OIL INDIA LIMITED
RAJASTHAN PROJECT
JODHPUR

CORRIGENDUM

TENDER NO. CJG4757P18

This Addendum No. 4 dated 08.09.2017 to IFB No. **CJG4757P18** is issued to notify changes in BEC, General Conditions of Contract(GCC), Scope of Work& Technical Specification, Schedule of Rates(SOR), Priced Bid Format and Instructions To Bidders (ITB) of the bid document subsequent to the pre-bid conference as furnished in Annexure-AA given herein belowand also to notify extension of the Selling Date and Bid Closing / Technical Bid Opening date as follows:

i) Last Date of Bid Selling	: 15.09.2017
ii) Bid Closing Date & Time /	: 22.09.2017 (11.00 Hrs, IST) /
Tech. Bid Opening Date & Time	: 22.09.2017 (14.00 Hrs, IST)

2.0 Revised Schedule of Rates is attached as Annexure-SOR.

3.0 Revised Price Bid Format (Proforma B & B1) is also attached.

4.0 GST Clauses applicable against this tender is attached as Annexure-GST.

5.0 Purchase preference policy-linked with Local Content (PP - LC) is attached as Annexure-PP-LC.

6.0 Reply to bidders pre bid conference queries are also uploaded.

7.0 Bidders are requested to take note of the same while preparing and submitting their offer. All other terms and conditions of the bid document remain unchanged.

(A Dam)
Chief Manager-(M&C)

Annexure-AA

Clause No.	Existing Clause	Modified Clause
BID EVALUATION CRITERIA (BEC)		
I. TECHNICAL CRITERIA : 1.1 GENERAL REQUIREMENTS AND SPECIFICATION OF EQUIPMENT: Page 21, BEC, (I.1.1)	1.1 All major equipment offered for this tender i.e. Coiled Tubing Unit, Nitrogen Pumping Unit and Fluid Pumping Unit with heating facility shall not be manufactured before 01/01/2012.	1.1 All major equipment offered for this tender i.e. Coiled Tubing Unit, Nitrogen Pumping Unit and Fluid Pumping Unit with heating facility shall not be manufactured before 01/01/2007.
Page 21, BEC, (I. 1.1.1)	1.1.1 In support of clause no. 1.1, the bidder shall submit self-certificate confirming that the offered major equipments i.e. Coiled Tubing Unit, Nitrogen Pumping Unit and Fluid Pumping Unit are not manufactured before 01/01/2012.	1.1.1 In support of clause no. 1.1, the bidder shall submit self-certification confirming that the offered major equipments i.e. Coiled Tubing Unit, Nitrogen Pumping Unit and Fluid Pumping Unit are not manufactured before 01/01/2007.
Page 21, BEC, (I. 1.2.1)	1.2.1 In case the bidder offers the equipment owned by him, the certificate confirming availability of the equipment for this contract, shall be furnished by the bidder.	1.2.1 In case the bidder offers the equipment owned by him, self certificate confirming availability of the equipment for this contract, shall be furnished by the bidder.
Page 22, BEC, (I. 2.3)	2.3 Bidder must have the requisite equipments and other resources/facilities as required to carry out the intended services for well activation with CTU & NPU, FPU, Acidization & completion services available with them. Details to be furnished along with the Bid. In case Bidder does not have any of the services mentioned above they may enter into a consortium/ legally valid agreement with a third party as per Clause 2.7 mentioned below.	2.3 Bidder must have the requisite equipments and other resources/facilities as required to carry out the intended services for well activation with CTU & NPU, FPU, Acidization & completion services available with them. Details to be furnished along with the Bid. In case Bidder does not have any of the services mentioned above they may enter into a consortium/ legally valid agreement with a third party as per Clause 2.4 & 2.5 mentioned below.

MOBILIZATION TIME Page 23, BEC, (I. 3.1)	3.1 Time is the essence of this contract. The Bidder should be able to complete the initial (1st) mobilization with all their resources and start the work at well site in Rajasthan within thirty (30) Days from the date of LOA or mobilization notice and the subsequent mobilizations within fifteen (15) days from the date of issue of mobilization notice by the Company against each call. The bidder must submit categorical confirmation in this regard along with their "Technical" bid. Offers without confirmation of the stipulated mobilization time or with more mobilization time will be summarily rejected.	3.1 Time is the essence of this contract. The Bidder should be able to complete the initial (1st) mobilization with all their resources and start the work at well site in Rajasthan within ninety (90) Days from the date of Mobilization notice/LOA and Interim Re-mobilization is to be done within 7 days from the date of interim re-mobilization notice by the Company. The bidder must submit categorical confirmation in this regard along with their "Technical" bid. Offers without confirmation of the stipulated mobilization time/Interim Re-Mobilization time or with more mobilization time/Interim Re-Mobilization time will be summarily rejected.
II. FINANCIAL CRITERIA Page 24, BEC, (II. 2.0)	2.0 "Net Worth" of the Bidder should be positive for the preceding financial/ accounting year.	2.0 "Net Worth" of the Bidder should be positive for the financial/ accounting year preceding the bid closing date.. In case the bidder is a Consortium of companies, then the net worth of all the consortium partners individually should be positive for the financial/accounting year preceding the bid closing date.
II. FINANCIAL CRITERIA Page 25, BEC, (II. 4.0)	4.0 In case the Bidder is a Consortium, then any one of the Consortium members individually shall have to meet the financial turn-over criteria as per Para II 1.0 above.	4.0 In case the bidder is a Consortium of companies, then the minimum annual financial turnover during any of the preceding 03(three) financial/accounting years reckoned from the original bid closing date for the consortium members should be as under: i) Atleast One member of the Consortium : Rs. 8.25 Crores. i) Other members of the Consortium : Rs. 4.125 Crores.
III. COMMERCIAL CRITERIA Page 26 , BEC (III.13.0)	13.0 Bidders shall bear, within the quoted rate, all taxes, duties, levies etc. , but, excluding service tax as applicable towards the services to be rendered against the contract as per scope of work.	13.0 Bidders shall quote their price exclusive of GST. The GST amount on the taxable part of the goods/services provided by the Contractor shall be paid by the Company as per provisions of the GST Act.

V, BID EVALUATION Page 28 & 29, BEC (V. 7.0)	7.0 To ascertain the inter-se-ranking, the comparison of the responsive bids will be made subject to loading for any deviation. Commercial Bids shall be evaluated taking into account the rates quoted in the PRICE BID FORMAT as per Proforma – B. Total Contract cost: A+B+C+D+E+F+G+H+I+J+K+L+M+N+O+P+ Q+R+S+T+U+V (i.e, sum total of Srl. Nos. 1 to 22)	7.0 To ascertain the inter-se-ranking, the comparison of the responsive bids will be made subject to loading for any deviation. Commercial Bids shall be evaluated taking into account the rates quoted in the PRICE BID FORMAT as per Proforma – B. Total Contract cost: T= T1+T2+T3+T4+T5+T6+T7
VI. PURCHASE PREFERENCE	New Clause	1.1 PURCHASE PREFERENCE: 1.1.1 MICRO AND SMALL ENTERPRISES (MSEs) a) In case participating MSEs quote price within price band of L1+15%, such MSE shall be considered for award of contract by bringing down their price to L1 price in a situation where L1 price is from someone other than a MSE. In case of more than one such MSE qualifying for 15% purchase preference, the contract shall be awarded to lowest eligible MSE amongst the MSEs qualifying for 15% purchase preference. b) In case any part of the work is sub-contracted to a Micro or Small Enterprise as per contract conditions than the contractor shall provide complete details (i.e. name of the subcontractor, value of sub-contacted work, copy of valid registration certificate etc.) of the sub-contractor to OIL. 1.1.2 Documentation Required to be submitted by MSEs: Copy of valid Registration Certificate, if bidder is a Micro or Small Enterprises (MSE) registered with District Industry Centers or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of Handicrafts and Handloom or any other body specified by Ministry of MSME. The Registration Certificate should clearly indicate the monetary limit, if any and the items for which bidder are registered with any of the aforesaid agencies. In case bidding MSE is owned by Schedule Caste or Schedule Tribe entrepreneur, valid documentary evidence issued by the agency who has registered the bidder as MSE owned by SC/ST entrepreneur should also be enclosed.

VI. PURCHASE PREFERENCE	New Clause	1.2 POLICY (LINKED WITH LOCAL CONTENT) (PP-LC) "Purchase preference policy-linked with Local Content (PP - LC) notified vide letter no. O-27011/44/2015-ONG-II/FP dated 25.04.2017 of MoP&NG shall be applicable in this tender. Bidders seeking benefits, under Purchase Preference Policy (linked with Local Content) (PP-LC) shall have to comply with all the provisions specified at Clause No. 43.0 of ITB and shall have to submit all undertakings / documents applicable for this policy".
INSTRUCTION TO BIDDERS(ITB)		
8.0 BID PRICE Page 7, ITB, (8.3)	8.3 All duties (except customs duty which will be borne by the Company) and taxes including Corporate Income Tax, Personal Tax, Octroi/Entry Tax, other Cess/levies etc. except Service tax payable by the successful Bidder under the Contract for which this Bid Document is being issued, shall be included in the rates, prices and total Bid Price submitted by the Bidder, and the evaluation and comparison of bids shall be made accordingly. For example, personal taxes and/or any corporate taxes arising out of the profits on the contract as per rules of the country shall be borne by the Bidder.	8.3 All duties (except customs duty which will be borne by the Company) and taxes including Corporate Income Tax, Personal Tax, Octroi/Entry Tax, other Cess/levies etc. except Goods and Service tax payable by the successful Bidder under the Contract for which this Bid Document is being issued, shall be included in the rates, prices and total Bid Price submitted by the Bidder, and the evaluation and comparison of bids shall be made accordingly. For example, personal taxes and/or any corporate taxes arising out of the profits on the contract as per rules of the country shall be borne by the Bidder.
39.0 PRICE PREFERENCE Page 20, ITB, (39.0)	39.0 PRICE PREFERENCE : Price Preference will be applicable as per latest Govt. Guidelines. Bidders to take note of the same and quote accordingly. It is Bidder's responsibility to submit necessary documents from the Competent Authority to establish that they are eligible for price preference against this tender.	Deleted

43.0 PURCHASE PREFERENCE- LOCAL CONTENT ITB, (43.0)	New Clause	43.0 PURCHASE PREFERENCE POLICY (LINKED WITH LOCAL CONTENT) (PP-LC) Purchase preference policy-linked with Local Content (PP - LC) notified vide letter no. O-27011/44/2015-ONG-II/FP dated 25.04.2017 of MoP&NG shall be applicable in this tender.Bidders seeking benefits, under Purchase Preference Policy (linked with Local Content) (PP-LC) shall have to comply with all the provisions specified in Annexure- PP-LC and shall have to submit all undertakings / documents applicable for this policy.
GENERAL CONDITIONS OF THE CONTRACT (GCC)		
Page 31, GCC 2.2	2.2 MOBILISATION/De- MOBILISATION TIME OF THE CONTRACT: The mobilization of equipment, personnel etc. should be completed by Contractor within 30 days from the effective date of the contract or date of mobilization Advice for the initial (1st) mobilization and within 15 days for the subsequent mobilizations from the date of mobilization advice from the Company. Mobilization shall be deemed to be completed when Contractor's equipment and manpower are placed at the nominated location in readiness to commence Work as envisaged under the Contract duly certified by the Company's authorized representative.	2.2 INITIAL MOBILISATION/INTERIM RE-MOBILIZATION/ INTERIM DE- MOBILISATION TIME OF THE CONTRACT: The mobilization of equipment, personnel etc. should be completed by Contractor within 90 days from the date of Mobilization notice/LOA for the initial (1st) mobilization. Interim Re-mobilization is to be done within 7 days from the date of interim re-mobilization notice by the Company. Mobilization/Interim Re-Mobilization shall be deemed to be completed when Contractor's equipment and manpower are placed at the nominated location in readiness to commence Work as envisaged under the Contract duly certified by the Company's authorized representative. Interim-Demobilization: After issuance of De-mobilization notice by Company, Contractor has to complete De-mobilization of Equipment & Personnel from OIL's well site within 3 days.
Page 35, GCC 8.8	8.8 Service Tax: The price excludes Services Tax and the service tax as applicable shall be to the Company account. The Service tax amount on the taxable part of the services provided by the Contractor shall be paid by the Company as per provisions of the Service Tax Act.	8.8Goods and Services Tax (GST): Bidders to refer Annexure-GST.
Page 41 & 42, GCC 16.4	16.4 Key personnel cannot be changed during the tenure of the Contract except due to sickness/death/resignation of the personnel in which case the replaced person should have equal experience and qualification, which will be	

	again subject to approval, by the Company	
Page 42, GCC 17.0	17.0 LIQUIDATED DAMAGES FOR DEFAULT IN TIMELY MOBILISATION: 17.1 Time is the essence of this Contract. In the event of the Contractor's default in timely mobilization for commencement of operations within the stipulated period, the Contractor shall be liable to pay liquidated damages @ 1/2% of contract value including mobilization cost, per week or part thereof of delay subject to maximum of 7.5%. Liquidated Damages will be reckoned from the expiry date of the scheduled mobilisation period as defined in para 2.2 above. 17.2 If the Contractor fails to mobilise within 45 days after the stipulated date, then the Company reserves the right to cancel the Contract without any compensation whatsoever. 17.3 The parties agree that the sum specified above is not a penalty but a genuine pre-estimate of the loss/damage which will be suffered by OIL on account of delay/breach on the part of the Contractor and the said amount will be payable without proof of actual loss or damage caused by such delay/breach and without any demur and shall not be open for any dispute whatsoever.	17.0 LIQUIDATED DAMAGES FOR DEFAULT IN TIMELY INITIAL MOBILISATION/ RE-MOBILIZATION: 17.1 Time is the essence of this Contract. In the event of the Contractor's default in timely initial mobilization or remobilization for commencement of operations within the stipulated period, the Contractor shall be liable to pay liquidated damages @0.5% of contract value for that particular Service (CTU,NPU, FPU or Acidization) including mobilization cost, per week or part thereof of delay subject to maximum of 7.5%. Liquidated Damages will be reckoned from the expiry date of the scheduled mobilisation period as defined in para 2.2 above. However maximum LD deductible against delay in initial mobilization and delay in re-mobilizations shall be limited to 7.5% of the total contract cost.17.2 If the Contractor fails to mobilise within 45 days after the stipulated date, then the Company reserves the right to cancel the Contract without any compensation whatsoever. 17.3 The parties agree that the sum specified above is not a penalty but a genuine pre-estimate of the loss/damage which will be suffered by OIL on account of delay/breach on the part of the Contractor and the said amount will be payable without proof of actual loss or damage caused by such delay/breach and without any demur and shall not be open for any dispute whatsoever.
Page 50, GCC 32.2 (l)	(l) Service Tax Act	(l) GST Act

SPECIAL CONDITIONS OF THE CONTRACT (SCC)		
Page 72, SCC 6.0	6.0 MOBILISATION PERIOD 6.1 INITIAL MOBILIZATION: The successful bidder must be able to mobilize their personnel, all equipment, tools, spares and all other necessary materials required for carrying out the intended jobs within thirty (30) days from the date of issue of LOA or mobilization advice by the Company. 6.2 SUSEQUENT MOBILIZATION: The successful bidder must be able to mobilize their personnel, all equipment, tools, spares and all other necessary materials required for carrying out the intended jobs within fifteen (15) days from the date of issue of mobilization notice by the Company against each call. 6.3 The successful bidder, following award of the contract and mobilization of the crew and equipment, will be required to provide services as and when required as desired by Company on call-out basis in line with the scope of work.	6.0 MOBILISATION PERIOD 6.1 INITIAL MOBILIZATION: The successful bidder must be able to mobilize their personnel, all equipment, tools, spares and all other necessary materials required for carrying out the intended jobs within ninety (90) days from the date of issue of mobilization advice/LOA by the Company. 6.2 INTERIM RE-MOBILIZATION: The successful bidder must be able to remobilize their personnel, all equipment, tools, spares and all other necessary materials required for carrying out the intended jobs within seven (7) days from the date of issue of interim re-mobilization notice by the Company. 6.3 The successful bidder, following award of the contract and mobilization of the crew and equipment, will be required to provide services as and when required as desired by Company on call-out basis in line with the scope of work.
SCHEDULE OF RATES (SOR)		
Part-3, Section-IV (SOR)	Schedule of Rates	Revised Schedule of Rates has been incorporated. Refer Annexure-SOR
	Proforma - B	Revised Proforma - B & B1 uploaded. Bidders to quote in the revised Price Proformas.

SCOPE OF WORK/TERMS OF REFERENCE/TECHNICAL SPECIFICATION (Part-3, Section-II)		
1.0 DEFINITION OF WORK:	The major equipment offered i.e. Coiled Tubing Unit, Nitrogen Pumping Unit and Fluid Pumping Unit with heating facility shall not be more than 5 (five) years old (i.e. manufactured not before the year 2012).	The major equipment offered i.e. Coiled Tubing Unit, Nitrogen Pumping Unit and Fluid Pumping Unit with heating facility shall not be more than 10 (TEN) years old (i.e. manufactured not before the year 2007).
4.0 DEFINITION OF WORK:	The well servicing service package will consist of the following Line Item-8 Truck-mounted water Tank of minimum capacity 3,000 USG	The well servicing service package will consist of the following Line Item-8 Truck-mounted water Tank of minimum capacity 3,000 USG or twin Batch mixer (2 *50bbl) which makes 3000 USG or more.
4.0 DEFINITION OF WORK:	The well servicing service package will consist of the following Line Item-8 Truck-mounted high pressure Acid Pumping Unit	Line Item-8 Truck/Trailer/skid-mounted high pressure Acid Pumping Unit
2.1 WELL SERVINCING JOBS INCLUDING BUT NOT LIMITED TO THE FOLLOWING JOBS:	b) De-waxing of well with CTU, NPU/ FPU with heating facility (HOCU)	b) De-waxing of well with CTU, NPU/ FPU with heating facility (HOCU) for heating crude at site
5.0 PRESENCE OF CO2 & H2S :	Presence of CO2 around 28% is expected in the gas wells. In Oil (Heavy oil) wells H2S is expected in minor amounts.	Presence of CO2 around 28% is expected in the gas wells. In Oil (Heavy oil) wells H2S is expected in minor amounts. H2S -1.2% (Approx).
7.0 TECHNICAL GUIDELINES FOR SELECTION OF THE UNITS AND ACCESSORIES TO BE PROVIDED BY SUCCESSFUL CONTRACTOR:	A. Coiled Tubing Unit : Coiled Tubing Unit of size 1 ½” OD CT mounted on a oil field truck/skid/trailer along with following dimensions accessories should meet the following minimum requirement: Engine: The Contractor shall provide engine(s) with BHP as per the design load. Engine(s) should be of minimum EURO III / BS III or equivalent norms.	A. Coiled Tubing Unit : Coiled Tubing Unit of size 1.25" or 1 ½” OD CT mounted on a oil field truck/skid/trailer/Hydra Rig Truck mounted along with following dimensions accessories should meet the following minimum requirement: Engine: The Contractor shall provide engine(s) with BHP as per the design load. Engine(s) should adhere with the latest environmental norms.

	DIMENSION (COMPLETE UNIT/INCLUDING TRAILER) Overall Width(max) - Approx. 3 meter (9.85 feet) Overall Height(max) - Within 4.25 meter (14 feet) Overall Length(max) - Approx. 18.0 meter (59 feet) Ground Clearance - Approx. 25.0 cm. (10 inch)	DIMENSION (COMPLETE UNIT/INCLUDING TRAILER) Overall Width(max) - Approx. 3 meter (9.85 feet) Overall Height(max) - Within 4.66 meter (15.3 feet) Overall Length(max) - Approx. 18.89 meter (62 feet) Ground Clearance - Approx. 25.0 cm. (10 inch) It can also be a Hydra rig truck mounted CT unit with prime mover
7.0 TECHNICAL GUIDELINES FOR SELECTION OF THE UNITS AND ACCESSORIES TO BE PROVIDED BY SUCCESSFUL CONTRACTOR:	C) FLUID PUMPING UNIT: The contractor shall arrange for supply of water to the pumping unit using water tankers (using 2 nos of 20KL capacity water bowser) to carry out relevant well servicing job, at well site. However, condensate and diluents for de-waxing operation will be provided by OIL. DIMENSION (COMPLETE UNIT /INCLUDING TRAILER) Overall Width(max) - Approx. 3 meter (9.85 feet) Overall Height(max) -Within 4.25 meter (14 feet) Overall Length(max) -Approx. 18.0 meter (59 feet) Ground Clearance - approx. 25.0 cm. (10 inch)	C) FLUID PUMPING UNIT: The contractor shall arrange for supply of water to the pumping unit using water tankers (using 2 nos of 20KL capacity water bowser) to carry out relevant well servicing job, at well site. However, condensate and diluents for de-waxing operation will be provided by OIL. DIMENSION (COMPLETE UNIT /INCLUDING TRAILER) Overall Width(max) - Approx. 3 meter (9.85 feet) Overall Height(max) -Within 4.57 meter (15 feet) Overall Length(max) -Approx. 18.89 meter (62 feet) Ground Clearance - approx. 25.0 cm. (10 inch)
7.0 TECHNICAL GUIDELINES FOR SELECTION OF THE UNITS AND ACCESSORIES TO BE PROVIDED BY SUCCESSFUL CONTRACTOR:A. Coiled Tubing UnitDIMENSION (COMPLETE UNIT/INCLUDING TRAILER	2. Tubing Reel1½” OD Tubing Reel assembly: The unit shall have the provision for adapting 1 ½” OD coiled tubing of minimum length of 4,800 meters. The CTU shall be equipped with an attachment to adapt 1.½” OD CT. As such, the Contractor shall keep the following equipment ready in hand:1. 1 ½” CT Reel X 4,800 m (of QT 800 or equivalent) = 1 no.2. Additional Tube Reel assembly for 1 ½” CT = 1 no	2. Tubing Reel: 1.25" or 1½” OD Tubing Reel assembly: The unit shall have the provision for adapting 1.25" or 1 ½” OD coiled tubing of minimum length of 3500 meters. The CTU shall be equipped with an attachment to adapt 1.½” OD CT. As such, the Contractor shall keep the following equipment ready in hand:1. 1.25" or 1 ½” CT Reel X 3,500 m or higher (of QT 800 or equivalent) = 1 no.2. Additional Tube Reel assembly for 1 ½” CTx3000 m = 1 no

7.0 TECHNICAL GUIDELINES FOR SELECTION OF THE UNITS AND ACCESSORIES TO BE PROVIDED BY SUCCESSFUL CONTRACTOR: A. Coiled Tubing Unit DIMENSION (COMPLETE UNIT/INCLUDING TRAILER 7.0 TECHNICAL GUIDELINES FOR SELECTION OF THE UNITS AND ACCESSORIES TO BE PROVIDED BY SUCCESSFUL CONTRACTOR: A. Coiled Tubing Unit DIMENSION (COMPLETE UNIT/INCLUDING TRAILER	4. Blow Out Preventor (BOP): Atleast One hydraulically operated 2.9/16″ bore X 5,000 PSI (API 6A) flange ended BOP having Quadra ram provision, one for 1. ½″ OD tubing, one for 1. ½″ OD slip, one for 1. ½″ OD shear ram and one for 1. ½″ OD blind ram. BOP with size 3 1/2" X 10,000 psi with suitable adapter to match with the well head as specified in above is also acceptable. The Contractor is to supply necessary well head adapters required for installation of the BOP on to the top flange of the well heads specified as: a) 2.9/16″ X 3,000 PSIG WP flanged (API 6A) X-mas tree assembly. 2.9/16″ or 3.1/2" X 5,000 PSIG WP flanged (API 6A) X-mas tree assembly	Blow Out Preventor (BOP): Atleast One hydraulically operated 2 9/16″ bore X 5,000 PSI (API 6A) flange ended BOP having Quadra ram provision, one for 1. ½″ OD tubing, one for 1. ½″ OD slip, one for 1. ½″ OD shear ram and one for 1. ½″ OD blind ram. BOP with size 3 1/2" X 10,000 psi or 4-1/16" x 10000 psi (bigger) with suitable adapter to match with the well head as specified in above is also acceptable. The Contractor is to supply necessary well head adapters required for installation of the BOP on to the top flange of the well heads specified as: a) 2.9/16″ X 3,000 PSIG WP flanged (API 6A) X-mas tree assembly. 2.9/16″ or 3.1/2" X 5,000 PSIG WP flanged (API 6A) X-mas tree assembly
7.0 TECHNICAL GUIDELINES FOR SELECTION OF THE UNITS AND ACCESSORIES TO BE PROVIDED BY SUCCESSFUL CONTRACTOR: A. Coiled Tubing Unit Clause 9.0	The Contractor shall keep one additional pressure control equipment BOP & Stripper) for intervening wells of Well Head Pressure (WHP) more than 3,500 psig.	The Contractor shall keep one additional pressure control equipment BOP & Stripper for intervening wells of Well Head Pressure (WHP) more than 3,500 psig and would have sufficient spares for proper maintenance of the equipment to avoid any downtime.

7.0 TECHNICAL GUIDELINES FOR SELECTION OF THE UNITS AND ACCESSORIES TO BE PROVIDED BY SUCCESSFUL CONTRACTOR: B. NITROGEN PUMPING UNIT	B.1. LIQUID NITROGEN STORAGE TANK : • Net capacity: 10,000 US gallons. B.2. LIQUID NITROGEN TRANSPORTER TANK • Net Capacity : 2,000 US gallon	B.1. LIQUID NITROGEN STORAGE TANK : • Net capacity: 7,000 US gallons or in multiples of 2000 gal. B.2. LIQUID NITROGEN TRANSPORTER TANK • Net Capacity : 2,000 US gallon
7.0 TECHNICAL GUIDELINES FOR SELECTION OF THE UNITS AND ACCESSORIES TO BE PROVIDED BY SUCCESSFUL CONTRACTOR:D) ACID PUMPING UNIT: D2 & D3	D) ACID PUMPING UNIT:D.2 ACID MIXING TANK: Contractor shall provide 02 (two) nos. of 2,500 Imp Gal (min) capacity or 01 (one) No. of tank with two compartments of capacity 2,500 Imp Gal (min) each,skid mounted acid mixing tanks (Closed top with removable lid for filling up) with suitable acid resistant lining inside the tank and necessary fittings of the tank. D.3 ACID STORAGE TANK: 01 (One) No. 3000 US gallons, acid resistant suitable for storing acid.	ACID PUMPING UNIT:D.2 ACID MIXING TANK: Contractor shall provide 02 (two) nos. of 2,500 Imp Gal (min) capacity or 01 (one) No. of tank with two compartments of capacity 2,500 Imp Gal (min) each,skid/ trailer/ truck mounted acid mixing tanks (Closed top with removable lid for filling up) with suitable acid resistant lining inside the tank and necessary fittings of the tank. D.3 ACID STORAGE TANK:3000 US gallons, acid resistant suitable for storing acid.(storgae can be in tanks or drums)
7.0 TECHNICAL GUIDELINES FOR SELECTION OF THE UNITS AND ACCESSORIES TO BE PROVIDED BY SUCCESSFUL CONTRACTOR: D) ACID PUMPING UNIT:	Note:. The vintage of major equipment i.e. Acid pumping unit, Acid Tanker and Acid Loading & Unloading pump to be deployed by the bidder for Acidization operation shall not be more than 5 (Five) years as on bid closing date.	Note:. The vintage of major equipment i.e. Acid pumping unit, Acid Tanker and Acid Loading & Unloading pump to be deployed by the bidder for Acidization operation shall not be manufactured before 01/01/2007.
14.0 SUCCESS OF THE ACIDIZATION JOB:	14.0 SUCCESS OF THE ACIDIZATION JOB: An acidization job will be termed as "successful" job if a minimum 80% of the designed treated volume agreed upon by the contractor and OIL is pumped into that particular well. The designed treated volume shall comprise of	An acidization job will be termed as "successful" job if a minimum 80% of the designed treated volume agreed upon by the contractor and OIL is pumped into that particular well. The designed treated volume shall comprise of chemicals, consumables, additives etc. for well bore cleanout, acid preflush, low strength main acid, high strength main acid and overflush.

	chemicals, consumables, additives etc. for well bore cleanout, acid preflush, low strength main acid, high strength main acid and overflush. Any unsuccessful job would result in no payment for operating day ratecharge, cost of chemicals, additives, consumables etc. for that job.	Any unsuccessful job would result in no payment for operating day rate charge, cost of chemicals, additives, consumables etc. for that job. Payment will be as per contract terms which is mentioned in the schedule of rates based on actual consumption. Bidder shall not be held responsible for incomplete pumping for any problem in the well.
13 WASTE MANAGEMENT	13. WASTE MANAGEMENT The bidder has to dig out a earthen pilot pit. The size of the pit should be such that it accommodates 1.5 times the total volume of the return acid plus the neutralizing agent. The pit should be fenced with 04 feet high jingle wire fence with concrete posts to protect men & animals from accidently falling into the pit	13. WASTE MANAGEMENT : All out effort shall be put by the bidder to protect the environment from any kind of pollution arising out of acidization treatment. The equipment, material etc. used for the purpose shall be of environment friendly in nature as far as possible. Noise level of the equipment used for acidization shall be within the limit of 90 db. The bidder shall design the acid job in such a way that the amount of waste is kept at its minimum. Spent or Unspent acids, reaction products and other chemicals exposed to the surface shall be neutralized with proper neutralizing agent. Neutralization tests are to be conducted by the bidder to ensure complete neutralization. Samples of the acids and chemicals are to be tested at the Field Lab by the bidder and certified. The certificates are to be submitted to the Company. Most of the wells will have their own effluent pit. The bidder has to neutralize the total volume of the return acid plus with proper neutralizing agent in tanks of the bidder and after proper neutralization test dispose the same from tank in the effluent pit. The bidder has to confirm the results of the neutralization test with Company representative before dispose to effluent pit. A safety sign board is also to be made and grouted inside the fence.
Clause 13.1	v) Post-stimulation well testing has been suggested to determine the pretreatment and post treatment skin values preferably identifying damage skin. The bidder shall prepare a plan of such testing in consultation with the company. Role and responsibility of both the parties shall be worked out at the time of planning the job.	Post-stimulation well testing has been suggested to determine the pretreatment and post treatment skin values preferably identifying damage skin. The bidder shall prepare a plan of such testing in consultation with the company. Role and responsibility of both the parties shall be worked out at the time of planning the job. All well data will be provided nearer the time and after consultation with the bidder the job will be executed.

SOW Cl 2.0 Table SN 4	Acid Mixing Tank (2500 Imp Gal) (Minimum)	Acid Mixing Tank (2000 Imp Gal) (Minimum)
SOW Cl 2.0 Table SN 3	Fluid Pumping unit with heating Facility and with provision for supply of water	Fluid Pumping unit with heating Facility and with provision for supply of water or indirect heater with sufficient BTU
SOW Cl 2.0 Table SN 9	Addition of line item SN9 for the Echo-meter which is part of the services.	Echometer Service for fluid level Measurement
2.1 WELL SERVINCING JOBS INCLUDING BUT NOT LIMITED TO THE FOLLOWING JOBS: NO 2.1 (A)	Oil/Gas Well activation with CTU and /or NPU units. The job will involve unloading and activation of new/ work-over/ shut in/ ceased wells using CTU and / or NPU units. It involves lowering of coiled tubing in stages to the bottom of the well or to the final depth as decided by the Company and displace the well fluid with nitrogen to the desired volume/ depth and make the well displace on its own	Oil/Gas Well activation with CTU and /or NPU units. The job will involve unloading and activation of new/ work-over/ shut in/ ceased wells using CTU and / or NPU units. It involves lowering of coiled tubing in stages to the bottom of the well or to the final depth as decided by the Company and displace the well fluid with nitrogen to the desired volume/ depth and make the well displace on its own. OIL requires activation of its wells by the said operation in forward circulation.
2.1 WELL SERVINCING JOBS INCLUDING BUT NOT LIMITED TO THE FOLLOWING JOBS: NO 2.1 (b)	b) De-waxing of well with CTU, NPU/ FPU with heating facility (HOCU) The job involves circulating fluid through coiled tubing and simultaneously running the coiled tubing down the well judiciously. Utmost care to be taken during the job so that at no stage the tubing stuck up in wax or other materials takes place in the hole.	De-waxing of well with CTU, NPU/ FPU with heating facility (HOCU) The job involves circulating fluid through coiled tubing and simultaneously running the coiled tubing down the well judiciously. Utmost care to be taken during the job so that at no stage the tubing stuck up in wax or other materials takes place in the hole.Bidder needs to heat crude oil upto 75 C to enhance mobility of the crude
2.1 WELL SERVINCING JOBS INCLUDING BUT NOT LIMITED TO THE FOLLOWING JOBS: NO 2.1 (e)	Acidization job execution: •Tubing Integrity test •Acid pickling •Well bore clean out •Acid Preflush •Low strength main acid •High strength main acid •Over flush	Acidization job execution: •Tubing Integrity test •Acid pickling •Well bore clean out •Acid Preflush •Low strength main acid •High strength main acid •Over flush The requirements will be intimated based on well characteristics during job execution. Acid concentration (by wt.) is 5% to 15%

B. NITROGEN PUMPING UNIT	NITROGEN PUMPING UNIT: Nitrogen pumping Unit (NPU) mounted on an Oil field truck/skid/trailer capable of pumping and vaporizing 180000 SCFH (MAX) and pressure up to 5,000 psi along with a minimum storage tank of capacity 10000 US gallons liquid nitrogen including all requisite piping's and fittings	Nitrogen pumping Unit (NPU) mounted on an Oil field truck/skid/trailer capable of pumping and vaporizing 180000 SCFH (MAX) and pressure up to 5,000 psi along with a minimum storage tank of capacity 7000 US gallons (or more) liquid nitrogen including all requisite piping's and fittings
B. NITROGEN PUMPING UNIT	B.1. LIQUID NITROGEN STORAGE TANK : The Contractor shall provide Liquid Nitrogen Storage Tank(s) of the following specification: • Net capacity: 10,000 US gallons. • Maximum allowable working pressure: 100 psig. Operating Temperature Ranges Minimum: -20°F (0 °C) Maximum: 120°F (49°C) The Tank must conform to SMPV rules. Tanks must be fitted with standard safety relief systems as per applicable ASME code. For example, 1. Relief valve 2. Block line relief valve 3. Tank 4. Rupture disk 5. Annular space relief valve Tank must be provided with suitable pressure building coil to pressurize vessel for withdrawal of liquid.	B.1. LIQUID NITROGEN STORAGE TANK : The Contractor shall provide Liquid Nitrogen Storage Tank(s) of the following specification: • Net capacity: 7,000 US gallons. • Maximum allowable working pressure: 100 psig. Operating Temperature Ranges Minimum: -20°F (0 °C) Maximum: 120°F (49°C) The Tank must conform to SMPV rules. Tanks must be fitted with standard safety relief systems as per applicable ASME or SMPV code. For example, 1. Relief valve 2. Block line relief valve 3. Tank 4. Rupture disk 5. Annular space relief valve Tank must be provided with suitable pressure building coil to pressurize vessel for withdrawal of liquid.
C) FLUID PUMPING UNIT:	The unit shall be complete with Blender & Filtration unit with a fluid capacity tank and necessary piping, fittings & tools. The pump shall be suitable to handle fluid viz. Crude oil, HSD, water, saline water, mineral oils, high viscous fluids, mud, acid etc	The unit shall have a fluid capacity tank and necessary piping, fittings & tools. The pump shall be suitable to handle fluid viz. Crude oil, HSD, water, saline water, mineral oils, high viscous fluids, mud, acid etc
FIRE FIGHTING AND SAFETY EQUIPMENT/SERVICES :	Fire protection at well sites shall be the responsibility of the Contractor. Necessary action shall be taken and prior arrangements to be made for providing competent persons	Fire protection at well sites to its equipmentsshall be the responsibility of the Contractor. Necessary action shall be taken and prior arrangements to be made for providing competent persons trained in the field of fire-fighting (certificate/diploma

	trained in the field of fire-fighting (certificate/diploma holders) at the well site.	holders) at the well site.
12.0 COMPANY'S REQUISITES 12.1KEY PERSONNEL: 1. OVERALL SUPERVISOR :	Shall be engineering graduate or equivalent with sound health, must have minimum of 10 years of work experience in E&P business out of which 05 years experience in well servicing operation with CTU, NPU, FPU with heating facility OR Shall be Engineering Diploma holder with sound health, must have minimum of 15 years of work experience in E&P business out of which 05 years experience in well servicing operation with CTU, NPU, FPU with heating facility. ii) Shall be well conversant with operation and maintenance of equipment deployed and safety regulations iii) Shall have good skill in writing and speaking English.	Shall be engineering graduate or equivalent with sound health and shall have minimum of 5 years of work experience in E&P business out of which 03 years experience in well servicing operation with CTU, NPU, FPU with heating facility OR Shall be Engineering Diploma holder with sound health, must have minimum of 07 years of work experience in E&P business out of which 03 years experience in well servicing operation with CTU, NPU, FPU with heating facility. ii) Shall be well conversant with operation and maintenance of equipment deployed and safety regulations iii) Shall have good skill in writing and speaking English.
12.0 COMPANY'S REQUISITES 12.1KEY PERSONNEL: 2) COILED TUBING OPERATOR:	i) Shall be science graduate/engineering diploma holder or equivalent, with sound health and have minimum of 03 years of work experience in operation and maintenance of Coiled tubing Unit in oil/gas wells. OR Shall be High School or equivalent passed with sound health, must have minimum of 10 years of experience in operation and maintenance of Coiled tubing Unit in oil/gas wells.	i) Shall be science graduate/engineering diploma holder or equivalent, with sound health and have minimum of 03 years of work experience in operation and maintenance of Coiled tubing Unit in oil/gas wells. OR Shall be High School or equivalent passed with sound health, must have minimum of 05 years of experience in operation and maintenance of Coiled tubing Unit in oil/gas wells.
12.0 COMPANY'S REQUISITES 12.1KEY PERSONNEL: 3) NITROGEN PUMPER OPERATOR:	3) NITROGEN PUMPER OPERATOR: i) Shall be science graduate/engineering diploma holder or equivalent, with sound health and have minimum of 03 years of work experience in operation and maintenance of Nitrogen Pumping Unit in oil/gas wells. OR Shall be High School or equivalent passed with	3) NITROGEN PUMPER OPERATOR: i) Shall be science graduate/engineering diploma holder or equivalent, with sound health and have minimum of 03 years of work experience in operation and maintenance of Nitrogen Pumping Unit in oil/gas wells. OR Shall be High School or equivalent passed with sound health, must have minimum of 05 years of experience in operation and

	sound health, must have minimum of 10 years of experience in operation and maintenance of Nitrogen Pumping Unit in oil/gas wells. ii) Should be capable of writing and speaking English. iii) Should be conversant with well control methods to take independent decisions in case of well emergencies.	maintenance of Nitrogen Pumping Unit in oil/gas wells. ii) Should be capable of writing and speaking English. iii) Should be conversant with well control methods to take independent decisions in case of well emergencies.
12.0 COMPANY'S REQUISITES 12.1KEY PERSONNEL: 4) FLUID PUMPER OPERATOR:	FLUID PUMPER OPERATOR: i) Shall be high school passed and ITI certificate holder or equivalent, with sound health and have minimum of 03 years of work experience in operation and maintenance of Fluid Pumping Unit in oil/gas wells. OR Shall be High School or equivalent passed with sound health, must have minimum of 10 years of experience in operation and maintenance of Fluid Pumping Unit in oil/gas wells.	FLUID PUMPER OPERATOR: i) Shall be high school passed and ITI certificate holder or equivalent, with sound health and have minimum of 03 years of work experience in operation and maintenance of Fluid Pumping Unit in oil/gas wells. OR Shall be High School or equivalent passed with sound health, must have minimum of 05 years of experience in operation and maintenance of Fluid Pumping Unit in oil/gas wells.
12.0 COMPANY'S REQUISITES 12.1KEY PERSONNEL: 6) WORK MANAGER ACIDIZATION:	6) WORK MANAGER ACIDIZATION: i) Shall be engineering graduate or equivalent with sound health and shall have minimum of 5 years of work experience in E&P business out of which 03 years experience in Well Stimulation Service OR Shall be Engineering Diploma holder with sound health and shall have minimum of 7 years of work experience in E&P business out of which 03 years experience in Well Stimulation Service	6) WORK MANAGER ACIDIZATION: i) Shall be engineering graduate or equivalent with sound health and shall have minimum of 5 years of work experience in E&P business out of which 03 years experience in Well Stimulation Service OR Shall be Engineering Diploma holder with sound health and shall have minimum of 7 years of work experience in E&P business out of which 03 years experience in Well Stimulation Service
12.0 COMPANY'S REQUISITES	14) The age of the key personnel except Overall Supervisor should not be more than 45 years.	14) The age of the key personnel except Overall Supervisor should not be more than 50 (fifty) years.
11.0 PERSONNEL TO BE DEPLOYED	POSITION MINIMUM EXPERIENCE NUMBER OF PERSONNEL Overall Supervisor 10 Years 1 Coiled Tubing Operator 03 Years 1	POSITION MINIMUM EXPERIENCE NUMBER OF PERSONNEL Overall Supervisor 05 Years 1 Coiled Tubing Operator 03 Years 1 Nitrogen Pumper Operator 03 Years 1

	Nitrogen Pumper Operator 03 Years 1 Fluid Pumper Operator 03 Years 1 Asst. Operator for Equipment 03 Years 3 Works Manager for acidization 10 Years 1 Acidizing Supervisor 03 Years 1 Acidizing Operator 03 Years 2 Technician 03 Years 2	Fluid Pumper Operator 03 Years 1 Asst. Operator for Equipment 03 Years 3 Works Manager for acidization 05 Years 1 Acidizing Supervisor 03 Years 1 Acidizing Operator 03 Years 2 Technician 03 Years 2

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