OIL INDIA LIMITED
(A Govt. of India Enterprise)
P.O. Duliajan – 786602, Assam

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Tender No. & Date : **SDG7143P16/09**

Tender Fee : INR 4,500.00 OR USD 100.00

Bid Security Amount : Applicable

Bidding Type : **SINGLE STAGE TWO BID SYSTEM**

Bid Closing on : 15.07.2015 (at 11.00 Hrs. IST)
Bid Opening on : 15.07.2015 (at 14.00 Hrs. IST)

Performance Guarantee : Applicable

OIL INDIA LIMITED invites Global Tenders for items detailed below:

Item No./Mat. Code	Material Description	QTY.	UOM
10	SUPPLY, INSTALLATION & COMMISSIONING OF TANKAGE SYSTEM FOR MUD AND WATER/CHEMICAL INCLUSIVE OF SOLID CONTROLS FOR BHEL MAKE AC-SCR DRILLING RIGS AS PER THE FOLLOWING ANNEXURE: a) Detailed specification – Annexure - I. b) Bid Rejection Criteria (BRC) and Bid Evaluation Criteria – Annexure - II. c) Technical & Commercial Check list vide Annexure - III	2	Sets.

Special Notes :

1.0 The tender will be governed by "General Terms & Conditions" for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders) including Amendments & Addendum to "General Terms & Conditions" for e-Procurement.

2.0 Technical Check list and Commercial Check list are furnished vide Annexure – III. Please ensure that both the check lists are properly filled up and uploaded along with "Techno-commercial Unpriced Bid".

3.0 The items covered by this enquiry shall be used by Oil India Limited in the PEL/ML areas which are issued/renewed after 01/04/99 and hence Nil Customs Duty during import will be applicable. Indigenous bidder shall be eligible for Deemed Export Benefit against this purchase. Details of Deemed Export are furnished vide Addendum to MM/GLOBAL/E-01/2005 attached. However, Indian bidders will not be issued Recommendatory Letter.

4.0 Please note that all tender forms and supporting documents are to be submitted through OIL's e-Procurement site only except following documents which are to be submitted manually in sealed envelope super scribed with **Tender no.** and **Due date** to The **Head Materials, Materials Department, Oil India Limited, Duliajan- 786602, Assam** on or before **13:00 Hrs (IST)** on the Bid Closing Date mentioned in the Tender.

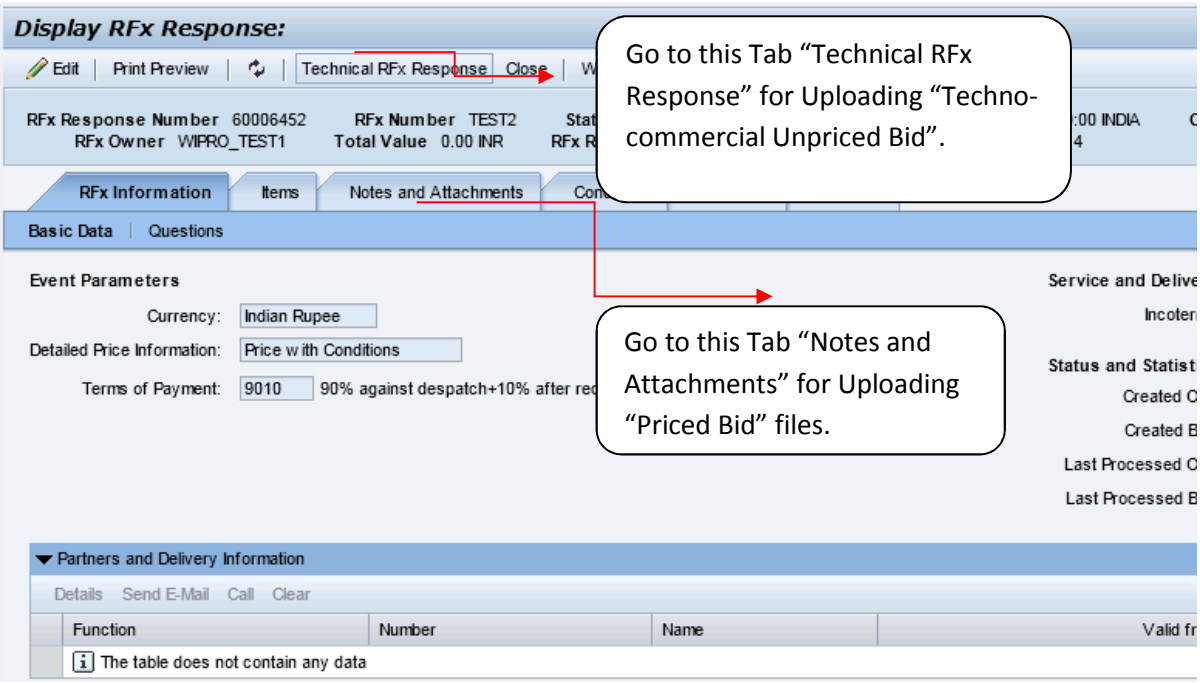
a) **Original Bid Security.**
b) **Details Catalogue and any other document which have been specified to be submitted in original.**

All documents submitted in physical form should be signed on all pages by the authorised signatory of the bidder and to be submitted in triplicate.

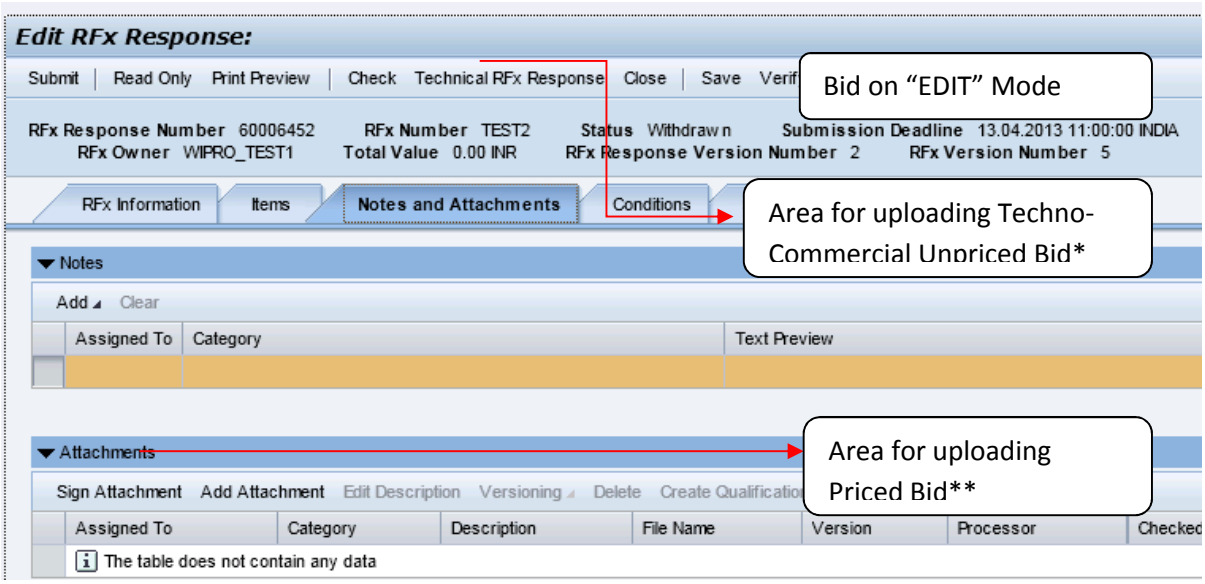
5.0 In case of SINGLE STAGE-TWO BID SYSTEM, bidders shall prepare the "Techno-commercial Unpriced Bid" and "Priced Bid" separately and shall upload through electronic form in the OIL's e-Tender portal within the Bid Closing Date and Time stipulated in the e-Tender. The "Techno-commercial Unpriced Bid" shall contain all technical and commercial details except the prices which shall be kept blank. Details of prices as per Bid format / Commercial bid to be uploaded as attachment in the Attachment Tab "Notes and Attachments".

A screen shot in this regard is given below.

Any offer not complying with above submission procedure will be rejected as per Bid Rejection Criteria mentioned in the tender.



On "EDIT" Mode- The following screen will appear. Bidders are advised to Upload "Techno-Commercial Unpriced Bid" and "Priced Bid" in the places as indicated above:



Note :

* The "Techno-Commercial Unpriced Bid" shall contain all techno-commercial details **except the prices**.

** The "Price bid" must contain the price schedule and the bidder's commercial terms and conditions. For uploading Price Bid, first click on Sign Attachment, a browser window will open, select the file from the PC and click on Sign to sign the Sign. On Signing a new file with extension .SSIG will be created. Close that window. Next click on Add Atachment, a browser window will open, select the .SSIG signed file from the PC and

name the file under Description, Assigned to General Data and clock on OK to save the File.

6.0 Bidders are requested to examine all instructions, forms, terms and specifications in the bid. Failure to furnish all information required as per the bid or submission of offers not substantially responsive to the bid in every respect will be at the bidders risk and may result in the rejection of its offer without seeking any clarifications.

7.0 Other terms and conditions of the tender shall be as per "General Terms & Conditions" for e- Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders) and its amendments. However, if any of the Clauses of the Bid Rejection Criteria (BRC) / Bid Evaluation Criteria (BEC) mentioned here contradict the Clauses in the "General Terms & Conditions" for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders) of the tender and/or elsewhere, those mentioned in this BEC / BRC shall prevail.

8.0 The Integrity Pact is applicable against this tender .OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide Annexure XII of the tender document. This Integrity Pact proforma has been duly signed digitally by OIL's competent signatory. The proforma has to be returned by the bidder (along with the technical bid) duly signed (digitally) by the same signatory who signed the bid, i.e., who is duly authorized to sign the bid. Uploading the Integrity Pact with digital signature will be construed that all pages of the Integrity Pact has been signed by the bidder's authorized signatory who sign the Bid. **If any bidder refuses to sign Integrity Pact or declines to submit Integrity Pact with the offer, their bid shall be rejected straightway.**

OIL's Independent External Monitors at present are as under:

1. **SHRI RAGHAW SHARAN PANDEY, IAS(Retd.),**
   e-Mail ID : rspandey_99@yahoo.com

2. **SHRI RAJIV MATHUR, IPS(Retd.),**
   e-Mail ID : rajivmathur23@gmail.com

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ANNEXURE – I

SCOPE OF SUPPLY : SUPPLY, INSTALLATION & COMMISSIONING OF TANKAGE SYSTEM FOR MUD AND WATER/CHEMICAL INCLUSIVE OF SOLID CONTROLS FOR BHEL MAKE AC-SCR DRILLING RIGS.

QUANTITY : 2 SETS.

TECHNICAL SPECIFICATIONS OF MUD AND WATER / CHEMICAL TANKAGE SYSTEM FOR BHEL MAKE AC-SCR DRILLING RIGS INCLUSIVE OF SOLID CONTROLS

[NOTE: The specifications and requirements given below are for one set only.]

1. MUD & WATER TANK SYSTEM WITH ACCESSORIES:

One (1) Mud & Water Tank System consisting of the following:

1A: Active and Reservoir Mud Tanks: 3 + 3 = Six (6) tanks (Round Bottom Type)

One (1) Shaker tank - 300 US Barrels

One (1) Intermediate tank - 300 US Barrels

One (1) Suction tank - 300 US Barrels

Three (3) Reserve tanks of Capacity 300 US Barrels each (i.e. Total capacity: 900 Barrels US) complete with Mixing Pumps and Mud agitators

1B: Water / Chemical Tanks: Three (3) tanks

1C: Auxiliary Equipment & Accessories for the Mud Tank System:

One (1) Mud Loading System

One (1) Mud Pump Super Charger System

One (1) Feed Pump System for Solid Control System

TECHNICAL DETAILS OF THE ABOVE:

1A: Active and Reservoir Mud Tanks:

Each mud tank should have approximately the following dimensions:

Length: 9500 mm (excluding 300 mm skid extension on each end for tail boarding)

Breadth: 2500 mm

Height: 2250 mm (excluding skid height)

i) Tanks shall be of round bottom type with corners rounded off to avoid mud accumulation and aid in good agitation.

ii) Tank Walls: The walls of each of the tanks (including partition walls) are to be constructed with 8 mm thick MS crimped plates. Tank bottoms, to be constructed with 8 mm thick plain plates, should be sloped gradually to a maximum of 2" (50.0 mm) towards the tank cleaning doors to facilitate cleaning.

iii) Master Skid: The tanks should be mounted on three / four runner oilfield type skids fabricated from 300 mm beams (ISMB) reinforced with suitable channels and angles. The ends of the skid should project out from the tank by 300mm and

curve upwards. 150 NB X Sch 80 pipe with provision for lifting should reinforce the end of the skids for tail boarding.

iv) Tank Doors: Three (3) clean out gates should be provided at the rear of each suction, intermediate and shaker tanks. Reserve tanks are also to be provided with three (3) clean out gates. However, for each of the reserve tanks out of three gates one to be placed on width side (towards mud pit) and the other two at the rear. These clean out gates shall be provided with 10" butterfly valves having firm support to withstand transport and handling abuses.

v) Sand Traps of approx. 10 - 12 cum capacity are to be provided in the Shaker Tanks. Approx. 2" (50 mm) slope is to be maintained towards the clean out gate end.

vi) Valves and Couplings: Dresser type pipe couplings, butterfly valves and dumb valves with flanged ends should be provided.

vii) Mud Channels and gates: Mud channel with diversion gates should be provided in all the tanks per the mud system requirement.

viii) Water, Mud and Equalizing Lines: Square tubings of sizes 152 X 6 mm and 101 X 6 mm shall be used for Mud rolling line and Water rim line respectively. Equalizing lines (273mm) should be provided between shaker tank and intermediate tank with dresser type pipe couplings for end connections. These lines should be provided with suitably placed manifolds / isolating butterfly valves and gates etc. for separation or isolation of tanks or tank in the system. The rim line water tapping for mud system shall be with 1" NPT vertical insert and a plug (2 nos. for each tank). Suction lines of 250 mm (10") nominal dia with butterfly valves and Dresser type pipe couplings for two nos. of mud pumps should be provided in the Suction Tank and in the Intermediate Tank. The suction valves and suction valve system shall be supplied with 10" NB X 6.3 mm thick pipes. Mud hopper suction line of 200mm (8") nominal dia. With butterfly valve and Dresser type pipe coupling should be provided in the Suction Tank and all the reserve tanks.

ix) Tank Top, Handrails and Staircases: All tank top open spaces should be covered with iron serrated bar gratings (Heavy-duty grills) and should have sufficient support and fixing arrangements to ensure stiffness and ruggedness. Removable handrails at least 1 meter high with two-rail railings and 0.15 meter high toe board should be provided on the open side of the tanks per safety standards. All handrails should consist of top rail, knee rail and tick board. Stairways of 915-mm to 1000-mm width and 45 degree maximum angle with handrails as described above on both sides should be provided at convenient

places for climbing on to the tanks from ground level and from cable tray to suction tank. These staircases shall be resting on the walkway and also wherever possible be permanently attached / anchored to the tanks. All tanks should have fixed staircases without handrails from tank top to tank bottom for going into the tank. The walkway arrangement shall be Folding type flush with tank top.

x) Tank Volume Measuring Scale: All the tanks should be provided with permanently attached measuring scale made of anti-corrosive metal / alloy graduated in inch and foot to indicate volume per inch height.

xi) Bottom Mud Gun: On the low pressure mud rolling lines a sufficient number of bottom mud guns complete with nipples, pipes, butterfly valves, hammer unions and a handle to rotate the gun from tank surface etc. should be provided in all the tanks.

xii) Mud Agitator: Each mud tank shall be equipped with two (02) mud agitators so positioned to have proper churning of mud, each complete with flameproof electric motor(s) of 10 hp which shall operate on 415 Volts, 3-phase, 50 Hz AC power supply. The mud agitators should be of aerofoil design / Turbine type curved or canted design impeller and heli-bevel / worm reduction type gearbox. The turn-over rate of the agitators should be around 50 seconds.

xiii) Provision for Mounting Solids Control Equipment: Provision should be kept for mounting / installing solids control equipment on the shale shaker and intermediate tanks. Two (2) shale shaker units, placed side by side, with shale slide, mounted on Shale Shaker Tank; one (1) desander unit mounted on shaker tank and one (1) mud cleaner with desilter unit mounted on suction / intermediate tank; one (1) centrifuge & one (1) vacuum degasser unit mounted at suitable place on intermediate & shaker tank respectively. The required partitions, outlets with 200 mm(8") butterfly valves and dresser type couplings should be provided in the shale shaker tank and intermediate tank for operating all these solid control equipment and degasser in the mud system. The skid with feed pumps to all these equipment should be placed in front of the shale shaker/ intermediate tank near their interconnections. A common manifold for suction and delivery of the feed pumps for solid control equipment is to be provided with isolating valves to use either of the two pumps to feed desander, desilter or degasser.

xiv) Surface Preparation/ Sand Blasting/ Painting: All oil deposits should be removed by using approved de-greasing agents with special attention to drilled holes, bolt holes etc. The tanks shall be sand-blasted / Grit-blasted and painted with one coat of inorganic zinc primer 70 microns in thickness and two coats of Repack high build polyurethane.

xv) Electrical Earthing System:

a) Each mud tank should have two nos. of GI straps 50 X 6 mm mounted on the out side of the walls facing mud pumps and mud mix skid side.

b) The straps 50 X 6 mm should be welded to the sturdy supports that are welded to the tank wall. The gap between tank wall and strap: 50mm. Spacing between supports: 1000mm. The strap length should be the same as the tank length/ width. Gap between straps should be 150mm.

c) Holes to be drilled in each strap are: (a) one no of 15mm dia. Hole near each agitator (b) two nos. of 15mm dia. Holes with a spacing of 100mm near each strap end.

d) Straps should be mounted at a convenient height for ease of connection.

e) Galvanization of the straps should be of the high quality to withstand the corrosive environment. 2 nos. each 25 X 3 mm GI strips shall be welded to the main strips and the agitator skids (approx. perpendicular to the main strips 50 X 6mm).

f) Two (2) GI straps of size 50 X 6 mm shall be suitably mounted on each skid to facilitate independent double earthing of the pump motors.

g) Holes to be drilled in each strap are: a) two nos. of 15 mm dia holes with a spacing of 100 mm near each motor b) two nos. of 15 mm dia holes with a spacing of 100 mm near each strap end.

h) Foldable type hangers should be mounted on tank wall below the earthing straps to support the mud system cables. Spacing between hangers should be 1000mm. Width of the hangers: 300mm

xvi) Mounting of Push button station: Mounting assembly for push button station of each mud/ water tank agitator to be welded to the tank near respective agitator assembly.

xvii) Mud Pill Chamber: A chamber of approx. 12 cum (75 Barrels US) capacity with isolating valves should be provided inside the suction tank for preparation of special mud pills. A suitable sized agitator of stainless steel 304 Aerofoil 3 blade design / Turbine type curved or canted design of approx. dia 36" coupled with flameproof electric drive motor of maximum 10-hp capacity should be provided in this chamber for proper mixing of the mud additives. The pill tank agitator is to be such that it should not foul with the bottom/ internal piping. This chamber should be connected with the suction line for the rig pumps and also with an independent line from the mud loading system with isolating valves.

xviii) Chemical Operator's Cabin: One (1) cabin of size approximately 4.2 m long x 2 m wide x 2.5 m high skid-mounted cabin with proper heat insulation & ventilation, complete with one sliding door, safety glass windows, adequate provision for keeping mud testing equipment and accommodating 2 (two) persons, and with tool box, oilfield mud balance such as Baroid and MF

viscometer. The cabin should be placed near the intermediate tank at the level of the walkways.

Tank should be covered with steel collapsible type stackable system with adequate individual lighting arrangement and ventilation facility.

1B: Water / Chemical Tanks:

Three (3) water/chemical tanks fabricated as detailed above for item 1(A) and having approx. dimensions:

Length : 9500 mm (excluding 300 mm skid extension on each end for tail boarding)

Breadth : 2500 mm

Height : 2250 mm (excluding skid height)

Capacity : 300 US Barrels

i) Master Skid for Water / Chemical Tank: One Master Skid having 4 runners with a dimension of 3.05 M (10 ft) wide x 9.75 M (32 ft) long for placing the three water tanks. The skid should be fitted with two nos. of centrifugal pumps (as Water Booster) having a minimum flow rate of 80 cum per hour and with 55 mtr. Head driven by suitable explosion proof 415 volts, 50 Hz, 3 phase electric motors and complete with suction and discharge lines for operation of either or both pumps

ii) The following features should be provided in the water / chemical tanks: -

a) Two tanks should have open top and one tank should have covered top with two manholes.

b) Both the open top tanks should be covered with the serrated floorings as described above at 1A(ix).

c) 2" line size hopper shall be fabricated and assembled on one open tank. The maximum height of the hopper shall be limited to the height of the mud agitator and should not exceed 3400 mm.

d) Small, rugged, collapsible type platforms of preferable size 2000 mm (L) x 2000 mm (B) x 500 mm (H) should be provided near the hopper to stack a few sacks of chemicals prior to loading.

e) All the three tanks should be provided with strongly built sturdy ladder both from inside and outside the tanks. Handrails are to be provided for the two (2) open-top tanks with bar grating platforms and walkway between the two tanks.

f) Two (2) clean out gates should be provided at the rear side of each tank. These gates should be provided with 12" Butterfly valves. Approx. 3" (75 mm) slope is to be maintained towards the clean out gate side.

g) All the tanks should be provided with 100 mm drain out plug at the floor of the tanks.

h) The open tanks should be provided with permanently attached measuring scale made out of anti-corrosive metal / alloy graduated in inch and foot to indicate volume per inch height.

i) The inlet feed line shall be supplied with 100 mm (4") Sch.40 ASTM 106 Grade 'B' pipes with butterfly valve and should be anchored firmly with the sidewall of the tank. The rim line water tapping for water tanks shall be with 1" NPT vertical insert and a plug (2 nos. for each tank).

j) All the tanks shall be provided with 152.4mm (6") Sch.40 ASTM 106 Grade 'B' pipes with butterfly valve in the front side of the tanks.

k) The open top tanks should be provided with bottom guns at four sides of the tanks with rotating (1800) facility from the tank top.

l) Each open-top tank should be provided with two (2) agitators having heli-bevel / worm reduction type gear box. The mud agitators shall be with stainless steel 304 Aerofoil 3 blade design / Turbine type curved or canted design of approx. dia 36". The agitators should be driven by maximum 10 hp, 415 volts, 3-phase, 50 Hz horizontal foot mounted, squirrel cage rotor induction motor with bi-directional cooling fan at NDE. The motor should be fully enclosed fan cooled and offering protection to IP55. Insulation: Class F but the temperature rise should be limited to that of Class B. Earthing: Two nos. of earth points on the enclosure and one no. inside the terminal box. Termination: Motors should have terminal box with studs for connection of supply cable. Canopy: Motors should be provided with a removable type canopy for protection against rain. Canopies should be supported on agitator skids. Paint: Motors should be painted with epoxy paint of DA Grey shade.

m) One of the chemical mixing tanks should have two chambers. One of the chambers should have 100-150 bbl capacity. Both the chambers should have independent suction line and one agitator each. Both the chambers should be connected to hopper for chemical mixing independently with suitable valve arrangements.

iii) The overall height of the tanks including the agitators should not exceed 3400 mm for transport limitations.

iv) Two (2) 75 HP electric motor driven horizontal multistage centrifugal pumps set complete with piping/ Dresser type couplings and butterfly valves should be

mounted on an independent three runner oilfield skid. These pump sets will be used to load chemicals through hoppers to water tanks, to gun the mixture and to feed chemical-mixed (gauging) water in the cement hopper for preparation of cement slurry. The two horizontal multi stage centrifugal pumps should have cast steel body, bronze / cast iron impeller, EN 8 shaft with gland type packing and each should be capable of developing 150 m. of head. The discharge of each pump should be about 60.0 m3 / hr at 1450 rpm.

1C: Auxiliary Equipment & Accessories for the Mud Tank System:

i) Mud Loading System: One (1)

ii) Mud Pump Super Charger System: One (1)

iii) Feed Pump System for Solid Control System: One (1)

i) Mud Loading System:

The following equipment should be mounted on an oilfield three runner skid and top floor with inter connections through piping, dresser type couplings and butterfly valves:

a) Centrifugal Pump sets: Two (2) centrifugal pumps of Mission Magnum - I or equivalent make of size 8" x 6" x 14" with approx. 14" size impeller. The mud mix system shall be provided with 10" suction valve system with 8" suction header.

Each pump will be coupled to a 100 hp, 415 Volts, 3-phase, 50 Hz 1500-rpm flameproof weatherproof electric motor. The motors, starters and the cable glands should be suitable for use in hazardous areas and duly certified by CIMFR (UL or the equivalent certifying authority of the country of origin) and approved by DGMS for Zone I and Gas group IIA & IIB of Oil Mines.

The bidder should submit copies of CIMFR certificates (UL or the equivalent certifying authority of the country of origin) & DGMS approvals for all the flameproof electric motors, starters and cable glands with the quotation. UL certification shall be considered as equivalent to CIMFR (India) certification; however DGMS (India) approval shall be binding and final for all equipments to be used in Hazardous areas as per DGMS Guidelines/ Directive. (Refer DGMS approval clauses g & h under General Notes).

b) Loading Hoppers: Three (3) hoppers shall be provided for Bentonite / Barite loading. Two (2) hoppers should be suitable for use for loading barites and one (1) other hopper coupled with a High Performance Aqua-Shear Jet Shearing / Mixing System capable of handling 1000 GPM of fluid, should be suitable for loading polymer chemicals. The Jet shearing system shall be provided with hopper having

4" line size on a separate skid which shall be placed either on the active mud mix tank or on Reserve tank. The inlet and outlet of the jet shearing system shall be connected to one of the mud mix hopper lines with necessary isolation valves. All line connections are to be made in such a way that all the hoppers can be operated simultaneously if situation arises.

ii) Two Mud Pump Supercharging System:

Two (2) 8" x 6" x 14" size Mission Magnum - I or equivalent pumps with approx.14" impeller should be suitably positioned and mounted on a three runner oilfield skid and floor with inter connections through piping, dresser type couplings and butterfly valves to super-charge the mud pumps suction. Gap between supercharger system and mud tank shall be approx. 900 mm to facilitate / ease of slinging of supercharger skid. The supercharger system shall be provided with 10" isolation Butterfly valves and 10" suction header.

Each pump will be coupled to a 100 hp, 415 Volts, 3-phase, 50 Hz 1500-rpm flameproof weatherproof electric motor. The motors, starters and the cable glands should be suitable for use in hazardous areas and duly certified by CIMFR (UL or the equivalent certifying authority of the country of origin)and approved by DGMS for Zone I and Gas group IIA & IIB of Oil Mines.

The bidder should submit copies of CIMFR certificates (UL or the equivalent certifying authority of the country of origin) & DGMS approvals for all the flameproof electric motors, starters and cable glands with the quotation. UL certification shall be considered as equivalent to CIMFR (India) certification; however DGMS (India) approval shall be binding and final for all equipments to be used in Hazardous areas as per DGMS Guidelines/ Directive. (Refer DGMS approval clauses g & h under General Notes).

iii) Feed Pump System for Solid Control System:

Desander, Desilter and Degasser Feed Pump Set: Two (2) 8" x 6" x 14" size Mission Magnum - I or equivalent pumps with 14" size impeller should be suitably positioned and mounted on a three runner oilfield skid and floor with inter connections through piping, dresser type desilter and degasser units. Gap between mud mix system and mud tank shall be approx. 900mm to facilitate / ease of slinging of mud mix skid.

Each pump will be coupled to a 100 hp, 415 Volts, 3-phase, 50 Hz 1500-rpm flameproof weatherproof electric motor. The motors, starters and the cable glands should be suitable for use in hazardous areas and duly certified by CIMFR (UL or the equivalent certifying authority of the country of origin)and approved by DGMS for Zone I and Gas group IIA & IIB of Oil Mines.

The bidder should submit copies of CIMFR certificates (UL or the equivalent certifying authority of the country of origin) & DGMS approvals for all the flameproof electric motors, starters and cable glands with the quotation. UL certification shall be considered as equivalent to CIMFR (India) certification; however DGMS (India) approval shall be binding and final for all equipments to be used in Hazardous areas as per DGMS Guidelines/ Directive. (Refer DGMS approval clauses g & h under General Notes).

All components of the tanks should be new, unused and free from all defects.

The tanks should be hydraulically tested for 24 hours.

2. MUD LOADING SYSTEM/ BARITES RAMP:

One (1) Mud Loading System / Barites Ramp of 600 - 800 sq. ft. area and 4 ft high for placement adjacent to the Active Mud System, with shade over the ramp for storing Bentonite, Barites and other bulk chemicals

3. TRIP TANK:

One (1) trip tank, 10 m3 (83 US Barrels) capacity with two nos. centrifugal pumps driven by electric motor with fps gauging system visible from Derrick Floor. Tank to be constructed with 8 mm thick MS crimped plates, mounted on oilfield type skid & complete with following:

i) Two nos. 3"x2" Pumps Unitized with 20 HP, 3 PH, 50HZ, 415 volts, flameproof electric motor.& complete with all valves, piping & fittings.

ii) Tank should be provided with 10hp agitator.

iii) Tank should be covered with serrated galvanized bar grating with suitable opening for entering inside tank. Tank should be provided with foldable walk ways and cable trays similar to mud tanks.

iv) Access ladder both inside & outside.

v) One cleanout gate with 10" butterfly valve.

vi) 3" pump suction with two Butterfly valves.

vii) 2" Pump discharge with three Butterfly valves. Discharge line of both the pumps to be connected with T-junction so as to make common discharge line with three 2" butterfly valves (one each for pump discharge and one for common discharge line)

viii) One 3" low pressure Bottom mud gun

ix) Fill line assembly should include connection for Mud line on Shaker tank with valve, coupling and 4" pipe to trip tank.

x) 2" hose from discharge of pumps to bell nipple of length 24 Meters (2x12 meters each) should be provided.

4. SHALE SHAKER:

Two (2) units of Linear and / or Balanced Elliptical Motion "High G" (Minimum 7G) shale shakers with suitable flow divider (possum belly) & mounted side by side on a rugged oilfield type master skid over the shaker tank, each unit of LMSS rated at 500 GPM (minimum) and capable of running up to 250 plus mesh size screens without overflowing. (The units of LMSS should not be permanently fixed on to the skid but should be designed for easy attaching & detaching on to the skid).

The dimensions of the master skid & LMSS unit should meet the transportable dimensions as stated elsewhere in the tender. The LMSS to be used as solid control equipment should be able to sieve off larger cuttings as well as fine particles from the drilling mud on an Oil Well Drilling Rig operating continuously with the specified rated conditions & parameters.

4.1 High 'G' (7) Linear and / or Balanced Elliptical Motion Shale Shaker capable of working effectively while drilling the critical intermediate hole sections (17 ½, 12 ¼ & 8 ½ inch) at high angles / high discharges using Water based / advanced polymer / Synthetic Oil Base Mud systems (unit to be suitable for use with all types of mud system) requiring excellent solids control with fine screens which are able to separate / screen out solids down to 72 microns. These shakers should also be capable to work effectively for deeper sections as well as top-hole sections where high-volume solids are usually encountered. In these intervals, shakers need to generate high G-forces to effectively move dense solids across the screens.

4.2 Functional Parameters:

i) The equipment should be suitable for Drilling fluid "Mud" having specific gravity of 0.7 to 2.6 and marsh viscosity of funnel 35 - 100 sec per quart (946 ml).

ii) Drilling Fluid (Mud) operating temperature should be up to 900C.

iii) The LMSS should be compatible for handling Synthetic Oil based mud, KCL PHPA mud, Non-damaging drilling fluid, in addition to conventional mud.

iv) The LMSS to have the following features :

1. Type of Shale Shaker Linear and / or Balanced Elliptical Motion-DUAL SHAKER

2. Total fluid handling capacity per set comprising of "2" shaker units Capacity 1000 - 1100 GPM with 9.0 ppg mud at 105 X 105 mesh screens conforming to API -RP-13C. Performance curve on this requirement to be submitted with the technical bid.

3. 'G' force G force transmitted to the screen should be 7 minimum

4. Vibrator Type Electrically driven for generating linear / balanced elliptical or dual motion.

5. Screen Decks Single

6. Scalper Inbuilt or separate

7. Deck Angle Fixed or Variable type, with a minimum of 5º deck angle adjustment.

8. Screen tensioning Automatic / Pre-tensioned

4.3 Motor: The vibrator Motor should be of suitable rating along with starter compatible with specified operating conditions & parameters for the intended service (HP & RPM), Flame proof, explosion proof Class-I group C & D & weather proof AC induction motor 415 Volts, 50H, 3 phase. The approximate cable length should be of 25 meters.

4.4 Starter: Manual, Explosion Proof and with Overload relays protection, installed in Weather proof box to avoid mud splashes. The starters should be preferably mounted on an independent metal frame.

4.5 The motors, starters and the cable glands should be suitable for use in hazardous areas and duly certified by CIMFR (UL or the equivalent certifying authority of the country of origin)and approved by DGMS for Zone I and Gas group IIA & IIB of Oil Mines.

The bidder should submit copies of CIMFR certificates (UL or the equivalent certifying authority of the country of origin) & DGMS approvals for all the flameproof electric motors, starters and cable glands with the quotation. UL certification shall be considered as equivalent to CIMFR (India) certification; however DGMS (India) approval shall be binding and final for all equipments to be used in Hazardous areas as per DGMS Guidelines/ Directive. (Refer DGMS approval clauses g & h under General Notes).

5. MUD CLEANER:

One (1) Linear motion mud cleaner complete with sixteen to twenty (16 - 20) numbers of 4" vertical type hydro-cyclone desilter arranged in twin parallel rows of 8-10 cones each or in circular design with capacity not less than 1000 GPM (US). Desilter under flow will discharge on fine mesh screens of linear motion vibrating shale shaker. The shaker should work on linear motion principle.

5.1 The shale shaker assembly should be mounted on standard and rugged oil field type skid, suitable for easy movement and installation. Unit should be equipped with four lifting points located at each corner of the base frame. Unit should have gates at each side for direct discharge in to mud tanks.

5.2 LMMC should be incorporated with integral vibrator motor(s) for imparting energy to the shaker basket (to provide linear motion). Vibratory system should be directly coupled to self contained, explosion proof, water and weather proof motor. Motor rating should be suitably matched with the specified operating conditions including mud handling properties. The motor should be conveniently located on shaker skid to avoid being damaged by spilling mud. Motor should be 415 V, 50 Hz, 3-PHASE, CLASS 'F" insulation designed for continuous service. Motor should be provided with starter having over load protection feature, explosion proof, water and weather proof.

5.3 The motors, starters and the cable glands should be suitable for use in hazardous areas and duly certified by CIMFR (UL or the equivalent certifying authority of the country of origin) and approved by DGMS for Zone I and Gas group IIA & IIB of Oil Mines.

The bidder should submit copies of CIMFR certificates (UL or the equivalent certifying authority of the country of origin) & DGMS approvals for all the flameproof electric motors, starters and cable glands with the quotation. UL certification shall be considered as equivalent to CIMFR (India) certification; however DGMS (India) approval shall be binding and final for all equipments to be used in Hazardous areas as per DGMS Guidelines/ Directive. (Refer DGMS approval clauses g & h under General Notes).

5.4 TECHNICAL FEATURS

5.4.1 Type of LMMC should be vertical or circular. Shaker of LMMC should work on Linear Motion principle with deck angle (0 to 5 deg. (min)) adjustment of 5 deg. min

5.4.2 Rated capacity should be 1000 GPM (min). Should be suitable for separating cuttings from the mud of 8.7 ppg to 21 ppg and viscosity 40 to 70 cps.

5.4.3 LMMC should be suitable for all types of mud including weighted or non-weighted, Oil base or Water base.

5.4.4 Micron cut of cones should be 20-25 microns. Desilter Hydrocyclone should be 4" size made of Polyurethane material, ceramic insert molded to withstand high abrasion, temperature and pressure. Cones should be light weighted and having high abrasion resistance. The discharge apex of the cone should be easily removable type for cleaning and replacement.

5.4.5 Feed line should be designed for providing adequate pressure to each cone.

5.4.6 Pressure gauge of suitable size and rating (min. 100 psi) should be provided on inlet line of desilter.

5.4.7 No. of screen per cleaner should be two (min).

5.4.8 LMMC should efficiently operate with screen of API 10 to 325 mesh size.

5.4.9 Safety guards should be fitted to all rotating / moving parts or assemblies.

6. DESANDER:

One (1) 2-cone Desander with manifold constructed of 8" Sch 40 pipe, mounted on the third shaker, having two (2) 10" polyurethane cones with grooved end inlet and overflow, Desanding Capacity: 1000 GPM (US).

6.1 Desander should be complete with mud trough, manifold, polyurethane hydro cyclones, pressure Gauge, and all necessary connections. The unit should be built on easily movable oil field skid.

6.2 The complete assembly should be grit blasted, primed with zinc and finished with two coats of polyurethane paint to protect against corrosion

7. VACUUM DEGASSER:

One (1) Vertical Vacuum Degasser, mounted on oilfield skid, with one (1) 5 hp, 230 /415 Volt AC, 3-phase, 50 Hz explosion-proof motor, starter, complete with suction and discharge piping, jet nozzles, etc. Degassing Capacity: 1000 GPM at 75 ft head.

7.1 The degasser tank, vacuum pump & motor should be mounted on an oil field skid. The mounting frame should be designed for maximum rigidity and

sturdiness It should be reinforced with lifting eyes, fabricated out of high-grade structural steel and should be free from any flaws and defect.

7.2 The complete assembly (internally and externally both) should be grit blasted to SA 2 1/2 (white metal finish), primed with zinc and finish coated with 2 to 3 coats of polyurethane paint.

7.3 The motors, starters and the cable glands should be suitable for use in hazardous areas and duly certified by CIMFR (UL or the equivalent certifying authority of the country of origin) and approved by DGMS for Zone I and Gas group IIA & IIB of Oil Mines.

The bidder should submit copies of CIMFR certificates (UL or the equivalent certifying authority of the country of origin) & DGMS approvals for all the flameproof electric motors, starters and cable glands with the quotation. UL certification shall be considered as equivalent to CIMFR (India) certification; however DGMS (India) approval shall be binding and final for all equipments to be used in Hazardous areas as per DGMS Guidelines/ Directive. (Refer DGMS approval clauses g & h under General Notes).

7.4 TECHNICAL SPECIFICATION:

7.4.1 Mud handling capacity: 950-1000 gpm. at 75 ft head

7.4.2 Density of mud: 8.33 ppg to 21 ppg

7.4.3 Vacuum pump

a) Maximum vacuum desired rating 8" to 15" (203 to 381 mm) of mercury for maximum lift of 3 meters.

b) Single stage vacuum pump belt driven complete with 5 hp flame proof and weather proof AC motor 230 / 415 volts, 50 Hz, 3-phase. Cable termination should be through flame proof glands of suitable size.

7.4.4 Degasser features

i. Vertical type cylindrical Vessel: - Cylindrical vessel fabricated out of MS Sheet, free from flaws and defects & fitted with following accessories

a) Safety valve

b) A vacuum pressure gauge with cock 1" (25.4mm) should be installed at a suitable visible place and having a capacity to record vacuum of 0" to 30" (0 - 760 mm) of mercury

c) Float operated three-way valve to vacuum vessel to avoid vacuum pump to overfill or dry.

d) Baffles: A thin MS plate of adequate thickness inside the vessel for providing sufficient surface area for release of entrapped gas.

ii. Low pressure jet of 1.½" (38 mm) nozzle should installed on 6" (152 mm) discharge line

7.4.5 API 8" x 6" (203 mm x 152 mm) suction / discharge flange connections along with companion flanges and required fasteners.

All solid control equipments must be either of Brant (NOV), Derrick or Swaco make. All electrical equipments required to run the Solid control equipments are to be rated at 415Volts, three phase, 50 Hz and must be DGMS approved. (Refer DGMS approval clauses g & h under General Notes).

8. JET SHEARING DEVICE:

The installed system should be capable of performing blending and also high impact shearing. The system should allow fluid to be processed in any of the following ways:

i. Shearing system only

ii. Hopper mixing system only

iii. Shearing and mixing in series

iv. Bypass of both the shearing and mixing system

8.1 TECHNICAL SPECIFICATION:

1. Capacity/volume requirement: 1000GPM

2. Pressure head - 35M minimum

3. The complete unit should consist of:

(a) High Density Polyurethane Nozzle Disc.

(b) Polyurethane Jet Nozzle.

(c) Diffuser.

(d) Radial Pre-mixer.

(e) Inlet Line Size & Outlet line size will be 4"NB ANSI B16.5 Cl. 150.

(f) 6" Isolation (Butterfly Valve, Flanges and Studs for 6" Line).

(g) 4" Isolation (Butterfly Valve, Flanges and Studs for 4" Line).

(h) Victaulic Couplings.

8.2 OTHER FEATURES

The Jet Shear Unit will have the following features:

(a) Non-Moving Parts.

(b) High Abrasion Durability.

(c) Chemical Compatibility.

(d) Non-Corrosive Parts.

(e) Quick Disconnect facility

9. TOOLS:

9.1 Bidder to quote set of handling & special tools (for screen replacement, vibrator replacement, deck / basket angle adjustment, cone replacement, etc.) required for carrying out operation, repair & maintenance on Shale Shaker, Desander, mud cleaner & Desilter including one torque wrenches & one digital accelerometer (vibration meter). Bidder must forward a list of such tools quoted by them indicating the make & model. Price of these should be indicated in commercial bid & will be considered for evaluation purpose.

9.2 High pressure - low volume suitable water jet cleaner with all accessories - 1 No. (for cleaning the shale shaker screens). Bidder to quote the specification with price in commercial bid & will be considered for evaluation purpose.

10.0 MAKE OF SOLID CONTROL EQUIPMENT

Make of solid control equipment for supply with the mud and water tanks should be as per the undernoted options only:

Sl. No.	Equipment Detail	Make / Name of Vendor
1.	Solid Control Equipments (Shale Shakers, Desander, Mud Cleaner cum Desilter & Degasser)	1. Derrick Equipment Co. 2. National Oilwell Varco 3. Swaco Norge AS / MI Swaco

2.	Centrifugal Pumps	1. TRW Mission 2. Harrisburg 3. SPD Baker
3.	HP Valves & fittings	1. Oteco 2. Demco
4.	Multi stage Gauging water pump	1. Beacon Weir or equivalent

11.0 **PRE-DESPATCH INSPECTION**

Complete package of Tankage system with all solid control equipment after assembling should be offered for inspection & functional testing at manufacturer's yard by OIL's team (comprising of engineers from Drilling, Technical Services, Transport & Electrical) prior to dispatch with at least two (2) months notice. Bidder should indicate their acceptance in the technical bid.

The Inspection cum Acceptance process would include but not limited to the following minimum steps/tasks -

i) Physical verification/inspection of all the items/fittings/accessories including all Parts Catalogue, Maintenance & Service Manuals, Schematics, etc.

iii) Supplier shall have to take note of any minor modification(s) for operational requirement suggested by the inspection team and comply with the same at no extra cost.

iv) The minutes of inspection process would be prepared at the end of the inspection and jointly signed by all parties.

v) Supplier shall confirm in writing compliance of all the points raised in the minutes of inspection as well as any other subsequent additions/changes.

vi) Supplier will affect dispatch of the Tankage system with all solid control equipment only on receipt of OIL's dispatch advice.

12.0 **INSTALLATION & COMMISSIONING** :

Bidders shall confirm categorically that Installation & Commissioning of the Tankage system (Mud and Water tanks) along with solid control equipment would be carried out by their competent personnel at OIL's designated drill site, in Duliajan, ASSAM, INDIA.

The installation and commissioning charges inclusive of service tax to be quoted separately and would be considered for evaluation of the offer. These charges

should include amongst others to and fro fares, boarding / lodging, local transport at Duliajan and other expenses of supplier's commissioning personnel during their stay at Duliajan, Assam (India). However, the basic facilities required for installation & commissioning such as to & fro transportation to site from Duliajan, Crane service, electric power, water supply, pressurized air and welding & cutting set shall be provided by OIL. Rig-up at designated site will be the responsibility of OIL but, supplier should provide the supervisory assistance by deputing their competent personnel including API certified welder (if required).

Commissioning shall be completed within 8 (Eight) weeks after receipt of all the items at Duliajan.

13.0 **TRANSPORT DIMENSIONS LIMITATION & DESIGN**:

i) OVERALL DIMENSION OF INDIVIDUAL ITEM HAVING SKID should not preferably exceed (including skid) 9.0 meter × 2.50 meter × 2.5 meter (L x W x H

ii) OVERALL DIMENSION OF INDIVIDUAL ITEM WITHOUT SKID should not preferably exceed 10.0 meter x 2.5 meter x 2.75 meter (L x W x H). In all cases the items shall be so designed that they can be evenly placed on trailers with proper load distribution as well as within the above specified dimensions of 2.5 meter width & 2.75 meter height for ease of transportation

iii) The overall weight of single individual item (with or without skid) including all accessories mounted on it and the skid as applicable should be as minimum as possible and should not preferably exceed 18.0 MT.

iv) Each longitudinal channel of a skid shall be of single length and shall have smooth finish underneath and curve finish at both the end, so that the skid can roll over smoothly on surfaces/truck body without any obstruction.

v) The skid so designed should be sufficiently strong and properly welded at joints and should be able to withstand shocks which are bound to come while being handled and transported over rough and slushy roads/locations. Height of the joint used for the longitudinal members should be minimum 20 cm.

vi) As far as possible, the length of the skid should be at least 1.00 meter longer than the overall length of the equipment mounted on it, and same equally distributed on either ends. CG (Center of Gravity) of the equipment with the skid should be at centre of the complete unit to the extent possible.

vii) Suitable lifting lugs should be provided for each individual item. For items with skid, 4(four) lugs at each corner of the skid should be provided.

14.0 **GENERAL NOTES**

(a) The items supplied shall be brand new, unused & of recent manufacture (not prior to six months from date of issuance of Letter Of Intent). Supplier shall warrant that the product supplied will be free from all defects & fault in material, workmanship & manufacture. This clause shall be valid for 12 months from the date of commissioning of the items. The defective materials, if any, rejected by OIL shall be replaced by the supplier at their own expenses. Suppliers must confirm the same in their quotations.

(b) Any deviation(s) from the tender specification should be clearly highlighted specifying justification in support of deviation. The word 'equivalent' appearing after any indicated make of an item / equipment / accessories implies that any other make of such item / equipment / accessories is also acceptable provided the specification as indicated in tender is met in toto.

(c) Offers shall be complete in all respects and all the items/equipment as specified in the tender must be included in the package. Offers deemed to be incomplete shall be liable for outright rejection.

(d) The Bidder shall categorically confirm that the compatibility of all equipment offered has been thoroughly scrutinized and verified for smooth and trouble-free operation of the entire package to avoid unwarranted hitches during commissioning.

(e) Quotations shall be accompanied by detailed technical specifications, manufacturer's printed specification sheets, literature, drawings, layout drawings & catalogues as indicated in English (UK & US).

(f) Bidders must specify the weight of major components indicating the major dimensions.

(g) Electrical / Electronic equipment shall be CIMFR (or equivalent) certified and DGMS approved. The CIMFR certificate number and DGMS approval number shall be affixed or embossed on each piece of equipment. In case DGMS approved electrical / electronic equipment is not available, the same shall be supplied with DGMS field trial permission certification. The field trial may be carried out in any E&P company operating in India or during the commissioning of the item for which it is procured.

(h) The payment of DGMS approved electrical / electronic equipment will be as per normal terms and conditions of the order. However, payment for the electrical / electronic equipment supplied with DGMS field trial permission shall be to the extent of 50% of the cost of the equipment against dispatch / shipping

documents. The balance 30% shall be made on submission of DGMS approval only while the remaining 20% will be released after successful installation/commissioning. Bidders to quote the price of the electrical / electronic equipment separately for which DGMS approval is not available.

(i) Bidder shall submit the detailed schematic drawing of the mud and water tankage system, Mud Loading System, Mud Pump Super Charger System, Feed Pump System for Solid Control System showing position of all the valves, mud lines, water lines, lighting pole brackets, etc. **A rough layout** (21 sheets) is enclosed as guidance for the bidders.

(j) Bidder to note that the schematic drawing of the mud and water tankage system, Mud Loading System, Mud Pump Super Charger System, Feed Pump System for Solid Control System of the successful bidder will be finalized in consultation with OIL prior to fabrication of the units. The Bidder should categorically confirm in the technical bid compliance of this clause.

(k) Purchase Order number, 'OIL' logo / mark and the Budget Head provided by Oil shall be weld written on suitable place at the unit. Bidders shall confirm compliance to the same while quoting.

(l) Bidder should indicate the name of manufacturer, country of origin, port of dispatch of the materials and their best delivery schedule.

(m) Bid should include unit wise recommended operational spares list for 2 (two) years indicating part number, quantity, unit rate and delivery schedule. However, the price of spares will not be considered for evaluation purpose.

(n) The bidder should categorically confirm in the technical bid for uninterrupted supply of spares for at least 5 years from the Certified date of completion / successful field commissioning of the unit. Original Equipment Manufacturer's undertaking must be forwarded for the items not manufactured by the bidder.

15.0 Bidders should confirm each & every point clearly. Deviations, if any, should be highlighted in the quotation.

16.0 The Bidder shall warrant that in the event of an order, all product(s) supplied shall be free from all defects & fault in material, workmanship & manufacture and shall be in full conformity with the applicable codes and specification. Bidder should confirm the same while quoting.

17.0 After Sales Service :

The nature of after sales service, which the supplier can provide during initial commissioning and also subsequently should be clearly stated.

18.0 Tax & Duties:

(i) All taxes, stamp duties and other levies imposed outside India shall be the responsibility of the Bidder/Seller and charges thereof shall be included in the offered rates.
(ii) All Taxes & levies imposed in India, for the services including installation & commissioning shall be to the Bidder/Seller's account.
(iii) Income Tax on the value of the Services rendered by the Bidder /Seller in connection with installation/ commissioning shall be deducted at source from the invoices at the appropriate rate under the I.T. Act & Rules from time to time.

19.0 Payment : Payment shall be released as follows:

a) Goods supplied with valid DGMS Approval:

i) 80 % of the supply value shall be released on supply of each Tankage System against proof of despatch/shipment of the goods and submission of valid DGMS certificate.
ii) Remaining 20 % of the Tankage System value along with installation & commissioning charges shall be paid after successful commissioning and acceptance of each Tankage System by OIL at site.

b) Goods supplied without DGMS approval, but with Field Trial Permissions only:

i) 50 % of the Tankage System value shall be released on supply of Tankage System against proof of despatch/shipment of the goods and submission of valid DGMS field trial permission certificate.
ii) 30% of the Tankage System value shall be released on receipt of valid DGMS certificate.
ii) Remaining 20 % of the Tankage System value along with installation & commissioning charges shall be paid after successful commissioning and acceptance of the Tankage System by OIL at site.

A system will be considered as successfully commissioned only after obtaining valid DGMS approval for all the constituent equipment/instruments of the system.
OIL may consider making 100 % payment of the Tankage System value towards supply of the Tankage System against proof of dispatch/shipment and submission of necessary DGMS approval certificate provided bidders agree to pay interest @ 1% above prevailing Bank Rate (CC rate) of State Bank of India for 20 % of the Tankage System value and also submit Bank Guarantee for the equivalent amount plus interest valid till successful commissioning of Tankage

System at site. This is in addition to the 10 % of the order value towards Performance Security as per the NIT requirement.
Any offer not complying with the above shall be loaded at one percent above the prevailing Bank Rate (CC rate) of State Bank of India for evaluation purpose.

***

ANNEXURE – II

BID REJECTION CRITERIA (BRC) / BID EVALUATION CRITERIA (BEC)

I. BID REJECTION CRITERIA:

The bids shall in general conform to the specifications and terms and conditions given in the tender. Bids shall be rejected in case the goods offered do not conform to the required minimum/maximum parameters stipulated in the technical specifications and to the respective international / national standards wherever stipulated. Notwithstanding the general conformity of the bids to the stipulated specifications and terms and conditions, the following requirements will have to be particularly met by the bids, without which the same will be considered as non-responsive and be rejected.

A) TECHNICAL:

1. The mud tanks shall be of round bottom type with corners rounded off.

2. The offers should be complete in all respects and all the items/equipment as specified in the tender must be included.

3.1 In case, the bidder is a Manufacturer, he should have an experience of minimum 5 (five) years in manufacturing the mud and water tank system of drilling rigs. For this purpose the period reckoned shall be the period prior to the date of opening of the techno-commercial bid.

Documentary evidence to substantiate manufacturers experience should be submitted in the form of copies of relevant Purchase Orders which are five years old or more.

3.2 The bidder (Manufacturer) should also have the experience of successful execution of supply, installation & commissioning of at least 3 (three) sets of round bottom mud tankage system and 3 (three) sets of water tankage system of drilling rigs, together or separately, in the last 3 (three) years preceding the bid closing date of this tender, either as a unit or with a drilling rig package.

3.3 Documentary evidence to substantiate supply record should be submitted in the form of copies of relevant Purchase Orders along with copies of any of the documents in respect of satisfactory execution of each of those Purchase Orders, such as:

(i) Satisfactory Inspection report (OR)
(ii) Satisfactory supply completion/ Installation / Commissioning report (OR)
(iii) Delivery challans received by Consignee (OR)
(iv) Central Excise Gate Pass/ Tax Invoice issued under relevant rules of Central Excise/ VAT

Note: Order copy to be enclosed with relevant page number bearing signature of purchaser or authenticated by purchaser.

4.1 In case the bidder is sole selling agent / distributor / dealer / supply house of any manufacturer, then bidder must furnish the following documents:

i) Back-up authority cum warranty letter in original on manufacturer's letter head, valid at the time of bidding which should remain valid during the entire execution period of the order, from the concerned manufacturer guaranteeing supply of the items to the bidder in the event of an order on the bidder and also authorized them to market their products.

ii) The bidders quoting on behalf of the manufacturers must also submit undertaking in original from the manufacturer for back up guarantee, after sale services and uninterrupted supply of spares for at least 5 years.

iii) The bidders quoting on behalf of the manufacturers should additionally have the experience of successful execution of supply, installation & commissioning of at least 3 (three) sets of mud tankage system and 3 (three) sets of water tankage system of drilling rigs, together or separately, in the last 3 (three) years preceding the bid closing date of this tender, either as a unit or with a drilling rig package.

Documentary evidence to substantiate supply record should be submitted in the form of copies of relevant Purchase Orders along with copies of any of the documents in respect of satisfactory execution of each of those Purchase Orders, such as:

(i) Satisfactory Inspection report (OR)
(ii) Satisfactory supply completion/ Installation / Commissioning report (OR)
(iii) Delivery challans received by Consignee (OR)
(iv) Central Excise Gate Pass/ Tax Invoice issued under relevant rules of Central Excise/ VAT

Note: Order copy to be enclosed with relevant page number bearing signature of purchaser or authenticated by purchaser.

4.2 The sole selling agent / distributor / dealer / supply house should quote for the supply of mud and water tankage system from the manufacturers who meet the experience & other criteria as mentioned at clauses 3.1, 3.2 & 3.3. The sole selling agent / distributor / dealer / supply house should submit necessary and relevant documents of the OEM as mentioned in clauses 3.1 & 3.3.

B) COMMERCIAL

1.0 Bids are invited under Single Stage Two Bid System. Bidders shall quote accordingly under Single Stage Two Bid System. Please note that no price details should be furnished in the Technical (i.e. Unpriced) bid. The "Unpriced Bid" shall contain all techno-commercial details except the prices which shall be kept blank. The "Priced Bid" must contain the price schedule and the bidder's commercial terms and conditions. Bidder not complying with above submission procedure will be rejected.

2.0 Bid security of US $ 83,000.00 or Rs. 37,35,000.00 shall be furnished as a part of the TECHNICAL BID (refer Clause Nos.9.0 & 12.0 (Section A) of "General Terms & Conditions" for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders)). **Any bid not accompanied by a proper bid security in ORIGINAL will be rejected without any further consideration.** A bid shall be rejected straightway if Original Bid Security is not received within the stipulated date & time mentioned in the Tender and/or if the Bid Security validity is shorter than the validity indicated in Tender and/or if the Bid Security amount is lesser than the amount indicated in the Tender.

2.1 For exemption for submission of Bid Security, please refer Clause No. 9.8 (Section A) of "General Terms & Conditions" for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders).

2.2 The Bid Security shall be valid for one year from the date of tender opening i.e, **valid upto 14.07.2016.**

3.0 Validity of the bid shall be minimum 180 days from Bid closing date. Bids with lesser validity will be straightway rejected.

4.0 The prices offered will have to be firm through delivery and not subject to variation on any account. A bid submitted with an adjustable price will be treated as non-responsive and rejected.

5.0 Bids received after the bid closing date and time will be rejected. Similarly, modifications to bids received after the bid closing date & time will not be considered.

6.0 Bidders shall quote directly and not through Agents in India. Offers made by Indian Agents on behalf of their foreign principals will be rejected. Similarly offers from unsolicited bidders will be rejected.

7.0 Bids containing incorrect statement will be rejected.

8.0 No offers should be sent by E-mail or Fax. Such offers will not be accepted.

9.0 Bidders must confirm that Goods, materials or plant(s) to be supplied shall be new of recent make and of the best quality and workmanship and shall be guaranteed for a period of twelve months from the date of successful commissioning against any defects arising from faulty materials, workmanship or design. Defective goods/materials or parts rejected by OIL shall be replaced immediately by the supplier at the supplier's expenses and no extra cost to OIL.

10.0 Successful bidder will be required to furnish a Performance Bank Guarantee @10% of the order value. The Performance Bank Guarantee must be valid for one year from the date of successful commissioning. Bidder must confirm the same in their Technical Bid. Offers not complying with this clause will be rejected.

11.0 Offers should be submitted with Integrity Pact duly signed by the authorized signatory of the bidder. If any bidder refuses to sign Integrity Pact or declined to submit Integrity Pact with the offer, their bid shall be rejected straightway.

12.0 Bidders are required to submit the summary of the prices in their commercial bids as per bid format (Summary), given below :

(i) <u>Commercial Bid Format (SUMMARY) for Foreign Bidders</u> :

(A) Total material cost of 2 sets of Tankage System
(B) Total cost of Tools under para 9.0 of Annexure-I for both the sets

(C) Grand Total Material Cost, (A + B)
(D) Packing & FOB Charges
(E) Total FOB Port of Shipment value, (C + D) above
(F) Ocean Freight Charges upto Kolkata, India
(G) Insurance Charges
(H) Total CIF Kolkata value, (F + G + H)
(I) Pre-despatch Inspection charges, if any, for both sets
(J) Installation & Commissioning charges for both the sets including service tax
(K) Total Value, (H + I + J) above
(L) Total value in words :
(M) Gross Weight :
(N) Gross Volume

(ii) <u>Commercial Bid Format (SUMMARY) for Indigenous Bidders</u> :

(A) Total material cost of 2 sets of Tankage System
(B) Total cost of Tools under para 9.0 of Annexure-I for both the sets
(C) Grand Total Material Cost, (A + B)
(D) Packing and Forwarding Charges
(E) Total Ex-works value (C + D)
(F) Excise Duty, (Please indicate applicable rate of excise duty)
(G) Sales Tax, (Please indicate applicable rate of Tax)
(H) Total FOR Despatching station price, (F + G + H)
(I) Road Transportation charges to Duliajan
(J) Insurance Charges
(K) Total FOR Duliajan value, (I + J + K)
(L) Pre-despatch Inspection charges, if any, for both the sets
(M) Installation & Commissioning charges for both the sets including service tax
(N) Total Value, (K + L + M) above
(O) Total value in words :
(P) Gross Weight :
(Q) Gross Volume :

<u>NOTE :</u>

1. Cost of individual items must be quoted separately.
2. The unit price of the electrical / electronic equipment requiring **DGMS** approval to be quoted separately with quantity required per set.
3. The items covered under this enquiry shall be used by OIL in the PEL/ML areas issued/renewed after 01/04/99 and hence, applicable Customs Duty for import of goods shall be ZERO. Indigenous bidders must quote Deemed Export prices. Excise Duty under Deemed Export exempted.

13.0 Pre-Despatch / Shipment Inspection charges, if any, shall be quoted on lumpsum basis separately which shall be considered for commercial evaluation of the offers. However, all to and fro fares, boarding/lodging and other expenses of OIL's Inspection Engineer(s) shall be borne by OIL.

14.0 Installation/Commissioning charges must be quoted separately on lumpsum basis which shall be considered for evaluation of the offers. These

charges should include amongst others to and fro fares, boarding/lodging, local transport at Duliajan and other expenses of supplier's commissioning/training personnel during their stay at Duliajan, Assam(India).

Bidders must categorically indicate the above charges in their commercial offers and must confirm the same in their Technical bids.

(II) BID EVALUATION CRITERIA (BEC) :

The bids conforming to the specifications, terms and conditions stipulated in the enquiry and considered to be responsive after subjecting to the Bid Rejection Criteria will be considered for further evaluation as per the Bid Evaluation Criteria given below:

A. **COMMERCIAL** :

1.0 The evaluation of bids will be done as per the Commercial Bid Format (SUMMARY) detailed vide Para 12.0 of BRC.

2.0 If there is any discrepancy between the unit price and the total price, the unit price will prevail and the total price shall be corrected. Similarly, if there is any discrepancy between words and figure, the amounts in words shall prevail and will be adopted for evaluation.

3.0 For conversion of foreign currency into Indian currency, B.C. selling (Market) rate declared by State Bank of India, one day prior to the date of price bid opening shall be considered. However, if the time lag between the opening of the bids and final decision exceed 3(three) months, then B.C. Selling(Market) rate of exchange declared by SBI on the date prior to the date of final decision shall be adopted for conversion and evaluation.

4.0 To ascertain the inter-se-ranking, the comparison of the responsive bids will be made as under, subject to corrections / adjustments given herein.

4.1 When only foreign bidders are involved :
Comparison of bids will be done on the basis of "TOTAL VALUE" which is estimated as under :

(A) Total material cost of 2 sets of Tankage System
(B) Total cost of Tools under para 9.0 of Annexure-I for both the sets
(C) Grand Total Material Cost, (A + B)
(D) Packing & FOB Charges
(E) Total FOB Port of Shipment value, (C+D) above
(F) Ocean Freight Charges upto Kolkata, India
(G) Insurance Charges @ 1% of Total FOB Value vide (E) above
(H) Banking Charges @ 0.5% of Total FOB Value vide (E) above in case of payment through Letter of Credit (If confirmed L/C at buyer's account is required, 1.5% of Total FOB Value will be loaded)
(I) Total CIF Kolkata Value, (E+F +G+H) above
(J) Pre-despatch Inspection charges, if any, for both the sets

(K) Installation & Commissioning charges for both the sets including service tax
(L) Total Value, (I +J + K) above
(M) Total value in words :

NOTE : Banking charge in the country of the foreign bidder shall be borne by the bidder.

4.2 When only domestic bidders are involved or when more than one domestic bidders are in contention in case of mixed response :

Comparison of bids will be done on the basis of "TOTAL VALUE" which is estimated as under :

(A) Total material cost of 2 sets of Tankage System
(B) Total cost of Tools under para 9.0 of Annexure-I for both the sets
(C) Grand Total Material Cost, (A + B)
(D) Packing and Forwarding Charges
(E) Total Ex-works value, (C+D) above
(F) Excise Duty including Cess
(G) Sales Tax
(H) Total FOR Despatching station price, (E +F+G)
(I) Road Transportation charges to Duliajan
(J) Insurance Charges @0.5% of Total FOR Despatching Station Value (H) above
(K) Total FOR Duliajan value, (H +I +J)
(L) Assam Entry tax
(M) Pre-despatch Inspection charges, if any, for both the sets
(N) Installation & Commissioning charges for both the sets including service tax
(O) Total Value, (K+L+M + N) above
(P) Total value in words :

NOTE: Excise Duty in case of the indigenous bidder is EXEMPTED under Deemed Export.

4.3 When both foreign and domestic bidders are involved :

The Total Value of domestic bidder (inclusive of customs duty on imported raw material and components etc. and applicable terminal excise duty on the finished products and Sales Tax) excluding inland transportation to destination, Assam Entry Tax and Insurance charges worked out as per Para 4.2 above and Total Value of the foreign bidder worked out as per Para 4.1 above will be compared. No price preference will be allowed to indigenous bidders except that for capital goods, the domestic manufacturers would be accorded a price preference to offset CST to the extent of 4 % or actuals, which ever is less subject to 30 % local content norms as stipulated for World Bank Funded project to the satisfaction of

OIL. When more than one domestic bidders fall within price preference range, inter-se-ranking will be done on Total Value basis.

Note: If the Government of India revises these evaluation criteria the same as applicable on the bid closing date will be adopted for evaluation of the offers.

5.0 Other terms and conditions of the enquiry shall be as per General Terms and Conditions for Global Tender. However, if any of the Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria (BEC / BRC) mentioned here contradict the Clauses in the General Terms & Conditions of Global Tender of the tender and/or elsewhere, those mentioned in this BEC / BRC shall prevail.

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ANNEXURE -III

CHECK LIST

(A) TECHNICAL

THE CHECK LIST MUST BE COMPLETED AND RETURNED WITH YOUR OFFER. PLEASE ENSURE THAT ALL THESE POINTS ARE COVERED IN YOUR OFFER. THESE WILL ENSURE THAT YOUR OFFER IS PROPERLY EVALUATED. PLEASE SELECT "Yes" OR "No" TO THE FOLLOWING QUESTIONS, IN THE RIGHT HAND COLUMN.

Any difference in specification elsewhere in the tender, the specification of the check list shall be treated as final.

Sl. No	DESCRIPTIONS	REMARKS
1	Do all electrical equipment such as motors, push button stations, motor starter, etc. used in hazardous area have CMRI certification (UL or equivalent certification from competent authority from the country of origin) and DGMS (India) approval for gas group II A & II B? If so, have you forwarded copies of the same with the bid? UL certification shall be considered as equivalent to CMRI (India) certification; however DGMS (India) approval shall be binding and final for all equipments to be used in Hazardous areas as per DGMS Guidelines/ Directive. (Refer DGMS approval clauses g & h under General Notes).	YES / NO
2	Does your offer include all items, equipment as specified in the enquiry?	YES / NO
3	Have you verified and confirmed compatibility of all equipment included in the package?	YES / NO
4	Does your offer indicate technical specifications in detail? Have you enclosed manufacturer's printed specification sheets, literature, drawings, layout drawings & catalogues as requested?	YES / NO
5	Have you confirmed that Installation & Commissioning of the entire package shall be carried out by your competent personnel, in the event of an order? Have you indicated applicable charges towards the same in commercial bid?	YES / NO
6	Have you confirmed to extend a warranty [from the manufacturer(s)] that shall be valid for 12 months from date of commissioning of the items, (in the event of an order) that the product supplied will be free from all defects & fault in material, workmanship & manufacture and shall be in full conformity with API specifications?	YES / NO

7	Have you highlighted the deviations in the offer, if any, to technical specifications of the tender?	YES / NO
8	Have you indicated for services during guarantee / warranty & regarding pre-dispatch inspection?	YES / NO

ANNEXURE III

(B) COMMERCIAL CHECK LIST

THE CHECK LIST MUST BE COMPLETED AND RETURNED WITH YOUR OFFER. PLEASE ENSURE THAT ALL THESE POINTS ARE COVERED IN YOUR OFFER. THESE WILL ENSURE THAT YOUR OFFER IS PROPERLY EVALUATED. PLEASE SELECT "Yes" OR "No" TO THE FOLLOWING QUESTIONS, IN THE RIGHT HAND COLUMN.

Sl#	REQUIREMENT	COMPLIANCE
1.0	Whether bid submitted under Single Stage Two Bid System?	Yes / No
2.0	Whether quoted as manufacturer?	Yes / No
2.1	Whether quoted as OEM Dealer / Supply House. To Specify-	Yes / No
2.2	If quoted as OEM Dealer / Supply House, (a) Whether submitted valid and proper authorization letter from manufacturer confirming that bidder is their authorized Dealer / Supply House for the product offered ?	Yes / No
	(b) Whether manufacturer's back-up Warranty/Guarantee certificate submitted?	
3.0	Whether ORIGINAL Bid Bond (not copy of Bid Bond) as per Revised Format(Annexure VII Revised) Sent separately? If YES, provide details	
	(a) Amount :	
	(b) Name of issuing Bank :	
	(c) Validity of Bid Bond :	
4.0	Whether offered firm prices ?	Yes / No
4.1	Whether quoted offer validity of 180 days from the date of closing of tender?	Yes / No
4.2	Whether quoted a firm delivery period?	Yes / No

4.3	Whether agreed to the NIT Warranty clause?	Yes / No
4.4	Whether confirmed acceptance of tender Payment Terms of 80% against shipment/dispatch documents & DGMS Approval letter and balance 20% after successful commissioning along with commissioning charges or so as mentioned in the tender ?	Yes / No
5.0	Whether confirmed to submit PBG as asked for in NIT?	Yes / No
5.1	Whether agreed to submit PBG within 30 days of placement of order?	Yes / No
6.0	Whether Price submitted as per Price Schedule (refer Para 12.0 of BRC vide Annexure – II)?	Yes / No
7.0	Whether list of Recommended Spares for 2 years of operations with part No., quantity & unit rate quoted?	Yes / No
7.1	Whether confirmed that all spares & consumables will be supplied for a minimum period of **05 years** ?	Yes / No
8.0	Whether quoted as per NIT (without any deviations)?	Yes / No
8.1	Whether quoted any deviation?	Yes / No
8.2	Whether deviation separately highlighted?	Yes / No
8.3	Whether indicated the country of origin for the items quoted?	Yes / No
8.4	Whether technical literature / catalogue enclosed?	Yes / No
8.5	Whether weight & volume of items offered indicated?	Yes / No
9.0	For Foreign Bidders - Whether offered FOB / FCA port of despatch including sea / air worthy packing & forwarding?	Yes / No
9.1	For Foreign Bidders – Whether port of shipment indicated. To specify:	Yes / No
9.2	For Foreign Bidders only - Whether indicated ocean freight up to Kolkata port (Excluding marine insurance) ?	Yes / No
9.3	Whether Indian Agent applicable ?	Yes / No
	If YES, whether following details of Indian Agent provided?	
	(a) Name & address of the agent in India – To indicate	
	(b) Amount of agency commission – To indicate	
	(c) Whether agency commission included in quoted material value?	

10.0	For Indian Bidders – Whether indicated the place from where the goods will be dispatched. To specify :	Yes / No
10.1	For Indian Bidders – Whether road transportation charges up to Duliajan quoted?	Yes / No
10.2	For Indian Bidders only - Whether offered Ex-works price including packing/forwarding charges?	Yes / No
10.3	For Indian Bidders only - Whether indicated import content in the offer?	Yes / No
10.4	For Indian Bidders only - Whether offered Deemed Export prices?	Yes / No
10.5	For Indian Bidders only – Whether all applicable Taxes & Duties have been quoted?	Yes / No
11.0	Whether all BRC/BEC clauses accepted ?	Yes / No
12.0	Whether confirmed to offer the equipment for Pre-despatch/shipment Inspection & testing?	Yes / No
12.1	Whether Pre-despatch/shipment inspection & testing charges applicable?	Yes / No
12.2	If Pre-despatch/shipment inspection charges applicable, whether quoted separately on lumpsum basis?	Yes / No
12.3.	Whether confirmed to carry out Installation & Commissioning of the equipment at Duliajan(Assam) ?	Yes / No
12.4	Whether Installation & Commissioning charge applicable?	Yes / No
12.5	If Installation/ Commissioning charges applicable, whether separately quoted on lumpsum basis?	Yes / No
12.6	Whether to & fro air fares, boarding/lodging of the installation & commissioning personnel at Duliajan, Assam(India) included in the quoted charges ?	Yes / No
12.7	Whether confirmed that all Service, Income, Corporate tax etc. applicable under Installation/ Commissioning are included in the prices quoted ?	Yes / No
13.0	Whether Integrity Pact with digital signature uploaded?	Yes / No
13.1	Whether all the clauses in the Integrity Pact have been accepted?	Yes / No

Signature _____

Name _____

Designation _____