

OIL INDIA LIMITED
(A Government of India Enterprise)
P.O. Duliajan, Pin – 786602
Dist-Dibrugarh, Assam

CORRIGENDUM

Amendment No. 2 Dated 26.08.2015
to
Tender No. SDG6009P15/08

This Amendment No. 2 dated 26.08.2015 to **Tender No. SDG6009P15/08 for Procurement of Coiled Tubing Units** is issued to notify few amendments in the Tender Document. The amendments are given in Annexure-A to this page. All other Terms & Conditions of the Tender Document remain unaltered.

(D.Thakur)
Sr. Manager (Materials)(FD)
For Head-Materials

Srl No.	Clause No & Description (as per the Original Tender)	Clause No. & Description (Amended)	Remarks
1	2.3 MEASURING AND DISPLAY: Depth measuring assembly shall be of Mechanical & Electronic type (Mechanical counter and back up by electronic depth meter). Suitable tubing depth measuring assembly complete with all accessories and mountings shall be provided. <u>The read out should be in 6 (six) digit metric units (inclusive of 2 decimal places).</u> In addition to mechanical counter an electronic depth meter shall be provided in operator's console with the following features: i) The unit shall display both depth and tubing travel rate in MKS system and FPS system. ii) The unit shall be suitable for maintaining accuracy by field calibration even if the main wheel wears out. iii) The unit shall have provision to sound an alarm when preset depth is reached and rate of tubing travel goes outside the preset range. iv) <u>The display is to be mounted in a NEMA – 4 rated enclosure.</u> It shall be of oil, water & chemical resistant type and shall work with power input of 12/24 volt DC.	2.3 MEASURING AND DISPLAY: Depth measuring assembly shall be of Mechanical & Electronic type (Mechanical counter and back up by electronic depth meter). Suitable tubing depth measuring assembly complete with all accessories and mountings shall be provided. <u>The read out should be in 6 (six) digit metric units (inclusive of 2 decimal places) for electronic counter and 5 (five) digit metric units (inclusive of 1 decimal places) for mechanical counters.</u> In addition to mechanical counter an electronic depth meter shall be provided in operator's console with the following features: i) The unit shall display both depth and tubing travel rate in MKS system and FPS system. ii) The unit shall be suitable for maintaining accuracy by field calibration even if the main wheel wears out. iii) The unit shall have provision to sound an alarm when preset depth is reached and rate of tubing travel goes outside the preset range. iv) The display is to be mounted in a NEMA – 4 rated enclosure <u>or displayed on touch screen.</u> It shall be of oil, water & chemical resistant type and shall work with power input of 12/24 volt DC.	
2	3.1 TUBING INJECTOR: ix) <u>"Quick Connector"</u> chain assembly to adapt gripper block for CT size ranging from 1.25"-1.75" OD	3.1 TUBING INJECTOR: ix) <u>"Easily removable gripper block without dismantling chain"</u> chain assembly to adapt gripper block for CT size ranging from 1.25"-1.75" OD	
3	3.2 BOP: One (01) no. hydraulically operated BOP of <u>make Bowen / Texas Oil Tool / Hydra Rig / National Oil Tool/Cameron</u> shall be supplied with the following specifications:	3.2 BOP: One (01) no. hydraulically operated BOP of make Bowen / Texas Oil Tool / Hydra Rig / National Oil Too l/ Cameron / <u>Parveen</u> shall be supplied with the following specifications:	
4	3.2 BOP: ii) Connection: <u>Quick Union pin at the TOP (to match with Stuffing box connection) 2-9/16" X 10,000 Psig flange end at the BOTTOM.</u>	3.2 BOP: ii) Connection: Quick Union <u>Box & wing nut</u> connection) 2-9/16" X 10,000 Psig flange end at the BOTTOM.	
5	3.3 HOSE REEL ASSEMBLY: i) A set of high pressure hoses	3.3 HOSE REEL ASSEMBLY: i) A set of high pressure hoses	

	<p>spooled in suitable reels shall be supplied along with the unit for connecting the various points of tubing injector, weight indicator, Hydraulic motors etc. with the control console.</p> <p>ii) All hydraulic lines as well as pneumatic hoses, electric cables etc. shall be covered/insulated and they shall not come into the contact with the truck's frame or other hard / metallic surfaces that may cause premature wear due to chaffing or vibration. Protective sheathing shall be provided wherever they come into contact with the truck's frame or other hard/metallic surfaces that may cause premature wear.</p> <p>iii) End connectors of all the hoses shall be distinctly marked with tags in both ends for easy identification.</p>	<p>spooled in suitable reels shall be supplied along with the unit for connecting the various points of tubing injector, weight indicator, Hydraulic motors, etc. with the control console.</p> <p>ii) All hydraulic lines as well as pneumatic hoses, electric cables etc. shall be covered/insulated and they shall not come into the contact with the truck's frame or other hard / metallic surfaces that may cause premature wear due to chaffing or vibration. Protective sheathing shall be provided wherever they come into contact with the truck's frame or other hard/metallic surfaces that may cause premature wear.</p> <p>iii) End connectors of all the hoses shall be distinctly marked with tags in both ends for easy identification.</p> <p><u>iv) A set of high pressure hose spooled in suitable reels shall be supplied along with the unit for connecting the various rams of the BOP with the control console.</u></p>	
6	<p>4.0 STUFFING BOX: Hydraulically actuated Side door stripper packer of make <u>Texas Oil Tool / Hydra Rig / Cameron / HPT</u> with the following specs shall be supplied.</p>	<p>4.0 STUFFING BOX: Hydraulically actuated Side door stripper packer of make Texas Oil Tool / Hydra Rig / Cameron / HPT / <u>Parveen</u> with the following specs shall be supplied.</p>	
7	<p>5.0 CRANE ASSEMBLY: i. The unit shall be equipped with hydraulically operated National Make <u>660E2</u> or equivalent make/model rear mounted Stand up Crane having:</p>	<p>5.0 CRANE ASSEMBLY: i. The unit shall be equipped with hydraulically operated National Make 660E2 / <u>XCMG SQ16SK4Q</u> or equivalent make/model rear mounted Stand up Crane having:</p>	
8	<p>6.0 CONTROL CABIN: A. The unit is to be provided with a telescopic Control Cabin Hydraulically raised with <u>Aluminum Panels</u> behind the truck cabin. The cabin shall be equipped with a hydraulic lift system such that the cabin may be raised during operation to allow the operator to have a full & clear view of the job during its operation. It shall be fitted with requisite number of doors & windows. Necessary seating arrangement for the operator & two other personnel shall be provided within the cabin. The control console is to be installed inside the cabin. e. One (1) interior <u>fluorescent light 12V</u> & installed inside the cabin. All lights are to be wired to the truck.</p>	<p>6.0 CONTROL CABIN: A. The unit is to be provided with a telescopic Control Cabin Hydraulically raised with Aluminum Panels / <u>insulated metallic composite Panels</u> behind the truck cabin. The cabin shall be equipped with a hydraulic lift system such that the cabin may be raised during operation to allow the operator to have a full & clear view of the job during its operation. It shall be fitted with requisite number of doors & windows. Necessary seating arrangement for the operator & two other personnel shall be provided within the cabin. The control console is to be installed inside the cabin. e. One (1) interior fluorescent /</p>	

	<p>I. Hydraulic hoses inside and outside of the cabin are to be connected through the <u>floor</u> of the cabin with suitable connector.</p>	<p><u>LED</u> light 12V/<u>24V</u> & installed inside the cabin. All lights are to be wired to the truck.</p> <p>I. Hydraulic hoses inside and outside of the cabin are to be connected through the floor / <u>front</u> of the cabin with suitable connector.</p>	
9	<p>8.0 HYDRAULIC TRANSMISSION & CONTROLS:</p> <p>1. All hydraulic pumps and motors shall be of hydraulically displacement control type (Electrical displacement control system is NOT <u>desirable</u>).</p>	<p>8.0 HYDRAULIC TRANSMISSION & CONTROLS:</p> <p>1. All hydraulic pumps and motors shall be of hydraulically displacement control type (Electrical displacement control system is NOT <u>acceptable</u>).</p>	
10	<p>12.0 TRUCK CHASSIS:</p> <p>Brand New Truck chassis (8x6 drive) manufactured not prior to six months from the date of issuance of Letter of Intent (LOI). It shall be of make <u>Kenworth / International / Peterbilt</u> and shall be suitable for operation in rough terrain, typical oil field roads and desert environment. The platform where the CTU equipment shall be mounted shall be robust in design and capable of withstanding and transmitting static as well as dynamic loads uniformly to the chassis. The bidder shall take special care in selecting and designing the platform considering the unit's application in rough terrain and typical oilfield roads. The offered model shall be latest and conforming to international quality standard norms, having specifications, fittings, accessories, etc. as under –</p>	<p>12.0 TRUCK CHASSIS:</p> <p>Brand New Truck chassis (8x6 / 8x8 / 10x6 drive) manufactured not prior to six months from the date of issuance of Letter of Intent (LOI). It shall be of make <u>Kenworth / International / Peterbilt / Mercedes Benz</u> and shall be suitable for operation in rough terrain, typical oil field roads and desert environment. <u>However, all the above mentioned Make are acceptable only under the guarantee from Original Equipment Manufacturer (OEM) regarding supply of spares and services in India even without any Annual maintenance contract (AMC).</u> The platform where the CTU equipment shall be mounted shall be robust in design and capable of withstanding and transmitting static as well as dynamic loads uniformly to the chassis. The bidder shall take special care in selecting and designing the platform considering the unit's application in rough terrain and typical oilfield roads. The offered model shall be latest and conforming to international quality standard norms, having specifications, fittings, accessories, etc. as under –</p>	
11	<p>12.1 DIMENSION (COMPLETE UNIT):</p> <p>Overall width - <u>2.60 meters</u> (approx.)</p> <p>Overall Height - Shall not exceed 4.5 meter</p> <p>Overall Length - Shall not exceed <u>13.5</u> meter</p> <p>Ground Clearance – Ground clearance shall be about 25.00 cm for operational convenience. The retro</p>	<p>12.1 DIMENSION (COMPLETE UNIT):</p> <p>Overall width - <u>2.85 meters (approx.)</u></p> <p>Overall Height - Shall not exceed 4.5 meter</p> <p>Overall Length - Shall not exceed <u>14.5 meter</u></p> <p>Ground Clearance – Ground clearance shall be about 25.00 cm</p>	

	fitted undercarriage components shall be mounted with sufficient ground clearance to avoid hitting/fouling while moving on uneven roads.	for operational convenience. The retro fitted undercarriage components shall be mounted with sufficient ground clearance to avoid hitting/fouling while moving on uneven roads.	
12	<p>12.2 ENGINE:</p> <p>Water cooled turbo-charged diesel engine (preferably <u>Caterpillar / International / Cummins make</u>) developing power in the range of 425-500 HP at rated RPM suitable for road drive as well as Coil Tubing Operation. Engine radiator shall be tropically pressurized. Air cooled engine will not be acceptable. Relevant technical leaflet showing make/model and other technical details including speed-torque graph of the engine shall be enclosed in the offer. The Engine exhaust pipe is to be deigned properly and located preferably behind the driver's cabin. The exhaust pipe shall be suitably wrapped with non-conducting material and enclosed in a cage. The offered engine shall comply with BS-III/EURO-III or equivalent emission standard as applicable in the state of Assam in India at the time of delivery. In case of engine with Electronic Controller System, Engine Fault Diagnostic & Repair Tool (both Software and complete Hardware) shall be supplied along with the unit. Bidder shall categorically confirm in their bid that the offered software is for the particular engine model of the truck.</p>	<p>12.2 ENGINE:</p> <p>Water cooled turbo-charged diesel engine (preferably <u>Caterpillar / International / Cummins / Mercedes Benz make</u>) developing power in the range of 425-500 HP at rated RPM suitable for road drive as well as Coil Tubing Operation. <u>However, all the above mentioned make are acceptable only under the guarantee from Original Equipment Manufacturer (OEM) regarding supply of spares and services in India even without any Annual maintenance contract (AMC).</u> Engine radiator shall be tropically pressurized. Air cooled engine will not be acceptable. Relevant technical leaflet showing make/model and other technical details including speed-torque graph of the engine shall be enclosed in the offer. The Engine exhaust pipe is to be deigned properly and located preferably behind the driver's cabin. The exhaust pipe shall be suitably wrapped with non-conducting material and enclosed in a cage. The offered engine shall comply with BS-III/EURO-III or equivalent emission standard as applicable in the state of Assam in India at the time of delivery. In case of engine with Electronic Controller System, Engine Fault Diagnostic & Repair Tool (both Software and complete Hardware) shall be supplied along with the unit. Bidder shall categorically confirm in their bid that the offered software is for the particular engine model of the truck.</p>	
13	<p>12.3 TRANSMISSION:</p> <p>Suitable <u>Allison</u> make fully automatic Transmission of 4700 series with minimum 6 forward and 1 reverse</p>	<p>12.3 TRANSMISSION:</p> <p>Suitable <u>Allison / Mercedes Benz</u> make fully automatic Transmission series with minimum 6 forward and</p>	

	speed shall be provided for both road drive and Coil Tubing Operation. The offered Transmission shall match with the maximum output torque of the engine. Suitable Transfer Case & other PTOs as per design / requirement shall be provided.	1 reverse speed shall be provided for both road drive and Coil Tubing Operation. <u>However, all the above mentioned Make are acceptable only under the guarantee from Original Equipment Manufacturer (OEM) regarding supply of spares and services in India even without any Annual maintenance contract (AMC).</u> The offered Transmission shall match with the maximum output torque of the engine. Suitable Transfer Case & other PTOs as per design / requirement shall be provided.	
14	12.4 DRIVE & STEERING Drive – Semi Forward Control (SFC) - <u>8X6 Drive</u> - (One Single non powered front axle, One powered front axle & two Powered rear axles).	12.4 DRIVE & STEERING Drive – Semi Forward Control (SFC) / <u>Full Forward Control (FFC)</u> - <u>8X6 / 8x8 / 10 x 6</u> Drive - (One Single non powered front axle, One powered front axle & two Powered rear axles).	
15	12.9 OTHER FITTINGS & ACCESSORIES C. Gauges & meters including Engine Tachometer & Hour meter shall be provided inside driver's cabin as per standard. Speedometer & Odometer with metric KM calibration only. Two (02) Nos. fan inside driver's cabin. I. Electrical equipment like starter, alternator, etc. shall be of <u>Lucas or Delco Remy make.</u>	12.9 OTHER FITTINGS & ACCESSORIES C. Gauges & meters including Engine Tachometer & Hour meter shall be provided inside driver's cabin as per standard. Speedometer & Odometer with metric KM calibration only. I. Electrical equipment like starter, alternator, etc. shall be of Lucas or Delco Remy / <u>Mitsubishi</u> make.	
16	13.3 TOOLS: xiv) <u>Roto hammer + Intensifier</u> = 1 set.	13.3 TOOLS: xiv) Roto hammer <u>(OD 2.125")</u> + Intensifier <u>(OD 2.125)</u> = 1 set	
17	14.2 OPERATIONAL CRITICAL SPARES: i) AUTOMOBILE SPARE PARTS LIST: B. TRANSMISSION - <u>4. Gear Shifter Repair Kit - 02 Sets.</u> <u>5. Gear Shifter Hoses - 02 Nos.</u>	14.2 OPERATIONAL CRITICAL SPARES: i) AUTOMOBILE SPARE PARTS LIST: B. TRANSMISSION - <u>4. Complete shifter unit - 01 Set.</u>	
18	20.0 COMMISSIONING: 20.1 The unit shall be commissioned at Duliajan, Assam, India with 3 (three) successful field jobs at different wells after arrival of the Supplier's Commissioning Engineer within a period of <u>2(two) weeks</u> time.	20.0 COMMISSIONING: 20.1 The unit shall be commissioned at Duliajan, Assam, India with 3 (three) successful field jobs at different wells after arrival of the Supplier's Commissioning Engineer within a period of <u>3 (three)</u> weeks time.	
19	Clause 23.2-a: Sale Letter, Pollution & Roadworthy Certificate (in similar format of Form 21 & 22A of Indian Motor Vehicle Act - sample copies enclosed), Engine	Clause 23.2-a: Sale Letter, Pollution & Roadworthy Certificate (in similar format of Form 21 & <u>22</u> of Indian Motor Vehicle Act - sample copies	Incorporated Form 22 instead of Form 22A

	Emission Norms Certificate, etc. as required under Indian Motor Vehicle Act for registration of the unit in the name of Oil India Limited.	enclosed), Engine Emission Norms Certificate, etc. as required under Indian Motor Vehicle Act for registration of the unit in the name of Oil India Limited.	
20	Clause 23.2-e-i: Invoice for truck chassis - it shall include the cost of the truck chassis with driver's cabin only.	Clause 23.2-e-i: Invoice for truck chassis - it shall include the cost of the truck with driver's cabin only.	
21	Clause 25.0 B: Sample copy similar to FORM 22(A) of Indian Motor Vehicle Act.	Clause 25.0 B: Sample copy similar to FORM 22 of Indian Motor Vehicle Act.	Sample copy of Form 22 is attached.
22	Delivery Period is not specified in the NIT	Bidder to quote their best delivery period.	

Note: Against NIT clause nos. 12.0 (TRUCK CHASSIS), 12.4 (DRIVE & STEERING DRIVE), Truck Chassis of size 10x6 is also acceptable provided the overall length of the unit does not exceed 14.5 m.

SAMPLE COPY OF FORM 22

B. Following is a sample copy of Indian Motor Vehicle Act only. The certificate to be issued by supplier shall contain the following minimum information. –

FORM 22

[See Rules 47 (g), 115, 124(2), 126-A and 127(1), 127(2)]

INITIAL CERTIFICATE OF COMPLIANCE WITH POLLUTION

STANDARDS, SAFETY STANDARDS OF COMPONENTS AND ROAD-WORTHINESS

(TO BE ISSUED BY THE MANUFACTURER)

Certified that the following vehicle complies with the provisions of the Motor Vehicles Act, 1988 and the rules made thereunder, including the following mass emission norms:

Brand name of the vehicle :

Chassis number :

Engine number/Motor number :

(In case of battery operated vehicles)

Sub-rule No.....of rule 115 :

Emission norms :

[(Bharat Stage-I/II/III/Bharat (Trem) Stage-III etc.)]

Signature of Manufacturer

[Form 22, shall be issued with the signature of the manufacturer duly printed in the Form itself by affixing facsimile signature in ink under the hand and seal of the manufacturer.]