 3 | STIMULATION RECIPES AND STIMULATION SOFTWARE | |
| i | Stimulation recipes in line with ITB | Yes/No |
| ii | Stimulation software (To be arranged within 45 days after signing of contract with OGDCL and commitment for availability in Pakistan throughout the contract validity) | Yes/No |
| NITROGEN PUMPING SERVICES | | |
| 1 | Minimum 02 nitrogen pumping units with hook up. | Yes/No |
| 2 | Minimum 02 liquid nitrogen cryogenic storage tank. Minimum 2,000 gals capacity. | Yes/No |
| 3 | Commitment to arrange and provide 3 rd complete nitrogen pumping package along with crew within 45 days after signing of contract. | Yes/No |
| ZONE-II CERTIFICATION | | |
| 1 | At least one coil tubing unit, pumping and nitrogen equipment are Zone II certified. The bidder to arrange Zone II certification of the remaining units within 45 days of signing of contract failing to do so will result in termination of contract and confiscation of PBG. | Yes/No |
| BASE SETUP | | |
| 1 | Equipment base setup in Sindh to be established within 45 days after issuance of LOI. Equipment base set up must have maintenance shops, compliant pressure test bay, pressure control equipment workshop, chemical storage, spares storage warehouse, temperature control room for oxidizers etc. | Yes/No |

2. CREW

| Sr. | QUALIFICATION/EXPERIENCE OF CREW MEMBERS | AVAILABILITY |
|------------|--|---------------------|
| 1 | CTU ENGINEERS / SPECIALIST (AT LEAST 01 ENGINEER FOR EACH JOB) Graduate Engineer with minimum five (5) years of exclusive experience of planning, designing and executing coil tubing operations along with relevant training(s) and certified courses etc. Must have designed and performed following jobs. <ul style="list-style-type: none"> ● Nitrogen Kick Off = 100 Jobs ● Stimulation = 100 Jobs ● Thru tubing jobs = 50 Jobs. | Yes/No |

| | | |
|---|--|--------|
| 2 | <p>THRU TUBING ENGINEERS (AT LEAST 2 ENGINEER FOR EACH JOB) Graduate Engineer with minimum five (5) years of exclusive experience of performing thru tubing jobs with CTU along with relevant training(s) and certified courses etc.</p> <ul style="list-style-type: none"> • Must have designed and performed 50 thru tubing jobs. | Yes/No |
| 3 | <p>STIMULATION ENGINEERS / SPECIALIST (AT LEAST 01 ENGINEER FOR EACH JOB) Graduate Engineer with minimum five (5) years of exclusive experience of planning, designing and executing stimulation Jobs along with relevant training(s) and certified courses etc.</p> <p>Must have designed and Performed following jobs</p> <ul style="list-style-type: none"> • Sand Stone Stimulation =100 Jobs • Lime Stone Stimulation =100 Jobs • HPHT Stimulation = 20 Jobs. | Yes/No |
| 4 | <p>SUPERVISOR (AT LEAST 1 SUPERVISORS FOR EACH CATEGORY/JOB) Technical diploma holder (3 Years) with minimum of five (05) years of exclusive experience of planning, designing and executing jobs along with relevant training(s) and certified courses etc.</p> <p>CTU supervisors must have performed following jobs.</p> <ul style="list-style-type: none"> • Nitrogen Kick Off = 100 Jobs • Stimulation = 100 Jobs • Thru tubing jobs= 50 Jobs. <p>Stimulation supervisors must have performed following jobs.</p> <ul style="list-style-type: none"> • Sand Stone Stimulation =100 Jobs • Lime Stone Stimulation =100 Jobs • HPHT Stimulation = 20 Jobs. | Yes/No |
| 5 | <p>OPERATOR (AT LEAST 02 OPERATORS FOR EACH CATEGORY/JOB) Technical diploma holder/ matric with at least five (05) years of relevant experience of executing jobs along with relevant certification and training courses etc.</p> <p>CTU Operators must have performed following jobs.</p> <ul style="list-style-type: none"> • Nitrogen Kick Off = 100 Jobs • Stimulation = 100 Jobs • Thru tubing jobs= 50 Jobs. <p>Stimulation Operators must have performed following jobs</p> <ul style="list-style-type: none"> • Sand Stone Stimulation =100 Jobs • Lime Stone Stimulation =100 Jobs • HPHT Stimulation = 20 Jobs. | Yes/No |
| 6 | <p>Commitment to provide additional manpower with additional equipment for carrying out acid stimulation, nitrogen kick off and thru tubing jobs simultaneously on Three(03) OGDCL wells within 45 days after signing of contract.</p> | Yes/No |

3. COMPANY PROFILE

| Sr. | DESCRIPTION | AVAILABILITY |
|-----|--|--------------|
| 1 | BIDDER'S HISTORY (ATTACH PROOF) | |
| | Registered company in Pakistan or elsewhere for providing coil tubing and stimulation services. Minimum registration period = 03 Years. | Yes/No |
| 2 | BIDDER'S CAPABILITIES | |
| i | Capability in terms of equipment and crew to perform job on deep wells (+5,200 meters) with H2S environment simultaneously on 02 OGDCL wells | Yes/No |

| | | |
|----------|---|--------|
| | with commitment to enhance capabilities to perform jobs simultaneously on three(03) OGDCL wells within 45 days of signing of contract. | |
| ii | Capability in terms of equipment and crew to provide stimulation solutions for sandstone & limestone. | Yes/No |
| iii | Capability to handle job volumes up to 2,000 bbl | Yes/No |
| iv | Providing Lab & XRD facilities, or commitment thereof for provision of required tests from reputed Laboratory anywhere around the globe. | Yes/No |
| v | Placing sand Plug, cement plug thru coil tubing. | Yes/No |
| vi | Thru tubing services | Yes/No |
| vii | Pumping & handling more than 20,000 gallons liquid nitrogen. | Yes/No |
| viii | Bidder, to provide standard operating procedure (SOPs) for standard coil tubing, nitrogen kickoff, well clean out, thru tubing jobs along with technical manual of pressure control equipment (PCE), coil tubing unit and all types of thru tubing tools are also to be provided by the bidder. | Yes/No |
| ix | Bidder, to provide published pressure control manual for standard coil tubing operations & stimulation services. | Yes/No |
| x | Bidder, to provide free of cost at least 06 days basic and advanced coil tubing and stimulation training to two (02) OGDCL Engineers every year. Share a structured training program c/w list of courses and location where training will be performed. | Yes/No |
| 3 | BIDDER'S FINANCIAL STATUS | |
| | Bidder must be financially sound enough to execute the contract with OGDCL. Provide audited financial statement for last three years to confirm financial status. | Yes/No |

GROUP "C": PROVISION OF SMART COIL AND INFLATABLE BRIDGE PLUG SERVICES (RETRIEVABLE/PERMANENT) ALL OVER PAKISTAN

1. EQUIPMENT

| Sr. | DESCRIPTION | AVAILABILITY |
|-----------------------------------|--|--------------|
| COIL TUBING SERVICES | | |
| 1 | SMART COIL TUBING UNIT/ REEL/INJECTOR HEAD | |
| i | Availability of at least one (01) coil tubing unit with capacity for coil sizes 1.5"(5,500 M), 1.75"(4,300 M) and 2" (4,000 M) complete with all valid certificates available anywhere around the globe at the time of bidding. | Yes/No |
| ii | Commitment to arrange smart coil services in Pakistan within 45 Days after signing of contract. | Yes/No |
| iii | The coil tubing units must be equipped with latest real time monitoring software (fatigue computation and data acquisition), with self-aligning sliding Goose neck, separate power pack drive mechanism and injector heads. | Yes/No |
| APPLICATIONS OF SMART COIL | | |
| | OGDCL require following jobs to be performed through Smart coil, therefore, contractor to provide necessary connection including but not limited to logging head to perform jobs along with OGDCL/third party | |

| | | |
|---|--|--------|
| | services. Bidder to confirm that Smart coil provided to OGDCL is capable of performing below mentioned jobs in true letter and spirit. | |
| i | Wireline logging e.g CBL/CCL, Gamma Ray/Neutron logs, caliper etc. | Yes/No |
| ii | Temperature log | Yes/No |
| iii | Perforations | Yes/No |
| iv | Casing/tubing cutting | Yes/No |
| v | Packer/bridge plug setting | Yes/No |
| vi | Cement retainer setting | Yes/No |
| vii | Convey any tool through coil tubing and operate via wire line | Yes/No |
| viii | Fishing | Yes/No |
| ix | Plugs setting and retrieval | Yes/No |
| x | Well logging (Real time & memory) | Yes/No |
| xi | Production logging both qualitative & quantitate | Yes/No |
| xii | Leak identification | Yes/No |
| xiii | Flow path identification | Yes/No |
| xiv | Real time bottom hole parameters | Yes/No |
| xv | Bottom hole pressure and temperature survey during kick off | Yes/No |
| xvi | Setting and retrieving tubing patch | Yes/No |
| 2 | ADDITIONAL OPTIONAL FEATURES OF SMART COIL | |
| OGDCL may utilize the following additional optional features of smart coil if available with provided smart coil of the bidder. | | |
| i | Capability of delivering live downhole data (differential pressures across CT, Temperature, Depth Correlation) during Nitrogen Kick-off and Stimulation including temperature profiling. | |
| ii | Ability to pump HCl up to 15% to conduct matrix stimulation, acid wash and cleanout services and provide real time stimulation/diversion analysis and effectiveness. | |
| iii | Ability to pump aromatic solvents to conduct cleanout services and provide real time analysis | |
| 3 | PRESSURE CONTROL EQUIPMENT | |
| i | WCE Remote control panel (To be operated from control cabin) | Yes/No |
| ii | 10K Psi rating WCE (CAT-I), compatible to H ₂ S environment | Yes/No |
| iii | 10K Psi rating WCE (CAT-II), compatible to H ₂ S environment | Yes/No |
| iv | 15K Psi rating WCE (CAT-III), compatible to H ₂ S environment | Yes/No |
| 3 | Adapters/X-overs for coil tubing rig-up as per standard tree top/drill pipe connections without any financial impact | Yes/No |
| 4 | Provision of inflatable retrievable/permanent Bridge plugs. (Commitment to Provide within 15 Days of mobilization notice at well site) | Yes/No |
| 5 | Data acquisition system | Yes/No |
| PUMP UNIT SERVICES | | |
| 1 | PUMP UNIT 10 K/15 K PSI WP SINGLE/TWIN PUMPING UNIT | Yes/No |
| i | At least 01 pump unit having minimum 350 Hp -500 Hp. | Yes/No |
| ii | Hook up piping 15,000 Psi rating for pressure testing. | Yes/No |

| | | |
|----------|---|--------|
| 2 | ZONE-II CERTIFICATION | |
| | Coil tubing unit and pump unit are Zone-II certified. | Yes/No |
| 3 | Fully operational workshop and equipment base set up anywhere in Pakistan with redressing facility and should have adequate backup tools. | Yes/No |

2. CREW

| Sr. | QUALIFICATION/EXPERIENCE OF CREW MEMBERS | AVAILABILITY |
|------------|---|---------------------|
| 1 | CTU ENGINEERS / SPECIALIST (AT LEAST 1 ENGINEER) Petroleum or Mechanical Engineer with minimum five (5) years of exclusive experience of planning, designing and executing Coil Tubing operations along with relevant training(s) and certified courses etc. Must have designed and performed 100 coil tubing jobs. | Yes/No |
| 2 | SMART COIL OPERATOR (AT LEAST 02) Technical diploma holder with minimum of five (05) years' experience of Smart coil operations. Must have performed 10 jobs with smart coil. | Yes/No |
| 3 | OPERATOR (AT LEAST 02 OPERATORS FOR EACH CATEGORY) Technical diploma holder/ matric with at least five (05) years relevant experience of executing coil tubing and stimulation jobs, along with relevant certification and training courses etc. <ul style="list-style-type: none"> • CTU Operator must have Performed 100 jobs with CTU. • Pumping Operator must have Performed 100 Jobs with pumping equipment. | Yes/No |

3. COMPANY PROFILE

| Sr. | DESCRIPTION | AVAILABILITY |
|------------|---|---------------------|
| 1 | BIDDER'S HISTORY (ATTACH PROOF) | |
| | Company registered in Pakistan or elsewhere for providing coil tubing and stimulation services. Minimum registration period = 03 Years. | Yes/No |
| 2 | BIDDER'S CAPABILITIES | |
| i | Bidder have performed at least 10 job with smart coil around the globe. | Yes/No |
| ii | Have pump unit with hook up connection. | Yes/No |
| iii | Bidder, to provide standard operating procedure (SOPs) for coil tubing, Smart coil jobs along with Technical manual of pressure control equipment (PCE). | Yes/No |
| iv | Bidder, to provide published pressure control manual for standard coil tubing operations. | Yes/No |
| v | Bidder, to provide free of cost at least 06 days basic and advanced coil tubing and stimulation training to two (02) OGDCL Engineers every year. Share a structured training program c/w list of courses and location where training will be performed. | Yes/No |
| 3 | BIDDER'S FINANCIAL STATUS | |
| | Bidder must be financially sound enough to execute the contract with OGDCL. Provide audited financial statement for last three years to confirm financial status. | Yes/No |

Format for Standard Acid Recipes

Note: Companies to formulate Acid recipes as per their chemical concentration required for preparation of 1,000 Gals recipe in true letter and spirit. It is mandatory to use all chemicals in below mentioned tables for preparation of 1,000 Gal recipes. Exclusion of any chemical from the recipes as mentioned in acid recipes table by any company will result in rejection of bid.

| 7.5% Acid Solution complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time for product concentration/1,000 Gals of Acid recipe upto 250 °F | | | | | | |
|--|-------------------------|--------------|-----|--------------------|------|-----------------|
| Sr. | Product Name | Product Code | UOM | Unit Rate US\$/UOM | Qty. | Total Rate US\$ |
| 1 | 32% HCl | | Gal | | | |
| 2 | Chelating Agent | | lbs | | | |
| 3 | Corrosion Inhibitor | | Gal | | | |
| 4 | Corrosion Inhibitor Aid | | Gal | | | |
| 5 | Surfactant | | Gal | | | |
| 6 | Water | | Gal | | | |
| Recipe cost(US\$)/1,000 Gals | | | | | | |
| Recipe cost(US\$)/Gal | | | | | | |

| 7.5% Acid Solution complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time for product concentration/1,000 Gals of Acid recipe above 250 °F upto 350 °F | | | | | | |
|---|-------------------------|--------------|-----|--------------------|------|-----------------|
| Sr. | Product Name | Product Code | UOM | Unit Rate US\$/UOM | Qty. | Total Rate US\$ |
| 1 | 32% HCl | | Gal | | | |
| 2 | Chelating Agent | | lbs | | | |
| 3 | Corrosion Inhibitor | | Gal | | | |
| 4 | Corrosion Inhibitor Aid | | Gal | | | |
| 5 | Surfactant | | Gal | | | |
| 6 | Water | | Gal | | | |
| Recipe cost(US\$)/1,000 Gals | | | | | | |
| Recipe cost(US\$)/Gal | | | | | | |

| 7.5% Acid Solution complete with 2,000 ppm iron control with chelating agent, 8 hrs. inhibition time for product concentration/1,000 Gals of Acid recipe above 350 °F | | | | | | |
|--|-------------------------|--------------|-----|--------------------|------|-----------------|
| Sr. | Product Name | Product Code | UOM | Unit Rate US\$/UOM | Qty. | Total Rate US\$ |
| 1 | 32% HCl | | Gal | | | |
| 2 | Chelating Agent | | lbs | | | |
| 3 | Corrosion Inhibitor | | Gal | | | |
| 4 | Corrosion Inhibitor Aid | | Gal | | | |
| 5 | Surfactant | | Gal | | | |
| 6 | Water | | Gal | | | |
| Recipe cost(US\$)/1,000 Gals | | | | | | |
| Recipe cost(US\$)/Gal | | | | | | |

15% ungelled acid solution complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time for product concentration/1,000 Gals of Acid recipe upto 250 °F

| Sr. | Product Name | Product Code | UOM | Unit Rate US\$/UOM | Qty. | Total Rate US\$ |
|-------------------------------------|-------------------------|--------------|-----|--------------------|------|-----------------|
| 1 | 32% HCl | | Gal | | | |
| 2 | Chelating Agent | | lbs | | | |
| 3 | Corrosion Inhibitor | | Gal | | | |
| 4 | Corrosion Inhibitor Aid | | Gal | | | |
| 5 | Diverting Agent | | Gal | | | |
| 6 | Surfactant | | Gal | | | |
| 7 | Water | | Gal | | | |
| Recipe cost(US\$)/1,000 Gals | | | | | | |
| Recipe cost(US\$)/Gal | | | | | | |

15% ungelled acid solution complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time for product concentration/1,000 Gals of Acid recipe above 250 °F upto 350 °F

| Sr. | Product Name | Product Code | UOM | Unit Rate US\$/UOM | Qty. | Total Rate US\$ |
|-------------------------------------|-------------------------|--------------|-----|--------------------|------|-----------------|
| 1 | 32% HCl | | Gal | | | |
| 2 | Chelating Agent | | lbs | | | |
| 3 | Corrosion Inhibitor | | Gal | | | |
| 4 | Corrosion Inhibitor Aid | | Gal | | | |
| 5 | Diverting Agent | | Gal | | | |
| 6 | Surfactant | | Gal | | | |
| 7 | Water | | Gal | | | |
| Recipe cost(US\$)/1,000 Gals | | | | | | |
| Recipe cost(US\$)/Gal | | | | | | |

15% ungelled acid solution complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time for product concentration/1,000 Gals of Acid recipe above 350 °F

| Sr. | Product Name | Product Code | UOM | Unit Rate US\$/UOM | Qty. | Total Rate US\$ |
|-------------------------------------|-------------------------|--------------|-----|--------------------|------|-----------------|
| 1 | 32% HCl | | Gal | | | |
| 2 | Chelating Agent | | lbs | | | |
| 3 | Corrosion Inhibitor | | Gal | | | |
| 4 | Corrosion Inhibitor Aid | | Gal | | | |
| 5 | Diverting Agent | | Gal | | | |
| 6 | Surfactant | | Gal | | | |
| 7 | Water | | Gal | | | |
| Recipe cost(US\$)/1,000 Gals | | | | | | |
| Recipe cost(US\$)/Gal | | | | | | |

15% gelled acid solution complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time for product concentration/1,000 Gals of Acid recipe upto 250 °F

| Sr. | Product Name | Product Code | UOM | Unit Rate US\$/UOM | Qty. | Total Rate US\$ |
|-------------------------------------|-------------------------|--------------|-----|--------------------|------|-----------------|
| 1 | 32% HCl | | Gal | | | |
| 2 | Chelating Agent | | lbs | | | |
| 3 | Corrosion Inhibitor | | Gal | | | |
| 4 | Corrosion Inhibitor Aid | | Gal | | | |
| 5 | Gelling Agent | | Gal | | | |
| 6 | Surfactant | | Gal | | | |
| 7 | Water | | Gal | | | |
| Recipe cost(US\$)/1,000 Gals | | | | | | |
| Recipe cost(US\$)/Gal | | | | | | |

15% gelled acid solution complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time for product concentration/1,000 Gals of Acid recipe above 250 °F upto 350 °F

| Sr. | Product Name | Product Code | UOM | Unit Rate US\$/UOM | Qty. | Total Rate US\$ |
|-------------------------------------|-------------------------|--------------|-----|--------------------|------|-----------------|
| 1 | 32% HCl | | Gal | | | |
| 2 | Chelating Agent | | lbs | | | |
| 3 | Corrosion Inhibitor | | Gal | | | |
| 4 | Corrosion Inhibitor Aid | | Gal | | | |
| 5 | Gelling Agent | | Gal | | | |
| 6 | Surfactant | | Gal | | | |
| 7 | Water | | Gal | | | |
| Recipe cost(US\$)/1,000 Gals | | | | | | |
| Recipe cost(US\$)/Gal | | | | | | |

15% gelled acid solution complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time for product concentration/1,000 Gals of Acid recipe above 350 °F

| Sr. | Product Name | Product Code | UOM | Unit Rate US\$/UOM | Qty. | Total Rate US\$ |
|-------------------------------------|-------------------------|--------------|-----|--------------------|------|-----------------|
| 1 | 32% HCl | | Gal | | | |
| 2 | Chelating Agent | | lbs | | | |
| 3 | Corrosion Inhibitor | | Gal | | | |
| 4 | Corrosion Inhibitor Aid | | Gal | | | |
| 5 | Gelling Agent | | Gal | | | |
| 6 | Surfactant | | Gal | | | |
| 7 | Water | | Gal | | | |
| Recipe cost(US\$)/1,000 Gals | | | | | | |
| Recipe cost(US\$)/Gal | | | | | | |

| Regular Mud Acid: (12% HCl + 3% HF) c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time for product concentration/1,000 Gals of Acid recipe upto 250 °F | | | | | | |
|---|-------------------------|--------------|-----|--------------------|------|-----------------|
| Sr. | Product Name | Product Code | UOM | Unit Rate US\$/UOM | Qty. | Total Rate US\$ |
| 1 | 32% HCl | | Gal | | | |
| 2 | HF Intensifier | | lbs | | | |
| 3 | Chelating Agent | | lbs | | | |
| 4 | Corrosion Inhibitor | | Gal | | | |
| 5 | Corrosion Inhibitor Aid | | Gal | | | |
| 6 | Surfactant | | Gal | | | |
| 7 | Mutual Solvent | | Gal | | | |
| 8 | Water | | Gal | | | |
| Recipe cost(US\$)/1,000 Gals | | | | | | |
| Recipe cost(US\$)/Gal | | | | | | |

| Regular Mud Acid: (12% HCl + 3% HF) c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time for product concentration/1,000 Gals of Acid recipe above 250 °F upto 350 °F | | | | | | |
|--|-------------------------|--------------|-----|--------------------|------|-----------------|
| Sr. | Product Name | Product Code | UOM | Unit Rate US\$/UOM | Qty. | Total Rate US\$ |
| 1 | 32% HCl | | Gal | | | |
| 2 | HF Intensifier | | lbs | | | |
| 3 | Chelating Agent | | lbs | | | |
| 4 | Corrosion Inhibitor | | Gal | | | |
| 5 | Corrosion Inhibitor Aid | | Gal | | | |
| 6 | Surfactant | | Gal | | | |
| 7 | Mutual Solvent | | Gal | | | |
| 8 | Water | | Gal | | | |
| Recipe cost(US\$)/1,000 Gals | | | | | | |
| Recipe cost(US\$)/Gal | | | | | | |

| Regular Mud Acid: (12% HCl + 3% HF) c/w 2,000 ppm iron control with chelating agent, 8 hrs. inhibition time for product concentration/1,000 Gals of Acid recipe Above 350 °F | | | | | | |
|---|-------------------------|--------------|-----|--------------------|------|-----------------|
| Sr. | Product Name | Product Code | UOM | Unit Rate US\$/UOM | Qty. | Total Rate US\$ |
| 1 | 32% HCl | | Gal | | | |
| 2 | HF Intensifier | | lbs | | | |
| 3 | Chelating Agent | | lbs | | | |
| 4 | Corrosion Inhibitor | | Gal | | | |
| 5 | Corrosion Inhibitor Aid | | Gal | | | |
| 6 | Surfactant | | Gal | | | |
| 7 | Mutual Solvent | | Gal | | | |
| 8 | Water | | Gal | | | |
| Recipe cost(US\$)/1,000 Gals | | | | | | |
| Recipe cost(US\$)/Gal | | | | | | |

10% Acetic Acid complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time for product concentration/1,000 Gals of Acid recipe upto 250 °F

| Sr. | Product Name | Product Code | UOM | Unit Rate US\$/UOM | Qty. | Total Rate US\$ |
|-------------------------------------|-----------------------------|--------------|------|--------------------|------|-----------------|
| 1 | Acetic Acid | | Gal | | | |
| 2 | Chelating Agent | | lbs. | | | |
| 3 | Organic Corrosion Inhibitor | | Gal | | | |
| 4 | Surfactant | | Gal | | | |
| 5 | Water | | Gal | | | |
| Recipe cost(US\$)/1,000 Gals | | | | | | |
| Recipe cost(US\$)/Gal | | | | | | |

10% Acetic Acid complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time for product concentration/1,000 Gals of Acid recipe above 250 °F upto 350 °F

| Sr. | Product Name | Product Code | UOM | Unit Rate US\$/UOM | Qty. | Total Rate US\$ |
|-------------------------------------|-----------------------------|--------------|------|--------------------|------|-----------------|
| 1 | Acetic Acid | | Gal | | | |
| 2 | Chelating Agent | | lbs. | | | |
| 3 | Organic Corrosion Inhibitor | | Gal | | | |
| 4 | Surfactant | | Gal | | | |
| 5 | Water | | Gal | | | |
| Recipe cost(US\$)/1,000 Gals | | | | | | |
| Recipe cost(US\$)/Gal | | | | | | |

10% Acetic Acid complete with 2,000 ppm iron control with chelating agent, 08 hrs. inhibition time for product concentration/1,000 Gals of Acid recipe above 350 °F

| Sr. | Product Name | Product Code | UOM | Unit Rate US\$/UOM | Qty. | Total Rate US\$ |
|-------------------------------------|-----------------------------|--------------|------|--------------------|------|-----------------|
| 1 | Acetic Acid | | Gal | | | |
| 2 | Chelating Agent | | lbs. | | | |
| 3 | Organic Corrosion Inhibitor | | Gal | | | |
| 4 | Surfactant | | Gal | | | |
| 5 | Water | | Gal | | | |
| Recipe cost(US\$)/1,000 Gals | | | | | | |
| Recipe cost(US\$)/Gal | | | | | | |

9% Formic Acid complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time for product concentration/1,000 Gals of Acid recipe upto 250 °F

| Sr. | Product Name | Product | UOM | Unit Rate | Qty. | Total Rate US\$ |
|-------------------------------------|-----------------------------|---------|------|-----------|------|-----------------|
| 1 | Formic Acid | | Gal | | | |
| 2 | Chelating Agent | | lbs. | | | |
| 3 | Organic Corrosion Inhibitor | | Gal | | | |
| 4 | Surfactant | | Gal | | | |
| 5 | Water | | Gal | | | |
| Recipe cost(US\$)/1,000 Gals | | | | | | |
| Recipe cost(US\$)/Gal | | | | | | |

| 9% Formic Acid complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time for product concentration/1,000 Gals of Acid recipe above 250 °F upto 350 °F | | | | | | |
|--|-----------------------------|--------------|------|--------------------|------|-----------------|
| Sr. | Product Name | Product Code | UOM | Unit Rate US\$/UOM | Qty. | Total Rate US\$ |
| 1 | Formic Acid | | Gal | | | |
| 2 | Chelating Agent | | lbs. | | | |
| 3 | Organic Corrosion Inhibitor | | Gal | | | |
| 4 | Surfactant | | Gal | | | |
| 5 | Water | | Gal | | | |
| Recipe cost(US\$)/1,000 Gals | | | | | | |
| Recipe cost(US\$)/Gal | | | | | | |

| 9% Formic Acid complete with 2,000 ppm iron control with chelating agent, 08 hrs. inhibition time for product concentration/1,000 Gals of Acid recipe above 350 °F | | | | | | |
|--|-----------------------------|--------------|------|--------------------|------|-----------------|
| Sr. | Product Name | Product Code | UOM | Unit Rate US\$/UOM | Qty. | Total Rate US\$ |
| 1 | Formic Acid | | Gal | | | |
| 2 | Chelating Agent | | lbs. | | | |
| 3 | Organic Corrosion Inhibitor | | Gal | | | |
| 4 | Surfactant | | Gal | | | |
| 5 | Water | | Gal | | | |
| Recipe cost(US\$)/1,000 Gals | | | | | | |
| Recipe cost(US\$)/Gal | | | | | | |

FINANCIAL EVALUATION MODEL
GROUP "A" (PUNJAB & KPK)

| (A) Coil Tubing Services with 1.5" /1.75" /2" coil sizes (Complete setup/crew) | | | | | | |
|--|--|----------|---------|---------------|-------------------|--|
| Sr. | Services | Qty. (Q) | UOM (U) | Unit Cost (P) | Total Cost =P x Q | |
| | | | | US\$/ UOM | US\$ | |
| 1 | Coil Tubing Unit with standard BHA up to Category 3 PCE Operating Charges. | 3 | Days | | | |
| 2 | Coil Tubing Unit with standard BHA up to Category 3 PCE Standby Charges. | 2 | Days | | | |
| 3 | Coil Tubing Crew Operating Charges. | 3 | Days | | | |
| 4 | Coil Tubing Crew Standby Charges. | 2 | Days | | | |
| 5 | Coil Tubing Cumulative Depth Charges for Non-Corrosive Environment. | 7,000 | Meters | | | |
| 6 | Coil Tubing Services (Corrosive Environment CO2 ≥ 5 % or H2S ≥ 10 PPM) | 3,000 | Meters | | | |
| 7 | High Pressure Jetting / Rotating Tool Operating Charges. | 3 | Days | | | |
| 8 | High Pressure Jetting / Rotating Tool Standby Charges. | 2 | Days | | | |
| 9 | Coil Tubing Unit Mob/De-mob. | 1,000 | KM | | | |
| 10 | Coil Tubing Crew Mob/De-mob. | 1,000 | KM | | | |
| Total/Job (US\$) | | | | | | |
| Total for estimated 130 Jobs (US\$) | | | | | | |

| (B) Nitrogen and Nitrogen pumping equipment services(Complete setup/crew) | | | | | |
|--|--|-------------|------------|---------------------|-------------------------|
| Sr. | Services | Qty. (Q) | UOM (U) | Unit Cost (P) | Total Cost =P x Q |
| | | | | US\$/ UOM | US\$ |
| 1 | Nitrogen Pumping Equipment Operating Charges. | 3 | Days | | |
| 2 | Nitrogen Pumping Equipment Standby Charges. | 2 | Days | | |
| 3 | Nitrogen Pumping Crew Operating Charges. | 3 | Days | | |
| 4 | Nitrogen Pumping Crew Standby Charges. | 2 | Days | | |
| 5 | Liquid Nitrogen volume Pumping Charges. | 7,200 | Gals | | |
| 6 | Liquid Nitrogen Charges. | 8,000 | Gals | | |
| 7 | Liquid Nitrogen Supply Tanker Standby Charges. | 2 | Days | | |
| 8 | Liquid Nitrogen Supply Tanker Mob/De-mob. | 1,000 | KM | | |
| 9 | Nitrogen Pumping Equipment Mob/De-mob. | 1,000 | KM | | |
| 10 | Nitrogen Pumping Crew Mob/De-mob. | 1,000 | KM | | |
| Total/Job (US\$) | | | | | |
| Total for estimated 130 Jobs (US\$) | | | | | |

| (C) Crane with operator services(Complete setup/crew) | | | | | |
|--|--------------------------------------|-------------|------------|---------------------|-------------------------|
| Sr. | Services | Qty. (Q) | UOM (U) | Unit Cost (P) | Total Cost =P x Q |
| | | | | US\$/ UOM | US\$ |
| 1 | 40-50 ton Hydraulic Crane Operating. | 3 | Days | | |
| 2 | 40-50 ton Hydraulic Crane Standby. | 2 | Days | | |
| 3 | Crane with operator Mob/De-mob. | 1,000 | KM | | |
| Total/Job (US\$) | | | | | |
| Total for Estimated 130 Jobs (US\$) | | | | | |

| (D) Pump unit services(Complete setup/crew) | | | | | |
|--|---|-------------|------------|---------------------|-------------------------|
| Sr. | Services | Qty. (Q) | UOM (U) | Unit Cost (P) | Total Cost =P x Q |
| | | | | US\$/ UOM | US\$ |
| 1 | Pump unit Crew Operating Charges. | 3 | Days | | |
| 2 | Pump unit Crew Standby Charges. | 2 | Days | | |
| 3 | Pump unit Equipment Operating Charges. | 3 | Days | | |
| 4 | Pump unit Equipment Standby Charges. | 2 | Days | | |
| 5 | Volume Pumping Charges using pump unit. | 1,500 | Gals | | |
| 6 | Pump unit Equipment Mob/De-mob. | 1,000 | KM | | |
| 7 | Pump unit crew Mob/De-mob. | 1,000 | KM | | |
| Total/Job (US\$) | | | | | |
| Total for estimated 20 Jobs (US\$) | | | | | |

(E) Stimulation/Pumping package services (Complete setup/crew)

| Sr. | Services | Qty. (Q) | UOM (U) | Unit Cost (P) | Total Cost =P x Q |
|--|---|-------------|------------|---------------------|-------------------------|
| | | | | US\$/ UOM | US\$ |
| 1 | Stimulation/Pumping Package Crew Operating Charges. | 3 | Days | | |
| 2 | Stimulation/Pumping Package Crew Standby Charges. | 2 | Days | | |
| 3 | Stimulation/Pumping Package Equipment Standby Charges. | 2 | Days | | |
| 4 | Volume Pumping Charges using stimulation/Pumping Package. | 50,000 | Gal | | |
| 5 | Supply Truck for Acid Standby Charges. | 2 | Days | | |
| 6 | Stimulation/Pumping package Equipment Mob/De-mob. | 1,000 | KM | | |
| 7 | Stimulation/Pumping Package Crew Mob/De-mob. | 1,000 | KM | | |
| 8 | Supply Truck for Acid Mob/De-mob. | 1,000 | KM | | |
| Total/Job (US\$) | | | | | |
| Total for estimated 100 Jobs (US\$) | | | | | |

(F) Tubing Puncture/Perforation tool including Mob/De-mob

| Sr. | Services | Qty. (Q) | UOM (U) | Unit Cost (P) | Total Cost =P x Q |
|---|---|-------------|------------|---------------------|-------------------------|
| | | | | US\$/ UOM | US\$ |
| 1 | Abbrasive/Abbrasi Jet tubing puncture/perforation tool- Operating charges. | 3 | Days | | |
| 2 | Abbrasive/Abbrasi Jet tubing puncture/perforation tool- standby charges. | 2 | Days | | |
| 3 | Tubular Anchors- Operating charges. | 3 | Days | | |
| 4 | Tubular Anchors- Standby charges. | 2 | Days | | |
| Total/Job (US\$) | | | | | |
| Total for Estimated 03 Jobs (US\$) | | | | | |

(G) Thru Tubing Services with Back up Tools

| Sr. | Services | Qty. (Q) | UOM (U) | Unit Cost (P) | Total Cost =P x Q |
|-----|--|-------------|------------|---------------------|-------------------------|
| | | | | US\$/UOM | us\$ |
| 1 | Dimple Connector – Operating. | 3 | Days | | |
| 2 | Dimple Connector - Stand by. | 2 | Days | | |
| 3 | Up to 2-1/8" Size Down hole filter – Operating. | 3 | Days | | |
| 4 | Up to 2-1/8" Size Down hole filter -Stand By. | 2 | Days | | |
| 5 | Up to 2-1/8" Size Thru Tubing Motor - Operating. | 3 | Days | | |
| 6 | Up to 2-1/8" Size Thru Tubing Motor - Stand By. | 2 | Days | | |
| 7 | Hydraulic tubing cutting tool-Operating. | 3 | Days | | |
| 8 | Hydraulic tubing cutting tool-Standby. | 2 | Days | | |
| 9 | High Pressure Jetting / Rotating Tool Operating Charges. | 3 | Days | | |
| 10 | High Pressure Jetting / Rotating Tool Standby Charges. | 2 | Days | | |
| 11 | Up to 2-1/8" Size Thru Tubing weight bar – Operating. | 3 | Days | | |
| 12 | Up to 2-1/8" Thru Tubing weight bar – Standby. | 2 | Days | | |
| 13 | Up to 2-1/8" Flat Bottom Mill – Operating. | 3 | Days | | |

| | | | | | |
|--|--|-------|------|--|--|
| 14 | Up to 2-1/8" Flat bottom mill - Standby. | 2 | Days | | |
| 15 | Up to 2-1/8" Tapered mill –Operating. | 3 | Days | | |
| 16 | Up to 2-1/8" Tapered mill - Standby. | 2 | Days | | |
| 17 | Up to 2-1/8" Junk mill – Operating. | 3 | Days | | |
| 18 | Up to 2-1/8" Junk mill - Standby. | 2 | Days | | |
| 19 | Up to 2-1/8" Impact hammer – Operating. | 3 | Days | | |
| 20 | Up to 2-1/8" Impact hammer – Standby. | 2 | Days | | |
| 21 | Up to 2-1/8" Accelerator – Operating. | 3 | Days | | |
| 22 | Up to 2-1/8" Accelerator - Standby. | 2 | Days | | |
| 23 | Up to 2-1/8" Jar – Operating. | 3 | Days | | |
| 24 | Up to 2-1/8" Jar - Standby. | 2 | Days | | |
| 25 | Centralizer – Operating. | 3 | Days | | |
| 26 | Centralizer - Standby. | 2 | Days | | |
| 27 | Pull test sub – Operating. | 3 | Days | | |
| 28 | Pull test sub - Standby. | 2 | Days | | |
| 29 | Surface filter – Operating. | 3 | Days | | |
| 30 | Surface filter – Standby. | 2 | Days | | |
| 31 | Debris filter charges. | 10 | Nos. | | |
| 32 | Thru tubing screen filter charges. | 20 | Nos. | | |
| 33 | Thru tubing crew – operating. | 3 | Days | | |
| 34 | Thru tubing crew – standby. | 2 | Days | | |
| 35 | Thru tubing tools Mob/De-mob. | 1,000 | KM | | |
| 36 | Thru tubing crew Mob/De-mob. | 1,000 | KM | | |
| Total/Job (US\$) | | | | | |
| Total for Estimated 8 Jobs (US\$) | | | | | |

(H) Lab Analysis

| Sr. | Services | Qty. (Q) | UOM (U) | Unit Cost (P) | Total Cost =P x Q |
|-----|--|-------------|------------|------------------|----------------------|
| | | | | US\$/UOM | US\$ |
| 1 | Thin bed XRD analysis with minerals identification upto 1% concentration including mob/de-mob charges inside and outside Pakistan. | 10 | Test | | |

| (I) Stimulation Recipes | | | | | | | |
|--------------------------------|--|---------|-----------|----------------|-----------------------------------|---------------|-------------------|
| Sr. | Description | UOM (U) | Qty. /Job | Estimated jobs | Total Estimated Quantity Required | Unit Cost (P) | Total Cost =P x Q |
| | | | | | | US\$/UOM | US\$ |
| 1 | 7.5% HCl solution up to 250 °F c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time. | Gal | 5,000 | 1 | 5,000 | | |
| 2 | 7.5% HCl solution above 250 °F upto 350 °F c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time. | Gal | 5,000 | 3 | 15,000 | | |
| 3 | 7.5% HCl solution above 350 °F c/w 2,000 ppm iron control with chelating agent, 08 hrs. inhibition time. | Gal | 5,000 | 1 | 5,000 | | |
| 4 | 15% Gelled HCl solution upto 250 °F c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time. | Gal | 5,000 | 7 | 35,000 | | |
| 5 | 15% Gelled HCl solution above 250 °F upto 350 °F c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time. | Gal | 5,000 | 16 | 80,000 | | |
| 6 | 15% Gelled HCl solution above 350 °F c/w 2,000 ppm iron control with chelating agent, 8 hrs. inhibition time. | Gal | 5,000 | 1 | 5,000 | | |
| 7 | 15% ungelled HCl solution upto 250 °F c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time. | Gal | 5,000 | 8 | 40,000 | | |
| 8 | 15% ungelled HCl solution above 250 °F upto 350 °F c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time. | Gal | 5,000 | 16 | 80,000 | | |
| 9 | 15% ungelled HCl solution above 350 °F c/w 2,000 ppm iron control with chelating agent, 8 hrs. inhibition time. | Gal | 5,000 | 1 | 5,000 | | |
| 10 | Regular mud acid solution upto 250 °F: (12% HCl + 3%HF) c/w 2,000ppm iron control with chelating agent, 12 hrs. inhibition time. | Gal | 5,000 | 16 | 80,000 | | |
| 11 | Regular mud acid solution above 250 °F upto 350 °F: (12% HCl + 3%HF) c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time. | Gal | 5,000 | 10 | 50,000 | | |
| 12 | Regular mud acid solution above 350 °F: (12% HCl + 3%HF) c/w 2,000ppm iron control with chelating agent, 08 hrs. inhibition time. | Gal | 5,000 | 1 | 5,000 | | |
| 13 | 10% Acetic acid complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time upto 250 °F. | Gal | 5,000 | 1 | 5,000 | | |
| 14 | 10% Acetic acid complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time above 250 °F upto 350 °F. | Gal | 5,000 | 2 | 10,000 | | |

| | | | | | | | | |
|---|---|-----|-------|---|--------|--|--|--|
| 15 | 10% Acetic acid complete with 2,000 ppm iron control with chelating agent, 8 hrs. inhibition time above 350 °F. | Gal | 5,000 | 1 | 5,000 | | | |
| 16 | 9% Formic acid complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time upto 250 °F. | Gal | 5,000 | 1 | 5,000 | | | |
| 17 | 9% Formic acid complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time above 250 °F upto 350 °F. | Gal | 5,000 | 2 | 10,000 | | | |
| 18 | 9% Formic acid complete with 2,000 ppm iron control with chelating agent, 8 hrs. inhibition time above 350 °F. | Gal | 5,000 | 1 | 5,000 | | | |
| Total for Estimated 89 Jobs (US\$) | | | | | | | | |

| (J) Additional Chemicals (Upto 400 °F temperature rating) | | | | | | | |
|--|--------------------------------------|-----|--------|----|---------|--|--|
| 1 | Corrosion inhibitor up to 250 °F. | Gal | 100 | 20 | 2,000 | | |
| 2 | Mutual solvent. | Gal | 700 | 50 | 35,000 | | |
| 3 | Gelling agent. | Gal | 200 | 20 | 4,000 | | |
| 4 | Alcohol. | Gal | 1,000 | 20 | 20,000 | | |
| 5 | Ammonium chloride. | Lbs | 6,000 | 50 | 300,000 | | |
| 6 | Potassium chloride. | Lbs | 6,000 | 50 | 300,000 | | |
| 7 | Soda ash. | Lbs | 1,000 | 20 | 20,000 | | |
| 8 | Caustic soda. | Lbs | 1,000 | 20 | 20,000 | | |
| 9 | Viscoelastic or equivalent diverter. | Gal | 100 | 30 | 3,000 | | |
| 10 | Xylene. | Gal | 600 | 20 | 12,000 | | |
| 11 | Calcium carbonate. | Lbs | 10,000 | 5 | 50,000 | | |
| 12 | Silica sand. | Lbs | 3,000 | 5 | 15,000 | | |
| 13 | Mesh sand (30/60). | Lbs | 3,000 | 5 | 15,000 | | |
| 14 | Mesh sand (20/40). | Lbs | 3,000 | 5 | 15,000 | | |
| 15 | Non-damaging clean out fluid (Gel). | Gal | 1,000 | 8 | 8,000 | | |
| 16 | H2S/CO2 inhibitor | Gal | 100 | 10 | 1,000 | | |
| 17 | Foaming agent | Gal | 50 | 10 | 500 | | |
| 18 | Demulsifier | Gal | 50 | 10 | 500 | | |
| 19 | Anti-sludge agent | Gal | 100 | 10 | 1,000 | | |
| 20 | Citric Acid | Gal | 100 | 2 | 200 | | |
| 21 | H2S scavenger | Gal | 100 | 10 | 1,000 | | |
| 22 | Methanol | Gal | 5,000 | 5 | 25,000 | | |

| | | | | | | | | |
|--------------------------|----------------------------------|-----|-------|----|--------|--|--|--|
| 23 | Toulene | Gal | 100 | 5 | 500 | | | |
| 24 | Calcium chloride | Lbs | 5,000 | 5 | 25,000 | | | |
| 25 | Sodium chloride | Lbs | 5,000 | 5 | 25,000 | | | |
| 26 | Acid Fiber | Lbs | 200 | 5 | 1,000 | | | |
| 27 | Organic acid intensifier | Lbs | 200 | 5 | 1,000 | | | |
| 28 | Clay stabilizer | gal | 150 | 5 | 750 | | | |
| 29 | Clay acid agent | Lbs | 250 | 5 | 1,250 | | | |
| 30 | Stabilizing agent | Gal | 400 | 10 | 4000 | | | |
| 31 | Friction reducer(Metal to Metal) | Gal | 30 | 8 | 240 | | | |
| 32 | Hi-Vis Pill | bbl | 50 | 8 | 400 | | | |
| Total Cost (US\$) | | | | | | | | |

| Table totalizer Group "A" | | |
|----------------------------------|--|---------------------|
| Table | Description | Value (US\$) |
| Table A | Coil tubing services | |
| Table B | Nitrogen and Nitrogen pumping equipment services (Complete setup/crew) | |
| Table C | Crane with operator services(Complete setup/crew) | |
| Table D | Pump unit services(Complete setup/crew) | |
| Table E | Stimulation/pumping package services (Complete setup/crew) | |
| Table F | Tubing puncture/Perforation tool including Mob/De-mob | |
| Table G | Thru tubing services | |
| Table H | Lab analysis. | |
| Table I | Stimulation recipes. | |
| Table J | Additional chemicals (Upto 400 °F temperature rating) | |
| GRAND TOTAL GROUP "A" | | |

FINANCIAL EVALUATION MODEL
GROUP "B" (SINDH & BALUCHISTAN)

| (A) Coil tubing services with 1.5" /1.75" /2" coil sizes (Complete setup/crew) | | | | | |
|---|--|-------------|------------|------------------|----------------------|
| Sr. | Services | Qty. (Q) | UOM (U) | Unit Cost (P) | Total Cost =P x Q |
| | | | | US\$/ UOM | US\$ |
| 1 | Coil Tubing Unit with standard BHA up to Category 3 PCE Operating Charges. | 3 | Days | | |
| 2 | Coil Tubing Unit with standard BHA up to Category 3 PCE Standby Charges. | 2 | Days | | |
| 3 | Coil Tubing Crew Operating Charges. | 3 | Days | | |
| 4 | Coil Tubing Crew Standby Charges. | 2 | Days | | |
| 5 | Coil Tubing Cumulative Depth Charges for Non-Corrosive Environment. | 5,000 | Meters | | |
| 6 | Coil Tubing Services (Corrosive Environment CO2 ≥ 5 % or H2S ≥ 10 PPM) | 5,000 | Meters | | |
| 7 | Coil Tubing Unit Mob/De-mob. | 1,000 | KM | | |
| 8 | Coil Tubing Crew Mob/De-mob. | 1,000 | KM | | |
| Total/Job (US\$) | | | | | |
| Total for estimated 150 Jobs (US\$) | | | | | |

| (B) Nitrogen and nitrogen pumping equipment services(Complete setup/crew) | | | | | |
|--|--|-------------|------------|------------------|----------------------|
| Sr. | Services | Qty. (Q) | UOM (U) | Unit Cost (P) | Total Cost =P x Q |
| | | | | US\$/ UOM | US\$ |
| 1 | Nitrogen Pumping Equipment Operating Charges. | 3 | Days | | |
| 2 | Nitrogen Pumping Equipment Standby Charges. | 2 | Days | | |
| 3 | Nitrogen Pumping Crew Operating Charges. | 3 | Days | | |
| 4 | Nitrogen Pumping Crew Standby Charges. | 2 | Days | | |
| 5 | Liquid Nitrogen volume Pumping Charges. | 4,500 | Gals | | |
| 6 | Liquid Nitrogen Charges. | 5,000 | Gals | | |
| 7 | Liquid Nitrogen Supply Tanker Standby Charges. | 2 | Days | | |
| 8 | Liquid Nitrogen Supply Tanker Mob/De-mob. | 1,000 | KM | | |
| 9 | Nitrogen Pumping Equipment Mob/De-mob. | 1,000 | KM | | |
| 10 | Nitrogen Pumping Crew Mob/De-mob. | 1,000 | KM | | |
| Total/Job (US\$) | | | | | |
| Total for estimated 150 Jobs (US\$) | | | | | |

| (C) Crane with operator services(Complete setup/crew) | | | | | |
|--|--------------------------------------|-------------|------------|------------------|----------------------|
| Sr. | Services | Qty. (Q) | UOM (U) | Unit Cost (P) | Total Cost =P x Q |
| | | | | US\$/ UOM | US\$ |
| 1 | 40-50 ton Hydraulic Crane Operating. | 3 | Days | | |
| 2 | 40-50 ton Hydraulic Crane Standby. | 2 | Days | | |
| 3 | Crane with operator Mob/De-mob. | 1,000 | KM | | |
| Total/Job (US\$) | | | | | |
| Total for Estimated 150 Jobs (US\$) | | | | | |

| (D) Pump unit services(Complete setup/crew) | | | | | |
|--|---|-------------|------------|------------------|----------------------|
| Sr. | Services | Qty. (Q) | UOM (U) | Unit Cost (P) | Total Cost =P x Q |
| | | | | US\$/ UOM | US\$ |
| 1 | Pump unit Crew Operating Charges. | 3 | Days | | |
| 2 | Pump unit Crew Standby Charges. | 2 | Days | | |
| 3 | Pump unit Equipment Operating Charges. | 3 | Days | | |
| 4 | Pump unit Equipment Standby Charges. | 2 | Days | | |
| 5 | Volume Pumping Charges using pump unit. | 1,500 | Gals | | |
| 6 | Pump unit Equipment Mob/De-mob. | 1,000 | KM | | |
| 7 | Pump unit crew Mob/De-mob. | 1,000 | KM | | |
| Total/Job (US\$) | | | | | |
| Total for estimated 20 Jobs (US\$) | | | | | |

| (E) Stimulation/Pumping package services (Complete setup/crew) | | | | | |
|---|---|-------------|------------|------------------|----------------------|
| Sr. | Services | Qty. (Q) | UOM (U) | Unit Cost (P) | Total Cost =P x Q |
| | | | | US\$/ UOM | US\$ |
| 1 | Stimulation/Pumping Package Crew Operating Charges. | 3 | Days | | |
| 2 | Stimulation/Pumping Package Crew Standby Charges. | 2 | Days | | |
| 3 | Stimulation/Pumping Package Equipment Standby Charges. | 2 | Days | | |
| 4 | Volume Pumping Charges using stimulation/Pumping Package. | 30,000 | Gal | | |
| 5 | Supply Truck for Acid Standby Charges. | 2 | Days | | |
| 6 | Stimulation/Pumping package Equipment Mob/De-mob. | 1,000 | KM | | |
| 7 | Stimulation/Pumping Package Crew Mob/De-mob. | 1,000 | KM | | |
| 8 | Supply Truck for Acid Mob/De-mob. | 1,000 | KM | | |
| Total/Job (US\$) | | | | | |
| Total for estimated 117 Jobs (US\$) | | | | | |

| (F) Tubing puncture/perforation tool including Mob/De-mob | | | | | |
|--|---|-------------|------------|------------------|----------------------|
| Sr. | Services | Qty. (Q) | UOM (U) | Unit Cost (P) | Total Cost =P x Q |
| | | | | US\$/ UOM | US\$ |
| 1 | Abbrasive/Abbrasi Jet tubing puncture/perforation tool-Operating charges. | 3 | Days | | |
| 2 | Abbrasive/Abbrasi Jet tubing puncture/perforation tool- standby charges. | 2 | Days | | |
| 3 | Tubular Anchors- Operating charges. | 3 | Days | | |
| 4 | Tubular Anchors- Standby charges. | 2 | Days | | |
| Total/Job (US\$) | | | | | |
| Total for Estimated 03 Jobs (US\$) | | | | | |

| (G) Thru tubing services with back up tools | | | | | |
|--|----------|-------------|------------|------------------|----------------------|
| Sr. | Services | Qty. (Q) | UOM (U) | Unit Cost (P) | Total Cost =P x Q |
| | | | | US\$/UOM | US\$ |

| | | | | | |
|--|--|-------|------|--|--|
| 1 | Dimple Connector – Operating. | 3 | Days | | |
| 2 | Dimple Connector - Stand by. | 2 | Days | | |
| 3 | Up to 2-1/8” Size Down hole filter – Operating. | 3 | Days | | |
| 4 | Up to 2-1/8” Size Down hole filter -Stand By. | 2 | Days | | |
| 5 | Up to 2-1/8” Size Thru Tubing Motor - Operating. | 3 | Days | | |
| 6 | Up to 2-1/8” Size Thru Tubing Motor - Stand By. | 2 | Days | | |
| 7 | Hydraulic tubing cutting tool-Operating. | 3 | Days | | |
| 8 | Hydraulic tubing cutting tool-Standby. | 2 | Days | | |
| 9 | High Pressure Jetting / Rotating Tool Operating Charges. | 3 | Days | | |
| 10 | High Pressure Jetting / Rotating Tool Standby Charges. | 2 | Days | | |
| 11 | Up to 2-1/8” Size Thru Tubing weight bar – Operating. | 3 | Days | | |
| 12 | Up to 2-1/8” Thru Tubing weight bar – Standby. | 2 | Days | | |
| 13 | Up to 2-1/8” Flat Bottom Mill – Operating. | 3 | Days | | |
| 14 | Up to 2-1/8” Flat bottom mill - Standby. | 2 | Days | | |
| 15 | Up to 2-1/8” Tapered mill –Operating. | 3 | Days | | |
| 16 | Up to 2-1/8” Tapered mill - Standby. | 2 | Days | | |
| 17 | Up to 2-1/8” Junk mill – Operating. | 3 | Days | | |
| 18 | Up to 2-1/8” Junk mill - Standby. | 2 | Days | | |
| 19 | Up to 2-1/8” Impact hammer – Operating. | 3 | Days | | |
| 20 | Up to 2-1/8” Impact hammer – Standby. | 2 | Days | | |
| 21 | Up to 2-1/8” Accelerator – Operating. | 3 | Days | | |
| 22 | Up to 2-1/8” Accelerator - Standby. | 2 | Days | | |
| 23 | Up to 2-1/8” Jar – Operating. | 3 | Days | | |
| 24 | Up to 2-1/8” Jar - Standby. | 2 | Days | | |
| 25 | Centralizer – Operating. | 3 | Days | | |
| 26 | Centralizer - Standby. | 2 | Days | | |
| 27 | Pull test sub – Operating. | 3 | Days | | |
| 28 | Pull test sub - Standby. | 2 | Days | | |
| 29 | Surface filter – Operating. | 3 | Days | | |
| 30 | Surface filter – Standby. | 2 | Days | | |
| 31 | Debris filter charges. | 10 | Nos. | | |
| 32 | Thru tubing screen filter charges. | 20 | Nos. | | |
| 33 | Thru tubing crew – operating. | 3 | Days | | |
| 34 | Thru tubing crew – standby. | 2 | Days | | |
| 35 | Thru tubing tools Mob/De-mob. | 1,000 | KM | | |
| 36 | Thru tubing crew Mob/De-mob. | 1,000 | KM | | |
| Total/Job (US\$) | | | | | |
| Total for Estimated 8 Jobs (US\$) | | | | | |

(H) Lab Analysis

| Sr. | Services | Qty. (Q) | UOM (U) | Unit Cost (P) | Total Cost =P x Q |
|-----|---|-------------|------------|------------------|----------------------|
| | | | | US\$/UOM | US\$ |
| 1 | Thin bed XRD analysis with minerals identification up to 1% concentration including mob/de-mob charges inside and outside Pakistan. | 10 | Test | | |

(I) Stimulation Recipes

| Sr. | Description | UOM (U) | Qty. /Job | Estimated jobs | Total Estimated Quantity Required | Unit Cost (P) | Total Cost =P x Q |
|-----|--|------------|--------------|-------------------|---|------------------|----------------------|
| | | | | | | US\$/UOM | US\$ |
| 1 | 7.5% HCl solution upto 250 °F c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time. | Gal | 4,500 | 5 | 22,500 | | |
| 2 | 7.5% HCl solution above 250 °F upto 350 °F c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time. | Gal | 4,500 | 2 | 9,000 | | |
| 3 | 7.5% HCl solution above 350 °F c/w 2,000 ppm iron control with chelating agent, 08 hrs. inhibition time. | Gal | 4,500 | 1 | 4,500 | | |
| 4 | 15% Gelled HCl solution upto 250 °F c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time. | Gal | 4,500 | 18 | 81,000 | | |
| 5 | 15% Gelled HCl solution above 250 °F upto 350 °F c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time. | Gal | 4,500 | 8 | 36,000 | | |
| 6 | 15% Gelled HCl solution above 350 °F c/w 2,000 ppm iron control with chelating agent, 8 hrs. inhibition time. | Gal | 4,500 | 2 | 9,000 | | |
| 7 | 15% ungelled HCl solution upto 250 °F c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time. | Gal | 4,500 | 18 | 81,000 | | |
| 8 | 15% ungelled HCl solution above 250 °F upto 350 °F c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time. | Gal | 4,500 | 8 | 36,000 | | |
| 9 | 15% ungelled HCl solution above 350 °F c/w 2,000 ppm iron control with chelating agent, 8 hrs. inhibition time. | Gal | 4,500 | 2 | 9,000 | | |
| 10 | Regular mud acid solution upto 250 °F: (12% HCl + 3%HF) c/w 2,000ppm iron control with chelating agent, 12 hrs. inhibition time. | Gal | 4,500 | 20 | 90,000 | | |
| 11 | Regular mud acid solution above 250 °F upto 350 °F: (12% HCl + 3%HF) c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time. | Gal | 4,500 | 10 | 45,000 | | |
| 12 | Regular mud acid solution above 350 °F: (12% HCl + 3%HF) c/w 2,000ppm iron control with chelating agent, 08 hrs. inhibition time. | Gal | 4,500 | 2 | 9,000 | | |
| 13 | 10% Acetic acid complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time upto 250 °F. | Gal | 4,500 | 2 | 9,000 | | |

| | | | | | | | | |
|--|--|-----|-------|---|-------|--|--|--|
| 14 | 10% Acetic acid complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time above 250 °F upto 350 °F. | Gal | 4,500 | 2 | 9,000 | | | |
| 15 | 10% Acetic Acid complete with 2,000 ppm iron control with chelating agent, 8 hrs. inhibition time above 350 °F. | Gal | 4,500 | 1 | 4,500 | | | |
| 16 | 9% Formic acid complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time upto 250 °F. | Gal | 4,500 | 2 | 9,000 | | | |
| 17 | 9% Formic acid complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time above 250 °F upto 350 °F. | Gal | 4,500 | 2 | 9,000 | | | |
| 18 | 9% Formic acid complete with 2,000 ppm iron control with chelating agent, 8 hrs. inhibition time above 350 °F. | Gal | 4,500 | 1 | 4,500 | | | |
| Total for Estimated 106 Jobs (US\$) | | | | | | | | |

| (J) Additional Chemicals (Upto 400 °F temperature rating) | | | | | | | |
|---|--------------------------------------|-----|--------|----|---------|--|--|
| 1 | Corrosion inhibitor up to 250 °F. | Gal | 100 | 20 | 2,000 | | |
| 2 | Mutual solvent. | Gal | 700 | 50 | 35,000 | | |
| 3 | Gelling agent. | Gal | 200 | 20 | 4,000 | | |
| 4 | Alcohol. | Gal | 1,000 | 20 | 20,000 | | |
| 5 | Ammonium chloride. | Lbs | 6,000 | 50 | 300,000 | | |
| 6 | Potassium chloride. | Lbs | 6,000 | 50 | 300,000 | | |
| 7 | Soda ash. | Lbs | 1,000 | 20 | 20,000 | | |
| 8 | Caustic soda. | Lbs | 1,000 | 20 | 20,000 | | |
| 9 | Viscoelastic or equivalent diverter. | Gal | 100 | 30 | 3,000 | | |
| 10 | Xylene. | Gal | 600 | 20 | 12,000 | | |
| 11 | Calcium carbonate. | Lbs | 10,000 | 5 | 50,000 | | |
| 12 | Silica sand. | Lbs | 3,000 | 5 | 15,000 | | |
| 13 | Mesh sand (30/60). | Lbs | 3,000 | 5 | 15,000 | | |
| 14 | Mesh sand (20/40). | Lbs | 3,000 | 5 | 15,000 | | |
| 15 | Non-damaging clean out fluid (Gel). | Gal | 1,000 | 8 | 8,000 | | |
| 16 | H2S/CO2 inhibitor | Gal | 100 | 10 | 1,000 | | |
| 17 | Foaming agent | Gal | 50 | 10 | 500 | | |
| 18 | Demulsifier | Gal | 50 | 10 | 500 | | |
| 19 | Anti-sludge agent | Gal | 100 | 10 | 1,000 | | |

| | | | | | | | | |
|--------------------------|----------------------------------|-----|-------|----|--------|--|--|--|
| 20 | Citric Acid | Gal | 100 | 2 | 200 | | | |
| 21 | H2S scavenger | Gal | 100 | 10 | 1,000 | | | |
| 22 | Methanol | Gal | 5,000 | 5 | 25,000 | | | |
| 23 | Toulene | Gal | 100 | 5 | 500 | | | |
| 24 | Calcium chloride | Lbs | 5,000 | 5 | 25,000 | | | |
| 25 | Sodium chloride | Lbs | 5,000 | 5 | 25,000 | | | |
| 26 | Acid Fiber | Lbs | 200 | 5 | 1,000 | | | |
| 27 | Organic acid intensifier | Lbs | 200 | 5 | 1,000 | | | |
| 28 | Clay stabilizer | gal | 150 | 5 | 750 | | | |
| 29 | Clay acid agent | Lbs | 250 | 5 | 1,250 | | | |
| 30 | Stabilizing agent | Gal | 400 | 10 | 4000 | | | |
| 31 | Friction reducer(Metal to Metal) | Gal | 30 | 8 | 240 | | | |
| 32 | Hi-Vis Pill | bbl | 50 | 8 | 400 | | | |
| Total Cost (US\$) | | | | | | | | |

| Table Totalizer Group "B" | | |
|------------------------------|--|--------------|
| Table | Description | Value (US\$) |
| Table A | Coil tubing services | |
| Table B | Nitrogen and Nitrogen pumping equipment services (Complete setup/crew) | |
| Table C | Crane with operator services(Complete setup/crew) | |
| Table D | Pump unit services(Complete setup/crew) | |
| Table E | Stimulation/pumping package services (Complete setup/crew) | |
| Table F | Tubing puncture/Perforation tool including Mob/De-mob | |
| Table G | Thru tubing services | |
| Table H | Lab analysis. | |
| Table I | Stimulation recipes. | |
| Table J | Additional chemicals (Upto 400 °F temperature rating) | |
| GRAND TOTAL GROUP "B" | | |

FINANCIAL EVALUATION MODEL
GROUP "C" (ALL OVER PAKISTAN)

| (A) Smart Coil Services | | | | | | |
|---|---|-------------|------------|------------------|----------------------|--|
| Sr. | Services | Qty. (Q) | UOM (U) | Unit Cost (P) | Total Cost =P x Q | |
| | | | | US\$/UOM | US\$ | |
| 1.5"/1.75"/2" Smart Coil Services (for all Categories PCE) | | | | | | |
| 1 | Smart coil tubing unit with necessary BHA upto category 3 PCE- Operating charges. | 3 | Day | | | |
| 2 | Smart coil tubing unit with necessary BHA upto category 3 PCE - Standby charges. | 3 | Day | | | |
| 3 | Smart coil Cumulative Depth Charges for Non-corrosive Environment. | 5,000 | Meter | | | |
| 4 | Smart coil Cumulative Depth Charges for corrosive Environment CO ₂ ≥ 5 % or H ₂ S ≥ 10 PPM. | 3,000 | Meter | | | |
| 5 | Smart coil tubing Crew Operating. | 3 | Day | | | |
| 6 | Smart coil tubing Crew Standby. | 3 | Day | | | |
| 7 | Smart coil tubing unit Mob/De-mob. | 1,600 | KM | | | |
| 8 | Smart coil tubing unit crew Mob/De-mob. | 1,600 | KM | | | |
| Crane Services Inclusive of Operator | | | | | | |
| 9 | 40-50 ton Hydraulic Crane Operating Charges. | 3 | Days | | | |
| 10 | 40-50 ton Hydraulic Crane Standby Charges. | 3 | Days | | | |
| 11 | Crane with operator Mob/De-mob. | 1,600 | KM | | | |
| Total/Job (US\$) | | | | | | |
| Total for 15 Jobs (US\$) | | | | | | |

| (B) Inflatable Permanent/Retrievable Bridge Plugs: | | | | | | | |
|---|--|------|------|----------------------|--------------|-------------------|--------------|
| Sr. | Description | Qty. | UOM | Unit Rate (US\$/UOM) | | Total Cost (US\$) | |
| | | | | Retrieved | Left in hole | Retrieved | Left in hole |
| 1 | Inflatable bridge plugs (2-7/8" tubing to 5"-7" Liner/casing) on location charges. | 2 | Nos. | | | | |
| 2 | Inflatable Bridge plugs (3-1/2" tubing to 5"-7" Liner/casing) on location charges. | 2 | Nos. | | | | |
| 3 | Inflatable Bridge plugs (4-1/2" tubing to 5"-7" Liner/casing) on location charges. | 2 | Nos. | | | | |
| 4 | Inflatable Bridge plugs (5-1/2" tubing to 7" to 9-5/8" Liner/casing). | 2 | Nos. | | | | |
| Total Cost(US\$) | | | | | | | |

| (C) Inflatable Bridge Plug Services (Permanent/Retrievable): | | | | | |
|---|--|-------------|------------|------------------|----------------------|
| Sr. | Description | Qty. (Q) | UOM (U) | Unit Cost (P) | Total Cost =P x Q |
| | | | | US\$/UOM | US\$ |
| 1 | Inflatable Bridge plugs crew with setting kit Operating Charges. | 3 | Day | | |
| 2 | Inflatable Bridge plugs crew with setting kit Standby Charges. | 3 | Day | | |
| 3 | Inflatable Bridge plugs crew including setting kit Mob/De-mob. | 1,600 | KM | | |
| Total/Job (US\$) | | | | | |
| Total for 7 Jobs (US\$) | | | | | |

| Table Totalizer Group "C" | | |
|----------------------------------|--|--------------|
| Table | Description | Value (US\$) |
| Table A | Smart coil services. | |
| Table B | Inflatable Bridge Plugs (Permanent/Retrievable), (Left In Hole Cost to be used). | |
| Table C | Inflatable Permanent/Retrievable Bridge Plug services. | |
| GRAND TOTAL OF GROUP "C" | | |

Note for all Groups (GROUP A, B & C):

- Financial Evaluation shall be carried out on Group wise/Grand Total of each Group and contract shall be awarded to lowest evaluated bidder for each Group.
- Same unit rates to be quoted for same item in all tables for specific group.
- Any additional items not covered in the table may be utilized as per published price book, if required, subject to approval of OGDCL Management.