



**GLOBAL TENDER No.  
JPOCL/MOBILE RIG/2010/001 Dated 05.02.2010  
FOR  
ONSHORE MOBILE RIG, BLOCK XIB, GEORGIA**

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**“JINDAL PETROLEUM OPERATING COMPANY” LLC**



## COVERING LETTER

Dear Sir,

**SUBJECT: TENDER No. JPOCL/MOBILE RIG/2010/001 FOR ONSHORE MOBILE RIG, BLOCK XIB, GEORGIA**

1.0 Government of Georgia awarded the Exploration Blocks VIIA, IX, X & XIII A and Producing Block XIB and signed a Production Sharing Agreement (PSA) with Jindal Petroleum (Georgia) Limited (JPGL).

2.0 In connection with its planned and time bound Minimum Work Program, "Jindal Petroleum Operating Company" LLC (JPOCL) now invite bids from companies having proven track record for providing onshore Mobile Rigs to Oil & Gas Exploration & Production companies.

2.1 One complete set of Tender Document for the subject work is being forwarded herewith. You are requested to send your most competitive bid well before the scheduled bid due date and time. For your ready reference, few salient points (covered in detail in this Tender Document) are highlighted below:

- (i) Tender No. : JPOCL/MOBILE RIG/2010/001
- (ii) Type of Bid : Single Stage Two Bid System
- (iii) Bid Due Date & Time : **1700 HRS (IST) of February 19, 2010**
- (iv) Bids to be addressed & submitted to: **Business Head – Oil & Gas**  
"Jindal Petroleum Operating Company" LLC  
IIIrd Floor, DCM Building,  
Plot No. 94, Sector-32  
Gurgaon - 122001, Haryana, INDIA  
Tel: +91-9717297840; Fax: +91-124-6689176
- (v) Bid Validity : Offer shall be valid for ninety (90) days from the Bid Due Date & Time
- (vi) Acknowledgement : Please acknowledge the receipt of this Tender Document by email / fax.



3.0 JPOCL now looks forward to your active participation in the tender.

If you need any clarifications please feel free to contact Mr. Vipul Singh Rawat at  
Tel: +91-124-6689258, +91-9654956915; **Fax:** +91-124-6689176 & E-mail:  
[vipul.rawat@jindalsteel.com](mailto:vipul.rawat@jindalsteel.com)

Yours truly,

**Tarun Krishna Majumder**  
**Business Head – Oil and Gas,**  
**“Jindal Petroleum Operating Company” LLC**



**GLOBAL TENDER No.  
JPOCL/MOBILE RIG/2010/001  
FOR ONSHORE MOBILE RIG, BLOCK XIB, GEORGIA**

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## **SECTION I**

### **INSTRUCTIONS TO BIDDERS**

#### **1.0 GENERAL TENDER INFORMATION:**

1.1 “Jindal Petroleum Operating Company” LLC (JPOCL) wishes to procure the Services outlined in this package with the objective of carrying Oil & Gas operations.

1.2 All activities will be measured and performed with safety to personnel and the public in general as a first consideration. Protection of the environment will follow closely behind as it is JPOCL’s policy that petroleum operations should not have detrimental effect on the environment.

1.3 Bidder shall bear all costs associated with the preparation and submission of bid.

1.4 If any omission or discrepancy is found in the tender documents or if any doubt as to their meaning arises, bidder should immediately forward a written request for clarification, which shall be responded within 2-3 working days from receipt of such request.

1.5 Bidders must review the Technical Specifications and ensure that the equipments/materials being offered are as per specifications prescribed in the Tender Document.

#### **A. TENDER DOCUMENTS**

**2.0** The services required and bidding procedures are prescribed in the Tender Documents.

2.1 The bidder is expected to examine all instructions, forms, terms and specifications in the Tender Documents. Failure to furnish all information required in the Tender Documents or submission of a bid not substantially responsive to the Tender Documents in every respect will be at the bidder's risk & responsibility and may result in the rejection of his bid.

#### **3.0 AMENDMENT OF TENDER DOCUMENTS:**

3.1 At any time prior to the deadline for submission of bids, JPOCL may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the Tender Documents by the issuance of Addendums.

3.2 Addendums will be sent in writing through email/Fax or by post/courier to all prospective bidders to whom Company has sent the bid documents.

#### **B. PREPARATION OF BIDS**

**4.0 LANGUAGE OF BIDS:** The bid as well as all correspondences and documents relating to the bid exchanged between the bidder and the Company shall be in English language, except that any printed literature may be in another language provided it is accompanied by an English translated version, which shall govern for the purpose of bid interpretation.

**5.0 DOCUMENTS COMPRISING THE BID:** The bid submitted by the bidder shall

comprise of the following components:

**A. TECHNICAL BID.**

(i) **Bidders General Information:** As per **PROFORMA-A** together with copies of documents defining the constitution or legal status, place of registration and principal place of business of the bidder or if a joint venture, of each party thereto constituting the bidder.

(ii) **Documents showing bidder's background/profile:**

- a. Company Brochure/ Profile
- b. Management organization Chart
- c. Customer Reference List
- d. Whether Member of any Association, please give detail
- e. QA/QC Manual
- f. Training Policy
- g. Copy of certificates like ISO Certification, API Certification, GOST Certification etc.

(iii) **Financial Capability:** Reports on the financial standing of the bidder (or of each party to a joint venture) such as profit and loss statements, balance sheets and auditor's reports for the past 3 years and the detailed copy of Contracts/Purchase Orders executed successfully in last 3 years.

(iv) **Relevant/Similar Experience/Technical Capability:** As per **PROFORMA-A** a list showing details of the experience and performance for the past 3 years of the bidder on services of similar nature and details of current work in hand. Following information/details to be furnished to demonstrate the bidders technical capabilities:

- a. The bidder as the primary entity must be financially and organizationally sound.
- b. The offered Mobile Rig, Drawworks, Mud pump, and all other components should conform to the detailed specifications in ANNEXURE – I.
- c. Previous experience of the bidder with similar projects.
- d. List of clients for whom the bidder has successfully executed similar projects.

(v) **Non-Compliance:** Statement of Non-compliance as per **PROFORMA-C**. Bidders are requested to state their non-compliance, if any as per **PROFORMA-C**.

**B. PRICE BID:**

**Price Bid:** The Price Bid must be prepared as per **PROFORMA-B** only. Price Bid in any other form, if submitted shall be liable for rejection. The Price Bid must clearly show the prices for each and every component as well as the overall Mobile Rig.

**6.0 BID PRICE:**

6.1 Unit prices must be quoted by the bidders in legible figures both in numerals and in words. Prices quoted in words shall prevail over numerals in case of discrepancy.

6.2 **Bid should separately include recommended spares for minimum five (5) years trouble free operation.**

6.3 Price quoted by the successful bidder must **remain firm during** its complete



performance of the Services and is not subject to **variation on any account**.

6.4 Prices quoted by bidder shall be CIF Poti Port, Georgia.

6.5 Prices shall be inclusive of all obligations, costs and expenses necessary for successful performance of Services.

6.6 Prices shall be inclusive of all taxes, duties and Govt. Levies etc.

6.7 Prices for Rig-Up, Test and Commissioning of the Mobile Rig **shall be optional and quoted separately**.

**7.0 CURRENCIES OF BID AND PAYMENT:** The bidders are to quote firm price. The bidder will bid in US\$ (United States Dollars) only. Payment will be made accordingly. This quoted currency will not be allowed to be changed during the tenure of the Purchase Order.

**8.0 PERIOD OF VALIDITY OF BIDS:** Bids shall remain valid for ninety (90) days from Bid Due Date & Time.

**9.0 FORMAT AND SIGNING OF BID:**

9.1 The bidder shall prepare two (2) copies of the bid clearly marking "ORIGINAL BID" and "COPY OF BID". In the event of any discrepancy between them, the original shall govern.

9.2 The original and the copy of the bid shall be typed or written in indelible inks and shall be signed by the bidder or a person or persons duly authorized to bind the bidder to the contract. All pages of the bid, except for un-amended printed literature, shall be signed by the person preparing the bid.

9.3 Bidder shall clearly indicate their legal constitution and the person signing the tender shall state his capacity and also source of his ability to bind the bidder.

9.4 The power of attorney or authorization, or any other document consisting of adequate proof of the ability of the signatory to bind the bidder, shall be annexed to the tender. JPOCL may reject outright any tender unsupported by the adequate proof of the signatory's authority.

9.5 The bid should contain no interlineations, white fluid erasures or overwriting except as necessary to correct errors made by the bidder, in which case such correction shall be signed by the person preparing the bid.

**C. SUBMISSION OF BIDS**

**10.0 SEALING AND MARKING OF BIDS:**

10.1 The tender is being processed according to a Two-bid procedure. Offers should be submitted in two parts i.e. Technical bid and Price bid each in duplicate (one Original and one Copy).

10.2 The bidder shall seal the original and copy of the bid duly marking as "ORIGINAL" and "COPY" (refer para 9.1).

10.3 The cover containing the Technical Bid (Original + Copy) should be in one sealed cover bearing the following on the right hand top corner.

- (i) Envelope No.1 Technical bid
- (ii) Tender No. JPOCL/MOBILE RIG/2010/001
- (iii) Bid Due Date \_\_\_\_\_.
- (iv) Bidder's name \_\_\_\_\_.

10.4 The cover containing the Price Bid (Original + copy) should be in a separate sealed cover bearing the following on the right hand top corner.

- (i) Envelope No.2 Price bid
- (ii) Tender No. JPOCL/MOBILE RIG/2010/001
- (iii) Bid Due Date \_\_\_\_\_.
- (iv) Bidder's name \_\_\_\_\_.

10.5 The above mentioned two separate covers containing the Technical and the Price bids should then be put together in another envelope bearing the following details on the top and the envelope should be addressed to Business Head – Oil and Gas

- (i) Tender No. JPOCL/MOBILE RIG/2010/001
- (ii) Bid Due Date \_\_\_\_\_.
- (iii) Bidder's name \_\_\_\_\_.

10.6 The offer should contain complete specifications, details of services and equipment/ accessories offered together with other relevant literature/catalogues. **The Price Bid should not be put in the envelope containing the Technical Bid.**

10.7 Timely delivery of the bids is the responsibility of the bidder. Bidders should send their bids as far as possible by Speed Post or by Courier Services. Company shall not be responsible for any postal delay/ transit loss.

**11.0 LATE BIDS:** Bids must be received by the Company at the address not later than Bid Due Date mentioned in the “Covering Letter”. Any Bid received by the Company after the deadline for submission of bids prescribed by the Company shall be rejected.

**12.0 MODIFICATION AND WITHDRAWAL OF BIDS:**

12.1 The bidder after submission of bid may modify or withdraw its bid by written notice prior to Bid Due Date and time. The bidder's modification or withdrawal notice shall be prepared sealed, marked and dispatched in accordance with the provisions of para 10.0 above.

12.2 No bid can be modified subsequent to the deadline for submission of bids.

12.3 No bid may be withdrawn in the interval between the deadline for submission of bids and the expiry of the period of bid validity specified by the bidder on the Bid Form.

**13.0 EVALUATION OF TECHNICAL BIDS:**

13.1 Company will open the Technical Bids first and evaluation of the same shall be made on the basis of experience, technical ability and specifications, quality of

equipment & personnel, safety record, past performance record of the bidder or its affiliates, work schedule and Company may adopt other suitable criteria to ascertain the capability and technical competence of each responded bidder.

13.2 To assist in the examination, evaluation and comparison of bids, the Company may at its discretion, ask the bidder for clarifications of its bid. The request for clarification and the response shall be in writing and no change in the price or substance of the bid shall be sought, offered or permitted.

#### **14.0 EVALUATION OF PRICE BIDS:**

14.1 Company will open the Price Bids of the technically qualified bidders after completion of technical evaluation.

14.2 Company will examine the Price quoted by bidders to determine whether they are complete, any computational errors have been made, the documents have been properly signed and the bids are generally in order.

14.3 **Comparison of Bids:** Company will evaluate and compare the bids as per prices quoted in the Price Bid in the PROFORMA-B.

#### **15.0 CONTACTING THE COMPANY:**

15.1 Except as otherwise provided in para 13.0 above, no bidder shall contact Company on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded except as required by Company vide para 13.2 above.

15.2 Any effort by a bidder to influence the Company in the Company's bid evaluation, bid comparison or **Purchase Order (PO)** award decisions may result in the rejection of their bid.

#### **D. AWARD OF CONTRACT**

**16.0 NOTIFICATION OF AWARD:** Company will award the Purchase Order to the successful bidder whose bid has been determined to be techno-commercially acceptable, provided further that the bidder is determined to be qualified to execute the Purchase Order satisfactorily. Prior to the expiry of the bid validity, the Company will issue a Purchase Order (PO). The successful bidder should confirm acceptance of the Letter of Intent and Purchase Order (PO) within 3 days from the date of receipt of PO.

#### **17.0 PERFORMANCE SECURITY:**

17.1 Within 15 days of receipt of Letter of Intent/Fax of Intent from Company, the successful bidder shall furnish the performance security in the form of Bank Guarantee for an amount equivalent to 10% of the total estimated contract value as per the **Proforma-E** or in any other form acceptable to the Company. The performance bank guarantee (PBG) shall be payable to Company as compensation for any loss resulting from Contractor's failure to fulfil its obligations under the Purchase Order. Validity of the PBG should be up to ninety (90) days beyond the completion period of Purchase Order.

17.2 Failure of the successful bidder to comply with the requirements of paragraph 17.1 shall constitute sufficient grounds for annulment of the award. In such an event the Company may award the contract to the next evaluated bidder



or call for new bid or negotiate with other bidders as the case may be.

**18.0 COMPANY'S RIGHT TO ACCEPT OR REJECT ANY BID:** Company reserves the right to accept or reject any or all bids and to annul the bidding process and reject all bids for any reason whatsoever, at any time prior to award of contract, without thereby incurring any liability to the affected bidder, or bidders or any obligation to inform the affected bidder of the grounds for Company's action.

**E. GENERAL NOTES FOR THE BIDDERS:**

**18.0 CONFIDENTIALITY:** Bidders are required to maintain secrecy of all information received by them during the submission of bid.

**19.0 CORRESPONDENCE:**

19.1 All correspondences from bidders shall be made only to the Business Head – Oil and Gas, who has issued this tender.

**20.0 SERVICES TO BE PERFORMED:**

20.1 The Services include the supply and delivery of the Mobile Rig as per the detailed specifications mentioned in ANNEXURE-I to Poti Port, Georgia by the bidder and may also include the Erection and Commissioning of the Mobile Rig in Georgia as per the instructions of Company.

**END OF SECTION I**



## **SECTION II** **GENERAL TERMS & CONDITIONS**

### **1.0 DEFINITIONS**

**1.1 "Company"** means "Jindal Petroleum Operating Company LLC" or JPOCL, or any affiliate as used in documents referenced herein or attached hereto.

**1.2 "Price"** as used herein shall mean the rates or prices specified in the Bid which Company shall compensate the successful bidder for the satisfactory performance of the Services.

**1.3 "Services"** means the supply and delivery of Mobile Rig as per the detailed specifications mentioned in ANNEXURE-I to Poti Port, Georgia by the bidder and may also include the Erection and Commissioning of the Mobile Rig in Georgia as per the instructions of Company.

**1.4 "Mobile Rig"** means the onshore mobile rig capable of drilling, completion and workover as per the detailed specifications specified in Annexure-I as used in documents referenced herein or attached hereto.

**1.5 "Purchase Order"** means the order that will be placed by Company on the successful bidder for performance of the Services as used in documents referenced herein or attached hereto.

### **2.0 COMPLETION SCHEDULE**

**2.1** The completion time for the performance of Services shall be sixty (60) days from the date of issue of Letter of Intent (LOI)/Fax of Intent (FOI).

**2.2 The completion time for Erection and Commissioning of the Mobile Rig shall be within (15) days from the date on which Company expresses its intention to do so to the successful bidder by e-mail or fax.**

### **3.0 INVOICING/BILLING INSTRUCTIONS**

**3.1** Successful bidder shall raise invoice/bill upon successful completion of Services and submission of all documents.

**3.2** Invoices/bills shall be raised to "JINDAL PETROLEUM OPERATING COMPANY" LLC at the following address:

"JINDAL PETROLEUM OPERATING COMPANY" LLC  
Apt. 15, 5<sup>th</sup> Floor, Bldg. No. 57,  
Iosebidze Str., Saburtalo Region/4  
Tbilisi, Georgia

Invoices/bills shall be delivered in originals at the following address:

Mr. Vipul Singh Rawat  
"JINDAL PETROLEUM OPERATING COMPANY" LLC  
IIIrd Floor, DCM Building  
Plot No. 94, Sector 32,  
Gurgaon 122001  
Haryana, INDIA  
Tel: +91-124-6689258

**3.3** All the Invoices/bills shall bear the PO number, PO title, detailed description of Services, date of PO, Block Number and bank account details for remittance of

money.

**3.4** All the Invoices shall clearly mention the Make, Model, Capacity/Rating, Year of Manufacture and residual life as inspected for each of the component as well as for the overall Mobile Rig.

**3.5** All the Invoices shall clearly mention the prices for each of the component of Mobile Rig as well as for the overall Mobile Rig.

#### **4.0 PAYMENT SCHEDULE**

**4.1** Company shall pay the successful bidder within thirty (30) days of receipt of correct & acceptable invoices and submission of all documents as specified in para 5.1 below.

**4.2** Payments made by Company shall not exclude the right of Company to dispute thereafter, any items invoiced and/or paid shall it constitute approval or acceptance of the same. However, title to all work for which payment has been made and title to all completed Services whether paid for or not, shall vest in Company, and in any case shall not be part of bidder's property or estate assignment for the benefit of creditors, or if a receiver is appointed on account of bidder's insolvency.

#### **5.0 DOCUMENT SUBMISSION**

**5.1** The following documents shall be submitted by the successful bidder to Company while claiming payment as per the Purchase Order:

- i. Invoice (1 Original + 2 Copies)
- ii. Copy of ISO & API Certification (2 copies)
- iii. Bill of Lading (2 copies)
- iv. Certificate of Origin from Chambers of Commerce
- v. Packing List
- vi. Test Certificates
- vii. Copy of Marine Insurance Policy
- viii. Fitness Certificate for the Mobile Rig by Local & Statutory authorities

#### **6.0 RESPONSIBILITY OF BIDDER**

**6.1** Bidder certifies that it is lawfully registered, domiciled, properly licensed, equipped, organized and financed to perform the Services.

**6.2** Bidder shall, at its sole cost and expense, cause such registration, domiciliation, permits and licenses to continue in full force and effect during the term of PO for successful performance of the Services.

**6.3** Successful bidder certifies that the Mobile Rig offered by the successful bidder is lawfully permissible for use and operating in Georgia or any other country.

**6.4** Successful bidder shall provide the training to at least two (2) number of Company's personnel/engineer for operating the Mobile Rig for a period of seven (7) days.

#### **7.0 WARRANTIES**

Bidder hereby assumes full and complete responsibility for the performances of Services hereunder

**7.1** Bidder warrants and guarantees that the Services shall be free of any design, manufacturing and material defects and faults and shall be in accordance with the provisions of this Tender document and shall be performed with due diligence and efficiency and in a good and workman like manner under best industry ethics.

**7.2** Services rendered by bidder shall comply with and shall be in accordance with

Good Industry Practice and with sound principles and practices employed by leading international contractors. Bidder further covenants and guarantees that Services and all work related for the performance of Services shall be performed by persons who are suitably qualified and experienced and will show first class skill and workmanship of Practice. Services shall be able to, meet and fully comply with applicable environmental and other laws, ordinances, regulations and guidelines and safety, operability and performance criteria of international standards and with application codes and well recognized professional standards. Bidder assumes responsibility for the performance of the Services in accordance with applicable codes and recognized professional standards of good engineering practice.

**7.3** Bidder covenants and guarantees that the Services shall be reliable and of high quality sufficient to enable the Project to be operated in a smooth safe and efficient manner.

**7.4** Bidder covenants and guarantees that the Services performed are complete and correct in all respects. If during the discharge, any of the information or design supplied by the bidder is found to be incomplete or incorrect by Company, it will be completed or, as the case may be, corrected by bidder without additional charge to Company.

**7.5** If any work done prove to be deficient in that they fail to meet the codes and/or standards set forth above, or any information proves to be incomplete or incorrect then bidder agrees to perform or re-perform it's work as necessary to remedy the defect without any cost to Company.

**7.6** If the Services performed or materials used by the bidder are defective or not in accordance with the Tender, or that the Services or any portion thereof are defective, or do not fulfil the requirements of Tender and as soon as reasonably practicable gives to the Tender notice in writing of the said determination, specifying particulars of the defects alleged to exist or to have occurred, then the bidder shall at its own expense and with all speed make good the defects so specified. In case bidder, shall fail to do so, Company may take, at the cost and risk of the bidder, such steps as may in all circumstances, be reasonable to make good the defects. The expenditure so incurred by Company shall be recovered from any amount due to the bidder under the Purchase Order. The decision of the Company with regard to the amount to be recovered from the bidder will be final and binding on the bidder.

**7.7** All the components of Mobile Rig as well as the overall Mobile Rig shall be under a warranty of twenty four (24) months from the date of Erection and Commissioning of the Mobile Rig.

**7.8** Bidder covenants and warranty that the offered Mobile Rig is capable of carrying out workover activities upto a depth of minimum 20,000 feet for 2-7/8" drill pipe.

## **8.0 LIQUIDATED DAMAGES**

**8.1** In case, successful bidder fails to complete the entire Services within the completion period as specified above in para 2.1, a sum equivalent to 0.5% (half percent) of the PO value for every week's delay or part thereof, subject to a maximum of 5% (five percent) of the order will be deducted from the Invoice value.

**8.2** Successful bidder agree that the figures of liquidated damages indicated herein above are genuine pre-estimate of the loss/damage which Company would have suffered on account of delay/breach on the part of the successful bidder and the said amount would be payable without any requirement of proof of the actual loss or damage caused by such delay/breach.

**8.3** All sums payable by way of liquidated damages shall be considered as reasonable compensation without reference to the actual loss or damages, which shall have been



sustained. In the event of any difference(s) between Company and successful bidder, the decision of Company shall be final and binding.

**9.0 REPEAT ORDER**

**9.1** Company have the right to place the repeat order, if required, which shall be applicable at the same Terms & Conditions of and Purchase Order within one hundred eighty (180) days from the date of Letter of Intent or Purchase Order.

**END OF SECTION-II**

## TECHNICAL SPECIFICATIONS FOR MOBILE RIG

**1.0 The Mobile Rig having nominal engine power of 540BHP at 2,100 rpm with hoisting capacity of minimum 300,000 lbs, mast height of 118 feet and depth capacity of minimum 20,000 feet as per international standard complete with following:**

### **1.1. SELF PROPELLED BACK-IN CARRIER**

#### **Material:**

One (1) carrier frame. The carrier should be self-propelled back-in type, manufactured with wide flange main beams and an all welded frame. Shall have heavy-duty front and rear bumpers equipped with heavy-duty tows welded to the carrier frame. Shall include integral stairs built into carrier frame, one (1) each side. The carrier shall include 18 inches wide driller's side and off-driller's side folding walkways, handrails with toe guards and driller's side and off-driller's side removable steel stairs to ground complete with handrails.

Shall have front mast lay down support (headache rack) with heavy-duty spreader arms mounted on carrier is designed to prevent carrier beams twisting due to mast weight by transferring the weight to the suspension.

Tire flaps shall be installed behind tires.

The highway lighting package shall have turn signal lights, clearance lights, headlights, stop/brake lights, back-up alarm, and reflectors. The lights should be fully wired to the controls and switches located in the driver's cab. All wires should be routed through cable hangers located in the carrier frame and shielded to protect them from damage.

Lighting shall conform to International Standards including Georgian Standards.

### **1.1.1 DRIVER'S CAB**

#### **Material:**

One (1) single man cab. The cab should be equipped with a steering column and steering wheel, acceleration and brake pedals, turning signal switch, adjustable bucket seat with safety belt, dome light, windows (complete with a roll-up window in the door and a sliding side window on the off driller's side), cab heater provision, and a front electric wiper. Cab should also be equipped with one (1) fire extinguisher, one (1) First Aid Kit, and flares.

The installed control panel shall consist the following:

*Gauges:* Speedometer, Tachometer, Transmission Oil Pressure, Transmission Oil Temperature, Fuel, Air Pressure (System and Brake), Engine Oil Pressure, Engine Water Temperature, and Volt.

*Controls:* Head Light, Dome Light, Dimmer Control, Fan, Wipers, Washer, Air Horn, Electric Horn, Engine (Start/Stop), Shutdown Override, Diagnostic Request, Emergency Shutdown, Differential Lockup, Park Brake, and Lever Gear Selector (Transmission).

*Indicator Lights:* High Beam, Check Transmission, Brakes, Check Engine, Shutdown Engine, Low Coolant, and Low Air (c/w audible alarm).

### 1.1.2 SIX AXLE RUNNING GEAR (12 X 4 DRIVE)

**Material:**

Three (3) front non-drive steering axles with rear wheel drive tandem axles, and one (1) non-drive pusher/tag axle.

**Features:**

Running gear suspension should be a combination of spring suspension and air-ride suspension. All driveline shafts shall use Spicer 1710 or 1810 (or equivalent).

Front steer axles with braking and hydraulic power assisted steering, rated at 22,800 lbs. per axle. The front axles shall be equipped with six (6), 445/65R22.5 or equivalent tires.

Rear drive axles shall be single-reduction tandem drive axles with braking, rated at 50,000 lbs. per tandem axle. Rear drive axles shall be equipped with eight (8) 12R22.5 or equivalent tires.

Pusher/Tag axle complete with air ride suspension, 25,000 lbs. capacity with pneumatic control valve and four (4) 12R22.5 or equivalent tires.

All axles to be equipped with air braking system.

The rear axle shall have driver-controlled differential lock (DCDL) system.

### 1.1.3 LEVELING JACKS

**Material:**

Four (4) mechanical locking hydraulic jacks. The mechanical locking hydraulic jacks should be mounted to carrier frame for leveling and support during rig operations. The jacks shall be located at the rear bumper and behind the rear steering axle.

Two (2) drop down mechanical belly jacks. The drop down mechanical belly jacks shall be mounted to the carrier frame to provide additional leveling and support. These jacks shall be located between the front and rear axles.

#### 1.1.4 FUEL SYSTEM

**Material:**

One (1) 100-gallon fuel tank mounted on rig carrier, complete with piping to rig engine.

#### 1.1.5 TOOL BOXES

**Material:**

One (1) steel tool box, mounted on the carrier deck.  
One (1) steel tool box, mounted on the underside of the carrier frame.

#### 1.1.6 WINCHES

**Material:**

- One (1) 5,000 lbs. air winch mounted on rig floor. Shall include 1/2" winch line.
- One (1) 12,000 lbs. hydraulic winch (Model PD-12C-1) mounted on carrier deck. Shall include 5/8" winch line.

#### 1.1.7 DEADLINE ANCHOR

**Material:**

One (1) Hercules deadline anchor (or equivalent), 45,000inches, for 1-1/8 in. wireline, deck mounted. Provision for weight indicator compression load cell. See Item 6.3 for load cell below.

#### 1.2.0 ENGINES

**Material:**

One (1) Caterpillar C15 ACERT (or equivalent Detroit Diesel) diesel engine, with intermittent rating of 540 BHP @ 2,100 RPM each.

The Caterpillar C15 ACERT is a six-cylinder, turbocharged, and air-to-air aftercooled engine. This fully integrated heavy-duty diesel engine with electronic controls shall have excellent fuel consumption, durability, and low emissions.

The engine shall come complete with:

- Alternator
- Rigsaver
- EPA Nonroad Emissions Certified
- Heavy Duty Air cleaner, Dual element
- Heavy Duty low profile Radiator, High ambient (55<sup>o</sup> C/131<sup>o</sup> F)

- Transmission oil cooler
- Fly wheel adapter
- Muffler with spark arrester
- Direct Drive, fan
- Water filter
- Power steering pump
- Electric starter
- Air compressor
- Instrument Panel
- Tachometer
- Control Panel

**Specifications:**

Rated Power Output

540 BHP at 2,100 RPM Each

**Shall include:**

Steel engine hood with open sides (covering radiator, engine and transmission)

**1.2.1 TRANSMISSION**

**Material:**

One (1) Allison Model 5610 Series transmission (or equivalent).

**Features:**

The five forward ranges and one reverse for off-highway applications.

The electronically controlled transmission shall have manual shift mode for hoisting. The transmission shall be equipped with converter lock-up feature for maximum efficiency operation.

**1.2.2 PTO**

**Material:**

Chelsea (or equivalent) Power Take Off.

**1.2.3 POWER TAKE OFF CASE (DRIVE LINE)**

**Material:**

One (1) Power Take Off (Drop) Box to drive rear drive axles. This unit shall use



direct power from engine/transmission to rear drive axles. Drawworks straight through drive shall allow full HP.

#### 1.2.4 RIGHT ANGLE DRIVE GEARBOX DRAWWORKS

**Material:**

Right angle drive gearbox supplies power to drawworks.

***Rotary Drive Reversing Box:***

One (1) heavy duty reversing box designed to be coupled to the right angle gear box complete with Fawick 16VC600 (or equivalent) disconnect clutch, and gear drive. Includes drive line to chain driven rotary system to rear of carrier from reversing box. (See Item 2.2 for Elevated Rotary Drive from carrier to rotary table torque arm)

#### 1.3 MAST

Mast should be fabricated under API Q1 and current ISO 9001 Quality Assurance & Controls and Monogrammed per Current API Specification 4F, Product Specification Level (PSL) 2, Structural Safety Level (SSL) E3/U2, Proudly and Exclusively at API & ISO Certified Plants.

**Material:**

One (1), 118 ft. x minimum 300,000 lbs. guyed telescoping mast with fixed base; hollow structural steel framing, designed and built in accordance with API 4F, using three dimensional non-linear dynamic finite element software. Maximum mast hook load capacity shall be minimum 300,000 lbs. on eight (8) lines. Mast shall be manufactured with all HSS construction for minimum weight and maximum stability.

The mast shall be equipped with a ladder mounted on the off-driller's side. The safety platform, handrails, and a fall arrest post are included with the crown frame assembly. The mast shall be equipped with block cradle and two (2) belly lines & two (2) load lines.

Two (2) 3-stage hydraulic cylinders (**chrome plated**) for raising the mast and shall be equipped with safety chokes to prevent freefall in the event of a complete loss of hydraulic pressure. The mast incorporates two (2) single acting, chromed, telescoping cylinders for raising the top section.

The crown platform provides safety when servicing crown sheaves, assembly shall come with:

- Three (3) 30 in. Fleet sheaves – grooved for 1 1/8 in. drill line
- One (1) 36 in. Fastline sheave – grooved for 1 1/8 in. drill line
- One (1) 30 in. Deadline sheave – grooved for 1 1/8 in. drill line



- One (1) 24 in. Sandline sheave – grooved for 9/16 in. wireline

The crown block assembly shall use all steel sheaves.

The sheaves are mounted on tapered roller bearing inserts, thus bearing failure shall not damage the sheave. The fittings shall be provided for individual greasing of bearings.

**Specifications:**

Capacity: Minimum 300,000 lbs. w/ eight (8) lines

Height: 118 ft.

Line String Up: Eight (8)

Wind Load: Per API 4F

**Shall include:**

- Manual tong counterweights (Tong wt 500 lbs.) mounted on substructure base & line sheave under racking board
- Standpipe clamps for single 4 in. 5,000 PSI (See Item 5.12 for Standpipe)
- Guylines for internal guying (for minimum 300,000lbs. mast)
- DBI Sala (or equivalent) fall arrest

**1.3.1 RACKING BOARD**

**Material:**

One (1) automatic erecting racking board for use with **18 ft.** substructure.

Adjustable fingers for 4-1/2, 3-1/2 and 2-7/8 in. drill pipe.

**Specifications:**

- Capacity for:
  - 8,000 ft of 4-1/2 in. drill pipe
- Positioned for use with Range II tubulars in doubles
- Complete with rear escape access door

### 1.3.2 MAKE-UP AND BREAK OUT ASSEMBLY

#### Features:

- Unit with two (2) 4 in. x 96 in. hydraulic cylinders, sheaves, rollers, and cables
- Make and break cylinders mounted on back of mast
- Hydraulic controls for make-up and breakout functions, mounted over driller's console with automatic centering at end of cylinder stroke

### 1.3.3 CASING STABBING BOARD

#### Material:

One (1) Deckard Model "C" (or equivalent) casing stabbing board, complete with air winch and safety belt. Adjustable stabbing board with 20' of adjustment above the rig floor in 12" increments.

### 1.4 DRAWWORKS

#### Material:

One (1) Double Drum Conventional Style Drawworks with band brakes.

#### Features:

Drums shall be dynamically balanced and brake rims shall be finished ground to ground after installation to ensure even and positive braking.

Drawworks Main Drum should be supplied with 1-1/8" Lebus grooving to provide wireline spooling.

Hoist bearings and brake mechanisms should be lubricated with a centralized alemite system. Chain lubrication shall be accomplished with an oil bath system located in fully enclosed chain guards.

The brake flanges should be removable type. Each flange shall be heat-treated and has been subjected to a Brinell hardness test to ensure long life.

The 330-degree wrap, a fully equalized adjustable brake bands are actuated by linkage, which increases the driller's mechanical advantage as the brake handle moves through its operating arc.

All drum shafts are made from High strength, heat-treated and stress relieved, chrome moly manganese steel.

All drum shaft bearings are long life, double row, and self-aligning roller bearings.

All components are independently assembled using only parts that have passed demanding quality control and inspection departments.

## Specifications:

### *Main Drum*

Drum Size:	17-7/8 in. x 35-1/2 in
Lebus Size:	1-1/8 in.
Drum Clutch:	Twin Disc PO 324 (or equivalent brand)
Brake Size:	42 in. x 12 in. brake rims c/w Brake Bands
Drawworks Speeds:	Five forward, one reverse (through engine transmission)
Input Drive Chain:	1-1/2 in. pitch, double strand (Domestic, Monogrammed per API Specification 7F)
Inner Drum Drive Chain:	1-3/8 in. pitch, double strand (Domestic, Monogrammed per API Specification 7F)
Main Drum Cooling:	Provisions for circulating water in main drum shaft
Auxiliary Brake:	3 x 24" Disc Assist

### *Sandline Drum:*

Drum Size:	13 in. x 42 in.
Drum Capacity:	12,500 ft. of 9/16 in. (See Item 3.1 for Sandline)
Wireline Size:	9/16 in.
Drum Clutch:	Twin Disc PO 218 (or equivalent brand)
Brake Size:	42 in. x 8 in. brake rims c/w Brake Bands
Sandline Drum Cooling:	Provisions for splash cooling

#### **1.4.1 ASSIST BRAKE**

##### **Material:**

One (1) Eaton Model WCBD-324 Assist Brake (or equivalent), water cooled, with piping to edge of driller's side of the carrier for external water source.

#### **1.4.2 MAIN & AUXILIARY BRAKE COOLING MANIFOLD**

##### **Material:**

One (1) water-cooling system manifold for cooling main drum band brakes and auxiliary water brake, complete with all necessary piping to edge of unit and controls. Shall include connection for outside water supply. (See Item 8.1 for Brake Water Cooling System)

### 1.4.3 SAND DRUM BRAKE COOLING

**Material:**

One (1) each, 60-gallon Brake Cooling System Water Reservoir for cooling drawworks sandline drum band brakes.

**Features:**

Tank shall be complete with the following items:

- Air Pressure System
- Water Piping System piped to sandline drum
- Control Valves near operator position
- Safety Relief and Air Shutoff Valve
- Water Drain Valve
- Water tank for brake cooling, 60 gallon

### 1.4.4 CONTROL PANEL

**Material:**

One (1) control panel for **18 ft.** substructure floor height.

**Controls**

- Hydraulic pump (on/off) (air)
- Air Shift Gear selector, transmission
- Emergency stop (air)
- Engine stop (air)
- Fast idle (air)
- Horn (air)
- Two (2) Winches
  - One (1) 5,000 lb (air)
  - One (1) 12,000 lb (air/hyd))
- Slips (in/out) (air)
- Slips air regulator (air)
- Hoist (up/down) (air)
- Assist brake (air)
- Rotary table (air)
- One (1) remote pump control (clutch & throttle) (air) and provision for 2nd mud pump control

**Gauges**

- Main air pressure
- Hydraulic pressure
- Make up tong cylinder pressure
- Break-out tong cylinder pressure
- Slips air pressure
- Assist Brake pressure

**NOTE: ALL GAUGES IN IMPERIAL UNITS.**

### 1.5 CROWN SAVER

**Material:**

One (1) Automatic Crown Saver safety shutoff device to limit block travel, installed on Drawworks, automatically shall disengage clutch and set main drum brake when block comes too close to crown block (or required travel is reached).

## 1.6 AIR SYSTEMS

### Material:

One (1) rig air system. Air supply for normal rig operation, equipment shall consist of:

- Engine mounted air compressor
- Air receiver system
- Air dryer
- Pneumatic plumbing, (valves, drains, lubricators, filters and gauges).

## 1.7 HYDRAULIC SYSTEM

### Material:

One (1) rig hydraulic system. Hydraulic system supplies power for carrier operations:

- Hydraulic winch
- Power tongs circuit
- Mast raising cylinders
- Mast Telescoping cylinders
- Carrier Leveling cylinders
- Make and Brake cylinders
- Substructure raising cylinders

### Equipment shall consist of:

- One (1), 340 gal. hydraulic tank
- Hydraulic pump, rated at a capacity of 50 gpm each
- Hydraulic return filter, filler/breather, all related valves, pressure gauge, and hydraulic control valves
- Tong Pressure Control

## 1.8 DRILL LINE SPOOL RACK

### Material:

One (1) drill line spool rack for 2,500 ft of 1-1/8 in. drill line (mechanical) mounted on rig carrier with steel storage spool. See Item 3.0 for Drill Line.

## 1.9 ELECTRICAL RIG-UP (CARRIER & MAST ONLY)

### Material:

Equipment selection and classification of areas shall be in accordance with current API Standard International Electrical Codes.

**Electrical shall include:**

**Material:**

The distribution panel shall include breakers for mast lighting, utility outlets, engine enclosure lighting, connection to a 30A 4P 4W receptacle and some spare breakers.

- Where practical, the lighting wiring will be in rigid conduit with flexible terminations in liquid tight flex or rough service cord. The connection of mast lights will be with RL 80 cord connectors.
- Distribution panel including breakers for mast lighting, utility outlets, engine enclosure lighting (if required), connection to 30A 4P 4W receptacle, and some spare breakers
- Incandescent lights – engine hood
- Ten (10) 4 ft and one (1) 2 ft (near crown) Class I, Div II fluorescent mast lights
- One (1) Red crown light

**1.10 ASSEMBLY AND RIG-UP (CARRIER)**

**Material:**

Labor and supplies to assemble, paint, and install all components onto carrier.

**2.0 SUBSTRUCTURE (HYDRAULIC TELESCOPING LIFT)**

**Material:**

One (1) **18 ft.** ft. high substructure (floor height).

**Features:**

Skid mounted hydraulically raised telescoping substructure. Substructure will be raised and lowered using hydraulic cylinders. Complete with Two (2) sets of stairs to carrier. (ODS) stair to be from the working floor to the ground. DS from the working floor to the carrier, One (1) layer – 4 in. timbers under setback, mouse-hole, rat-hole, tong backup posts, Kelly pull back post, handrails, and rotary beams for rotary table. Shall includes V-door to catwalk with stair and handrails to ground (catwalk furnished in item 8.2). Base of substructure to be plated on top and seal welded on bottom. Plugged drains to be installed for each compartment. Includes mast load beam (T-sill) with pin connections to substructure and mud boat.

**Specifications:****Dimensions:**

Floor Height: 18 ft.  
Width (Working Floor): 19ft. 6in.  
Length (Working Floor): 12 ft. & 2 ft. folding porch  
Width (Substructure Base): 36 ft.  
Clearance under Rotary Beams: 14 ft. 8 in.  
Collapsed Height: 13 ft.  
Setback Capacity: 200,000 lbs.  
Rotary Capacity: Minimum 300,000 lbs.  
Rotary Table Opening: 17-1/2 in.  
Rotary table center: 44 in.

**NOTE: SHALL HAVE PROVISION FOR SUBSTRUCTURE BOGIE AND GOOSENECK KIT THAT CAN BE ADDED**

**2.1 B.O.P. HANDLING SYSTEM****Material:**

One (1) 20 ton BOP handling system.

**Features:**

- Two (2) 10 ton manual (gear driven) trolley's and two (2) 10 ton manual chain hoists
- The unit is operated on a rail and track system
- The unit provides the ability to move the BOP stack to and from well center

**2.2 CHAIN DRIVEN ROTARY****Material:**

- 2-piece rotary chain case with adapters for 17-1/2 in. rotary table
- Sprockets and chains

**2.3 MUD BOAT/RIG RAMP****Material:**

One (1) Mudboat. This unit shall include steel checker plated tire guide rails and heavy duty lugs for pinning to the load beam. Ramp complete with all pins, turnbuckles and lugs to pin to load beam.

## 2.4 LOAD BEAM

### **Material:**

One load beam to match the mast loading requirements. Load beam to be plated on bottom. Load beam shall come complete with all pins, turnbuckles and lugs to pin to substructure.

## 2.6 ANTISLIP MATTING (ROTARY TABLE)

### **Material:**

One (1) Anti-slip safety matting around rotary table recessed to mount flush with top of rotary.

## 3.0 DRILLING LINE

### **Material:**

One (1) each 1-1/8 inch OD, 6 x 19, RR, EIPS, IWRC, 2,500 foot long drilling line.

## 3.1 SAND LINE

### **Material:**

12,500' of 9/16" sandline

## 3.2 SWIVEL

### **Material:**

One (1) 150 Ton Swivel, complete with:

150 Ton Rating

Standard Bail

Steel sub with 6-5/8 inch API regular LH pin down

Washpipe packing assembly

Gooseneck with tapped and plugged hole in top for use with measuring line 4

inch API Rotary hose connection

### 3.3 TRAVELLING BLOCK, C/W HOOK

**Material:**

One (1) each, minimum 150 Ton, Travelling Block and Hook, with sheaves grooved for 1-1/8 inch. Complete with four (4) each, 30 inch sheaves and rated for 150 tons. Designed to API.

### 3.4 WELDLESS LINKS

**Material:**

One (1) set, 150 Ton 1-3/4 inch x 96 inch API Elevator Links.

### 3.5 ROTARY TABLE

**Material:**

One (1) 17 1/2" Rotary Table (Per API).

**Features:**

Rectangular Housing and Cover  
Unitized Gear Table Assembly  
Pinion Shaft Assembly  
Table Locks  
Oil Lubricated Pinion, Gear, and Bearings  
Effective Mud and Oil Sealing

**Specifications:**

Max. Table Opening: 17-1/2 inches  
Static Load Capacity: 300 tons  
Centerline Spacing: 44 inches

### 3.6 PIN DRIVE MASTER BUSHING ASSEMBLY

**Material:**

One (1) each SMB (or equivalent) Split Pin Drive Master Bushing Assembly complete with, Bit Breaker Plate and Sling for 17-1/2" Rotary Table.

### 4.0 MUD PUMP (OPTIONAL)

**Material:**

One (1) 800 HP triplex mud pump, unitized with single engine independent cross-



mounted pump drive for rear mounting Caterpillar C27 engine (or equivalent) and PTO. Each pump comes with (1) set of 6-1/2" pistons and liners, and rod wash system. Should be assembled with pump and engine as one unit for skid mounting. Shall include:

**Specifications:**

Liner & piston size range: 4 in – 6 1/2 in  
Rated discharge pressure: 5,000 PSI  
Displacements: 220 -582 GPM  
Max. Speed: 150 RPM Max  
Continuous rated horsepower: 800 BHP  
Stroke: 9 in

**Accessories:**

- Discharge pulsation dampener, 20 gallon capacity, and 5,000 PSI working pressure with 4 in 1500 lbs ANSI RF bottom connection.
- Charging hose assembly
- Discharge strainer
- Flange and fittings and piping for strainer including mounting installing pulsation dampener, relief valve and pressure gauge.
- Charging system: Centrifugal pump driven by AC motor (See Item 0). Shall include suction strainer, and necessary piping to manifold suction of 800 HP pump.
- Relief valve, 3 in, 5,000 PSI reset type.
- Pressure gauge, 2 in. standard 0/6000 PSI.
- Jib crane with trolley, installed, sized to handle fluid end parts. (not for use in lifting fluid end assembly)
- Chain hoist, 1/2 ton capacity
- Set of special tools

**POWER UNIT:**

One (1) Caterpillar Model C27 ACERT (or equivalent) Diesel Engine rated 875 BHP @ 1800 RPM Industrial B rating for mud pump service (or equivalent), complete with the following standard equipment and accessories:

**Engine Features:**

The Caterpillar C27 ACERT (or equivalent) Diesel Engine shall be a twelve (12) cylinder, turbocharged, and air-to-air aftercooled engine. This fully integrated heavy-duty diesel engine with electronic controls shall have excellent fuel consumption, durability, and low emissions. The engine shall come complete with:

- Alternator
- Rigsaver
- EPA Nonroad Emissions Certified
- Heavy Duty Air cleaner, dual element
- Radiator, High Ambient (55°C / 131°F)

- F/W adapter for clutch arrangement
- Muffler w/ spark arrestor
- Water filter
- Air starting with silencer
- Control Panel
- Instrument Panel
- Tachometer

### **BELT DRIVE ASSEMBLY**

One (1) single engine independent cross-mounted pump drive for rear mounting Caterpillar C27 ACERT Engine (or equivalent) coupled to a PTO with pneumatic clutch and drive material and use with 800 HP triplex pump (pump cross-mounted with engine). Shall include four (4) runner oilfield type master skid 12 ft. wide, with safety tread floor plate, load rolls at each end, with sheaves, belts and guard with drive and coupling to engine. Engine radiator and clutch should be mounted on integral support skid. Unit shall be assembled with pump and engine as one unit. Shall include mud boated master skid. With provisions for mounting supercharging pump and all necessary valves and fittings. Shall include fuel lines to engine. Shall include steel fabricated canopy with rain gutters and open sides.

### **REMOTE PUMP CONTROL**

One (1) remote air control with hose to driller's panel. Includes throttle, clutch control, and emergency shutdown.

Shall include provision for 2nd remote air control.

#### **4.1 SUPERCHARGING PUMP (OPTIONAL)**

##### **Material:**

One (1) 5x6 supercharging pump driven by AC motor.

#### **4.2 PUMP DISCHARGE LINE (OPTIONAL)**

##### **Material:**

Mud pump discharge line shall be made of XXS pipe for one (1) pump, to have 3 inch ID (Nominal 4"). Two (2) vibrator hoses shall be equipped with snubbing lines. (See Item 5.16)

#### **4.3 ELECTRICAL (OPTIONAL)**

##### **Material:**

One (1) Lot Lighting, Receptacles and Electrical Wiring. Shall include Class I, Div II fluorescent fixtures mounted on the skid roof. The fixtures shall be direct



wired (no plug in). Wiring from the light fixtures shall be brought to a junction box mounted on the edge of the skid near roof. AC motors shall include wiring from the liner wash pump motor to the edge of the skid.

## 5.0 TWO (2) TANK 143M<sup>3</sup> (900 BBLs ACTIVE) MUD SYSTEM (OPTIONAL)

### Material:

One (1) 143 M<sup>3</sup> (900 BBLs Active) Mud tank system consisting of the following tanks:

Shaker Tank: 71.5M<sup>3</sup> (450 BBL) Active Capacity Suction Tank: 71.5M<sup>3</sup> (450 BBL) Active Capacity Reserve Tank: 71.5M<sup>3</sup> (450 BBL) Reserve Capacity Trip Tank: 12.7M<sup>3</sup> (80 BBL) Active Capacity Each 450 BBL Tank assembly will consist of a 48 foot length oilfield hitch type skid with 450 BBL Tank, measuring 10 feet wide x 35 feet long x 8.32 feet high. A porch area measuring 10 foot x 10 foot, with 18 inch hitch clearance, will provide the locations for mounting pumps, valves and manifolds.

All Tanks shall be provided with safety railings, deck grating and crossover bridges between tanks.

Three sets of stairs shall be provided with the mud system.

Hatches are provided at each tank compartment for maintenance access.

Watering valves, plumbed through the rim line, should be installed at each compartment.

All circulation piping shall be provided as required by process equipment placement.

Dump Valves (8 inches) shall be supplied at each tank compartment.

### 5.0.1 SHAKER TANK SKID (OPTIONAL)

#### Material:

One (1) Shaker tank skid, Capacity 71.5 M<sup>3</sup> (450 BBL), to accommodate the following equipment: One (1) dual shale shaker – with 3 Screen Panels (2 shakers on common skid) One (1) 1 cone desander One (1) 12 cone desilter Two (2) agitator 15/10HP 60/50Hz Two (2) bottom mud guns

Tank compartments (4) shall be as follows:

1. Sand trap (Settling Trap) with sand dump valve
2. Shaker Compartment (Optional Vacuum Degasser Compartment)

- 3. Desander Compartment
- 4. Desilter Compartment

Walkways around shaker area for access and maintenance Two (2) Mud slides one (1) at each shaker deck Flow line connections at possum belly Valving and manifolding as required for equipment Pump Porch Deck covered with checkered Plate for mounting two (2) centrifugal pumps Lighting, pump porch, (1) 60 in, 120 watt dual fluorescent

### 5.0.2 SUCTION TANK SKID (OPTIONAL)

#### Material:

One (1) suction tank skid assembly with  $71.5 \text{ M}^3$  (450 BBL) capacity, to accommodate the following equipment:  
Tank compartments (4) shall be as follows:  
Suction Compartment 1 (145 BBL)  
Suction Compartment 2 (145 BBL)  
Pill Compartment (80 BBL)  
Provisional Centrifuge Compartment (80 BBL) with bottom equalizer, for future use of Centrifuge  
Two (2) agitators-15/10HP 60/50Hz  
Two (2) 7.5/5 HP 60/50Hz agitators – Pill Compartment and Provisional Centrifuge Compartment  
Four (4) Bottom mud guns  
Suction valves for triplex pre-charge pump  
Valving and manifolding as required for equipment

### 5.0.3 TRIP TANK (OPTIONAL)

#### Material:

One (1) 100 BBL barrel capacity Trip Tank.

$15.9 \text{ M}^3$  (100BBL) trip tank consists of the following:  
One (1) compartment  
Access hatch  
Access ladder rung inside tank  
Manifolded suction line to pump  
Mounting for one (1) 3 x 2 centrifugal pump  
Crossover piping for constant/bypass fills level

Atmospheric degasser (Poor Boy) (See Item 5.9) mounted on aft deck of Trip Tank skid (lay Back Style for Transport). Piping stubs with flanges routed to deck level for connection to customer's choke manifold and flare line.

#### 5.0.4 MUD RESERVE TANK SKID ASSEMBLY (OPTIONAL)

**Material:**

One (1) Mud Reserve tank skid with a 71.5 M<sup>3</sup> (450 BBL) capacity to accommodate the following equipment:

Two (2) compartments: Two (2) agitators 15/10HP 60/50Hz Two (2) Bottom mud guns Piping spools and manifolding for circulation and transfer and crossover mixing Valving and manifolding as required for equipment Pump Porch Deck covered with checkered Plate for one (1) 6 x 5 transfer pump Lighting, pump porch, (1) 60 inch 120 watt dual fluorescent.

#### 5.0.5 MIXING SKID (OPTIONAL)

**Material:**

One (1) mixing skid with provisions for (2) Mixing Hoppers mounted on a 10 foot x 10 foot oilfield hitch type skid. Manifolding to pumps at the Suction tank will provide flow for mixing.

#### 5.1 MUD MIXING HOPPERS (OPTIONAL)

**Material:**

Two (2) High Shear 6 in Mud Mixing hoppers located on mud Mixing Skid with selection from mud hopper to mud mixing pumps #1 or #2. Piping to two (2) Mud Mixing pumps on mixing skid.

#### 5.2 CENTRIFUGAL PUMPS (MUD MIX & TRANSFER) (OPTIONAL)

**Material:**

Two (2) 8x6, 75/60HP, 60/50HZ, Forum 2.5 Series belt drive centrifugal pumps for mud mixing and gun line (or equivalent).

Two (2) 6x5, 50/40HP, 60/50HZ, Forum 2.5 Series belt drive centrifugal pumps for Desander and Desilter (or equivalent)..

One (1) 6x5, 50/40HP, 60/50HZ, Forum 2.5 Series belt drive centrifugal pump for circulation and/or transfer at Mud Reserve Tank (or equivalent)..

**Shall feature:**

Forum 2.5 Series with impeller and tungsten carbide mechanical seal for no leaking at stuffing box (or equivalent). Mounted on an oilfield base with belt drive and explosion proof electric motor, 3 phase, 60/50 cycle. Starter to be supplied.

Remote emergency stop switches on all centrifugal pumps.

### 5.3 CENTRIFUGAL PUMP (TRIP TANK) (OPTIONAL)

**Material:**

One (1) 3x2, 25/20HP, 60/50HZ, Forum 2.5 Series horizontal shaft drive centrifugal pump for trip tank (or equivalent).

**Shall feature:**

Forum 2.5 Series with an impeller and tungsten carbide mechanical seal for no leakage at stuffing box mounted on an oilfield base with horizontal shaft drive and explosion proof electric motor, 3 phase, 60/50 cycle (or equivalent).

### 5.4 SHALE SHAKER (OPTIONAL)

**Material:**

One (1) Swaco Meerkat (or equivalent) Dual 3-panel shaker (Two (2) 3-panel shakers on a common skid.) Each with two (2) vibrator motors, 3ph, 60/50Hz, Class 1 Div I & II, exp.

### 5.5 DESANDER HYDROCYCLONE (OPTIONAL)

**Material:**

One (1) Swaco (or equivalent) Desander Hydrocyclone with 1-12" cone, rated at 500 GPM.

### 5.6 DESILTER (OPTIONAL)

**Material:**

One (1) Swaco (or equivalent) 6T4 rated at 900 GPM desilter with 12-4 in. hydrocyclones and solids discharge trough mounted on common oilfield skid.

### 5.7 MUD AGITATORS (OPTIONAL)

**Material:**

Eight (8) mud agitators (6 – 15/10HP and 2 – 7.5/5 HP) each with 3 ph, 60/50Hz, exp. motors and gearbox.

## 5.8 POORBOY DEGASSER (OPTIONAL)

### Material:

One (1) Poor Boy Mud Gas Separator (48" dia) with skid and laydown. Inlet is 8" diameter and the mud outlet is 8" and gas vent line is 6". The clean out hatch is 20" diameter. Through capacity of this mud gas separator is 1200 GPM mud and 1700 cfm gas.

## 5.9 VACUUM DEGASSER (OPTIONAL)

### Material:

One (1) Swaco (or equivalent) Vacuum Degasser 500 GPM complete and mounted on oilfield type skid with 7.5/5 HP, 3 ph, 60/50Hz explosion proof electric motor and starter.

### 5.9.1 CENTRIFUGAL PUMP (VACUUM DEGASSER) (OPTIONAL)

#### Material:

One (1) 6x5, 50/40HP, 60/50HZ, Forum 2.5 Series belt drive centrifugal pump for Degasser.

#### Features:

Forum 2.5 Series (or equivalent) with impeller and tungsten carbide mechanical seal for no leaking at stuffing box. Mounted on an oilfield base with belt drive and explosion proof electric motor, 3 phase, 60/50 cycle. Starter to be supplied.

Remote emergency stop switch.

## 5.10 BELL NIPPLE (OPTIONAL)

### Material:

One (1) Bell Nipple, c/w 8" flanged outlet, and sealing system.

## 5.11 FLOWLINE (OPTIONAL)

### Material:

One (1) 8" Flowline, c/w flanged ends, and discharge for weir.

#### **5.12 STANDPIPE (SINGLE) & MANIFOLD 4" 5,000 WP (OPTIONAL)**

**Material:**

One (1) 4 in. x 5,000 PSI standpipe with gooseneck and with hammer union halves each end.

One (1) 5,000 PSI standpipe manifold with two (2) 4" mud gate valves, two (2) 2" mud gate valves, provision for one (1) pressure transducer and provision for one (1) pressure gauge. One plugged outlet for cementing. Hammer union half connections.

#### **5.13 ROTARY HOSE (OPTIONAL)**

**Material:**

One (1) rotary hose, 3-1/2 in ID 5,000 PSI WP, 10,000 PSI TP, complete with 4" API male ends and hammer union halves. Safety lines included.

#### **5.14 MUD PUMP DISCHARGE LINE & VIBRATOR HOSES (OPTIONAL)**

**Material:**

Ground Piping shall be a single 4" Mud Line from Mud Pump Manifold Discharge Vibrator Hose to bottom edge of the substructure. Shall consist of 4" mud line along mud boat and additional spools or vibrator hoses if required. Substructure 4" vibrator hose shall connect ground piping and standpipe manifold inlet piping below floor.

4" pipe (nominal) XXH with 4" Fig 1002 XXH BW hammer union connections

HP Mud Hoses (length as required) 3.5" ID 5,000 WP with 4" figure 1002 Hammer ½ Unions each end (M x F) with safety lines each end.

All materials to be suitable for 5,000 psi working pressure and 7,500 psi test pressure.

#### **MUD PUMP RELIEF PIPING ASSEMBLY (OPTIONAL)**

Shall include:

- 3 in 5M relief piping assembly with 2 in 5M bleed line to mud tank.

#### **5.15 SUCTION SYSTEM (OPTIONAL)**

**Material:**

8" LP Connections and LP piping from Suction Compartment and Pill Compartment to Triplex Pump's Supercharge Pump Suction Line.

## 6.0 DRILLERS CONSOLE

### Material:

One (1) 2 bay Drillers console to house the following:

Weight indicator (Model 40)

Tong line pull gauge

Mud system pressure gauge

Rotary torque meter

One (1) SPM meter (provision for mounting a 2<sup>nd</sup> SPM meter at a later date)

RPM meter

Down-time selector valve

## 6.1 DEADLINE ANCHOR

### Material:

Deadline anchor (shall be included with Rig – see Item 1.1.7)

## 6.2 TONG TORQUE INDICATOR

### Material:

One (1) Tong torque indicator rated at 0-20,000 lbs.

## 6.3 WEIGHT INDICATOR

### Material:

One (1) Model 40 weight indicator, panel mount, complete and shall include One (1) Weight Indicator

•Dial Set, English/Metric

One (1) Comp Load Cell

One (1) Hose, 50'

Two (2) set Disconnects

## 6.4 ROTARY TORQUE ASSEMBLY

### Material:

One (1) Rotary Torque Assembly.

## 6.5 RPM METER

### Material:

One (1) RPM meter, indicates rotary RPM.

## 6.6 SPM METER

### Material:

One (1) SPM meter, indicates pump strokes per minute.

## 6.7 MUD SYSTEM PRESSURE GAUGE (OPTIONAL)

### Material:

One (1) Pressure System, 5K, panel mount (measures standpipe manifold pressure)  
-Indicator  
-Hose, 50'  
-Sending Unit  
-Disconnect, Set, Hi Pressure

## 6.8 DRILLING RECORDER

### Material:

One (1) Drilling recorder AOI (or equivalent) 7 pen to record the following parameters:  
Hook load (sensors weight)  
ROP (24 hr. Drum rotation)  
Rotary torque  
Pump pressure  
Rotary RPM  
SPM  
Recorder to include Hook up Kits

## 6.9 TON MILE / KM INDICATOR (OPTIONAL)

### Material:

One (1) Ton mile / KM indicator. Designed for installation in Class I, Div II area  
System components include:

- Ton / KM display
- Weight indicator transducer
- Distance encoder assembly
- Power conditioning assembly
- Cables
- Quick disconnects

## 6.10 MUD PRESSURE GAUGE (OPTIONAL)

### Material:

One (1) mud pressure gauge, 0-5,000 psi for mounting on standpipe manifold.

## 7.0 AC POWER GENERATORS (OPTIONAL)

### Material:

Two (2) Caterpillar model C15 ACERT (or equivalent) packaged generator sets on three point skid rated for 456/365 kVA, 365/292 eKW, 480/400 V, 0.8PF, 3-phase, 60/50 Hertz prime power service. Complete with standard controls, protection and instrumentation, cooling system, exhaust system, lubrication system and electrical start. Shall include high ambient radiator (55°C). Shall utilize synchronizer.

**Note:** *Generator sets to be installed in generator/power control house.*

## 7.1 GENERATOR/POWER CONTROL HOUSE (TWO GENERATORS) (OPTIONAL)

### Material:

One (1) Generator Building for two (2) generators and MCC with a four (4)-runner heavy-duty oilfield skid approximately 40 ft long with fixed load rolls and crane pick-up points. Roof structure shall be flat with perimeter channels for water draining.

### Shall include:

- Two (2) Main Doors (Lockable) for access to MCC Room (one on each side).
- Two (2) double equipment doors providing easy access for moving the generators, and accessories in and out of the building when required.
- Two (2) Manual trolley hoists (one (1) over each generator set) for parts removal on generator set when required
- Checker plate flooring with central drain and flush line and valve in the skid.
- Parts storage shelf (steel)
- Oil drum storage for generators
- Temperature controlled shutters in each end of the building
- Steel work bench and lockable steel cupboards for storage of sensitive instruments.
- Interior lighting w/ plugs and convenience outlets.
- MCC is Air Conditioned
- Access windows are provided in the MCC to allow viewing of the two generator areas

## 7.2 RIG LIGHTING AND WIRING PACKAGE (OPTIONAL)

### **Material:**

The following system has been planned for use on a mobile mechanical land rig having 118 ft mast, 18 ft substructure, two generators, one mud pump, three mud tanks and one trip tank.

### **AC Motor and Generator Wiring:**

Shall include all necessary wiring and electrical rig-up from AC generators to MCC in Generator/Power Control House (see Item 7.2). Shall include all electrical cabling and hangers required in Power Control House to wire to main power distribution panel and AC Motor Control Panel. Panel shall include motor starters, distribution circuit breakers, and receptacle panel with matching plugs and receptacles for AC motors provided with the rig package. Shall include remote motor starters and wiring to disconnect panels and lights at equipment locations shall be provided with the Mobile Rig. Some additional spare starters and circuit breakers shall be provided for later addition of equipment, but not to exceed capacity of the circuit panels.

### **Electrical Lighting and Wiring:**

Lighting shall include fluorescent, flood and crown lights for mast, carrier substructure, area lighting and equipment lighting. Electrical lighting and wiring as follows:

- Mast, racking board & crown lighting
- Rig floor/drawworks carrier lighting
- Substructure lighting
- Pipe rack/area lighting
- Mud tanks lighting
- Mud hopper lighting
- Mud pump lighting
- Water/fuel pumps lighting
- Lighting control panel
- Generator/Power Control House lighting
- Doghouse lighting
- Universal Skid lighting

Note: All lighting to be Class I, Div II rated unless specified otherwise in this document. BOP area lights to be explosion Proof

## 8.0 DOGHOUSE

### Material:

One (1) doghouse with approximate dimensions of 10 ft. L x 8 ft. W x 8 ft. H mounted on three (3) runner oilfield hitch skid 15 ft. long x 12 in. deep with 3 ft. porch on V-door end.

The doghouse shall be complete with:

- Two doors for easy access and exit
- Provision to mount drilling recorder (see Items 6.8)
- Knowledge box and bench
- Four (4) lockers
- Provision to mount customer's BOP remote panel
- Air conditioning/heating unit for doghouse
- Doghouse windows providing view to all four sides of the doghouse inclusive of the rig floor, carrier, and pipe handling areas. All windows will have protective guards to protect from vandalism.
- Fluorescent lighting w/ convenience outlets.
- Doghouse to be crane raised.

**Note: Driller's console will be mounted outside on the drill floor**

## 8.1 BRAKE WATER COOLING SYSTEM

### Material:

One (1) skid mounted, closed loop, brake water cooling system used for cooling main drum brakes and assist brake. Shall include:

- Water tank
- Heat exchanger (radiator)
- Two (2) 3 x 2 centrifugal pump with 25/20 HP, 60/50 Hz motor
- Water pump suction with gate valve
- Discharge valving 2in ball valves and direct return to tank)
- Oilfield hitch skid

## 8.2 CATWALK

### Material:

One (1) Catwalk Assembly, 5' (W) x 42" (H) x 60' (L) on skid with ½ in. deck plate and stair at the end. Catwalk to be in a two-piece configuration providing an overall length of 60'.

## 8.3 DIESEL TANK

### Material:

One (1) 300 BBL cylindrical diesel fuel tank, including:

- One (1) 34 ft oilfield hitch skid
- One (1) Cylindrical Fuel Tank mounted on tank saddles
- Multistage fuel filtration and water separator
- Two (2) 5 HP gear pumps with 38 GPM per pump flow and adjustable pressure regulator to 30 psi
- Manifolding and valves for use as pump out from fuel supply truck.
- Manway hatch for servicing.

## **9.0 ELECTRIC AIR COMPRESSORS**

### **Material:**

Two (2) Sullair (or equivalent) rotary screw air compressors, capacity 125 PSIG discharge complete with 25 HP, 3 PH, 60/50 HZ motor and dual control panel with full voltage starter. Shall include oversized motor and oversized oil/after cooler.

## **9.1 AIR DRYER**

### **Material:**

Two (2) cycling dryers

## **9.2 AIR RECEIVERS**

### **Material:**

Two (2) 120 gallon, vertical air tanks with safety relief valve, pressure gauge, and electronic drain valve.

## **9.3 UNIVERSAL SKID ASSEMBLY**

### **Material:**

One (1) universal skid assembly complete with roof and open sides, and hitch skid ends. Skid assembly shall be designed to mount two (2) air compressors, air dryers and two (2) air receiver tanks.

## **10.0 PAINT AND GENERAL COLOR SCHEME (OPTIONAL)**

### **Material:**

All components shall receive two (2) coat paint system which shall be comprised of sandblasting, priming and enamel coating. General color scheme shall be as follows:

<b>COMPONENT</b>	<b>COLOR</b>
Crown Block	SAFETY RED
Top & Lower sections of Mast	WHITE
Monkey board (white with yellow handrails)	ENDURA 125 WHITE & ENDURA EDDE YELLOW
Dog house	GREY (exterior) & WHITE (interior)
Drawworks and Rig Carrier	BLUE
Substructure/V-door Ramp/Catwalk	GREY
Mud tanks including grating	GREY
Mud processing equipment	OEM Colors
Mud pumps	GREY
Air Tanks	WHITE
High Pressure mud line	SAFETY RED
Generator building	GREY (exterior) & WHITE (interior)
Travelling Block/Hook and Swivel	OEM Colors
Engines	OEM Colors
Diesel Tank (with 6" wide red horizontal band)	WHITE & SAFETY RED
Stairs and hand rails	GREY (stairs) & YELLOW (handrails)
Rig Floor Equipment	OEM Colors

Note: Customer logo/decals shall be included.

## **11.0 RIG-UP (ERECTION), TEST AND COMMISSIONING (OPTIONAL)**

### **Material:**

Rig-up to consist of the following:

- Assemble structure including mud boat, carrier ramp, and BOP handling system.

- Install and rig-up make-up and break-out assembly, swivel, block/hook, and rotary table.
- String up travelling block
- Raise and lower mast and substructure.
- Set and install Doghouse, Brake Water Tank, Catwalk and V-Door, BOP handling system, etc.
- Rig-up and set the triplex mud pump and mud system and install related equipment including, remote pump controls, pre-charge pump, and hoses including all hard piping.
- Install mud cleaning equipment and transfer pumps.
- Install the standpipe and rig floor manifolding and Bell Nipple.
- Provide and install flow lines, and necessary ground trays
- Rig-up and install the complete electrical system including generators and the MCC.
- Set and install the fuel tank systems including all pumps.
- Provide fuel and lube products for testing.
- Function test of all major components and circulate mud system.
- Rig-down and load out.

Successful bidder's mechanical, electrical and operating personnel shall be available to supervise the commissioning of the rig at the buyer's designated facility for an agreed period of time.

## 12.0 BLOW OUT PREVENTERS

- Double RAM hydraulic BOP - 7 1/16" X 5000 psi flanged bottom connection & 7 1/16" x 5M studded top connection dressed with 2 7/8", 2 3/8" & blind rams
- Xover flange double studded: 7 1/16" x 5M - 7 1/16"X 10M

## 13.0 BOP CONTROL UNITS

- As per API 16 D
- 20 gallon BOP control unit with remote panel & accessories
- Accumulator: bladder type  
Control unit shall be complete with electrical & air operated pressurizing system.

## 14.0 PARTS BOOKS AND OPERATIONS MANUALS

### Material:

One (1) lot Parts Books and Operations Manuals for all major equipments offered shall be in English language only. Two (2) sets of hard copies and one (1) set in soft copy (where available).

**NOTE: The Mobile Rig shall be under a warranty of 24 months from the date of Erection and Commissioning of the Mobile Rig.**



**PROFORMA-A**

**BIDDER'S GENERAL INFORMATION**

**TENDER No. JPOCL/MOBILE RIG/2010/001  
FOR ONSHORE MOBILE RIG**

Bidder shall furnish their company particulars as under.

Company Name:

Number of years in the Business :

Registered Address :

Work Address

If different from above :

---

Telephone Number :

E-mail address & Web site :

Fax Number :

Service : Non Office Hours Communication

Parent Company (if any) :

Company Officials (include management organisational chart)

(a) Chief Executive Officer :

Company Registration Number (if any)

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Details of Joint Ventures (if any)

---

Bankers detail

Auditors

**SUMMARY OF PREVIOUS EXPERIENCE:** A statement in the following format showing list of Contracts successfully executed for similar Services by the bidder during the last five (3) years:

**LIST OF SUPPLY OF MOBILE RIG PROJECTS:**

Name of Customer	Specifications of Rig	Price	Remarks (Please give a brief writeup about the project)

Please also enclose a copy of latest financial statements including Balance Sheet, Profit and Loss Account & Auditor's report for last three (3) years.

**Authorized Person's Signature:** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Designation:** \_\_\_\_\_

**Seal of the bidder:**

**PRICE BID FORMAT**

S.No.	Unit	Make	Model	Year of Manufacture	Unit Price (in USD)	Qty	Total (in USD)
1.	Work Over Rig						
<b>Optional</b>							
1.	Mud Pump						
2.	Supercharging Pump						
3.	Pump Discharge Line						
4.	Electrical						
5.	Two (2) Tank 143m <sup>3</sup> (900 bbls Active) Mud System						
6.	Shaker Tank Skid						
7.	Suction Tank Skid						
8.	Trip Tank						
9.	Mud Reserve Tank Skid Assembly						
10.	Mixing Skid						
11.	Mud Mixing Hoppers						
12.	Centrifugal Pumps (Mud Mix & Transfer)						
13.	Centrifugal Pump (Trip Tank)						
14.	Shale Shaker						
15.	Desander Hydrocyclone						
16.	Desilter						
17.	Mud Agitators						
18.	Poorboy Degasser						
19.	Vacuum Degasser						
20.	Centrifugal Pump (Vacuum Degasser)						
21.	Bell Nipple						
22.	Flowline						
23.	Standpipe (Single) & Manifold 4"						

	<b>5,000WP</b>						
<b>24.</b>	<b>Rotary House</b>						
<b>25.</b>	<b>Mud Pump Discharge Line &amp; Vibrator Hoses</b>						
<b>26.</b>	<b>Suction System</b>						
<b>27.</b>	<b>Mud System Pressure Gauge</b>						
<b>28.</b>	<b>Ton Mile/ Km Indicator</b>						
<b>29.</b>	<b>Mud Pressure Gauge</b>						
<b>30.</b>	<b>AC Power Generators</b>						
<b>31.</b>	<b>Generator/Power Control House (Two Generators)</b>						
<b>32.</b>	<b>Rig Lighting and Wiring Package</b>						
<b>33.</b>	<b>Paint and General Color Scheme</b>						
<b>34.</b>	<b>Rig-Up (Erection), Test and Commissioning</b>						
<b>35.</b>	<b>Recommended Spares for minimum five year trouble free operation</b>						
<b>GRAND TOTAL</b>							

**Note: Please indicate the break up for all major assemblies of the Mobile Rig separately.**



**PROFORMA-C**

**STATEMENT OF NON-COMPLIANCE  
(Only exceptions/deviations to be rendered)**

**TENDER No. JPOCL/MOBILE RIG/2010/001**

1.0 The bidder shall furnish detailed statement of **exceptions/deviations**, if any, to the tender stipulations, terms and conditions in respect of each Section of Bid Document in the following format:

<b>S.No.</b>	<b>Non-Compliance</b>	<b>Reference No. of Tender</b>	<b>Reasons</b>	<b>Implication on rates quoted</b>

**Authorized Person's Signature:**

**Name:**

**Designation:**

**Name & Address of the bidder:**

**Seal of the bidder:**

**NOTE:** Company expects that the bidders to fully accept the terms and conditions of the bid document. However, should the bidders still envisage some exceptions/ deviations to the terms and conditions of the bid document, the same should be indicated as per above format and submit along with their bids. If the "**Statement of Non-compliance**" in the above Proforma is left blank (or not submitted along with the technical bid), then it would be construed that the bidder has not taken any exception/deviation to the tender requirements.



**BID FORM**

To  
**Business Head – Oil & Gas**  
“Jindal Petroleum Operating Company” LLC  
IIIrd Floor, DCM Building,  
Plot No. 94, Sector 32  
Gurgaon - 122001,  
Haryana, INDIA

Sub: Tender No.: **JPOCL/WO RIG /2010/001**

Sir,

Having examined the General Terms & Conditions of Tender including all attachments thereto, the receipt of which is hereby duly acknowledged, we the undersigned offer to perform the Services in conformity with the said conditions of Tender for the sum of \_\_\_\_\_ (Total Bid Amount in words and figures).

We undertake, if our Bid is accepted, to commence the Services within ( ) days calculated from the date of Letter of Intent (LOI)/Fax of Intent (FOI).

We agree to abide by this Bid for a period of ninety (90) days from the Bid Due Date & Time and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this Bid, together with your written acceptance thereof in your notification of award shall constitute a binding contract between us.

We understand that you are not bound to accept the lowest or any Bid you may receive.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 2010.

-----  
Signature

\_\_\_\_\_  
(In the capacity of)



**FORMAT FOR PERFORMANCE BANK GUARANTEE**  
(Should be in the name of issuing bank.)

Bank Guarantee No.:

Date:

**“Jindal Petroleum Operating Company” LLC**  
**Apt. 15, 5<sup>th</sup> Floor, Bldg. No. 57,**  
**Iosebidze Str., Saburtalo Region/4**  
**Tbilisi, Georgia**

Dear Sirs,

In consideration of **“Jindal Petroleum Operating Company” LLC** having its registered office at **Apt. 15, 5<sup>th</sup> Floor, Bldg. No. 57, Iosebidze Str., Saburtalo Region/4, Tbilisi, Georgia**, (hereinafter referred to as ‘the JPOCL’, which expression shall unless repugnant to the context or meaning thereof, include all its successors, administrators, executors and assigns) and having entered into Letter of Intent No. .... dated ..... valued at **US\$..... (in figure)** for ..... (hereinafter called ‘the Contract’, which expression shall include all the amendments thereto) with M/s. \_\_\_\_\_, having its Head/registered office at ..... (hereinafter referred to as ‘the Contractor, which expression shall unless repugnant to the context or meaning thereof, include all its successors, administrators, executors and assigns) and the contract having been unequivocally accepted by the Contractor and agreed to furnish to the JPOCL, a Performance Guarantee for the faithful performance of the entire Contract to the extent of **US\$ .....**

AND WHEREAS we have agreed to give the JPOCL such a Bank Guarantee; NOW THEREFORE we hereby affirm that we are Guarantors on behalf of the Contractor, up to a total of (Amount of Guarantee in figures) \_\_\_\_\_ (in words) (\_\_\_\_\_), such amount being payable in the types and proportions of currencies in which the Contract price is payable and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of guarantee sum as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein. We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or the work to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way cease us from any liability under this guarantee and we hereby waive notice of such change, addition or modification.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is limited to US\$ ..... in aggregate and it shall remain in full force upto and including ..... (Indicate the date of expiry of Bank Guarantee) calculated at ninety (90) days after Contract completion date) unless extended further. Any claim under this Guarantee must be received by us before the expiry of this guarantee.

The Bank confirms that this Guarantee has been issued in conformity of the applicable laws of the country. We also agree that, this guarantee shall be governed by and construed in accordance with GEORGIA Laws and subject to the exclusive jurisdiction of GEORGIA Courts.

**SIGNATURE AND SEAL OF THE GUARANTORS** \_\_\_\_\_  
(Designation with Bank Stamp)



Name of Bank \_\_\_\_\_  
Address \_\_\_\_\_  
Date ..... Place \_\_\_\_\_