TERMS OF REFERENCE (TOR)

FOR

HIRING OF COIL TUBING, NITROGEN PUMPING, NITROGEN, STIMULATION, THRU TUBING, SMART COIL & ASSOCIATED SERVICES



TENDER ENQUIRY # PROC-SERVICES/CB/PROD-4604/2020

TERMS OF REFERENCE / SCOPE OF WORK

1. SCOPE OF WORK:

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

Coil tubing, Nitrogen Pumping, Nitrogen, Stimulation, Thru tubing & associated services for OGDCL 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 150 wells.

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

Coil tubing, Nitrogen Pumping, Nitrogen, Stimulation, Thru tubing & associated services for OGDCL 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 wells.

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

Acquiring Smart Coil and Retrievable/Permanent Inflatable Bridge plug services for Nitrogen Pumping, Zonal Isolation, Perforations, Packer/bridge plug setting, Stimulation, Thru-Tubing & Associated Services at OGDCL Wells Located all over Pakistan on rate running and call out basis over a period of three (03) years for estimated thirty 30 wells.

2. CRITERIA FOR PARTICIPATING IN BIDDING PROCESS:

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

 To meet the equipment and crew requirement set forth in the Technical Evaluation criteria for Group "A" (Punjab & KPK).
- **GROUP "B": PROVISION OF COIL TUBING, NITROGEN PUMPING, NITROGEN, STIMULATION, THRU TUBING & ASSOCIATED SERVICES FOR SINDH & BALUCHISTAN:**To meet the equipment and crew requirement set forth in the Technical Evaluation criteria for Group "B" (Sindh & Baluchistan).
- 2.3 GROUP "C": PROVISION OF SMART COIL AND RETRIEVABLE/PERMANENT INFLATABLE BRIDGE PLUG SERVICES ALL OVER PAKISTAN: To meet the equipment and crew requirement set forth in the Technical Evaluation criteria for Group "C" (All over Pakistan).
- 2.4 GROUP "A": PROVISION OF COIL TUBING, NITROGEN PUMPING, NITROGEN, STIMULATION, THRU TUBING & ASSOCIATED SERVICES FOR PUNJAB & KPK AND GROUP "C": PROVISION OF SMART COIL AND RETRIEVABLE/PERMANENT INFLATABLE BRIDGE PLUG SERVICES ALL OVER PAKISTAN: To meet the equipment and crew requirement set forth in the Technical Evaluation criteria for Group "A" (Punjab & KPK) Plus Group "C" (All over Pakistan).
- 2.5 GROUP "B": PROVISION OF COIL TUBING, NITROGEN PUMPING, NITROGEN, STIMULATION, THRU TUBING & ASSOCIATED SERVICES FOR SINDH & BALUCHISTAN AND GROUP "C": PROVISION OF SMART COIL AND RETRIEVABLE/PERMANENT INFLATABLE BRIDGE PLUG SERVICES ALL OVER PAKISTAN: To meet the equipment and crew requirement set forth in the Technical Evaluation criteria for Group "B" (Sindh & Baluchistan) Plus Group "C" (All over Pakistan).

- 2.6 GROUP "A" (PUNJAB & KPK) & GROUP "B" (SINDH & BALUCHISTAN):

 PROVISION OF COIL TUBING, NITROGEN PUMPING, NITROGEN, STIMULATION, THRU

 TUBING & ASSOCIATED SERVICES: To meet the equipment and crew requirement set forth in the Technical Evaluation criteria for Group "A" (Punjab & KPK) Plus Group "B" (Sindh & Baluchistan).
- 2.7 GROUP "A" (PUNJAB & KPK) & GROUP "B" (SINDH & BALUCHISTAN): PROVISION OF COIL TUBING, NITROGEN PUMPING, NITROGEN, STIMULATION, THRU TUBING & ASSOCIATED SERVICES AND GROUP "C": PROVISION OF SMART COIL AND RETRIEVABLE/PERMANENT INFLATABLE BRIDGE PLUG SERVICES ALL OVER PAKISTAN:

 To meet the equipment and crew requirement set forth in the Technical Evaluation criteria for Group "A" (Punjab & KPK) Plus Group "B" (Sindh & Baluchistan) Plus Group "C" (All over Pakistan).

3. **General Terms and Conditions for All Groups:**

- **3.1** Bidders quoting for multiple groups have to submit single technical bid clearly mentioning on front page the groups for which the bid is being submitted, however financial proposal to be submitted separately for each group in separate envelopes. Combined financial bids for multiple groups will not be accepted.
- **3.2** The bidders will be evaluated separately for each Group. Contract will be awarded to lowest evaluated bidder separately for each group.
- 3.3 All certificates, documents, proof of work etc. should be in English language; if not then they shall be accompanied with certified translation to English language to be considered for evaluation.
- 3.4 The bidder participating against any group shall arrange all services for that specific group as per criteria mentioned below in technical section for each group. Failing to do so, the contract will be terminated and corresponding Performance Bank Guarantee will be confiscated.
- **3.5** All QHSE responsibility shall rest with the contractor for any third party equipment and personnel supplied by the contractor.
- **3.6** All the equipment should be in good working condition for the performance of the services, provide calibration certification and third party inspection certificates.
- 3.7 If some tools are not available in Pakistan, then bidder have to shift the same to Pakistan within 45 Days after signing of contract. OGDCL shall not be liable to pay mobilization/demobilization charges, of any tools/equipment for bringing them to Pakistan that may be located elsewhere.
- **3.8** Contractor will provide Check List of Equipment, Tools and other accessories before mobilizing to wellsite.
- **3.9** HSE / Safety related equipment should be available with Coil tubing unit.
- 3.10 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.
- **3.11** Any type of fluid can be pumped through coil tubing using pumping/stimulation equipment e.g. mud, stimulation slurry, sand plug slurry, cement plug slurry etc.

- **3.12** Adequate back-up services / equipment should be available on well site. However, OGDCL will not pay for backup equipment.
- **3.13** Company 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.
- **3.14** All technical details for items specified in Section "Technical Evaluation Criteria" must be covered in the Technical Bid.
- 3.15 Contractor to provide Standard Price List for Material, Equipment, consumables and tools required for the performance of the job. The same will be used as reference for obtaining additional approvals when required. No terms and conditions specified in contractor price list will be applicable unless agreed by the company.
- **3.16** Company reserves the right to procure or hire and Contractor hereby agrees to provide any of the Material, Equipment, consumables, tools listed in the attached standard price list during the entire duration of the Contract.
- **3.17** The terms and conditions, if any, in the standard price list are to be superseded by the Contract terms and conditions.
- **3.18** The Equipment and crew have to work round the clock as per operational activities.
- **3.19** Bidders to attach unpriced financial bids in their technical bids.
- 3.20 Bidder to submit their technical bids in Hard as well as in soft form.
- 3.21 Stimulation job is performed either through bull heading or through Coil tubing.
- **3.22** All equipment must be H2S compliant.
- **3.23** Maximum notice period for each call-out is 7 days and transit time from company base to OGDCL location is 4 days.
- 3.24 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 his mobilization. In case company fails to provide the necessary documentation, OGDCL reserves the right to cancel the personnel operation and stand by charges for that particular job.
- 3.25 The bidder to provide complete list of personnel to be deployed for the jobs along with detailed 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.
- **3.26** The type and number of jobs performed by personnel must be clearly mentioned on CV.
- **3.27** OGDCL reserves the right to ask bidder for the replacement of any of their personnel who is / are unacceptable to OGDCL for his / their incompetence or misbehavior at Contract holder's expense.
- **3.28** 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.
- **3.29** Invoice for unsuccessful jobs will not be paid.

- **3.30** Bidder must quote the cost of every item of financial bid format otherwise incomplete bid will not be entertained. Bidder must strictly follow and quote prices as per financial bid format. No clause with "if & but" having financial impacts will be entertained and in such case bid will be treated as nonresponsive.
- **3.31** The format for rates (Unit Rates) and TOR will be the part of contract along with financial evaluation tables.
- **3.32** Evaluation Tables are for Evaluation purpose only, job design and acid recipes may change as per actual well conditions.
- **3.33** The number of wells mentioned against each job model are estimated and for evaluation purpose only. Number of wells against each model may vary as per actual requirement.
- **3.34** 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.
- **3.35** Rig up/Rig down and chemical mixing period before start of job will be paid as standby for both equipment and crew.
- **3.36** Lighting arrangement if required at well site is to be arranged by the bidder.
- **3.37** Daily operating charges for CTU / crew if applicable would commence from the date / time coil tubing is lowered in the well bore and would cease when coil tubing is out of hole.
- **3.38** 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.
- **3.39** The Coil Tubing cumulative depth is defined as the accumulated downward movement of the Coil Tubing.
- **3.40** Coil size requirement for All Groups
 - i) 1.5" Coil size upto 5500 M length along with each coil tubing unit and 01 additional 1.5" coil for backup.
 - ii) One set each for 1.75" and 2" coil sizes additionally required for utilization as per OGDCL requirement.
- **3.41** 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).
- 3.42 Daily operating charges for Nitrogen pumper / crew if applicable would commence when the Nitrogen cool down / pumping is started and would cease when Nitrogen pumping is finished.
- **3.43** Daily operating charges for Pumping/Stimulation package crew would commence when pumping is started and would cease when the job is accomplished and pumping unit is switched off.
- 3.44 Daily operating charges for Pump unit Equipment and crew would commence when pumping is started and would cease when the job is accomplished and pumping unit is switched off.

- 3.45 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.
- **3.46** The Standby rates of equipment and personnel must not exceed 50% of operating charges for all equipment / crew.
- **3.47** The number of days for operating and standby and millage are for evaluation purpose only, payment will be made as per actual.
- **3.48** Smart coil tubing services are being hired for all over Pakistan, therefore any third party/OGDCL services for Stimulation, cementing and other services may be utilized along with smart coil.
- **3.49** OGDCL has the sole discretion to utilize the service as whole or partial and service company have to provide the services against each group as per OGDCL requirement.
- **3.50** Stimulation/Pumping Package services of Group "A" and "B" can be utilized along with smart coil services for respective zones.
- **3.51** Pump unit Services includes pumper and surface piping may be used for pressure testing, batch treatment, pumping of mud and brine, crude oil, diesel, gel etc.
- **3.52** Stimulation Equipment Package includes Pumpers, Chemical Transfer Pump, Centrifugal pumps, RMX/Batch Mixer/Blender, 500 BBL storage tank(s), Chemical truck, Surface piping etc. and all other necessary equipment which ever required for successful stimulation job.
- 3.53 Pumping Equipment Package includes Pumper, Chemical Transfer Pump, Centrifugal pumps, RMX/Batch Mixer/Blender, 500 BBL storage tank, Chemical truck/tanker, Surface piping etc. and all other necessary equipment whichever required for successful job. Pumping equipment will be used for pressure testing, batch treatment, pumping of mud, brine pumping, crude oil, diesel, gel etc.
- 3.54 No mob/demob charges for equipment and crew shall be applicable for well to well movement within the same field.
- 3.55 Mob/De-Mob charges for equipment & crew will only be applicable if transport is not provided by OGDCL and 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.
- **3.56** 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.
- 3.57 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 corrosion inhibitor and inhibitor Aid. Extra charges for chemicals to combat corrosive environment is not to be paid by OGDCL in case of corrosive environment.
- 3.58 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.
- 3.59 The lost in hole (LIH)/DBR charges of bottom hole tools (BHA) 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.
- **3.60** Bidder must give "Clean acceptance certificate" of OGDCL terms and conditions and if exceptions are found, the bidder will withdraw all exceptions.
- **3.61** 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.

4. **Duration of Contract:**

4.1 The duration of the contract for each group is three (03) years therefore the Bid proposal/rates should remain valid unconditionally during the period of contract. The Rate Running Contract (as and when required basis) will remain intact till the completion of jobs on wells where Service Company 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 payments to the Service Company will be made through cross cheque in 100% Pak Rupees, at actual, against verified invoices at official exchange rate prevalent on the date of payment.

6. Bid Bond:

- **6.1** For each Group, following amount of Bid Bond/Bid Security is required to be attached/provided with technical bid.
 - Group-A: USD 47,850/- (US Dollars Forty seven thousand eight hundred fifty only) Group-B: USD 47,850/- (US Dollars Forty seven thousand eight hundred fifty only) Group-C: USD 24,150/- (US Dollars Twenty four thousand one hundred fifty only)
- **6.2** Please see Master Set of Tender Document for further details.

7. Bidding Method:

7.1 Bids against this tender are invited on "Single Stage Two Envelope Bidding Procedure" through press tendering, therefore, the bidders shall submit original and copy of their Technical and one original Financial bid along with soft copies of technical bids sealed in their respective envelopes.

<u>Note:</u> The Master Set of Tender Documents for Services uploaded on OGDCL's website (<u>www.ogdcl.com</u>) is the integral part of this TOR.

TECHNICAL EVALUATION

DOCUMENTATION FOR TECHNICAL EVALUATION

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

- Complete list of personnel to be deployed for the jobs as mentioned in technical
 evaluation criteria along with detailed 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 jobs (both primary and
 backup crews). Note that the defined crew members shall not be changed without the
 prior consent of the Company.
- 2. Detailed list of necessary equipment to perform the intended Coil Tubing and Stimulation jobs in a safe and efficient manner along with their pressure and temperature ratings.
- 3. Third party certification of all the equipment etc. along with dates of last testing/inspection.

TECHNICAL EVALUATION CRITERIA

- 1. Only technically qualified bidder(s) will be considered for commercial evaluation.
- 2. OGDCL reserves the right to visit bidder's operational base and 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 requirements below to technically qualify. 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 the Bidders who have provided similar services to OGDCL/PPEPCA (PETROLEUM Exploration and Production Companies Association) in the past are required to provide documentary evidence of Satisfactory Performance/Experience.
- 5. 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.
 - Minimum of 03 years' international experience for provision of CTU, Stimulation, smart coil, thru tubing and Allied Services required along with documentary evidence of satisfactory performance.
 - i) 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 with Three (03) Nitrogen Kickoff and stimulation packages each for group "A" and Group "B" and smart coil services as per requirement mentioned under technical evaluation criteria for Group "C" within 45 days of signing of contract with OGDCL. Failing to do so will result in termination of contract and confiscation of bank guarantee.

For the Bidder already providing the services in Pakistan as per tender document must have:

- i) All equipment and crew must be available in Pakistan at the time of bidding except those mentioned otherwise.
- ii) The bidder to provide commitment to arrange third package for Nitrogen Kick off and Stimulation jobs for each group within 45 Days after signing of contract.

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

1. **EQUIPMENT**

Sr.	Description	Availability
1.COIL	TUBING SERVICES	
1.1	COIL TUBING UNIT/ REEL/INJECTOR HEAD	
1.1.1	Availability of Minimum Two (2) Coil Tubing Units with capacity for coil sizes 1.5", 1.75" and 2" and coil length 5,500 M complete with all valid certificates.	Yes/No
1.1.2	Commitment to arrange additional unit within 45 Days of signing of contract.	Yes/No
1.1.3	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
1.1.4	Availability of Injector Heads with pulling capacity of 60K lbs.	Yes/No
1.1.5	Availability of Injector Heads with pulling capacity of 80K lbs.	Yes/No
1.2	PRESSURE CONTROL EQUIPMENT (02 BOPS WITH EACH UNIT)	Yes/No
1.2.1	WCE Remote Control Panel (To be operated from Control Cabin)	Yes/No
1.2.2	10K Psi Rating WCE (CAT-I), Compatible to H2S Environment	Yes/No
1.2.3	10K Psi Rating WCE (CAT-II), Compatible to H2S Environment	Yes/No
1.2.4	15K Psi Rating WCE (CAT-III), Compatible to H2S Environment	Yes/No
1.3	ADDITIONAL SERVICES/CAPABILITIES	Yes/No
1.3.1	Adapters/X-overs for Coil Tubing rig-up (List to be provided) as per operator standard tree top/Drill Pipe connections without any financial impact	Yes/No
1.3.2	Availability of Thru Tubing Milling/Fishing Tools with backup for completion sizes 2-3/8" to 7". Complete package (List of tools inventory to be provided) (Can be arranged and made available in Pakistan within 45 Days after signing of contract either OWN or through third Party contracting)	Yes/No
1.3.3	High Speed Rotating & Jetting Tools at least 02 Nos.	Yes/No
1.3.4	Data Acquisition System at least 02 Nos.	Yes/No
2.0	STIMULATION & PUMPING SERVICES	Yes/No
2.1	PUMPING UNITS 10 K/15 K PSI WP SINGLE/TWIN PUMPING UNIT	Yes/No
2.1.1	Minimum 02 Pumping Unit 350 Hp -500 Hp.	Yes/No
2.1.2	Hook up Piping 15,000 Psi rating for performing jobs simultaneously at 02 OGDCL wells immediately after signing of contract and simultaneously on 03 OGDCL wells within 45 days after signing of contract with OGDCL.	Yes/No
2.1.3	Commitment to provide third pumping unit along with 15K surface piping within 45 Days after signing of contract with OGDCL.	Yes/No
2.2	MIXING/TANKS WITH HOOK UP PIPING	Yes/No
2.2.1	50 bbl Batch Mixer at least 03 Nos.	Yes/No
2.2.2	100 bbl Paddle Batch Mixer at least 02 Nos.	Yes/No
2.2.3	500 bbl Storage Tanks at least 03 Nos.	Yes/No
2.2.4	250-300 bbl Storage Tanks at least 02 Nos.	Yes/No
2.3	STIMULATION RECIPES AND STIMULATION SOFTWARE	Yes/No
2.3.1	Stimulation recipes in line with ITB	Yes/No
2.3.2	Stimulation software (Commitment for availability throughout the contract validity)	Yes/No
3	NITROGEN PUMPING SERVICES	Yes/No
3.1	Minimum 02 Nitrogen Pumping units with hook up.	Yes/No
3.2	Minimum 02 Nos. liquid nitrogen cryogenic storage tank. Min 2500 Gals Capacity	Yes/No
3.3	Commitment to arrange 3 rd Nitrogen Pumping unit and cryogenic storage tank within 45 Days after signing of contract.	Yes/No

4	ZONE-II CERTIFICATION	Yes/No
4.1	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
5	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.	Yes/No

2. CREW

Sr.	QUALIFICATION/EXPERIENCE OF CREW MEMBERS	Availability
1	CTU ENGINEERS / SPECIALIST (AT LEAST 2 ENGINEERS) Graduate Engineer with minimum five (5) years of exclusive experience of planning,	Yes/No
	designing and executing Coil Tubing operations along with relevant training(s) and	
	certified courses etc.	
	Must have Designed and Performed following jobs.	
	Nitrogen Kick Off = 100 Jobs	
	• Stimulation = 100 Jobs	
	 Thru tubing = 50 Jobs. (Attach CV and Training/Certificates) 	
2	THRU TUBING ENGINEERS (AT LEAST 2 ENGINEER)	Yes/No
_	Graduate Engineer with minimum five (5) years of exclusive experience of performing	163/110
	thru tubing jobs with CTU along with relevant training(s) and certified courses etc.	
	 Must have Designed and Performed 50 thru tubing jobs. 	
	(Attach CV and Training/Certificates)	
3	STIMULATION ENGINEERS / SPECIALIST (AT LEAST 2 ENGINEERS)	Yes/No
	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	
	Sand Stone Stimulation = 100 Jobs	
	 Lime Stone Stimulation = 100 Jobs 	
	HPHT Stimulation = 20 Jobs.	
	(Attach CV and Training/Certificates)	
4	CTU AND STIMULATION SUPERVISOR (AT LEAST 3 SUPERVISORS FOR EACH CATEGORY)	Yes/No
	Technical diploma holder with minimum of Five (05) years of exclusive experience of	
	planning, designing and executing Coil Tubing jobs for CTU supervisor and Stimulation	
	jobs for stimulation supervisor along with relevant training(s) and certified courses etc.	
	CTU supervisors must have Performed following jobs.	
	Nitrogen Kick Off Jobs = 100 Jobs	
	• Stimulation Jobs = 100 Jobs	
	Through tubing jobs = 20 Jobs. Stimulation Supervisors and following into the second se	
	Stimulation Supervisors must have Performed following jobs. • Sand Stone Stimulation = 100 Jobs	
	Lime Stone Stimulation Jobs = 100 Jobs	
	 Lime Stone Stimulation Jobs = 100 Jobs HPHT Stimulation Jobs = 20 Jobs. 	
	(Attach CV and Training/Certificates)	

5	OPERATOR (AT LEAST 05 OPERATORS FOR EACH CATEGORY)	Yes/No
	Technical diploma holder/ matric with at least Five (05) years of relevant experience of	
	executing Coil Tubing for CTU operator and Stimulation jobs for stimulation operator,	
	along with relevant certification and training courses etc.	
	CTU Operators must have Performed following jobs.	
	Nitrogen Kick Off Jobs = 100 Jobs	
	• Stimulation Jobs = 100 Jobs	
	 Through tubing jobs = 50 Jobs. 	
	Stimulation Operators must have Performed following jobs	
	 Sand Stone Stimulation (Sand Stone) = 100 Jobs 	
	 Lime Stone Stimulation Jobs = 100 Jobs 	
	• HPHT Stimulation Jobs = 20 Jobs.	
	(Attach CV and Training/Certificates)	
6	Commitment to provide additional manpower for additional equipment for carrying of	Yes/No
	acid stimulation, nitrogen kick off and thru tubing jobs simultaneously on Three(03)	
	OGDCL wells within 45 days after signing of contract.	

3. COMPANY PROFILE

Sr.	Description	Availability
1	BIDDER'S HISTORY (ATTACH PROOF)	
1.1	Company registered in Pakistan or elsewhere for Providing Coil Tubing and Stimulation Services. Minimum registration period = 03 Years.	Yes/No
2	BIDDER'S CAPABILITIES	
2.1	Capability in terms of equipment and crew to perform job on Deep wells (+5200 meters) with H2S environment simultaneously on 02 OGDCL wells. Commitment to provide additional equipment and crew to perform jobs simultaneously on three (03) OGDCL wells within 45 Days of signing of contract.	Yes/No
2.2	Capability in terms of equipment and crew to provide stimulation solutions for Sandstone & Limestone.	Yes/No
2.3	Capability to handle job volumes upto 2,000 bbl	Yes/No
2.4	Providing Lab & XRD Facilities, or commitment thereof for provision of required Tests from reputed Laboratory anywhere around the globe.	Yes/No
2.5	Placing Sand Plug, Cement Plug Thru Coil tubing.	Yes/No
2.6	Thru tubing services	Yes/No
2.7	Pumping & Handling more than 20,000 Gallons LN2.	Yes/No
2.8	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 also to be provided by the bidder.	Yes/No
2.9	Bidder, to provide published Pressure Control Manual for standard Coil Tubing operations & Stimulation Services.	Yes/No
2.10	Bidder, to provide free of cost 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/certifications and location where training will be performed.	Yes/No

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

1. **EQUIPMENT**

Sr.	Description	Availability
1.COIL	TUBING SERVICES	
1.1	COIL TUBING UNIT/ REEL/INJECTOR HEAD	
1.1.1	Availability of Minimum Two (2) Coil Tubing Units with capacity for coil sizes 1.5", 1.75" and 2" and coil length 5,500 M complete with all valid certificates.	Yes/No
1.1.2	Commitment to arrange additional unit within 45 Days of signing of contract.	Yes/No
1.1.3	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
1.1.4	Availability of Injector Heads with pulling capacity of 60K lbs.	Yes/No
1.1.5	Availability of Injector Heads with pulling capacity of 80K lbs.	Yes/No
1.2	PRESSURE CONTROL EQUIPMENT (02 BOPS WITH EACH UNIT)	Yes/No
1.2.1	WCE Remote Control Panel (To be operated from Control Cabin)	Yes/No
1.2.2	10K Psi Rating WCE (CAT-I), Compatible to H2S Environment	Yes/No
1.2.3	10K Psi Rating WCE (CAT-II), Compatible to H2S Environment	Yes/No
1.2.4	15K Psi Rating WCE (CAT-III), Compatible to H2S Environment	Yes/No
1.3	ADDITIONAL SERVICES/CAPABILITIES	Yes/No
1.3.1	Adapters/X-overs for Coil Tubing rig-up (List to be provided) as per operator standard tree top/Drill Pipe connections without any financial impact	Yes/No
1.3.2	Availability of Thru Tubing Milling/Fishing Tools with backup for completion sizes 2-3/8" to 7". Complete package (List of tools inventory to be provided) (Can be arranged and made available in Pakistan within 45 Days after signing of contract either OWN or through third Party contracting)	Yes/No
1.3.3	High Speed Rotating & Jetting Tools at least 02 Nos.	Yes/No
1.3.4	Data Acquisition System at least 02 Nos.	Yes/No
2.0	STIMULATION & PUMPING SERVICES	Yes/No
2.1	PUMPING UNITS 10 K/15 K PSI WP SINGLE/TWIN PUMPING UNIT	Yes/No
2.1.1	Minimum 03 Pumping Unit 350 Hp -500 Hp.	Yes/No
2.1.2	Hook up Piping 15,000 Psi rating for performing jobs simultaneously at 02 OGDCL wells immediately after signing of contract and simultaneously on 03 OGDCL wells within 45 days after signing of contract with OGDCL.	Yes/No
2.1.3	Commitment to provide third pumping unit along with 15K surface piping within 45 Days after signing of contract with OGDCL.	Yes/No
2.2	MIXING/TANKS WITH HOOK UP PIPING	Yes/No
2.2.1	50 bbl Batch Mixer at least 03 Nos.	Yes/No
2.2.2	100 bbl Paddle Batch Mixer at least 02 Nos.	Yes/No
2.2.3	500 bbl Storage Tanks at least 03 Nos.	Yes/No
2.2.4	250-300 bbl Storage Tanks at least 02 Nos.	Yes/No
2.3	STIMULATION RECIPES AND STIMULATION SOFTWARE	Yes/No
2.3.1	Stimulation recipes in line with ITB	Yes/No
2.3.2	Stimulation software (Commitment for availability throughout the contract validity)	Yes/No
3	NITROGEN PUMPING SERVICES	Yes/No
3.1	Minimum 02 Nitrogen Pumping units with hook up.	Yes/No

3.2	Minimum 02 Nos. liquid nitrogen cryogenic storage tank. Min 2500 Gals Capacity	Yes/No
3.3	Commitment to arrange 3 rd Nitrogen Pumping unit and cryogenic storage tank within 45 Days after signing of contract.	Yes/No
4	ZONE-II CERTIFICATION	Yes/No
4.1	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
5	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.	Yes/No

2. CREW

Sr.	QUALIFICATION/EXPERIENCE OF CREW MEMBERS	Availability
1	CTU ENGINEERS / SPECIALIST (AT LEAST 2 ENGINEERS) 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. Nitrogen Kick Off = 100 Jobs Stimulation = 100 Jobs Thru tubing = 50 Jobs. (Attach CV and Training/Certificates)	Yes/No
2	THRU TUBING ENGINEERS (AT LEAST 2 ENGINEER) 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. • Must have Designed and Performed 50 thru tubing jobs. (Attach CV and Training/Certificates)	Yes/No
3	STIMULATION ENGINEERS / SPECIALIST (AT LEAST 2 ENGINEERS) 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 Sand Stone Stimulation = 100 Jobs Lime Stone Stimulation = 100 Jobs HPHT Stimulation = 20 Jobs. (Attach CV and Training/Certificates)	Yes/No
4	CTU AND STIMULATION SUPERVISOR (AT LEAST 3 SUPERVISORS FOR EACH CATEGORY) Technical diploma holder with minimum of Five (05) years of exclusive experience of planning, designing and executing Coil Tubing jobs for CTU supervisor and Stimulation jobs for stimulation supervisor along with relevant training(s) and certified courses etc. CTU supervisors must have Performed following jobs. Nitrogen Kick Off Jobs = 100 Jobs Stimulation Jobs = 100 Jobs Through tubing jobs = 20 Jobs. Stimulation Supervisors must have Performed following jobs. Sand Stone Stimulation = 100 Jobs Lime Stone Stimulation Jobs = 100 Jobs HPHT Stimulation Jobs = 20 Jobs. (Attach CV and Training/Certificates)	Yes/No

5		Yes/No
	Technical diploma holder/ matric with at least Five (05) years of relevant experience	
	of executing Coil Tubing for CTU operator and Stimulation jobs for stimulation	
	operator, along with relevant certification and training courses etc.	
	CTU Operators must have Performed following jobs.	
	Nitrogen Kick Off Jobs = 100 Jobs	
	Stimulation Jobs = 100 Jobs	
	Through tubing jobs = 50 Jobs.	
	Stimulation Operators must have Performed following jobs	
	Sand Stone Stimulation (Sand Stone) = 100 Jobs	
	Lime Stone Stimulation Jobs = 100 Jobs	
	HPHT Stimulation Jobs = 20 Jobs.	
	(Attach CV and Training/Certificates)	
6	Commitment to provide additional manpower for additional equipment for carrying	Yes/No
	of acid stimulation, nitrogen kick off and thru tubing jobs simultaneously on	
	Three(03) OGDCL wells within 45 days after signing of contract.	

3. **COMPANY PROFILE**

Sr.	Description	Availability
1	BIDDER'S HISTORY (ATTACH PROOF)	
1.1	Company registered in Pakistan or elsewhere for Providing Coil Tubing and Stimulation Services. Minimum registration period = 03 Years.	Yes/No
2	BIDDER'S CAPABILITIES	
2.1	Capability in terms of equipment and crew to perform job on Deep wells (+5200 meters) with H2S environment simultaneously on 02 OGDCL wells. Commitment to provide additional equipment and crew to perform jobs simultaneously on three (03) OGDCL wells within 45 Days of signing of contract.	Yes/No
2.2	Capability in terms of equipment and crew to provide stimulation solutions for Sandstone & Limestone.	Yes/No
2.3	Capability to handle job volumes upto 2,000 bbl	Yes/No
2.4	Providing Lab & XRD Facilities, or commitment thereof for provision of required Tests from reputed Laboratory anywhere around the globe.	Yes/No
2.5	Placing Sand Plug, Cement Plug Thru Coil tubing.	Yes/No
2.6	Thru tubing services.	Yes/No
2.7	Pumping & Handling more than 20,000 Gallons LN2.	Yes/No
2.8	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 also to be provided by the bidder.	Yes/No
2.9	Bidder, to provide published Pressure Control Manual for standard Coil Tubing operations & Stimulation Services.	Yes/No
2.10	Bidder, to provide free of cost 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/certifications and location where training will be performed.	Yes/No

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

1. **EQUIPMENT**

Sr.	Description	Availability
1.COIL T	UBING SERVICES	
1.1	Smart Coil Tubing Unit/ Reel/Injector Head	
1.1.1	Availability of at least One (01) Coil Tubing Unit with capacity for coil sizes 1.5", 1.75" and 2" and coil length 5,500 M complete with all valid certificates available anywhere around the globe at the time of bidding.	Yes/No
1.1.2	Commitment to shift the smart coil services to Pakistan within 45 Days after signing of contract.	Yes/No
1.1.3	The Coil tubing units equipped with latest real time monitoring software (fatigue computation, ovality monitoring and data acquisition), with self-aligning sliding Goose Neck, Separate Power Pack Drive Mechanism and Injector heads.	Yes/No
1.1.4	Capability of delivering live downhole data (differential pressures across CT, Temperature, Depth Correlation) during Nitrogen Kick-off and Stimulation including temperature profiling.	Yes/No
1.1.5	Provision of Acid Stimulation, Nitrogen Kick off, zonal isolation by setting inflatable retrievable/permanent bridge plug and spot cement slurry in the same run.	Yes/No
1.1.6	Ability to pump HCl 15% to 28% to conduct matrix stimulation, acid wash and cleanout services and provide real time stimulation/diversion analysis and effectiveness.	Yes/No
1.1.7	Ability to pump aromatic solvents to conduct cleanout services and provide real time analysis	Yes/No
1.1.8	Availability of Injector Heads with pulling capacity of 60K lbs.	Yes/No
1.1.9	Availability of Injector Heads with pulling capacity of 80K lbs.	Yes/No
1.1.10	At least 01 Smart cable (5,500 M) with logging head	Yes/No
1.2	Pressure Control Equipment	Yes/No
1.2.1	WCE Remote Control Panel (To be operated from Control Cabin)	Yes/No
1.2.2	10K Psi Rating WCE (CAT-I), Compatible to H2S Environment	Yes/No
1.2.3	10K Psi Rating WCE (CAT-II), Compatible to H2S Environment	Yes/No
1.2.4	15K Psi Rating WCE (CAT-III), Compatible to H2S Environment	Yes/No
1.3	Additional Services/Capabilities	Yes/No
1.3.1	Adapters/X-overs for COIL TUBING rig-up (List to be provided) as per operator standard tree top/Drill Pipe connections without any financial impact	Yes/No
1.3.2	Provision of inflatable retrievable/permanent Bridge plugs. (Commitment to Provide within 15 Days of mobilization notice at well site)	Yes/No
1.3.3	Data Acquisition System	Yes/No
2.0	PUMPING SERVICES	Yes/No
2.1	Pumping Units 10 K/15 K psi WP Single/Twin Pumping Unit	Yes/No
2.1.1	At least 01 Pumping Unit 350 Hp -500 Hp.	Yes/No
2.1.2	Hook up Piping 15,000 Psi rating for pressure testing.	Yes/No
2.1.3	Batch Mixer	
3.0	Zone-II Certification	Yes/No
3.1	Coil Tubing unit and pumping units are Zone-II Certified.	Yes/No
4.0	Fully Operational Workshop and Equipment Base set up anywhere in Pakistan with redressing facility and should have adequate backup tools.	Yes/No

2. <u>CREW</u>

Sr.	Qualification/Experience of crew members	Availability
1	CTU Engineers / Specialist (at least 1 Engineer) Petroleum or Mechanical Engineer with min. 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. (Attach CV and Training/Certificates)	Yes/No
2	Smart Coil Operator (at least 02) Technical diploma holder with minimum of Five (05) years' experience of Smart operations. Must have designed and Performed 10 jobs with smart coil. (Attach CV and Training/Certificates)	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 Coiled Tubing and Stimulation jobs, along with relevant certification and training courses etc. CTU Operator must have Performed 100 jobs with CTU. Pumping Operator must have Performed 100 Jobs with pumping equipment. (Attach CV and Training/Certificates)	Yes/No

3. **COMPANY PROFILE**

Sr.	Description	Availability
1	Bidder's History (attach proof)	
1.1	Company registered in Pakistan or elsewhere for Providing Coil Tubing and Stimulation Services. Minimum registration period = 03 Years.	Yes/No
2	Bidder's Capabilities	Yes/No
2.1	Bidder have performed at least 10 job with Smart coil around the globe.	Yes/No
2.2	Have pumping unit with hook up connection to provide pressure testing services.	Yes/No
2.3	Bidder, to provide standard operating procedure (SOPs) for standard Coil Tubing, Smart coil jobs along with Technical manual of Pressure Control Equipment (PCE).	Yes/No
2.4	Bidder, to provide published Pressure Control Manual for standard Coil Tubing operations.	Yes/No
2.5	Bidder, to provide free of cost 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/certifications and location where training will be performed.	I -

HSE FOR ALL GROUPS

Sr.	Description	Remarks
1	Written and approved HSE and Quality Policy	Yes/No
2	QHSE Management System in line with International Standards available to cater	Yes/No
	HSE risks. Or	
	Management System not available however, procedures are available to fulfill	
	minimum QHSE requirements (i.e. Risk Assessment, Environmental risks,	
	Emergency Response Procedures waste management etc.)	
	Note: Copies of QHSE Management System procedures to be attached.	
3	QHSE Responsibilities (CV's to be attached)	Yes/No
3.1	Dedicated QHSE person available to handle QHSE matters. Please provide Job	Yes/No
	Responsibilities and Quality Inspection Plan identifying 3rd party certificates for lifting	
	equipment involved in job.	
3.2	QHSE Responsibilities given to Supervisor in addition to technical job responsibilities	Yes/No

	Hazard Identification & Risk Assessment	Yes/No
4.1	Hazard Identification & Risk Assessment / Job Hazard Analysis are conducted before	Yes/No
	start of project and appropriate preventive measures taken to address hazards.	
	Copies of previously conducted similar assessments to be attached	
5	Environmental Aspect Impact Analysis	Yes/No
5.1	Environmental Aspect Impact Analysis is carried out before start of job and mitigation	Yes/No
	measures taken in account to prevent environmental damage. Copies of previously	
	conducted similar assessments to be attached.	
5.2	Use of National Environmental Quality Standards (NEQS) compliant equipment e.g.	Yes/No
	generators at site. Recent emission reports (last Two (02) years) of equipment /	
	vehicles through accredited environmental Lab. to be attached.	
6	Equipment & Tools	Yes/No
6.1	Maintenance records of all equipment / tools available	Yes/No
6.2	Third party validity certificates of equipment / tools available	Yes/No
7	Waste Management	Yes/No
7.1	Procedures available for Environment Friendly Waste Disposal for hazardous and non-	Yes/No
	hazardous waste available. Please provide copy.	
7.2	Contractor shall arrange for environment friendly disposal of waste produced as result	Yes/No
	of its activities.	
8	Emergency Response Procedure	Yes/No
8.1	Approved Emergency Response Plan available with responsibilities shall be shared	Yes/No
	with OGDCL	
8.2	All types of required emergency handling equipment is available which include but	Yes/No
	not limited to appropriate number of fire extinguishers, first aid boxes, stretcher,	
	SCBA, eye wash stations and multi-gas detectors. Please provide details of	
	equipment.	
9	Incident Reporting	Yes/No
9.1	Incident Reporting Procedure available	Yes/No
9.2	Contractor shall report all incidents and dangerous occurrences to Company's Site	Yes/No
	Representative concerned Government Authorities CIM, District Management etc. as	
	per legal and regulatory requirement.	
10	Project QHSE Performance Report	
10.1	Contractor to submit Project QHSE performance report / statistics to OGDCL Site	Yes/No
		Yes/No Yes/No
	Representative at the end of project.	Yes/No
11	Representative at the end of project. HSE Legal / Regulatory Compliance.	
11 11.1	HSE Legal / Regulatory Compliance. Contractor shall comply with Health & Safety Regulations Mines Act 1923, The Oil &	Yes/No
	HSE Legal / Regulatory Compliance. Contractor shall comply with Health & Safety Regulations Mines Act 1923, The Oil & Gas (Safety In Drilling & Production Regulations 1974)	Yes/No Yes/No Yes/No
	HSE Legal / Regulatory Compliance. Contractor shall comply with Health & Safety Regulations Mines Act 1923, The Oil & Gas (Safety In Drilling & Production Regulations 1974) Contractor shall comply with Environmental Protection ACT 1997 and National	Yes/No Yes/No
11.1	HSE Legal / Regulatory Compliance. Contractor shall comply with Health & Safety Regulations Mines Act 1923, The Oil & Gas (Safety In Drilling & Production Regulations 1974) Contractor shall comply with Environmental Protection ACT 1997 and National Environmental Quality Standards	Yes/No Yes/No Yes/No Yes/No
11.1 11.2 12	HSE Legal / Regulatory Compliance. Contractor shall comply with Health & Safety Regulations Mines Act 1923, The Oil & Gas (Safety In Drilling & Production Regulations 1974) Contractor shall comply with Environmental Protection ACT 1997 and National Environmental Quality Standards QHSE Trainings	Yes/No Yes/No Yes/No Yes/No Yes/No
11.1	HSE Legal / Regulatory Compliance. Contractor shall comply with Health & Safety Regulations Mines Act 1923, The Oil & Gas (Safety In Drilling & Production Regulations 1974) Contractor shall comply with Environmental Protection ACT 1997 and National Environmental Quality Standards QHSE Trainings All staff is trained is in basic QHSE trainings i.e. Fire Fighting, First aid, H2S. Please	Yes/No Yes/No Yes/No Yes/No
11.1 11.2 12 12.1	HSE Legal / Regulatory Compliance. Contractor shall comply with Health & Safety Regulations Mines Act 1923, The Oil & Gas (Safety In Drilling & Production Regulations 1974) Contractor shall comply with Environmental Protection ACT 1997 and National Environmental Quality Standards QHSE Trainings All staff is trained is in basic QHSE trainings i.e. Fire Fighting, First aid, H2S. Please provide details / records of the crew.	Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No
11.1 11.2 12 12.1	HSE Legal / Regulatory Compliance. Contractor shall comply with Health & Safety Regulations Mines Act 1923, The Oil & Gas (Safety In Drilling & Production Regulations 1974) Contractor shall comply with Environmental Protection ACT 1997 and National Environmental Quality Standards QHSE Trainings All staff is trained is in basic QHSE trainings i.e. Fire Fighting, First aid, H2S. Please provide details / records of the crew. Staff receives specialized QHSE trainings with respect to their jobs	Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No
11.1 11.2 12 12.1 12.2 13	HSE Legal / Regulatory Compliance. Contractor shall comply with Health & Safety Regulations Mines Act 1923, The Oil & Gas (Safety In Drilling & Production Regulations 1974) Contractor shall comply with Environmental Protection ACT 1997 and National Environmental Quality Standards QHSE Trainings All staff is trained is in basic QHSE trainings i.e. Fire Fighting, First aid, H2S. Please provide details / records of the crew. Staff receives specialized QHSE trainings with respect to their jobs Personal Protective Equipment	Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No
11.1 11.2 12 12.1 12.2	HSE Legal / Regulatory Compliance. Contractor shall comply with Health & Safety Regulations Mines Act 1923, The Oil & Gas (Safety In Drilling & Production Regulations 1974) Contractor shall comply with Environmental Protection ACT 1997 and National Environmental Quality Standards QHSE Trainings All staff is trained is in basic QHSE trainings i.e. Fire Fighting, First aid, H2S. Please provide details / records of the crew. Staff receives specialized QHSE trainings with respect to their jobs Personal Protective Equipment All required personal protective equipment available to all its staff and	Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No
11.1 11.2 12 12.1 12.2 13 13.1	HSE Legal / Regulatory Compliance. Contractor shall comply with Health & Safety Regulations Mines Act 1923, The Oil & Gas (Safety In Drilling & Production Regulations 1974) Contractor shall comply with Environmental Protection ACT 1997 and National Environmental Quality Standards QHSE Trainings All staff is trained is in basic QHSE trainings i.e. Fire Fighting, First aid, H2S. Please provide details / records of the crew. Staff receives specialized QHSE trainings with respect to their jobs Personal Protective Equipment All required personal protective equipment available to all its staff and subcontractors.	Yes/No
11.1 11.2 12 12.1 12.2 13 13.1	HSE Legal / Regulatory Compliance. Contractor shall comply with Health & Safety Regulations Mines Act 1923, The Oil & Gas (Safety In Drilling & Production Regulations 1974) Contractor shall comply with Environmental Protection ACT 1997 and National Environmental Quality Standards QHSE Trainings All staff is trained is in basic QHSE trainings i.e. Fire Fighting, First aid, H2S. Please provide details / records of the crew. Staff receives specialized QHSE trainings with respect to their jobs Personal Protective Equipment All required personal protective equipment available to all its staff and subcontractors. Permit to work	Yes/No
11.1 11.2 12.1 12.2 13 13.1 14.2	Contractor shall comply with Health & Safety Regulations Mines Act 1923, The Oil & Gas (Safety In Drilling & Production Regulations 1974) Contractor shall comply with Environmental Protection ACT 1997 and National Environmental Quality Standards QHSE Trainings All staff is trained is in basic QHSE trainings i.e. Fire Fighting, First aid, H2S. Please provide details / records of the crew. Staff receives specialized QHSE trainings with respect to their jobs Personal Protective Equipment All required personal protective equipment available to all its staff and subcontractors. Permit to work PTW system available and strictly followed	Yes/No
11.1 11.2 12.1 12.1 13.1 14.1 14.2	Contractor shall comply with Health & Safety Regulations Mines Act 1923, The Oil & Gas (Safety In Drilling & Production Regulations 1974) Contractor shall comply with Environmental Protection ACT 1997 and National Environmental Quality Standards QHSE Trainings All staff is trained is in basic QHSE trainings i.e. Fire Fighting, First aid, H2S. Please provide details / records of the crew. Staff receives specialized QHSE trainings with respect to their jobs Personal Protective Equipment All required personal protective equipment available to all its staff and subcontractors. Permit to work PTW system available and strictly followed Vehicle Management	Yes/No
11.1 11.2 12.1 12.2 13.1 14.1 14.2 15.1	Contractor shall comply with Health & Safety Regulations Mines Act 1923, The Oil & Gas (Safety In Drilling & Production Regulations 1974) Contractor shall comply with Environmental Protection ACT 1997 and National Environmental Quality Standards QHSE Trainings All staff is trained is in basic QHSE trainings i.e. Fire Fighting, First aid, H2S. Please provide details / records of the crew. Staff receives specialized QHSE trainings with respect to their jobs Personal Protective Equipment All required personal protective equipment available to all its staff and subcontractors. Permit to work PTW system available and strictly followed Vehicle Management Travelling Policy / Procedure available	Yes/No
11.1 11.2 12.1 12.2 13.1 14.1 14.2 15.	Contractor shall comply with Health & Safety Regulations Mines Act 1923, The Oil & Gas (Safety In Drilling & Production Regulations 1974) Contractor shall comply with Environmental Protection ACT 1997 and National Environmental Quality Standards QHSE Trainings All staff is trained is in basic QHSE trainings i.e. Fire Fighting, First aid, H2S. Please provide details / records of the crew. Staff receives specialized QHSE trainings with respect to their jobs Personal Protective Equipment All required personal protective equipment available to all its staff and subcontractors. Permit to work PTW system available and strictly followed Vehicle Management	Yes/No

FORMAT FOR RATES AND FINANCIAL EVALUATION

FORMAT FOR RATES FOR ALL GROUPS (ALL RATES TO BE QUOTED IN US\$):

Sr.	Description	UOM	Operating Rate	Standby Rate
	·	İ	US\$/L	JOM
COII	TUBING UNIT		•	
1	Coil Tubing Unit with standard BHA upto Category 3 PCE	Day		
2	Coil Tubing crew upto Category 3 PCE	Day		
3	High Pressure Jetting / Rotating Tool.	Day		
4	CT Cumulative Depth Charges for Non-Corrosive Environment.	Meter		
5	CT Cumulative Depth Charges for Corrosive Environment CO2 ≥ 5 %, or H2S ≥ 10 PPM.	Meter		
6	Coil Tubing Unit (Complete set up) Mob/Demob.	KM		
7	Coil Tubing Crew (Complete Crew) Mob/Demob.	KM		
NITE	ROGEN SERVICES		1	
1	Nitrogen Pumping (Includes Nitrogen unit, Nitrogen tank, piping and all other associated equipment)	Day		
2	Nitrogen Pumping Crew (Complete Crew)	Day		
3	Liquid Nitrogen Supply Tanker Standby Charges	Day	N/A	
4	Liquid Nitrogen Volume Pumping Charges	Gal		
5	Liquid Nitrogen Charges	Gal		
6	Nitrogen Pumping Equipment (Complete set up) Mob/Demob	KM		
7	Nitrogen Pumping Crew (Complete crew) Mob/Demob	KM		
8	Liquid Nitrogen Supply Tanker Mob/Demob	KM		
PUN	IPING AND STIMULATION SERVICES			
1	Pumping Package Crew	Day		
2	Stimulation Package Crew	Day		
3	Pump Unit Crew	Day		
4	Supply Truck for Acid Standby Charges	Day	N/A	
5	Pumping Package Equipment	Day	N/A	
6	Stimulation Package Equipment	Day	N/A	
7	Pump Unit with surface piping	Day		
8	Volume Pumping Charges using Pumping Package	Gal		
9	Volume pumping Charges using Stimulation Package	Gal		
10	Volume Pumping Charges using pump unit	Gal		
11	Pumping Package Equipment Mob/Demob	KM		
12	Pumping Package crew Mob/Demob	KM		
13	Stimulation Package Equipment Mob/Demob	KM		
14	Stimulation Package Crew Mob/Demob	KM		
15	Pump Unit Mob/Demob	KM		
16	Pump unit Crew Mob/Demob	KM		
17	Supply Truck for Acid Mob/Demob	KM		
	U TUBING SERVICES			
1	Thru Tubing Crew	Day		

2	Internal Dimple Connector	Day		
3	External Dimple Connector	Day		
4	Upto 2-1/8" Size Down hole filter	Day		
5	Upto 2-1/8" Size Thru Tubing Motor	Day		
6	Upto 2-1/8" Size Thru Tubing weight bar	Day		
7	Upto 2-1/8" Flat Bottom Mill	Day		
8	Upto 2-1/8" Tapered Mill	Day		
9	Upto 2-1/8" Junk Mill	Day		
10	Upto 2-1/8" Impact Hammer	Day		
11	Upto 2-1/8" Accelerator	Day		
12	Centralizer	Day		
13	Pull test sub	Day		
14	Surface filter	Day		
15	Debris Filter Charges	Nos.		
16	Thru Tubing Screen Filter Charges	Nos.		
17	Thru Tubing Tools Mob/Demob	KM		
18	Thru Tubing Crew Mob/Demob	KM		
SMA	ART COIL SERVICES:			
1	Smart Coil tubing unit with necessary BHA upto category 3 PCE (BHA	Day		
	should be compatible for all jobs e.g Packer/Bridge plug setting,			
	Perforations, BHP & BHT surveys, Stimulation, Nitrogen kick off etc.)			
2	Smart Coil tubing crew	Day		
3	Smart Coil Cumulative Depth Charges for Non-Corrosive Environment	Meter		
4	Smart Coil Cumulative Depth Charges for Corrosive Environment CO2≥ 5 % or H2S ≥ 10 PPM	Meter		
5	Smart coil tubing unit Mob/Demob	KM		
6	Smart Coil Crew Mob/Demob	KM		
CRA	NE WITH OPERATOR:			
1	40-50 ton Hydraulic Crane with operator	Day		
2	40-50 ton Hydraulic Crane with operator Mob/Demob	KM		
INFL	ATABLE RETRIEVABLE/PERMANENT BRIDGE PLUG SERVICES:		I	
1	Inflatable Bridge plug crew with setting kit	Day		
2	Inflatable Bridge plug crew including setting kit Mob/Demob.	KM		
	LATABLE RETRIEVABLE/PERMANENT BRIDGE PLUG:	1		
			Unit	Rate
Sr.	Description	UOM	Retrieved	Left in hole
1	Inflatable Bridge plugs (2-7/8" tubing to 5"-7" Liner/casing) on location charges	Number		
2	Inflatable Bridge plugs (3-1/2" tubing to 5"-7" Liner/casing) on location charges	Number		
3	Inflatable Bridge plugs (4-1/2" tubing to 5"-7" Liner/casing) on location charges	Number		
4	Inflatable Bridge plugs (5-1/2" tubing to 7" to 9-5/8" Liner/casing) on location charges	Number		

ACID RECIPES

C	Tuesting Caletian	11004	Un	it rate (US\$/U	OM)
Sr.	Sr. Treating Solution	UOM	Upto 250 °F	Upto 350 ⁰F	Above 350 °F
1	15% HCl solution c/w 2,000 ppm iron control with chelating agent, as per recipe 12 hrs. inhibition time up to 350 °F 08 hrs. inhibition time above 350 °F	Gal			
2	7.5% HCl Solution c/w 2,000 ppm iron control with chelating agent as per recipe 12 hrs. inhibition time up to 350 °F 08 hrs. inhibition time above 350 °F	Gal			
3	Regular Mud Acid solution: (12% HCl + 3%HF) c/w 2,000ppm iron control with chelating agent as per recipe 12 hrs. inhibition time up to 350 °F 08 hrs. inhibition time above 350 °F				
4	10% Acetic Acid Solution c/w 2,000 ppm iron control with chelating agent as per recipe 12 hrs. inhibition time up to 350 °F 08 hrs. inhibition time above 350 °F	Gal			
5	9% Formic Acid solution c/w 2,000ppm iron control with chelating agent as per recipe 12 hrs. inhibition time up to 350 °F 08 hrs. inhibition time above 350 °F	Gal			

CHEMICALS:

C	Dundant Name	Town Dating	Product	11004	Unit rate
Sr.	Product Name	Temp. Rating	Code	UOM	US\$/UOM
		Upto 250 °F		Gal	
1	Corrosion Inhibitor	Upto 350 °F		Gal	
		Above 350 °F		Gal	
		Upto 250 °F		Gal	
2	Corrosion Inhibitor Aid	Upto 350 °F		Gal	
		Above 350 °F		Gal	
		Upto 250 °F		Gal	
3	Organic Corrosion Inhibitor	Upto 350 °F		Gal	
		Above 350 °F		Gal	
		Upto 250 °F		Gal	
4	H2S/CO2 Inhibitor	Upto 350 °F		Gal	
		Above 350 °F		Gal	
		Upto 250 °F		Lbs	
5	Chelating/Iron Control Agent	Upto 350 °F		Lbs	
		Above 350 °F		Lbs	
		Upto 250 °F		Gal	
6	Foaming Agent	Upto 350 °F		Gal	
		Above 350 °F		Gal	
7	Demulsifier	Upto 400 °F		Gal	

8	Anti-Sludge Agent	Upto 400 °F	Gal	
9	32% HCL Acid	Upto 400 °F	Gal	
10	Citric Acid	Upto 400 °F	Gal	
11	Formic Acid	Upto 400 °F	Gal	
12	Acetic Acid	Upto 400 °F	Gal	
13	HF Acid	Upto 400 °F	Gal	
14	H2S Scavenger	Upto 400 °F	Gal	
15	Alcohol	Upto 400 °F	Gal	
16	Methanol	Upto 400 °F	Gal	
17	Mutual Solvent	Upto 400 °F	Gal	
18	Non-Damaging Clean Out Fluid (Gel)	Upto 400 °F	Gal	
19	Xylene	Upto 400 °F	Gal	
20	Surfactant	Upto 400 °F	Gal	
21	Diverting Agent	Upto 400 °F	Gal	
22	Gelling Agent	Upto 400 °F	Gal	
23	Viscoelastic or equivalent diverter	Upto 400 °F	Gal	
24	Toulene	Upto 400 °F	Gal	
25	Ammonium Chloride	Upto 400 °F	Lbs	
26	Potassium Chloride	Upto 400 °F	Lbs	
27	Calcium Chloride	Upto 400 °F	Lbs	
28	Calcium Carbonate	Upto 400 °F	Lbs	
29	Sodium Chloride	Upto 400 °F	Lbs	
30	Soda Ash	Upto 400 °F	Lbs	
31	Caustic Soda	Upto 400 °F	Lbs	
32	Acid Fiber	Upto 400 °F	Lbs	
33	Silica Sand	Upto 400 °F	Lbs	
34	Mesh Sand (30/60)	Upto 400 °F	Lbs	
35	Mesh Sand (20/40)	Upto 400 °F	Lbs	
36	HF intensifier	Upto 400 °F	Lbs	
37	Organic Acid Intensifier	Upto 400 °F	Lbs	

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.

15% 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 Up to 250 °F

Sr.	Product Name	Product Code	иом	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% 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 Up to $350 \, ^{\circ}F$

Sr.	Product Name	Product Code	иом	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% Acid Solution 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	иом	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			
			R	ecipe 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 Up to 250 °F

Sr.	Product Name	Product Code	иом	Unit Rate US\$/UOM	Qty.	Total Rate US\$
1	32% HCl		Gal			
2	Chelating Agent		Ibs			
3	Corrosion Inhibitor		Gal			
4	Corrosion Inhibitor Aid		Gal			
5	Surfactant		Gal			
6	Water		Gal			
				Recipe cost(US\$)	/1,000 Gals	
				Recipe co	st(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 Up to 350 °F **Unit Rate Total Rate US\$** Sr. **Product Name Product Code** UOM Qty. US\$/UOM 32% HCI Gal 2 **Chelating Agent** lbs 3 **Corrosion Inhibitor** Gal Corrosion Inhibitor Aid 4 Gal 5 Surfactant Gal 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 **Product Code Total Rate US\$ Unit Rate UOM Product Name** Sr. Qty. US\$/UOM 1 32% HCI Gal lbs 2 **Chelating Agent Corrosion Inhibitor** Gal Corrosion Inhibitor Aid Gal Surfactant 5 Gal 6 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 Up to 250 0F

Sr.	Product Name	Product Code	иом	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	3
				Recipe cos	st(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 Up to 350 $^{\circ}$ 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

ior	product concentration/1,000 G	iais of Acid recipe	Above 35	υ'n	_	
Sr.	Product Name	Product Code	иом	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	Chelating Agent		lbs			
8	Water		Gal			
			Re	ecipe 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 Up to 250 0 F

Sr.	Product Name	Product Code	иом	Unit Rate US\$/UOM	Qty.	Total Rate US\$
1	Acetic Acid		Gal			
2	Chelating Agent		lbs.			
3	Corrosion Inhibitor		Gal			
4	Surfactant		Gal			
5	Water		Gal			
			Re	ecipe 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 Up to 350 $^{\circ}$ F

Sr.	Product Name	Product Code	UOM	Unit Rate US\$/UOM	Qty.	Total Rate US\$
1	Acetic Acid		Gal			
2	Chelating Agent		lbs.			
3	Corrosion Inhibitor		Gal			
4	Surfactant		Gal			
5	Water		Gal			

Recipe cost(US\$)/Gal						
	Acetic Acid complete with 2,0 duct concentration/1,000 Gals	• •		ating agent, 08	8 hrs. inhibi	tion time for
Sr.	Product Name	Product Code	иом	Unit Rate US\$/UOM	Qty.	Total Rate US\$
1	Acetic Acid		Gal			
2	Chelating Agent		Ibs.			
3	Corrosion Inhibitor		Gal			
4	Surfactant		Gal			

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 Up to 250 °F

Water

Sr.	Product Name	Product Code	иом	Unit Rate US\$/UOM	Qty.	Total Rate US\$
1	Formic Acid		Gal			
2	Chelating Agent		lbs.			
3	Corrosion Inhibitor		Gal			
4	Surfactant		Gal			
5	Water		Gal			
			Re	cipe 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 Up to 350 °F

•		· ·		I		
Sr.	Product Name	Product Code	иом	Unit Rate US\$/UOM	Qty.	Total Rate US\$
1	Formic Acid		Gal			
2	Chelating Agent		lbs.			
3	Corrosion Inhibitor		Gal			
4	Surfactant		Gal			
5	Water		Gal			
		t(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 $^{\rm o}$ F

Sr.	Product Name	Product Code	UOM	Unit Rate US\$/UOM	Qty.	Total Rate US\$
1	Formic Acid		Gal			
2	Chelating Agent		Ibs.			
3	Corrosion Inhibitor		Gal			
4	Surfactant		Gal			

		Gal	Water	5
1,000 Gals	ecipe cost(US\$)/1	Re		
(US\$)/Gal	Recipe cost			

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

(A) N	ITROGEN KICK-OFF				
Sr.	Services	Qty. (Q)	UOM (U)	Unit Cost (P) US\$/ UOM	Total Cost =P x Q US\$
1.5"	/1.75" /2" CT Services (Complete setup/crew)				
1	Coil Tubing Unit with standard BHA upto Category 3 PCE Operating Charges	3	Days		
2	Coil Tubing Unit with standard BHA upto 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	5,000	Meters		
6	Coil Tubing Unit Mob/Demob	1,300	KM		
7	Coil Tubing Crew Mob/Demob	1,300	KM		
Nitrog	gen and pumping Equipment services(Complete Setup/Crew)				
8	Nitrogen Pumping Equipment Operating Charges	3	Days		
9	Nitrogen Pumping Equipment Standby Charges	2	Days		
10	Nitrogen Pumping Crew Operating Charges	3	Days		
11	Nitrogen Pumping Crew Standby Charges	2	Days		
12	Liquid Nitrogen volume Pumping Charges	3,600	Gals		
13	Liquid Nitrogen Charges	4,000	Gals		
14	Liquid Nitrogen Supply Tanker Standby Charges	1	Days		
15	Pump unit Crew Operating Charges	3	Days		
16	Pump unit Crew Standby Charges	2	Days		
17	Pump unit Equipment Operating Charges	3	Days		
18	Pump unit Equipment Standby Charges	2	Days		
19	Volume Pumping Charges using pump unit	1,000	Gals		
20	Nitrogen Pumping Equipment Mob/Demob	1,300	KM		
21	Nitrogen Pumping Crew Mob/Demob	1,300	KM		
22	Pump unit Equipment Mob/Demob	1,300	KM		
23	Pump unit crew Mob/Demob	1,300	KM		
24	Liquid Nitrogen Supply Tanker Mob/Demob	1,300	KM		
Crane	Services inclusive of Operator				
25	40-50 ton Hydraulic Crane Operating	3	Days		
26	40-50 ton Hydraulic Crane Standby	2	Days		

27	Crane with operator Mob/De-mob	1,300	KM		
Total/well (US\$)					
Total for Estimated 70 wells (US\$)					

(B) S	TIMULATION(HCL SOLUTION) / NITROGEN KICK-OFF				
Sr.	Services	Qty. (Q)	UОМ (U)	Unit Cost (P) US\$/ UOM	Total Cost =P x Q US\$
1.5"/	1.75"/2" CT Services (complete Setup/Crew)				
1	Coil Tubing Unit with standard BHA upto Category 3 PCE Operating Charges	3	Days		
2	Coil Tubing Unit with standard BHA upto 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 Unit Mob/Demob	1,300	KM		
7	Coil Tubing Crew Mob/Demob	1,300	KM		
Nitro	gen Services (Complete Setup/Crew)				
8	Nitrogen Pumping Equipment Operating Charges	3	Days		
9	Nitrogen Pumping Equipment Standby Charges	2	Days		
10	Nitrogen Pumping Crew Operating Charges	3	Days		
11	Nitrogen Pumping Crew Standby Charges	2	Days		
12	Liquid Nitrogen Pumping Volume Charges	2,700	Gal		
13	Liquid Nitrogen Charges	3,000	Gal		
14	Liquid Nitrogen Supply Tanker Standby Charges	1	Days		
15	Nitrogen Pumping Equipment Mob/Demob	1,300	KM		
16	Nitrogen Pumping Crew Mob/Demob	1,300	KM		
17	Liquid Nitrogen Supply Tanker Mob/Demob	1,300	KM		
Stimu	lation Services				
18	Stimulation Package Crew Operating Charges	3	Days		
19	Stimulation Package Crew Standby Charges	2	Days		
20	Stimulation Package Equipment Standby Charges	2	Days		
21	Volume Pumping Charges using stimulation Package.	14,000	Gal		
22	Supply Truck for Acid Standby Charges	1	Days		
23	Stimulation package Equipment Mob/Demob	1,300	KM		
24	Stimulation Package Crew Mob/Demob	1,300	KM		
25	Supply Truck for Acid Mob/Demob	1,300	KM		
Limes	tone Treatment				
26	Treating Solution: 15% HCl upto 250 °F c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time	1,000	Gal		
27	Treating Solution: 15% HCl upto 350 °F c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time	1,000	Gal		

28	Treating Solution: 15% HCl above 350 °F c/w 2,000 ppm iron control with chelating agent, 8 hrs. inhibition time	1,000	Gal		
29	Treating Solution: 7.5% HCl upto 250 °F c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time	1,000	Gal		
30	Treating Solution: 7.5% HCl upto 350 °F c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time	1,000	Gal		
31	Treating Solution: 7.5% HCl above 350 0 F c/w 2,000 ppm iron control with chelating agent, 08 hrs. inhibition time	1,000	Gal		
32	Diverting Agent	100	Gal		
33	Gelling Agent	100	Gal		
34	Alcohol	500	Gal		
35	Mutual Solvent	200	Gal		
36	Ammonium Chloride	1,000	Lbs		
37	Potassium Chloride	1,000	Lbs		
38	Soda Ash	1,000	Lbs		
39	Caustic Soda	1,000	Lbs		
Crane	Services Inclusive of Operator				
40	40-50 ton Hydraulic Crane Operating Charges	3	Days		
41	40-50 ton Hydraulic Crane Standby Charges	2	Days		
42	Crane with operator Mob/Demob	1,300	KM		
Total/well (US\$)					
Total for Estimated 25 wells (US\$)					

(C) S	AND STONE STIMULATION (MUD ACID SOLUTION)/ KICK OFF				
Sr.	Services	Qty. (Q)	UOM (U)	Unit Cost (P) US\$/UOM	Total Cost =P x Q US\$
1.5"/	1.75"/2" CT Services (complete Setup/Crew)				
1	Coil Tubing Unit with standard BHA upto Category 3 PCE Operating Charges	3	Days		
2	Coil Tubing Unit with standard BHA upto Category 3 PCE Standby Charges	2	Days		
3	Coil Tubing Crew Operating Charges	3	Days		
4	Coil Tubing Crew Standby Charges	2	Days		
5	CT Cumulative Depth Charges for Corrosive Environment (CO2 ≥ 5 % or H2S ≥ 10 PPM)	5,000	Meters		
6	Coil Tubing Unit Mob/Demob	1,300	KM		
7	Coil Tubing Crew Mob/Demob	1,300	KM		
Nitro	gen Services (Complete Set Up)				
8	Nitrogen Pumping Equipment Operating Charges	3	Days		
9	Nitrogen Pumping Equipment Standby Charges	2	Days		
10	Nitrogen Pumping Crew Operating Charges	3	Days		
11	Nitrogen Pumping Crew Standby Charges	2	Days		
12	Liquid Nitrogen Pumping Volume Charges	2,700	Gal		
13	Liquid Nitrogen Charges	3,000	Gal		
14	Liquid Nitrogen Supply Tanker Standby Charges	1	Days		
15	Nitrogen Pumping Equipment Mob/Demob	1,300	KM		
16	Nitrogen Pumping Crew Mob/Demob	1,300	KM		

17	Liquid Nitrogen Supply Tanker Mob/Demob	1,300	KM	
Stimu	ulation Services		1	
18	Stimulation Package Crew Operating Charges	3	Days	
19	Stimulation Package Crew Standby Charges	2	Days	
20	Stimulation Package Equipment Standby Charges	2	Days	
21	Volume Pumping Charges using stimulation Package	14,000	Gal	
22	Supply Truck for Acid Standby Charges	1	Days	
23	Stimulation Package Equipment Mob/Demob	1,300	KM	
24	Stimulation Package Crew Mob/Demob	1,300	KM	
25	Supply Truck for Acid Mob/Demob	1,300	KM	
Sand	Stone Treatment - 12% HCL & 3% HF Acid		,	
26	Regular Mud Acid upto 250 ^{0}F : (12% HCl + 3%HF) c/w 2,000ppm iron control with chelating agent, 12 hrs inhibition time	1,000	Gal	
27	Regular Mud Acid upto 350 ^{0}F : (12% HCl + 3%HF) c/w 2,000ppm iron control with chelating agent, 12 hrs inhibition time	1,000	Gal	
28	Regular Mud Acid above 350 ^{0}F : (12% HCl + 3%HF) c/w 2,000ppm iron control with chelating agent, 08 hrs. inhibition time	1,000	Gal	
29	Diverting Agent	100	Gal	
30	Ammonium Chloride	1,000	Lbs	
31	Potassium Chloride	1,000	Lbs	
32	Soda Ash	1,000	Lbs	
33	Caustic Soda	1,000	Lbs	
Crane	e Services Inclusive of Operator			
34	40-50 ton Hydraulic Crane Operating Charges	3	Days	
35	40-50 ton Hydraulic Crane Standby Charges	2	Days	
36	Crane with operator Mob/Demob	1,300	KM	
			Total/well (US\$)	
	Total	for Estir	nated 15 wells (US\$)	

(D) S							
Sr.	Services	Qty. (Q)	Qty. (Q)	Qty. (Q)	UOM (U)	Unit Cost (P)	Total Cost =P x Q
				US\$/UOM	US\$		
1.5"/	1.75"/2" CT Services (Complete Setup/Crew)						
1	Coil Tubing Unit with standard BHA upto Category 3 PCE Operating Charges	3	Days				
2	Coil Tubing Unit with standard BHA upto Category 3 PCE Standby Charges	2	Days				
3	Coil Tubing Crew Operating Charges	3	Days				
4	Coil Tubing Crew Standby Charges	2	Days				
5	CT Cumulative Depth Charges for Non Corrosive Environment	5,000	Meters				
6	Coil Tubing Unit Mob/Demob	1,300	KM				
7	Coil Tubing Crew Mob/Demob	1,300	KM				

Nitrog	en Services (Complete Set Up)			
8	Nitrogen Pumping Equipment Operating Charges	3	Days	
9	Nitrogen Pumping Equipment Standby Charges	2	Days	
10	Nitrogen Pumping Crew Operating Charges	3	Days	
11	Nitrogen Pumping Crew Standby Charges	2	Days	
12	Liquid Nitrogen Pumping Volume Charges	2,700	Gal	
13	Liquid Nitrogen Charges	3,000	Gal	
14	Liquid Nitrogen Supply Tanker Standby Charges	1	Days	
15	Nitrogen Pumping Equipment Mob/Demob	1,300	KM	
16	Nitrogen Pumping Crew Mob/Demob	1,300	KM	
17	Liquid Nitrogen Supply Tanker Mob/Demob	1,300	KM	
Stimul	lation Services			
18	Stimulation Package Crew Operating Charges	3	Days	
19	Stimulation Package Crew Standby Charges	2	Days	
20	Stimulation Package Equipment Standby Charges	2	Days	
21	Volume Pumping Charges using stimulation Package	14,000	Gal	
22	Supply Truck for Acid Standby Charges	1	Days	
23	Stimulation Package Equipment Mob/Demob	1,300	KM	
24	Stimulation Package Crew Mob/Demob	1,300	KM	
25	Supply Truck for Acid , Mob/Demob	1,300	KM	
Sand	Stone Treatment – Organic Acid Solution			
26	10% Acetic Acid complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time Up to 250 $^{0}\mathrm{F}$	1,000	Gal	
27	10% Acetic Acid complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time Up to 350 $^{0}\mathrm{F}$	1,000	Gal	
28	10% Acetic Acid complete with 2,000 ppm iron control with chelating agent, 8 hrs. inhibition time above 350 ^{0}F	1,000	Gal	
29	9% Formic Acid complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time Up to 250 $^{0}\mathrm{F}$	1,000	Gal	
30	9% Formic Acid complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time Up to 350 ^{0}F	1,000	Gal	
31	9% Formic Acid complete with 2,000 ppm iron control with chelating agent, 8 hrs. inhibition time above 350 ^{0}F	1,000	Gal	
32	Diverting Agent	100	Gal	
33	Mutual Solvent	500	Gal	
34	Ammonium Chloride	1,000	Lbs	
35	Potassium Chloride	1,000	Lbs	
36	Soda Ash	1,000	Lbs	
37	Caustic Soda	1,000	Lbs	
	e Services Inclusive of Operator			
38	40-50 ton Hydraulic Crane Operating Charges	3	Days	
39	40-50 ton Hydraulic Crane Standby Charges	2	Days	
40	Crane with operator Mob/Demob	1,300	KM	
			Total/well (US\$)	
Total for Estimated 15 wells (US\$)				

Sr.	Services	Qty. (Q)	UOM (U)	Unit Cost (P)	Total Cost =P x Q
				US\$/UOM	US\$
1.5"/	1.75"/2" CT Services (complete Setup/Crew)				
1	Coil Tubing Unit with standard BHA upto Category 3 PCE	3	Days		
	Operating Charges	2	D		
2	Coil Tubing Unit with standard BHA upto Category 3 PCE Standby Charges	2	Days		
3	High Pressure Jetting / Rotating Tool) Operating Charges	3	Days		
4	High Pressure Jetting / Rotating Tool) Standby Charges	2	Days		
5	CT Cumulative Depth Charges for Corrosive Environment (CO2 \geq 5 % or H2S \geq 10 PPM)	5,000	Meters		
6	Coil Tubing Crew Operating Charges	3	Days		
7	Coil Tubing Crew Standby Charges	2	Days		
8	Coil Tubing Unit Mob/Demob	1,300	KM		
9	Coil Tubing Crew Mob/Demob	1,300	KM		
Nitro	gen Services (Complete Set Up)			,	
10	Nitrogen Pumping Equipment Operating Charges	3	Days		
11	Nitrogen Pumping Equipment Standby Charges	2	Days		
12	Nitrogen Pumping Crew Operating Charges	3	Days		
13	Nitrogen Pumping Crew Standby Charges	2	Days		
14	Liquid Nitrogen Pumping Volume Charges	2,700	Gal		
15	Liquid Nitrogen Charges	3,000	Gal		
16	Liquid Nitrogen Supply Tanker Standby Charges	2	Days		
17	Nitrogen Pumping Equipment Mob/Demob	1,300	KM		
18	Nitrogen Pumping Crew Mob/Demob	1,300	KM		
19	Liquid Nitrogen Supply Tanker Mob/Demob	1,300	KM		
Pump	ping Services				
20	Pumping Package Crew Operating Charges	3	Days		
21	Pumping Package Crew Standby Charges	2	Days		
22	Pumping Package Equipment Standby Charges	2	Days		
23	Volume Pumping Charges using Pumping Package	2,000	Gal		
24	Pumping Package Equipment Mob/Demob	1,300	KM		
25	Pumping Package Crew Mob/Demob	1,300	KM		
Chen	nicals				
26	Corrosion Inhibitor up to 250 °F	20	Gal		
27	Xylene	400	Gal		
28	Mutual Solvent	1,000	Gal		
29	Potassium Chloride	500	Lbs		
Crane	e Services Inclusive of Operator				
30	40-50 ton Hydraulic Crane Operating Charges	3	Days		
31	40-50 ton Hydraulic Crane Standby Charges	2	Days		
32	Crane with operator Mob/Demob	1,300	KM		
Total/well (US\$)					
	To	otal for Esti	mated 10 v	wells (US\$)	

(F) S	AND PLUG/ ZONAL ISOLATION				
Sr.	Services	Qty. (Q)	UOM (U)	Unit Cost (P)	Total Cost =P x Q

				US\$/UOM	US\$
1.5"/	1.75"/2" CT Services (complete Setup/Crew)				
1	Coil Tubing Unit with standard BHA upto Category 3 PCE Operating Charges	3	Days		
2	Coil Tubing Unit with standard BHA upto Category 3 PCE Standby Charges	2	Days		
3	Coil Tubing Crew Operating Charges	3	Days		
4	Coil Tubing Crew Standby Charges	2	Days		
5	CT Cumulative Depth Charges for Corrosive Environment (CO2 \geq 5 % or H2S \geq 10 PPM)	5,000	Meters		
6	Coil Tubing Unit Mob/Demob	1,300	KM		
7	Coil Tubing Crew Mob/Demob	1,300	KM		
Pum	ping Services				
8	Pumping Package Crew Operating Charges	3	Days		
9	Pumping Package Crew Standby Charges	2	Days		
10	Pumping Package Equipment Standby Charges	2	Days		
11	Volume Pumping Charges using Pumping Package	14,000	Gal		
12	Pumping Package Equipment Mob/Demob	1,300	KM		
13	Pumping Package Crew Mob/Demob	1,300	KM		
Chem	nicals				
14	Potassium Chloride	1,000	Lbs		
15	Ammonium Chloride	1,000	Lbs		
16	Calcium Carbonate	1,000	Lbs		
17	Silica Sand	1,000	Lbs		
18	Mesh Sand (30/60)	1,000	Lbs		
19	Mesh Sand (20/40)	1,000	Lbs		
Cran	e Services Inclusive of Operator				
20	40-50 ton Hydraulic Crane Operating Charges	3	Days		
21	40-50 ton Hydraulic Crane Standby Charges	2	Days		
22	Crane with operator Mob/Demob	1,300	KM		
			Total/	well (US\$)	
Total for Estimated 05 wells (US\$)					

(G) 1	HRU TUBING SERVICES					
Sr.	Services	Qty. (Q)	Qty. (Q)	UOM (U)	Unit Cost (P)	Total Cost =P x Q
				US\$/UOM	US\$	
1.5"/	1.75"/2" CT Services (complete Setup/Crew)					
1	Coil Tubing Unit with standard BHA upto Category 3 PCE Operating Charges	3	Days			
2	Coil Tubing Unit with standard BHA upto Category 3 PCE Standby Charges	2	Days			
3	Coil Tubing Crew Operating Charges	3	Days			
4	Coil Tubing Crew Standby Charges	2	Days			
5	High Pressure Jetting / Rotating Tool Operating Charges	3	Days			

6	High Pressure Jetting / Rotating Tool Standby Charges	2	Days	
7	Coil Tubing Cumulative Depth Charges for Non Corrosive	5,000	Meters	
/	Environment	5,000	ivieters	
8	Coil Tubing Unit Mob/Demob	1,300	KM	
9	Coil Tubing Crew Mob/Demob	1,300	KM	
Thru	Tubing Services With Back Up Tools			
10	Internal Dimple Connector - Operating	2	Days	
11	Internal Dimple Connector - Stand by	1	Days	
12	External Dimple Connector - Operating	2	Days	
13	External Dimple Connector - Stand by	1	Days	
14	Upto 2-1/8" Size Down hole filter - Operating	2	Days	
15	Upto 2-1/8" Size Down hole filter -Stand By	1	Days	
16	Upto 2-1/8" Size Thru Tubing Motor - Operating	2	Days	
17	Upto 2-1/8" Size Thru Tubing Motor - Stand By	1	Days	
18	Upto 2-1/8" Size Thru Tubing weight bar - Operating	2	Days	
19	Upto 2-1/8" Thru Tubing weight bar - Standby	1	Days	
20	Upto 2-1/8" Flat Bottom Mill - Operating	2	Days	
21	Upto 2-1/8" Flat Bottom Mill - Stand By	1	Days	
22	Upto 2-1/8" Tapered Mill -Operating	2	Days	
23	Upto 2-1/8" Tapered Mill - Stand By	1	Days	
24	Upto 2-1/8" Junk Mill - Operating	2	Days	
25	Upto 2-1/8" Junk Mill - Stand By	1	Days	
26	Upto 2-1/8" Impact Hammer - Operating	2	Days	
27	Upto 2-1/8" Impact Hammer – Standby	1	Days	
28	Upto 2-1/8" Accelerator – Operating	2	Days	
29	Upto 2-1/8" Accelerator - Stand by	1	Days	
30	Centralizer - Operating	2	Days	
31	Centralizer - Stand by	1	Days	
32	Pull test sub - Operating	2	Days	
33	Pull test sub - Stand by	1	Days	
34	Surface filter - Operating	2	Days	
35	Surface filter - Standby	1	Days	
36	Debris Filter charges	10	Nos.	
37	Thru Tubing Screen Filter Charges	20	Nos.	
38	Thru Tubing Crew - Operating	3	Days	
39	Thru Tubing Crew - Standby	2	Days	
40	Thru Tubing Tools Mob/Demob	1,300		
41	Thru Tubing crew Mob/Demob	1,300	KM	
Pumpi	ing Services			
42	Pumping Package Crew Operating Charges	3	Days	
43	Pumping Package Crew Standby Charges	2	Days	
44	Pumping Package Equipment Standby Charges	2	Days	
45	Volume Pumping Charges using Pumping Package	10,000	Gal	
46	Pumping Package Equipment Mob/Demob	1,300	KM	
47	Pumping Package Crew Mob/Demob	1,300	KM	
Clean	Out Non- Damaging Fluid			

48	Potassium Chloride	1,000	Lbs		
49	Ammonium Chloride	1,000	Lbs		
50	Non-Damaging Clean Out Fluid (Gel)	1,000	Gal		
51	Mutual Solvent	1,000	Gal		
52	Alcohol	1,000	Gal		
Crane	Services Inclusive of Operator				
53	40-50 ton Hydraulic Crane Operating Charges	3	Days		
54	40-50 ton Hydraulic Crane Standby Charges	2	Days		
55	Crane with operator Mob/Demob	1,300	KM		
			Total/v	well (US\$)	
Total for Estimated 10 wells (US\$)					

TABLE TOTAL		
Table No.	Description	Value (US\$)
Table A	Nitrogen Kick-Off (70 Wells)	
Table B	Stimulation(Hcl Solution) / Nitrogen Kick-Off (25 Wells)	
Table C	Sand Stone Stimulation (Mud Acid Solution)/ Kick Off (15 Wells)	
Table D	Sand Stone Stimulation (Organic Acid Solution)/ Kick Off (15 Wells)	
Table E	Well Clean Out / Nitrogen Kick-Off (10 Wells)	
Table F	Sand Plug/ Zonal Isolation (05 Wells)	
Table G	Thru Tubing Services (10 Wells)	
	GRAND TOTAL OF GROUP "A" (ESTIMATED 150 WELLS)	

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

(A) N	ITROGEN KICK-OFF						
Sr.	Services	Qty. (Q)	Qty. (Q)	UOM	Unit Cost (P)	Total Cost =P x Q	
			(U)	US\$/ UOM	US\$		
1.5"	/1.75" /2" CT Services (Complete setup/crew)						
1	Coil Tubing Unit with standard BHA upto Category 3 PCE Operating Charges	3	Days				
2	Coil Tubing Unit with standard BHA upto 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	5,000	Meters				
6	Coil Tubing Unit Mob/Demob	1,300	KM				
7	Coil Tubing Crew Mob/Demob	1,300	KM				
Nitrog	Nitrogen and pumping Equipment services(Complete Setup/Crew)						
8	Nitrogen Pumping Equipment Operating Charges	3	Days				
9	Nitrogen Pumping Equipment Standby Charges	2	Days				
10	Nitrogen Pumping Crew Operating Charges	3	Days				

11	Nitrogen Pumping Crew Standby Charges	2	Days		
12	Liquid Nitrogen volume Pumping Charges	3,600	Gals		
13	Liquid Nitrogen Charges	4,000	Gals		
14	Liquid Nitrogen Supply Tanker Standby Charges	1	Days		
15	Pump unit Crew Operating Charges	3	Days		
16	Pump unit Crew Standby Charges	2	Days		
17	Pump unit Equipment Operating Charges	3	Days		
18	Pump unit Equipment Standby Charges	2	Days		
19	Volume Pumping Charges using pump unit	1,000	Gals		
20	Nitrogen Pumping Equipment Mob/Demob	1,300	KM		
21	Nitrogen Pumping Crew Mob/Demob	1,300	KM		
22	Pump unit Equipment Mob/Demob	1,300	KM		
23	Pump unit crew Mob/Demob	1,300	KM		
24	Liquid Nitrogen Supply Tanker Mob/Demob	1,300	KM		
Crane	Services inclusive of Operator				
25	40-50 ton Hydraulic Crane Operating	3	Days		
26	40-50 ton Hydraulic Crane Standby	2	Days		
27	Crane with operator Mob/De-mob	1,300	KM		
Total/well (US\$)					
Total for Estimated 70 wells (US\$)					

(B) S	(B) STIMULATION(HCL SOLUTION) / NITROGEN KICK-OFF						
Sr.	Services	Qty. (Q)	UOM (U)	Unit Cost (P)	Total Cost =P x Q		
			(0)	US\$/ UOM	US\$		
1.5"/	1.75"/2" CT Services (complete Setup/Crew)						
1	Coil Tubing Unit with standard BHA upto Category 3 PCE Operating Charges	3	Days				
2	Coil Tubing Unit with standard BHA upto 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 Unit Mob/Demob	1,300	KM				
7	Coil Tubing Crew Mob/Demob	1,300	KM				
Nitro	gen Services (Complete Setup/Crew)						
8	Nitrogen Pumping Equipment Operating Charges	3	Days				
9	Nitrogen Pumping Equipment Standby Charges	2	Days				
10	Nitrogen Pumping Crew Operating Charges	3	Days				
11	Nitrogen Pumping Crew Standby Charges	2	Days				
12	Liquid Nitrogen Pumping Volume Charges	2,700	Gal				
13	Liquid Nitrogen Charges	3,000	Gal				

Sr.	Services	Qty.	UOM (U)	Unit Cost (P)	Total Cost =P x Q		
(C) S	AND STONE STIMULATION (MUD ACID SOLUTION)/ KICK OFF						
Total for Estimated 25 wells (US\$)							
Total/well (US\$)							
	Crane with operator Mob/Demob	1,300	•				
	40-50 ton Hydraulic Crane Standby Charges		Days				
	40-50 ton Hydraulic Crane Operating Charges	3	Days				
	Services Inclusive of Operator	2,000	<u> </u>				
39	Caustic Soda	1,000					
38	Soda Ash	1,000					
36	Potassium Chloride	1,000 1,000					
35	Mutual Solvent Ammonium Chloride	1 000					
34	Alcohol Mutual Salvant	500					
33	Gelling Agent	100					
32	Diverting Agent	100					
	iron control with chelating agent, 08 hrs. inhibition time		6.1				
31	Treating Solution: 7.5% HCl above 350 °F c/w 2,000 ppm	1,000	Gal				
30	Treating Solution: 7.5% HCl upto 350 °F c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time	1,000	Gal				
29	Treating Solution: 7.5% HCl upto 250 °F c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time	1,000	Gal				
28	Treating Solution: 15% HCl above 350 °F c/w 2,000 ppm iron control with chelating agent, 8 hrs. inhibition time	1,000	Gal				
27	Treating Solution: 15% HCl upto 350 °F c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time	1,000	Gal				
26	Treating Solution: 15% HCl upto 250 °F c/w 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time	1,000	Gal				
Limes	tone Treatment						
25	Supply Truck for Acid Mob/Demob	1,300	KM				
24	Stimulation Package Crew Mob/Demob	1,300	KM				
23	Stimulation package Equipment Mob/Demob	1,300	KM				
22	Supply Truck for Acid Standby Charges	1	Days				
21	Volume Pumping Charges using stimulation Package.	14,000	Gal				
20	Stimulation Package Equipment Standby Charges	2	Days				
19	Stimulation Package Crew Standby Charges	2	Days				
18	Stimulation Package Crew Operating Charges	3	Days				
Stimulation Services							
17	Liquid Nitrogen Supply Tanker Mob/Demob	1,300	KM				
16	Nitrogen Pumping Crew Mob/Demob	1,300	KM				
15	Nitrogen Pumping Equipment Mob/Demob	1,300	KM				
	Liquid Nitrogen Supply Tanker Standby Charges	1 200	Days				
14	Liquid Nitrogon Supply Tankor Standby Charges	1	Dave				

(C) S/	AND STONE STIMULATION (MUD ACID SOLUTION)/ KICK OFF				
Sr.	Services	Qty. (Q)	UOM (U)	Unit Cost (P) US\$/UOM	Total Cost =P x Q US\$
1.5"/	1.75"/2" CT Services (complete Setup/Crew)				

1	Coil Tubing Unit with standard BHA upto Category 3 PCE Operating Charges	3	Days		
2	Coil Tubing Unit with standard BHA upto Category 3 PCE Standby Charges	2	Days		
3	Coil Tubing Crew Operating Charges	3	Days		
4	Coil Tubing Crew Standby Charges	2	Days		
5	CT Cumulative Depth Charges for Corrosive Environment (CO2 ≥ 5 % or H2S ≥ 10 PPM)	5,000	Meters		
6	Coil Tubing Unit Mob/Demob	1,300	KM		
7	Coil Tubing Crew Mob/Demob	1,300	KM		
Nitro	gen Services (Complete Set Up)				
8	Nitrogen Pumping Equipment Operating Charges	3	Days		
9	Nitrogen Pumping Equipment Standby Charges	2	Days		
10	Nitrogen Pumping Crew Operating Charges	3	Days		
11	Nitrogen Pumping Crew Standby Charges	2	Days		
12	Liquid Nitrogen Pumping Volume Charges	2,700	Gal		
13	Liquid Nitrogen Charges	3,000	Gal		
14	Liquid Nitrogen Supply Tanker Standby Charges	1	Days		
15	Nitrogen Pumping Equipment Mob/Demob	1,300	KM		
16	Nitrogen Pumping Crew Mob/Demob	1,300	KM		
17	Liquid Nitrogen Supply Tanker Mob/Demob	1,300	KM		
Stimu	ulation Services			'	
18	Stimulation Package Crew Operating Charges	3	Days		
19	Stimulation Package Crew Standby Charges	2	Days		
20	Stimulation Package Equipment Standby Charges	2	Days		
21	Volume Pumping Charges using stimulation Package	14,000	Gal		
22	Supply Truck for Acid Standby Charges	1	Days		
23	Stimulation Package Equipment Mob/Demob	1,300	KM		
24	Stimulation Package Crew Mob/Demob	1,300	KM		
25	Supply Truck for Acid Mob/Demob	1,300	KM		
Sand	Stone Treatment - 12% HCL & 3% HF Acid				
26	Regular Mud Acid upto 250 0 F: (12% HCl + 3%HF) c/w 2,000ppm iron control with chelating agent, 12 hrs inhibition time	1,000	Gal		
27	Regular Mud Acid upto 350 ^{0}F : (12% HCl + 3%HF) c/w 2,000ppm iron control with chelating agent, 12 hrs inhibition time	1,000	Gal		
28	Regular Mud Acid above 350 ^{0}F : (12% HCl + 3%HF) c/w 2,000ppm iron control with chelating agent, 08 hrs. inhibition time	1,000	Gal		
29	Diverting Agent	100	Gal		
30	Ammonium Chloride	1,000	Lbs		
31	Potassium Chloride	1,000	Lbs		
32	Soda Ash	1,000	Lbs		
33	Caustic Soda	1,000	Lbs		
Crane Services Inclusive of Operator					
34	40-50 ton Hydraulic Crane Operating Charges	3	Days		
35	40-50 ton Hydraulic Crane Standby Charges	2	Days		
36	Crane with operator Mob/Demob	1,300	KM		
				well (US\$)	
Total for Estimated 15 wells (US\$)					

(D) S	AND STONE STIMULATION (ORGANIC ACID SOLUTION)/ KIC	K OFF			
Sr.	Services	Qty. (Q)	UOM (U)	Unit Cost (P) US\$/UOM	Total Cost =P x Q US\$
1.5"/	1.75"/2" CT Services (Complete Setup/Crew)				
1	Coil Tubing Unit with standard BHA upto Category 3 PCE Operating Charges	3	Days		
2	Coil Tubing Unit with standard BHA upto Category 3 PCE Standby Charges	2	Days		
3	Coil Tubing Crew Operating Charges	3	Days		
4	Coil Tubing Crew Standby Charges	2	Days		
5	CT Cumulative Depth Charges for Non Corrosive Environment	5,000	Meters		
6	Coil Tubing Unit Mob/Demob	1,300	KM		
7	Coil Tubing Crew Mob/Demob	1,300	KM		
Nitrog	en Services (Complete Set Up)				
8	Nitrogen Pumping Equipment Operating Charges	3	Days		
9	Nitrogen Pumping Equipment Standby Charges	2	Days		
10	Nitrogen Pumping Crew Operating Charges	3	Days		
11	Nitrogen Pumping Crew Standby Charges	2	Days		
12	Liquid Nitrogen Pumping Volume Charges	2,700	Gal		
13	Liquid Nitrogen Charges	3,000	Gal		
14	Liquid Nitrogen Supply Tanker Standby Charges	1	Days		
15	Nitrogen Pumping Equipment Mob/Demob	1,300	KM		
16	Nitrogen Pumping Crew Mob/Demob	1,300	KM		
17	Liquid Nitrogen Supply Tanker Mob/Demob	1,300	KM		
Stimul	ation Services				
18	Stimulation Package Crew Operating Charges	3	Days		
19	Stimulation Package Crew Standby Charges	2	Days		
20	Stimulation Package Equipment Standby Charges	2	Days		
21	Volume Pumping Charges using stimulation Package	14,000	Gal		
22	Supply Truck for Acid Standby Charges	1	Days		
23	Stimulation Package Equipment Mob/Demob	1,300	KM		
24	Stimulation Package Crew Mob/Demob	1,300	KM		
25	Supply Truck for Acid , Mob/Demob	1,300	KM		
Sand	Stone Treatment – Organic Acid Solution				
26	10% Acetic Acid complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time Up to 250 $^{0}\mathrm{F}$	1,000	Gal		
27	10% Acetic Acid complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time Up to 350 °F	1,000	Gal		
28	10% Acetic Acid complete with 2,000 ppm iron control with chelating agent, 8 hrs. inhibition time above 350 $^{\rm 0}{\rm F}$	1,000	Gal		
29	9% Formic Acid complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time Up to 250 $^{0}\mathrm{F}$	1,000	Gal		

30	9% Formic Acid complete with 2,000 ppm iron control with chelating agent, 12 hrs. inhibition time Up to 350 °F	1,000	Gal		
31	9% Formic Acid complete with 2,000 ppm iron control with chelating agent, 8 hrs. inhibition time above 350 $^{\rm 0}$ F	1,000	Gal		
32	Diverting Agent	100	Gal		
33	Mutual Solvent	500	Gal		
34	Ammonium Chloride	1,000	Lbs		
35	Potassium Chloride	1,000	Lbs		
36	Soda Ash	1,000	Lbs		
37	Caustic Soda	1,000	Lbs		
Cran	e Services Inclusive of Operator				
38	40-50 ton Hydraulic Crane Operating Charges	3	Days		
39	40-50 ton Hydraulic Crane Standby Charges	2	Days		
40	Crane with operator Mob/Demob	1,300	KM		
Total/well (US\$)					
Total for Estimated 15 wells (US\$)					

(E) W	ELL CLEAN OUT / NITROGEN KICK-OFF				
Sr.	Services	Qty. (Q)	UOM (U)	Unit Cost (P) US\$/UOM	Total Cost =P x Q US\$
1.5"/	1.75"/2" CT Services (complete Setup/Crew)				
1	1 Coil Tubing Unit with standard BHA upto Category 3 PCE 3 Days Operating Charges				
2	Coil Tubing Unit with standard BHA upto Category 3 PCE Standby Charges	2	Days		
3	High Pressure Jetting / Rotating Tool) Operating Charges	3	Days		
4	High Pressure Jetting / Rotating Tool) Standby Charges	2	Days		
5	CT Cumulative Depth Charges for Corrosive Environment (CO2 \geq 5 % or H2S \geq 10 PPM)	5,000	Meters		
6	Coil Tubing Crew Operating Charges	3	Days		
7	Coil Tubing Crew Standby Charges	2	Days		
8	Coil Tubing Unit Mob/Demob	1,300	KM		
9	Coil Tubing Crew Mob/Demob	1,300	KM		
Nitro	gen Services (Complete Set Up)				
10	Nitrogen Pumping Equipment Operating Charges	3	Days		
11	Nitrogen Pumping Equipment Standby Charges	2	Days		
12	Nitrogen Pumping Crew Operating Charges	3	Days		
13	Nitrogen Pumping Crew Standby Charges	2	Days		
14	Liquid Nitrogen Pumping Volume Charges	2,700	Gal		
15	Liquid Nitrogen Charges	3,000	Gal		
16	Liquid Nitrogen Supply Tanker Standby Charges	2	Days		
17	Nitrogen Pumping Equipment Mob/Demob	1,300	KM		
18	Nitrogen Pumping Crew Mob/Demob	1,300	KM		
19	Liquid Nitrogen Supply Tanker Mob/Demob	1,300	KM		
Pump	Pumping Services				
20	Pumping Package Crew Operating Charges	3	Days		
21	Pumping Package Crew Standby Charges	2	Days		
22	Pumping Package Equipment Standby Charges	2	Days		

23	Volume Pumping Charges using Pumping Package	2,000	Gal				
24	Pumping Package Equipment Mob/Demob	1,300	KM				
25	Pumping Package Crew Mob/Demob	1,300	KM				
Chen	nicals						
26	Corrosion Inhibitor up to 250 °F	20	Gal				
27	Xylene	400	Gal				
28	Mutual Solvent	1,000	Gal				
29	Potassium Chloride	500	Lbs				
Cran	Services Inclusive of Operator						
30	40-50 ton Hydraulic Crane Operating Charges	3	Days				
31	40-50 ton Hydraulic Crane Standby Charges	2	Days				
32	Crane with operator Mob/Demob	1,300	KM				
			Total/v	well (US\$)			
Total for Estimated 10 wells (US\$)							

(F) S	AND PLUG/ ZONAL ISOLATION				
Sr.	Services	Qty. (Q)	UOM (U)	Unit Cost (P) US\$/UOM	Total Cost =P x Q US\$
1.5"/	1.75"/2" CT Services (complete Setup/Crew)				
1	Coil Tubing Unit with standard BHA upto Category 3 PCE Operating Charges	3	Days		
2	Coil Tubing Unit with standard BHA upto Category 3 PCE Standby Charges	2	Days		
3	Coil Tubing Crew Operating Charges	3	Days		
4	Coil Tubing Crew Standby Charges	2	Days		
5	CT Cumulative Depth Charges for Corrosive Environment (CO2 \geq 5 % or H2S \geq 10 PPM)	5,000	Meters		
6	Coil Tubing Unit Mob/Demob	1,300	KM		
7	Coil Tubing Crew Mob/Demob	1,300	KM		
Pum	ping Services				
8	Pumping Package Crew Operating Charges	3	Days		
9	Pumping Package Crew Standby Charges	2	Days		
10	Pumping Package Equipment Standby Charges	2	Days		
11	Volume Pumping Charges using Pumping Package	14,000	Gal		
12	Pumping Package Equipment Mob/Demob	1,300	KM		
13	Pumping Package Crew Mob/Demob	1,300	KM		
Chem	icals				
14	Potassium Chloride	1,000	Lbs		
15	Ammonium Chloride	1,000	Lbs		
16	Calcium Carbonate	1,000	Lbs		
17	Silica Sand	1,000	Lbs		
18	Mesh Sand (30/60)	1,000	Lbs		
19	Mesh Sand (20/40)	1,000	Lbs		
Cran	e Services Inclusive of Operator	'			

20	20 40-50 ton Hydraulic Crane Operating Charges 3 Days						
21	21 40-50 ton Hydraulic Crane Standby Charges 2 Days						
22	Crane with operator Mob/Demob	1,300	KM				
Total/well (US\$)							
Total for Estimated 05 wells (US\$)							

(G) T	HRU TUBING SERVICES				
Sr.	Services	Qty. (Q)	UOM (U)	Unit Cost (P) US\$/UOM	Total Cost =P x Q US\$
1.5"/2	1.75"/2" CT Services (complete Setup/Crew)			,	
1	Coil Tubing Unit with standard BHA upto Category 3 PCE Operating Charges	3	Days		
2	Coil Tubing Unit with standard BHA upto Category 3 PCE Standby Charges	2	Days		
3	Coil Tubing Crew Operating Charges	3	Days		
4	Coil Tubing Crew Standby Charges	2	Days		
5	High Pressure Jetting / Rotating Tool Operating Charges	3	Days		
6	High Pressure Jetting / Rotating Tool Standby Charges	2	Days		
7	Coil Tubing Cumulative Depth Charges for Non Corrosive Environment	5,000	Meters		
8	Coil Tubing Unit Mob/Demob	1,300	KM		
9	Coil Tubing Crew Mob/Demob	1,300	KM		
Thru	Tubing Services With Back Up Tools				
10	Internal Dimple Connector - Operating	2	Days		
11	Internal Dimple Connector - Stand by	1	Days		
12	External Dimple Connector - Operating	2	Days		
13	External Dimple Connector - Stand by	1	Days		
14	Upto 2-1/8" Size Down hole filter - Operating	2	Days		
15	Upto 2-1/8" Size Down hole filter -Stand By	1	Days		
16	Upto 2-1/8" Size Thru Tubing Motor - Operating	2	Days		
17	Upto 2-1/8" Size Thru Tubing Motor - Stand By	1	Days		
18	Upto 2-1/8" Size Thru Tubing weight bar - Operating	2	Days		
19	Upto 2-1/8" Thru Tubing weight bar - Standby	1	Days		
20	Upto 2-1/8" Flat Bottom Mill - Operating	2	Days		
21	Upto 2-1/8" Flat Bottom Mill - Stand By	1	Days		
22	Upto 2-1/8" Tapered Mill -Operating	2	Days		
23	Upto 2-1/8" Tapered Mill - Stand By	1	Days		
24	Upto 2-1/8" Junk Mill - Operating	2	Days		
25	Upto 2-1/8" Junk Mill - Stand By	1	Days		
26	Upto 2-1/8" Impact Hammer - Operating	2	Days		
27	Upto 2-1/8" Impact Hammer – Standby	1	Days		
28	Upto 2-1/8" Accelerator – Operating	2	Days		
29	Upto 2-1/8" Accelerator - Stand by	1	Days		
30	Centralizer - Operating	2	Days		
31	Centralizer - Stand by	1	Days		
32	Pull test sub - Operating	2	Days		

33	Pull test sub - Stand by	1	Days		<u> </u>
34	Surface filter - Operating		Days		
35	Surface filter - Standby	1	Days		
36	Debris Filter charges	10	Nos.		
37	Thru Tubing Screen Filter Charges	20	Nos.		
38	Thru Tubing Crew - Operating	3	Days		
39	Thru Tubing Crew - Standby	2	Days		1
40	Thru Tubing Tools Mob/Demob	1,300	KM		1
41	Thru Tubing crew Mob/Demob	1,300	KM		
Pumpi	ing Services		•		
42	Pumping Package Crew Operating Charges	3	Days		
43	Pumping Package Crew Standby Charges	2	Days		
44	Pumping Package Equipment Standby Charges	2	Days		l
45	Volume Pumping Charges using Pumping Package	10,000	Gal		ı
46	Pumping Package Equipment Mob/Demob	1,300	KM		
47	Pumping Package Crew Mob/Demob	1,300	KM		
Clean	Out Non- Damaging Fluid				
48	Potassium Chloride	1,000	Lbs		
49	Ammonium Chloride	1,000	Lbs		
50	Non-Damaging Clean Out Fluid (Gel)	1,000	Gal		
51	Mutual Solvent	1,000	Gal		
52	Alcohol	1,000	Gal		
Crane	Services Inclusive of Operator				
53	40-50 ton Hydraulic Crane Operating Charges	3	Days		
54	40-50 ton Hydraulic Crane Standby Charges	2	Days		
55	Crane with operator Mob/Demob	1,300	KM		
			Total/well	• • •	
	Tot	tal for Estir	nated 10 wells	(US\$)	

TABLE TOT	TABLE TOTALIZER GROUP "B"								
Table No.	Table No. Description								
Table A	Nitrogen Kick-Off (70 Wells)								
Table B	Stimulation(Hcl Solution) / Nitrogen Kick-Off (25 Wells)								
Table C	Sand Stone Stimulation (Mud Acid Solution)/ Kick Off (15 Wells)								
Table D	Sand Stone Stimulation (Organic Acid Solution)/ Kick Off (15 Wells)								
Table E	Well Clean Out / Nitrogen Kick-Off (10 Wells)								
Table F	Sand Plug/ Zonal Isolation (05 Wells)								
Table G	Thru Tubing Services (10 Wells)								
	GRAND TOTAL OF GROUP "B" (ESTIMATED 150 WELLS)								

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

(A)	SMART COIL SERVICES				
Sr	Services Qty.	. (Q)	UOM (U)	Unit Cost (P) US\$/UOM	Total Cost =P x Q US\$

4 511	/4 7511/211 Consent Cail Commisses (for all Catagories BCE)				
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	2	Day		
2	Smart Coil tubing unit with necessary BHA upto category 3 PCE Standby Charges	1	Day		
3	Smart Coil Cumulative Depth Charges for Non-Corrosive Environment	3,000	Meter		
4	Smart Coil Cumulative Depth Charges for Corrosive Environment $CO2 \ge 5 \%$ or $H2S \ge 10 \ PPM$	3,000	Meter		
5	Smart Coil tubing Crew Operating	2	Day		
6	Smart Coil tubing Crew Standby	1	Day		
7	Smart Coil tubing unit Mob/demob	1,300	KM		
8	Smart Coil tubing unit crew Mob/demob	1,300	KM		
9	Pump Unit Crew Operating Charges	2	Day		
10	Pump unit Crew Standby Charges	1	Day		
11	Pump Unit Equipment Standby Charges	2	Day		
12	Pump Unit Equipment Standby Charges	1	Day		
13	Volume Pumping Charges using Pump unit	2,000	Gal		
14	Pump unit Equipment Mob/Demob	1,300	KM		
15	Pump unit Crew Mob/Demob	1,300	KM		
Crar	ne Services Inclusive of Operator		<u>'</u>		
16	40-50 ton Hydraulic Crane Operating Charges	2	Days		
17	40-50 ton Hydraulic Crane Standby Charges	1	Days		
18	Crane with operator Mob/Demob	1,300	KM		
			Total/w	vell (US\$)	
		Total	for 30 we	ells (US\$)	

(B) I	(B) INFLATABLE PERMANENT/RETRIEVABLE BRIDGE PLUGS:									
C	Description	Ot.	UOM	Unit Ra (US\$/U		Total Cost	(US\$)			
Sr.	Description	Qty.		Retrieved	Left in hole	Retrieved	Left in hole			
1	Inflatable bridge plugs (2-7/8" tubing to 5"-7" Liner/casing) on location charges	3	Nos.							
2	Inflatable Bridge plugs (3-1/2" tubing to 5"-7" Liner/casing) on location charges	3	Nos.							
3	Inflatable Bridge plugs (4-1/2" tubing to 5"-7" Liner/casing) on location charges	3	Nos.							
4	Inflatable Bridge plugs (5-1/2" tubing to 7" to 9-5/8" Liner/casing)	3	Nos.							
	Total Cost(US\$)									

(C) I	(C) INFLATABLE PERMANENT/RETRIEVABLE BRIDGE PLUG SERVICES:										
Sr.	Description	Description Oty (O) UOM		Unit Cost (P)	Total Cost =P x Q						
31.	Description	Qty. (Q)	(U)	US\$/UOM	US\$						
1	Inflatable Bridge plugs crew with setting kit	2	Day								
	Operating Charges										
2	Inflatable Bridge plugs crew with setting kit	1	Day								
	Standby Charges										

3	Inflatable setting kit	•	. •	crew	including	1,300	KM		
	otal/well (US\$)								
							Total for	15 wells (US\$)	

TABLE TOTALIZER GROUP "C"								
Table No.	Description	Value (US\$)						
Table A	Smart Coil Services							
Table B	Inflatable Permanent/Retrievable Bridge Plugs (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 each Group wise (Grand Total of each Group) and Contract shall be awarded to lowest evaluated bidder separately for each Group.
- Same unit rates to be quoted for same item in all tables for specific group.
- The unit rates mentioned in "format for rates" will prevail, in case different rate against same item is quoted in "Financial evaluation model".
- Any additional items not covered in the table may be utilized as per published price book, if required, subject to approval of OGDCL Management.
- Quantities, days, and millage mentioned are for evaluation purposes only. Payment to be made as per actual.
- 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 Groups, whichever is lowest.