OIL INDIA LIMITED
RAJASTHAN FIELD
JODHPUR

CORRIGENDUM
TENDER No. CJG2946L20

1.0 Amendment No. 2 dated 30.12.2019 has been issued to incorporate the changes in some of the SOW clauses and to extend the Bid Closing/Technical Bid Opening Date against Tender No. CJG2946L20 as under :

Bid Closing Date & Time : 21.01.2020 at 11-00 hrs. (IST)

Technical Bid Opening Date & Time : 21.01.2020 at 15-00 hrs. (IST)

2.0 The following clauses under SOW has been amended as under :

Srl. No.	EXISTING CLAUSE	AMENDED CLAUSE
	Part-3, Section-II **Scope of Work/Terms of Reference/ Technical Specification**	**Part-3, Section-II** **Scope of Work/Terms of Reference/Technical Specification**
1	3.6 **No. of Wells & Target Depths (TD):** A total of about ten (15) nos. wells in Dandewala & Baghewala PML & OALP areas have been planned to be drilled during the contractual period of initial three (3) years for which the Contractor will be required to provide the Cementing & BHP services as per the Terms & Conditions of the contract. The wells will be vertical/deviated holes with formation pressure to be near or above hydrostatic. Well depths are expected to be in the range of 1100 –2800 meters. True vertical depth (TVD) of deviated well (J-Bend / Horizontal)) will be approximately 1200 m with measured well depth (MWD) of around 1800 m having horizontal displacement of 150 – 500 m. Depth of the wells may somewhat increase or decrease at the discretion of the Company. The wells shall be drilled with thermal/non-thermal completion for exploitation of heavy oil in Bikaner – Nagaur Basin in Baghewala Area. However, the number of wells may also vary and Company's decision in this regard will be final and binding. Cementing services may also be required for a few vertical work-over wells (gas) in PML areas of Jaisalmer and Bikaner-Nagaur Basin depending on status/condition of the wells and corresponding work-over program which	3.6 **No. of Wells & Target Depths (TD):** A total of about fifteen (15) nos. wells in Dandewala & Baghewala PML & OALP areas have been planned to be drilled during the contractual period of initial three (3) years for which the Contractor will be required to provide the Cementing & BHP services as per the Terms & Conditions of the contract. The wells will be vertical/deviated holes with formation pressure to be near or above hydrostatic. Well depths are expected to be in the range of 1100 –2800 meters. True vertical depth (TVD) of deviated well (J-Bend / Horizontal)) will be approximately 1200 m with measured well depth (MWD) of around 1800 m having horizontal displacement of 150 – 500 m. Depth of the wells may somewhat increase or decrease at the discretion of the Company. The wells shall be drilled with thermal/non-thermal completion for exploitation of heavy oil in Bikaner – Nagaur Basin in Baghewala Area. However, the number of wells may also vary and Company's decision in this regard will be final and binding. Cementing services may also be required for a few vertical work-over wells (gas) in PML areas of Jaisalmer and Bikaner-Nagaur Basin depending on status/condition of the wells and corresponding work-over program which may include cement squeeze and cement plug jobs.

	may include cement squeeze and cement plug jobs. Depth of these work-over wells varies from 1000 m - 2200 m and well completion is 7"/5.5" casing. Approximate quantum of jobs in work-over well are included in Price Bid Format (**Proforma-B**).	Depth of these work-over wells varies from 1000 m - 2200 m and well completion is 7"/5.5" casing. Approximate quantum of jobs in work-over well are included in Price Bid Format (**Proforma-B**).
2	**4.0 DESCRIPTION OF WORK** The scope of work involved, equipment/tools, man-power and consumables required as well as expected quantum of jobs to be performed during a period of initial twelve (12) months operation are furnished in **ANNEXURE–I, ANNEXURE – II, ANNEXURE – III & ANNEXURE- IV** respectively in this section. However, the quantum of jobs may vary depending upon various drilling activities to be taken up by the Company during the course of the contract and need to be attended by the Contractor. The Contractor, following mobilization of crew, equipment/tools and consumables, will be required to provide the intended services as desired by the Company as per contractual Terms & Conditions. It has been planned to start drilling operations in April, 2017 and the activities will be so coordinated that only one number of Cementing Unit, one complete set of Bulk-Handling Plant, one number of Pneumatic Silo, one number of Batch Mixer and one set of Crew (On-Off basis) should cater to the requirements in both drilling and work-over wells.	**4.0 DESCRIPTION OF WORK** The scope of work involved, equipment/tools, man-power and consumables required as well as expected quantum of jobs to be performed during a period of initial thirty-six(36) months operation are furnished in **ANNEXURE–I, ANNEXURE – II, ANNEXURE – III & ANNEXURE- IV** respectively in this section. However, the quantum of jobs may vary depending upon various drilling activities to be taken up by the Company during the course of the contract and need to be attended by the Contractor. The Contractor, following mobilization of crew, equipment/tools and consumables, will be required to provide the intended services as desired by the Company as per contractual Terms & Conditions. It has been planned to start drilling operations in April, 2020 and the activities will be so coordinated that only one number of Cementing Unit, one complete set of Bulk-Handling Plant, one number of Pneumatic Silo, one number of Batch Mixer and one set of Crew (On-Off basis) should cater to the requirements in both drilling and work-over wells.
3	**Annexure- II** 1 (c). Pumps: Two numbers single acting triplex pumps, having a minimum output of 300 HP each. Pumps should have interchangeable fluid end sizes to vary the maximum rate and pressure output. Piping system on pump unit should allow for - i) Filling of either side of the displacement tank independently during pumping operations. ii) Direct gravity feed to one or both the pumps from the displacement tank. iii) Pressurized feed via centrifugal pressuring pump to one or both the pumps. iv) Suction feed (pressurized) from the cement mixing system to one or both the pumps.	**Annexure- II** 1 (c). Pumps: Two numbers single acting triplex pumps, having a minimum output of 250-300 HP each. Pumps should have interchangeable fluid end sizes to vary the maximum rate and pressure output. Piping system on pump unit should allow for - i) Filling of either side of the displacement tank independently during pumping operations. ii) Direct gravity feed to one or both the pumps from the displacement tank. iii) Pressurized feed via centrifugal pressuring pump to one or both the pumps. iv) Suction feed (pressurized) from the cement mixing system to one or both the pumps.
4	**Annexure- II** 1 (h). Density to be recorded by Radioactive/Non-radioactive Densitometer utilizing a low capacity cesium 137 or equivalent source.	**Annexure- II** 1(h). Density to be recorded by Non-radioactive Densitometer.
5	**Annexure- II** **2) BATCH MIXERS:** One number of 100 - 120 bbl (US) capacity skid-mounted twin tank Cement Batch	**Annexure- II** **2) BATCH MIXERS:** One number of 100 - 120 bbl (US) capacity skid-mounted twin tank Cement Batch Mixer with

	Mixer with recirculation/jet mixing system. The Batch Mixers should be complete with all standard equipment, gadgets, pipe fittings etc. for preparation of cement slurries as desired by Company or Consultant engaged by the Company. The unit should be powered with a preferably Caterpillar engine (electronically controlled diesel engine) of 260-350 BHP (minimum) rating which distributes power to all the pumps running the mixing, recirculation, delivery/booster system, tank agitators and control functions through PTO. The Batch Mixer should contain two hydraulically driven recirculation/mixing centrifugal pumps, one hydraulically driven booster centrifugal pumps, one hydraulically driven centrifugal pump for each agitator of the two mixing/blending tanks for mechanical mixing, recirculation and delivery in addition to all the necessary piping for jet mixing as well as independently re-circulating the mixture. It includes piping for cement feeding the tanks directly into the jet mixing system for better mixing from a convenient location at the bottom of the unit in addition to an auxiliary hopper. There should be an operator platform at an elevated position between the two mixing tanks. The control panel should provide control for the engine, agitator speed and centrifugal pump speed. Additionally, the piping layout should be engraved on the stainless steel plate of the control panel with pneumatic control for butterfly valve actuators. The Batch Mixers will be required for preparation of pre-mixed homogenous tail cement slurry of required density in case of cementation using lead & tail slurries and cement plug jobs.	recirculation/jet mixing system. The Batch Mixers should be complete with all standard equipment, gadgets, pipe fittings etc. for preparation of cement slurries as desired by Company or Consultant engaged by the Company. The unit should be powered with a preferably Caterpillar engine (electronically controlled diesel engine) of 260-350 BHP (minimum) rating which distributes power to all the pumps running the mixing, recirculation, delivery/booster system, tank agitators and control functions through PTO/ hydraulic driven pumps. The Batch Mixer should contain two hydraulically driven recirculation/mixing centrifugal pumps, one hydraulically driven booster centrifugal pumps, one hydraulically driven centrifugal pump for each agitator of the two mixing/blending tanks for mechanical mixing, recirculation and delivery in addition to all the necessary piping for jet mixing as well as independently re-circulating the mixture. Also, batchmixers equipped with 2 centrifugal pumps for recirculation/mixing and electrically driven motors for agitation purpose is acceptable if the same meets the tender requirement. It includes piping for cement feeding the tanks directly into the jet mixing system for better mixing from a convenient location at the bottom of the unit in addition to an auxiliary hopper. There should be an operator platform at an elevated position between the two mixing tanks. The control panel should provide control for the engine, agitator speed and centrifugal pump speed. Additionally, the piping layout should be engraved on the stainless steel plate of the control panel with pneumatic control for butterfly valve actuators. The Batch Mixers will be required for preparation of pre-mixed homogenous tail cement slurry of required density in case of cementation using lead & tail slurries and cement plug jobs.
6	**Annexure- II** 3 (a). 2" Chiksen loops of 12 feet length each and 10,000/15,000 psi rating with adapter and min. 1502 FIG hammer union connections – **ten** (15) nos. or adequate quantities to carry out cementing jobs in 2+1 cluster locations	**Annexure- II** 3 (a) 2" Chiksen loops / straight joints of 12/10/8 feet length each and 10,000/15,000 psi rating with adapter and min. 1502 FIG hammer union connections – fifteen (15) nos. or adequate quantities to carry out cementing jobs in 2+1 cluster locations. The chicksan loop/straight joint with higher pressure rating will also be acceptable but contractor will have to provide necessary cross-over to connect to 10000 psi 1502 FIG hammer union

3.0 All other terms & Conditions remain unchanged.

****