Oil India Limited
(A Govt. of India Enterprise)
P.O. Duliajan – 786602, Assam

Tender No. & Date : SDG3249P10/09   11.05.2009
Tender Fee : INR 4,500.00 OR USD 100.00
Bid Security Amount : INR 5,00,000.00 OR USD 12,000.00
(or equivalent amount in any currency)

Bidding Type : SINGLE STAGE TWO BID SYSTEM
Bid Closing on : As mentioned in the Basic Data of the tender in OIL’s e-portal.
Bid Opening on : As mentioned in the Basic Data of the tender in OIL’s e-portal.
Performance Guarantee : Applicable

OIL INDIA LIMITED invites Global Tenders for items detailed below:

<table>
<thead>
<tr>
<th>Item No. / Mat. Code</th>
<th>Material Description</th>
<th>QTY.</th>
<th>UOM</th>
</tr>
</thead>
</table>
| 10 OC000460          | Supply, Install and Commissioning of OIL FIELD TRUCK MOUNTED HOT OIL CIRCULATION UNIT (HOCU) / PUMPING UNIT WITH HEAT-GENERATOR as per the following Annexures:  
  a) Detailed specification – Annexure - I.  
  b) Bid Rejection Criteria (BRC) and Bid Evaluation Criteria - Annexure II.  
  c) Technical & Commercial Check list vide Annexure III | 1    | No. |

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).

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 Technical bid.

3.0 The item qualifies for Nil duty / Deemed Export benefits. For Deemed Export benefits, please refer Addendum to the General terms and conditions for Global tender.

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 the Bid Closing Date and Time mentioned in the Tender.
  a) Original Bid Security.
  b) Details Catalogue.
5.0 The tender is invited under SINGLE STAGE-TWO BID SYSTEM. The bidders are required to submit both the “TECHNICAL” and “COMMERCIAL” bids through electronic form in the OIL’s e-Tender portal within the Bid Closing Date and Time stipulated in the e-Tender. Please ensure that Technical Bid / all technical related documents related to the tender are to be uploaded in the c-Folder link (collaboration link) under Un-priced Bid Tab Page only. Please note that no price details should be uploaded as c-Folder link (collaboration link) under Un-priced Bid Tab Page. Details of prices as per Bid format / Commercial bid can be uploaded as Attachment in the attachment link [Search and Add] under “Unpriced Bid” under “General Data”. A screen shot in this regard is given below. Offer not complying with above submission procedure will be rejected as per Bid Rejection Criteria mentioned in Annexure-II (Refer Clause 1.0 of (B) Commercial).

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.
OIL FIELD TRUCK MOUNTED HOT OIL CIRCULATION UNIT (HOCU) / PUMPING UNIT WITH HEAT-GENERATOR

A APPLICATION:
For application in oil/gas/injection wells and pipeline for carrying out of the following well servicing jobs:
- De-waxing of production tubing in conjunction with/without Coiled Tubing Unit, De waxing of Flow lines by pumping hot fluid.
- Working pressure: maximum 10,000 psig.
- Fluid to be handled: Crude oil, HSD, Plain Water, Saline Water, Mineral oils etc.

B EQUIPMENT DETAIL:

1.0 TRUCK CHASSIS:
Brand New Truck chassis manufactured not prior to six months from the date of issuance of Letter of Intent (LOI). It shall be of make Kenworth, International Peterbilt or Volvo and shall be suitable for operation in rough terrain, typical oil field roads and desert environment. The offered model shall be latest and conforming to international quality standard norms, having specifications, fittings, accessories, etc. as under:

1.1 DIMENSION (COMPLETE UNIT)

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Width</td>
<td>Should not exceed 2.6 meter</td>
</tr>
<tr>
<td>Overall Height</td>
<td>Should not exceed 3.5 meter</td>
</tr>
<tr>
<td>Overall Length</td>
<td>Should not exceed 13.0 meter</td>
</tr>
<tr>
<td>Ground Clearance</td>
<td>Not less than 30.0 cm. It shall be bidder’s endeavour to mount subsequently fitted undercarriage components (i.e. other than originally mounted components) at maximum possible height.</td>
</tr>
</tbody>
</table>

1.2 ENGINE

Water-cooled diesel engine of adequate power (within the range 425-500 HP at around 2100 rpm) suitable for road drive as well as Hot oil Pumping operation. The engine shall conform to minimum EURO-III or equivalent Emission Norms and of make Caterpillar/ International / Cummins/ Volvo only. In case of engine with Electronic Controller System, Engine Fault Diagnostic & Repair Tool (both Software and complete Hardware) shall be supplied along with the unit. Bidder shall categorically confirm in the bid that the offered software is for the particular engine model of the truck.

1.3 TRANSMISSION

Fully automatic Allison or Volvo make transmission suitable for both road drive and Hot Oil Operations shall be provided. The Transmission should be compatible for offered engine.

Suitable Transfer Case & other PTO’s as per design/requirement shall be provided.

1.4 DRIVE & STEERING

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive</td>
<td>6X4 Drive (One Single non powered front axle &amp; two Powered rear axles).</td>
</tr>
<tr>
<td>Steering</td>
<td>Right hand drive Hydraulic Power Assisted Steering (Steering wheel on the right hand).</td>
</tr>
<tr>
<td>Turning Radius</td>
<td>Minimum Turning Radius approx. 16.00 meters.</td>
</tr>
</tbody>
</table>
1.5 SUSPENSION, GVW & AXLES

<table>
<thead>
<tr>
<th>A. Front Suspension</th>
<th>- Heavy Duty Multi-Leaf Spring Suspension of suitable design with Shock Absorbers.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. Rear Suspension</td>
<td>- Rocker Beam (Walking Beam) suspension with auxiliary leaf springs or rubber cushion support of suitable design with shock absorbers.</td>
</tr>
<tr>
<td>C. Laden Weight</td>
<td>- Within 35,000 Kg</td>
</tr>
<tr>
<td>Front Axle Capacity</td>
<td>- As per Design</td>
</tr>
<tr>
<td>Rear Axle Capacity</td>
<td>- As per Design</td>
</tr>
<tr>
<td>D. Rear Axles</td>
<td>shall have Inter Axle Lock facility.</td>
</tr>
<tr>
<td>E. Actual loading on each individual axle (front as well as rear) shall be within 85% (eighty-five percent) of the maximum load bearing capacity.</td>
<td></td>
</tr>
<tr>
<td>i.e. Laden Weight of the unit shall be within 85% (eighty-five percent) of Maximum Permissible Gross Vehicle Weight (i.e. sum of Axle Capacities of all axles i.e. GVWR) of the unit.</td>
<td></td>
</tr>
</tbody>
</table>

[Laden Weight means – Weight of the complete unit with all equipment & fittings i.e. weight of the chassis with driver’s cabin + weight of all Hot Oil Circulating equipment permanently mounted on the unit + weight of other tools, accessories, etc. generally being carried/kept in the unit, spare wheels, hydraulic & diesel oil, etc. Accordingly, Laden Weight is the sum of actual loading on each individual axle.]

1.6 WHEELS & RIMS

Suitable wheels (2 Nos. at Front Axle, 8 Nos. at Rear Axles) with Tube & Tyre of adequate ply rating with two sets of complete spare wheels (even in case of identical front & rear wheels) shall be provided.

Super Single tyre / wheels are not acceptable.

It shall be bidder’s endeavor to offer front and rear wheels of same size & type. If not possible for design constrain, two spare wheels - one for each type shall be supplied. Suitable lifting & mounting arrangement facility for spare wheels shall be provided.

1.7 BRAKE

A. Service Brake - Multiple Circuit Pneumatic S-Cam brake acting on all wheels.

B. Parking/ Emergency Brake - Parking Brake operating through hand operated shifter valve. It shall automatically get engaged in the event of low/ no air pressure.

C. All Emergency / Parking Brake Servos shall have manual release mechanism (Screw Type) to release the brake manually in case of low/ no air pressure for maintenance.

D. All air tanks shall have Drain Plugs.

E. All wheel brake drums shall have Dust Cover.

F. Buzzer warning for low air pressure.
G. In case of brake with ABS, ABS Fault Diagnostic & Repair Tool (both Software as well as complete Hardware) shall be supplied along with the unit.

1.8 FUEL TANK

Two nos. of fuel tanks each of minimum 100 USG (380 Lts.) Capacity with suitable strainer at the opening of the tank to prevent entry of foreign materials & locking arrangement shall be provided.

1.9 DRIVER’S CABIN

Factory built (original built & supplied with chassis by chassis manufacturer) ergonomically designed floating steel / aluminium driver’s cabin complete with all standards fittings shall be provided. Seating capacity inside the cabin should preferably be 3 (three) including the driver.

1.10 OTHER FITTINGS & ACCESSORIES

A. Sufficient Side marker lights, Hazard warning lights, rear & side reflectors, Air horn in additional to electric horn, etc. for safe movement of the unit on road.

B. While all lights shall be covered to the extent possible with suitable guard to prevent damage; all electrical fittings/ components/ connections shall be suitable to operate in oilfield area.

C. Gauges & meters including Engine Tachometer & Hour meter as per standard inside driver’s cabin. Speedometer & Odometer with metric KM calibration only. Two Nos. of fan inside driver’s cabin shall be provided.

D. It shall be bidder’s endeavor to provide the Engine Oil Pressure & Temperature meters, Air pressure meter, Transmission oil pressure & Temperature meters (if any) with high/ low warning buzzers.

E. Suitable Reversing Audio Alarm with Blinker lights at rear of the unit.

F. Suitable Air Dryer with replaceable type filter element for truck’s pneumatics.

G. Well covered & non conducting material wrapped Vertical Exhaust located behind and projected above the top of the driver’s cabin.

H. Suitable heavy duty front & rear Towing Hook capable of pulling/towing the unit from bogged down situation in slushy areas in oilfields from front as well as rear.

I. Electrical equipment like starter, alternator, etc. needs to be of Lucus or Delco Remy make.

J. Engine start in transmission neutral position in case of Automatic Transmission.

K. Suitable electrical Master Switch to disengage all electrical circuits from battery.

L. Well covered Battery Box, Standard Tool Kit in a portable box for general maintenance of the truck, heavy duty grease gun, wheel wrench & handle, 2(two) Nos. min. 30 MT capacity hydraulic jack with handle, 2 (two) Nos. stopper block for rear wheels.

M. Fire Extinguisher & First Aid Box inside the driver’s cabin.

N. Suitable spark arrestor for engine exhaust for operation in oilfield area.
2.0 **PUMPING SYSTEM**:

The pumping system shall be of Gardner Denver, USA make. The pump shall be horizontal, single acting triplex high pressure plunger pump with max Working Pressure of 10,000 Psi. The pump rating with 3” plunger size shall be as under:

<table>
<thead>
<tr>
<th>Pump rpm</th>
<th>Discharge (gpm)</th>
<th>Max. Pressure (Psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>23</td>
<td>6200</td>
</tr>
<tr>
<td>100</td>
<td>46</td>
<td>5250</td>
</tr>
<tr>
<td>200</td>
<td>92</td>
<td>2625</td>
</tr>
<tr>
<td>300</td>
<td>138</td>
<td>1750</td>
</tr>
</tbody>
</table>

The pump shall be capable of working in Max Working Temperature of 100° C and the pump should be driven by Truck Engine through main transmission and suitable transfer case. The pump should be equipped with the followings:

i) One no. safety relief valve to be set at 6500 Psi
ii) One no. Pressure gauge with pulsation dampener

2.1 **SUCTION MANIFOLD**:

The suction manifold will be extended to the edge of the chassis and fitted with a 4” connection with a 4” Butterfly valve.

2.2 **DISCHARGE MANIFOLD**:

The discharge connection shall consist of the following:

1) 2” full flow, spring loaded, reset Relief valve.
2) 10,000 psi discharge fluid filled pressure gauge.
3) 2” X 10,000 Psi Gate valve.
4) 2” X 10,000 Psi Plug valve.

All treating iron shall be of make FMC/SPM.

2.3 **BOOSTER PUMP / FEED PUMP**:

One (01) no. of 3” Viking/Bowie make booster pump or feed pump shall feed the main Triplex Pump and also for circulation between Tank and burner to attain the desired temperature. The required pressure at the inlet of Triplex Pump should be sufficient enough so that no starvation is developed at any speed of the Triplex pump. The booster pump should have double suction arrangement, one from suction tank and other from different sources.

2.4 **LOADING & UNLOADING PUMP**:

One suitable air operated diaphragm pump for loading & unloading of volatile chemical shall be supplied. The pump shall be truck air operated with 5 Cubic m/hr capacity and 20 m head. Delivery: 50 mm end connection.

2.5 **FLUID TANKS**:

The capacity of the suction tank (closed tank) shall be 5.0 Cu. m. with provision for removable lid. Suitable indicator for fluid measurement in liters scale shall be provided inside the tank. The tank shall have a coat of corrosion resistance paint on the inner surface to protect against corrosive material. The tank should be equipped with Vapor vent line against pressurization and sight gauge glasses for fluid level indication.
2.6 **FUEL PUMP:**

One no fuel pump (preferably Hydraulic motor driven) of adequate capacity to feed fuel to the burner shall be provided.

2.7 **BURNER / HEATING SYSTEM:**

2.7.1 The heating system shall be designed to raise the inlet temperature of the working fluid (Crude oil/Plain water/Saline water etc.) from a minimum of $5^\circ$C to $100^\circ$C with the designed pumping rate. The heating system shall be direct fired one pass continuous forced circulation oil type heater. Burner rated capacity approximately 8.5 million BTU / hr input at maximum output of 6.5 million BTU / hr (actual heating capacity shall be designed by the supplier keeping Fuel Efficiency and Environmental friendly use in mind). The design data sheet shall be supplied along with the quotation. Hydraulic driven blower system for atomization & combustion shall be provided.

2.7.2 1(One) no fuel tank of 100 USG capacity with suitable strainer at the opening of the tank to prevent entry of foreign materials and locking arrangement shall be provided.

Type of Fuel to be used is High Speed Diesel of calorific value of 10840 KCAL/KG.

Safety: in addition to any other safety provision, provision for CO$_2$ fire protection in the heater shall be made.

2.8 **HYDRAULIC TRANSMISSION & CONTROLS:**

1. Hydraulic system pumps shall be driven by truck engine through transmission and PTOs.
2. Hydraulic pump and motor should be hydraulic displacement control type (Electrical displacement control system is NOT desirable).
3. All hydraulic direction control valve should have mechanical actuation system. In case of Pilot operated direction control valve, pilot signal should be either pneumatic or hydraulic.
4. Make of the hydraulic motors/pumps shall be Sauar Danfoss / Sun strand / Parker / Denison / Rexorth / Linde / vickers.
5. Hydraulic oil cooler should be designed in such a way that the temperature of the hydraulic oil in the system does not exceed $70^\circ$ C in extreme ambient temperature of $50^\circ$ C.

3.0 **CONTROL PANEL AND INSTRUMENTATION SYSTEM:**

3.1 **CONTROL PANEL:**

The control panel shall be made of stainless steel plates. The control system should be predominantly hydraulic / pneumatic. Use of electronic control should be minimal. The gauges installed in the control panel shall be filled type to dampen vibration when the unit is in operation. The control panel shall be installed with suitable anti vibration pads. The gauges to be provided shall be dual scale, English / Metric where ever possible. All important parameters of the unit shall be indicated in the control panel. The parameters/controls that are required to be installed in this local gauge cabinet will be as follows:

1) Engine coolant temperature gauge
2) Engine oil pressure gauge.
3) Engine rpm
4) Hydraulic oil pressure gauge.
5) Hydraulic Temperature gauge
6) Air Pressure gauge
7) Transmission oil temperature gauge.
8) Lube oil temperature gauge.
9) Triplex pump power end lube oil pressure gauge and additional pressure gauge with direct power end lube oil system
10) Triplex pump rate (liters) and totalizer
11) Triplex pump pressure
12) Boost Pressure gauge
13) Boost control valve
14) Lo-Hi Temperature Switch
15) Lo-Hi Pressure switch protection for burner
16) Lo-Flow Safety Switch
17) Rapid fuel shut-off switch
18) Emergency shut down
19) Normal shut down
20) Lights on / off
21) Transmission shifter
22) Throttle control
23) Audio-visual Safety alarms for safe operation and protection of main equipment of the unit.

4.0 ILLUMINATION:

The unit should have an inbuilt electrical system to provide sufficient illumination to enable emergency operation during night hour operations. At least four flood lights shall be provided in the unit for all round illumination during operation.

5.0 TREATING IRON / DISCHARGE MANIFOLD:

The following items are to be supplied with this unit.
1) 2" style 10 swivel with Fig 1502 connection : 1 no.
2) 2" style 50 swivel with Fig 1502 connection : 4 nos.
3) 2" x 10' pup joint with Fig 1502 connection : 10 nos.
4) 2" x 5’ pup joint with Fig 1502 connection : 10 nos.
5) 2" check valve with Fig 1502 connection : 2 nos.
6) 2" plug valve : 2 nos. with Fig 1502 union connection male X Female end connection
7) 2" Y with Fig 1502 connection : 2 nos.
8) 4” x 10’ low pressure suction hose with connection : 4 nos.
All treating iron should be of make FMC/SPM.

6.0 TOOLS:

One set of relevant tools for operation and maintenance of the unit for all equipment, engines, pumps, associated hydraulic system, Allison transmissions, PTO, etc. to be supplied. Apart from the above the following standard tools and accessories to be supplied in a tool box:

- Pipe Wrench (size 12", 18", 24") : 3 nos. (each)
- Combination Spanners : 2 sets
- Combination Pliers : 2 nos.
- Allen Key Set : 2 nos.
- Screw Drivers (plain, Size 6" X 10") : 2 nos.
- Screw Drivers (Philips Size 6" X 10") : 2 nos.
- Fire Extinguisher : 1 no.

Special tools wrenches for Pump servicing
- Valve seat Puller : 1 set
- Aluminum ladder : 1 no.
7.0 **SPARES**

7.1 **COMMISSIONING SPARES**

The Supplier has to supply all the spare parts required for initial commissioning of the unit.

7.2 **OPERATIONAL CRITICAL SPARES:**

Supplier shall supply the following operational critical spares along with the supply of the UNIT:

i) **AUTOMOBILE SPARE PARTS LIST:**

Following spares in specified quantity as indicated shall be supplied along with the unit. Specific description, part Nos., Make etc. & unit price of each & every spares shall clearly be indicated in the bid for bid evaluation.

**A. ENGINE**

1. Fuel Filter Element - 10 Nos.
2. Water Separator Filter Element - 10 Nos.
3. Engine Lubrication Oil Filter Element - 10 Sets
4. Air Filter Element - 10 Sets
6. Fan Belt - 04 Sets
7. Alternator Belt - 04 Sets
8. Compressor Belt - 04 Sets
9. Water Pump Repair Kit - 02 Sets
10. Water Hose - 04 Sets
11. Engine Mounting - 01 Set

**B. TRANSMISSION**

1. Transmission Filter Element - 04 Sets
2. Transmission Mounting - 02 Sets
3. Gear Shifter (one inside driver’s Cabin) - 01 No.
4. Gear Shifter Repair Kit - 02 Sets
5. Gear Shifter Hoses - 02 Nos.

**C. TRANSFER CASE (if any) & POWER TAKE OFF (PTO)**

1. Oil Filter Element, if any - 04 Sets
2. Mounting - 02 Sets
3. Oil Seal - 02 Sets
4. PTO actuator Seal Kit - 05 Nos.

**D. FRONT AXLE**

1. Wheel Stud with Nuts - 20 Nos.
2. Axle Stud with Nuts - 20 Nos.
3. Wheel Hub Oil Seal - 02 Sets*
4. Wheel Hub Bearing - 01 Set*

(* set comprising of items for one wheel)
E. **REAR AXLE**

1. Wheel Stud with Nuts - 30 Nos.
2. Axle Stud with Nuts - 20 Nos.
3. Wheel Hub Oil Seal - 02 Sets*
4. Wheel Hub Bearing - 02 Sets*
5. Differential Oil Seal - 02 Sets*
6. Differential Filter Element (if any) - 02 Sets

(* set comprising of items for one wheel/differential)

F. **DRIVELINE (Propeller Shaft)**

1. UJ Cross (Spider & Bearing) - 01 Set*

(*set comprising of different UJ crosses complete for both front & rear drivelines)

G. **STEERING**

1. Steering Oil Filter Element - 02 Sets
2. Steering Pump Repair Kit - 01 Set
3. Steering Box/Cylinder Repair Kit - 03 Sets
4. Tie Rod End (for both sides) - 02 Sets

H. **BRAKE & PNEUMATICS**

1. Foot Brake Valve Repair Kit - 03 Sets
2. Servo diaphragm for Front Wheel - 04 Nos.
3. Servo diaphragm for Rear Wheel Servo - 08 Nos.
4. Air Dryer Filter Element - 08 Nos.
5. Repair Kit for all Pneumatic Valves - 01 Set each

(* set comprising of items for one servo)

I. **ELECTRICAL**

1. Engine Starter - 01 No.
2. Alternator - 01 No.

ii) **Hot Oil Unit Spares**

1. Repair kit for fuel injection system of Oil heater 1 set
2. Repair kit for electrical ignition system of oil heater 1 set
3. Valve repair kit for all sizes of valve used in the piping 1 each
4. Repair kit for blower for oil heater. 1 no
5. Solenoid valve used in the pneumatic control system for all type of solenoid valve fitted in the unit 1 set
6. Feed / circulating pump repair kit 1 set
7. Load pump repair kit 1 set
8. Repair kit tank level gauge 1 set
9. All Filter element used in hydraulic system (High Pressure & Low pressure system) 1 set
10. Joystick to control blower speed 1 no
11. Joystick to control Triplex speed 1 no
12. Plug valve repair kit (Hot oil discharge) 1 no
**Tender SDG3249P10/09**

**Triplex Pump Spares**

1. Triplex pump repair kit 3 Nos.
2. Plunger 3 Nos.
3. Stuffing box 1 No
4. Stuffing Box Seal 3 Nos.
5. Packing Nut 4 Nos.
6. Fluid Valve 3 Nos.
7. Valve Seat 3 Nos.
8. Insert, Valve 3 Nos.
9. Header Ring 3 Nos.
10. Pressure Ring 6 Nos.
11. Valve spring 3 Nos.
12. Oil Seal 4 Nos.

**INSTRUMENTATION**

1. Flow meter to measure hot oil discharge. 1 No
2. Thermo couple, cable and meter to measure discharge temp 1 set
3. Pump lube oil filter 2 nos
4. Pump lube pressure sensor 1 no
5. Pump lube temp sensor 1 no
6. Pump discharge pressure gauge 1 no

**NOTE**

a. All spares in specified quantity as indicated above shall be supplied along with the unit.

b. Specific description, Part Nos., Make etc. and Unit Price of each and every item shall clearly be indicated in the bid.

c. In case of any difference in spares for left & right wheel studs, axle studs, etc., the specified quantities will be divided into 2 (two) equal parts.

d. Bidder shall also quote separately for any additional spares with similar details as felt necessary for 2 (two) years trouble free operation and maintenance but not covered in this list for future reference/ procurement. However, these additional spares, as suggested by the bidder will not be considered for Bid evaluation purpose.

7.3 **RECOMMENDED SPARES:**

The bidder is to furnish a list of spares & components that will be required for regular operation and maintenance, overhauling etc. throughout the life of the equipment complete with price of each item. Annual consumption of each spare should be furnished. The bidder should also provide detailed spare list of all the items including bought out items in the operation and maintenance manuals. The list should include a spare parts list along with OEM part numbers, make & model of the equipment and contact postal address of OEM for all items of the whole unit. The price quoted for recommended spares will not be taken in to account for bid evaluation.

The bidder has to submit a complete spare parts list for the whole unit sub grouping major component in the following format as shown with example:

<table>
<thead>
<tr>
<th>Name of the component /sub com.</th>
<th>Description of the item</th>
<th>Part No/ID Of the item</th>
<th>Frequency of replacement (in day Hrs)</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triplex Pump</td>
<td>Plunger</td>
<td>XX YY</td>
<td>359 5000</td>
<td>GD Make</td>
</tr>
<tr>
<td>Hydraulic System</td>
<td>Pump motor and so no</td>
<td>XY X1Y1</td>
<td>10000 500</td>
<td>Rexroth-do-</td>
</tr>
</tbody>
</table>
### Instrumentation items

<table>
<thead>
<tr>
<th>Instrumentation items</th>
<th>XY</th>
<th>Make and part no of the subunits are also to be provided.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Gauges</td>
<td>X1Y1</td>
<td></td>
</tr>
<tr>
<td>Solenoid Valve</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>500</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

7.4 The bidders must submit a written undertaking (along with the bid) that they would be able to supply all the requisite spares and consumables (including bought out items) for a minimum period of 10 (ten) years from the Certified date of completion / successful field commissioning of the unit.

8.0 **UNITIZATION AND COMPLETION:**

The above unit shall be fully assembled, unitized and completed with best industrial practice. This shall include the following items:

i) Installation of all electrical systems.

ii) Installation of all pneumatic systems.

iii) Installation of all hydraulic systems.

iv) All operating oils, coolants and other operating fluids will be drained prior to shipment.

v) All fixtures to ship complete with the unit.

vi) Steel toolbox

vii) All tanks (Fuel, Hydraulic oil etc) shall be fitted with suitable filter and locking arrangement.

viii) All labor to complete unit.

ix) Workmanship should be of good quality and appearance. Following is a partial list of examples

a) Flame cut edges shall be ground smooth. Sharp corners and edges to which operators and mechanics are vulnerable shall be ground smooth.

b) Bolt holes shall be drilled (not torch cut).

c) Welds shall be of good quality and of sufficient strength.

d) Use self-locking nuts.

e) All hoses will be well supported with support type clamps.

f) All hose assemblies will have swivel ends.

g) All hoses will be protected by well secured rubber sleeves to prevent rubbing by frame, etc tagged for easy identification

h) All reservoirs constructed of steel plate with level gauge, cleanouts, vent fill cap, etc.

x) Noise level for the complete unit in running condition should not cross 90.0 db.

9.0 **STANDARDS:**

The complete pumping unit shall be built under the quality standards of

i) EURO III for vehicle

ii) ASME standards

The operations of this unit shall be covered under the

i) Government of India Ministry of Labour,

ii) Directorate General of Mines Safety, Dhanbad, India.

10.0 **TECHNICAL MANUAL AND CERTIFICATION FOR OPERATION AND MAINTENANCE OF THE UNIT:**

The following Manuals & Catalogues in printed form (in English language) shall be supplied along with the unit in addition to the supply of the same in Compact Disk (CD). Supply of the manuals/catalogues only in Compact Disk is not acceptable. Manuals/ Part Catalogues provided shall be Custom Illustrated Manuals/Catalogues for the particular vehicle and equipment only, not a general Composite Manual/Catalogue.
A. 4 (Four) sets of printed Spare Parts Catalogue and Workshop & Service Manual for all components/systems of truck chassis like engine, transmission, axles, brakes, suspension, electrical & pneumatic systems, etc. with complete schematics of electrical & pneumatic circuits.

B. 2 (two) sets of Operator’s manual for vehicle.

C. 1 (One) set of Engine Fault Diagnostic & Repair Tool manuals in case of engine with Electronic Controller System.

D. 1 (One) set of ABS Fault Diagnostic & Repair Tool manuals in case of brake with ABS.

E. The bidder has to supply 4 (Four) sets of operating, maintenance and spare parts manual detailing maintenance schedule for daily maintenance, preventive maintenance, major overhauling and frequency of spares replacement for all the components of the unit. The operation and maintenance manual should also contain details of all sub assemblies, instrument sensors, wiring diagram hydraulic schematics with colour code and entire requisite spare parts with part no (Preferably OEM part no. with detail contact address).

F. 4 (Four) copies of all relevant test and quality control certificates of the manufacturing and testing of all unit functions and parameters shall be supplied.

G. 4 (Four) sets of all relevant test and calibration certificate for each instrument shall be supplied along with the unit.

H. The necessary licensed software in original packages along with user software backups are also to be supplied

COMMISSIONING OF THE UNIT SHALL NOT BE CONSIDERED AS COMPLETE UNTIL & UNLESS ALL ABOVE PRINTED MANUALS / CATALOGUES ARE SUPPLIED

11.0 INSPECTION CUM ACCEPTANCE

1) THIRD PARTY INSPECTION:

   Independent Third Part Inspection of the unit is to be carried out for all the component of the unit by an internationally reputed Inspection agency in their area furnishing the following information:

   a) Name of the Inspection Agency (OIL’s clearance has to be obtained prior to engagement except for M/s. Lloyds, M/s. Bureau Veritas, M/s. Tuboscope Vetco, M/s. IRS, M/s. Rites and M/s. DNV).

   b) All inclusive charges for Third Party Inspection which will be considered for Bid evaluation purpose.

   Scope of Third Party Inspection will be as under:

   i) Witness the manufacturing and assembly.

   ii) Witness the functional and performance tests.

   Any other requirement of the inspection agency to satisfy of the equipment as per applicable standards.

2) Pre shipment inspection shall be carried out by OIL (by representative of user as well as service dept viz. Instrumentation, Transport Dept. Field Engineering etc.) at manufacturer’s site. The supplier shall inform OIL at least 2 (two) months ahead for such inspection to enable OIL to send its inspectors. The supplier has to arrange for inspection of the unit by a team of 5 (five) OIL’s engineers. OIL will bear the expenses towards traveling and accommodation etc. of the OIL’s inspection team. The Inspection cum Acceptance process would include the following minimum steps/tasks but not limited to -

   a. Physical verification/inspection of all the items/fittings/accessories including all Parts Catalogue, Maintenance & Service Manuals, Final Chassis Built Up/Vehicle Content Record documents, etc. and actual loading on axles. The supplier shall arrange driver/operator, weighing facility and any other infrastructure during the process of inspection as and when required.
b. Operational testing of the carrier.
c. Supplier shall have to take note of any minor modification(s) for operational requirement suggested by the inspector and comply with the same at no extra cost to OIL.
d. The inspection report would be prepared at the end of the inspection and jointly signed by both the parties.
e. Supplier shall confirm in writing compliance of all the points raised in the inspection report as well as any other subsequent additions/changes, following deliberation with the inspector after arrival at Duliajan.
f. Supplier will affect despatch of the unit only on receipt of OIL’s despatch advice.

12.0 TRAINING TO OIL PERSONNEL ON HOCU SYSTEM:

The supplier shall have to provide training to OIL personnel in two phases -

12.1 During the pre-despatch inspection visit of OIL’s engineers, the supplier shall arrange comprehensive training at their manufacturing plant/works for a period of minimum 2 (two) weeks on Operation & Maintenance, Troubleshooting and Working Principle of followings systems/items used in the unit amongst other relevant subjects –

i) Engine and its Electronic Controller System.
ii) Transmission, Transfer Case and their control systems.
iii) Brake & ABS - including their electronic control system.
iv) Power assisted steering system including hydraulic pump and gearbox.
v) Pneumatic system for brake, transmission, PTO shifters including different valves.
vi) Hydraulic system.
vii) Control Panel.
viii) HOCU operation & trouble shooting.
ix) Repairing and Maintenance of Triplex Pumps, Booster pump, Heat Generator etc.

12.2 During installation and commissioning of the unit, the commissioning engineer shall have to provide field training as well as class room training for a period of 1(one) week to OIL Engineers and technicians on Maintenance, troubleshooting, Working Principle and repair/ replacement of different equipment.

Bidders should quote their training charges separately for evaluation purposes.

13.0 COMMISSIONING:

13.1 The unit shall be commissioned at Duliajan, Assam, India with 3 (three) successful field jobs at different wells within a period of 2(two) weeks time.
13.2 Bidder must quote for commissioning charges which should include the to and fro charges, food & lodging and daily charges of the personnel. OIL will provide accommodation (on payment basis) subject to availability. OIL will provide local transportation to the commissioning personnel.
13.3 The commissioning engineer should be available at site within 15 days of the intimation given by OIL for commissioning the unit.

13.4 Bidders should quote commissioning charges separately for evaluation purposes.

14.0 DEVIATIONS FROM THE SPECIFICATIONS:

The bidder shall enclose comprehensive list of intended deviations from the technical specifications, of any clearly highlighting the reasons thereof, along with the bid. If no deviations from the Technical
specifications are intended, the same shall be confirmed in the offer. But OIL reserves the right for acceptance or rejection of the deviation.

15.0 BID SUBMISSION & DOCUMENTATION:

Bidder’s response to all NIT stipulations should clearly be defined maintaining the same sequence as in the NIT. Bidder shall furnish specific details / specifications of all major components, systems with Make & Model etc. Submission of technical leaflet/catalogue alone is not sufficient. General Response like- ‘As per NIT Specifications / Technical Leaflet’, ‘Noted’ etc. or in any similar fashion is not encouraged. Quoting only the NIT stipulation without any confirmation of acceptance of the same and/or without any confirmation of offering the same is also not acceptable.

15.1 Following documents shall be submitted along with bid for evaluation –

1. Technical leaflets with detailed specifications, Make & Model of chassis, engine, transmission, power take off, transfer case (if any), axle, suspension, steering, brake, pump, heating system etc.
2. Detail dimensional layout drawing(s) illustrating Driver’s Cabin & position of all major components & their mounting on the vehicle.
3. List of items that shall be supplied under the Engine Fault Diagnostic & Repair Tool (both Software as well as complete Hardware).
4. List of items that shall be supplied under brake ABS Diagnostic & Repair Tool (both Software as well as complete Hardware).
5. List of tools that shall be supplied under Standard Tool Kit for general maintenance of the truck.
6. Specific description, Part Nos., Make, etc. & Unit Price of each and every spares (for bid evaluation) as detailed in the Operationally critical Spares List provided in para 7.2 above.
7. List of Recommended Spares in para 7.3 above.
8. Checklist as per enclosed format shall be furnished along with the bid.

15.2 Following documents are to be submitted along with supply / unit: Bidder has to confirm the same in the technical bid.

a. Sale Letter, Pollution & Roadworthy Certificate (in similar format of Form 21 & 22A of Indian Motor Vehicle Act - sample copies enclosed), Engine Emission Norms Certificate, etc. as required under Indian Motor Vehicle Act for registration of the unit in the name of Oil India Limited.
b. Final Chassis Built Up/Vehicle Content Record documents from chassis manufacturer.
c. Specification Sheet of unit indication all details viz Make & Model of chassis, engine, transmission, etc, GVWR, Axle Capacity, Axle Loading, Wheelbase, etc., number of Axles, wheels & tyres, etc., overall dimensions, turning radius, etc.
d. Certificate of Origin for the chassis in original from chassis manufacturer. Amongst others, the certificate shall contain following information –

i. Make & Model of Chassis.
ii. Vehicle Identification Number (VIN i.e. Chassis No.)
iii. Month & Year of Manufacture of the chassis.
iv. Make & Model of Engine.
v. Serial No. of Engine.
vi. Month & Year of Manufacture of the engine.
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e. Notwithstanding any clause mentioned elsewhere in the NIT, the invoice for the complete unit shall be submitted in 2 (two) parts separately as under -

i. **Invoice for truck chassis** - it shall include the cost of the truck chassis with driver’s cabin only.

ii. **Invoice for Hot Oil Circulation unit** - it shall include cost of all equipment of Pumping unit, tools, accessories, etc. subsequently fitted in the original truck chassis as well as supplied separately along of the unit.

**General Notes for Bidders :-**
(Bidders should confirm each & every point clearly. Deviations, if any, should be highlighted in the quotation.)

1.0 Bidder should indicate the name of manufacturer & country of origin.
1.1 Materials shall be brand new, unused & of prime quality.

2.0 The bidders must submit a written undertaking that they would be able to supply all the requisite spares and consumables (including bought out items) for a minimum period of 10 (ten) 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.

3.0 **After Sales Service**:
The nature of after sales service, which the supplier can provide during initial commissioning and also subsequently should be clearly stated.

4.0 **Warranty / Guarantee**:
The offered items/complete unit, in the event of an order, must be under guarantee / warrantee by the bidder for a minimum period of not less than 18 months from the date of dispatch or 12 months from the date of successful commissioning of the complete unit at site, whichever is earlier. Defective goods / materials or parts notified by OIL to the Seller shall be replaced immediately by the Seller on F.O.R destination basis including payment of all taxes and duties at Seller's expense. This guarantee shall survive and hold good notwithstanding inspection, payment for and acceptance of the goods.

OIL reserves the right to inspect, test and if necessary reject any part / parts after delivery at site (including incomplete manuals, catalogues, etc.) in case of any fault on the part of the supplier. It shall in no way be waived by the reason that the unit / item was previously inspected and passed by OIL as per Inspection Clause detailed elsewhere in the NIT.

To keep the unit fully operational, in case of failure of any item during the warranty period, it shall be the supplier's responsibility to arrange replacement / repairing at site at their cost including customs, freight, etc. within a period of maximum 3 (three) weeks from the date of notification of such failure and warranty for such items shall be extended accordingly.

5.0 **Installation & Commissioning**:

5.1 The successful bidder will be required to install and commission the Hot Oil Circulation unit (HOCU) with Heat-Generator unit as indicated in the NIT vide Para 13.0 above by their competent service engineer.

5.2 Installation/ Commissioning charges must be quoted separately on lumpsum basis which shall be considered for evaluation of the offers. Total Nos. of days required for commissioning shall also be clearly indicated by the bidders.
6.0 Training at Duliajan:
   i) During installation and commissioning of the unit, the commissioning engineer shall have to provide field training as well as class room training for a period of 1(one) week to OIL Engineers and technicians on Maintenance, troubleshooting, Working Principle and repair/ replacement of different equipment.
   ii) Training charges shall be quoted separately which shall be considered for evaluation of the offers.

6.1 Installation/Commissioning and Training charges, if any, should be quoted separately (and should not be clubbed together with main software) which shall be considered for evaluation of the offers.

6.2 While quoting Installation/Commissioning, on-site Training/expert charges above, bidder should take into account all charges including to and fro fares, boarding/lodging, local transport at Duliajan, Assam and other expenses of supplier's personnel during their stay at Duliajan. OIL may provide accommodation on Chargeable basis subject to availability. Bidder should confirm about providing all these services in their Bid. However, OIL reserves the right to avail such services at its own discretion.

7.0 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, training etc. shall be deducted at source from the invoices at the appropriate rate under the I.T. Act & Rules from time to time.

8.0 Payment:
   i) 80 % of the order value shall be paid against dispatch / shipment of the goods.
   ii) Balance 20 % of the order value along with the commissioning charges shall be paid after successful commissioning and acceptance of the item by OIL.

   OIL may also consider 100 % payment against shipment / despatch document provided bidder agree to pay the interest for 20 % of order value and also submit Bank Guarantee equivalent to 20 % of the order value in addition to the Performance Security of 10 %.

   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.

9.0 Oil India Purchase Order No. must be engraved on the body of the item. Bidder must confirm the same categorically in their quotation.

9.1 To ascertain the substantial reponsiveness of the bid OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in toto must be received on or before the deadline given by the company, failing which the offer will be summarily rejected.

9.2 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.
9.3 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). 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.

9.4 The following clause to be added as para 13.3 of Section A of General terms and Condition for Global Tender (MM/GLOBAL/E-01/2005).

Clause 13.3: In the event of receipt of only a single offer against the tender within B.C. date, OIL reserves the right to extend the B.C. date as deemed fit by the company. During the extended period, the bidders who have already submitted the bids on or before the original B.C. date, shall not be permitted to revise their quotation.
BID REJECTION CRITERIA (BRC)

The bid must conform to the specifications and terms and conditions given in the enquiry. Bid will be rejected in case the items offered do not conform to all the required technical 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 shall have to be particularly met by the bidders, without which the offer will be considered as non-responsive and rejected.

A. Technical

1.0 Bidder’s Qualification

1.1 The bidder may be an Original Equipment Manufacturer (OEM) having experience in manufacturing of Hot Oil Circulation Unit (HOCU).

OR

1.2 The bidder may be an authorized dealer of OEM.

2.0 Bidder’s Experience

a. The OEM should have the experience of successful completion (including commissioning of the equipment) of at least one order in the last 5 (five) years preceding from the bid closing date of this tender against supply, installation & commissioning of Hot Oil Circulation Unit (HOCU). The OEM’s (Original Equipment Manufacturer) documentary evidence in this regard must be provided in the form of copy of Purchase Order, Commissioning Report / Completion Certificate from the Clients along with the bid.

b. In case of authorized dealer, the Bidder must be in the business of supply, installation and commissioning of Hot Oil Circulation Unit (HOCU) for the last 5 years preceding from the bid closing date of this tender. As a proof of evidence, the Bidders must furnish a list of installations carried out by them during last 5 years preceding from the bid closing date of this tender including customer contact details. The bidder shall submit the valid authorization certificate in original from the OEM along with the bid, failing which offer will be rejected. The OEM must have experience of manufacturing of Hot Oil Circulation Unit (HOCU) in the last 5 years preceding from the bid closing date of this tender. The OEM’s (Original Equipment Manufacturer) documentary evidence in this regard must be provided in the form of copy of Purchase Order, Commissioning Report / Completion Certificate from the Clients along with the bid.

3.0 Conformity to the NIT specifications:

3.1 Bidder must fill the Technical datasheet enclosed with the offer.

3.2 The total axle capacity shall be at par with the GVW with all equipment.

3.3 The offered engine shall conform to minimum EURO-III or equivalent Emission Norms and of make Caterpillar/ International / Cummins/ Volvo only as per clause no 1.2 of the technical specification.
3.4 Detailed specifications of all the systems including Mechanical, Electrical, Pneumatic and Hydraulic should be provided.

3.5 The bids and the accompanied technical documentation must be in English language only. The bids with other than English language must have an English version.

3.6 Bidder must undertake that the provision for supplying spares (including bought out items) of the equipment will be continued for next ten (10) years from the certified date of completion / successful field commissioning of the unit.

3.7 Bidders offering other than the specified make of the equipment will be rejected.

3.8 The bidders must confirm that the offered Hot Oil Circulation Unit (HOCU) shall perform at the desired rate and parameters as mentioned in clause No. 2.0 of the technical specification.

3.9 The bidders are to confirm categorically the commissioning clause as mentioned in 13.0 of the technical specification.

(B) COMMERCIAL:

1.0 Bids are invited under Single Stage Two Bid System. Bidders shall quote accordingly under Single Stage Two Bid System. Any offer not complying with the above will be rejected straightway.

2.0 Bid security of US $ 12,000.00 or Rs. 5,00,000.00 shall be furnished as a part of the TECHNICAL BID. Any bid not accompanied by a proper bid security in ORIGINAL will be rejected without any further consideration. For exemption for submission of Bid Security, please refer Clause No. 9.8(Section A) of General Terms and Conditions for Global Tender vide MM/GLOBAL/01/2005(enclosed). The Bid Security shall be valid for 240 days from the date of bid opening.

3.0 Validity of the bid shall be minimum 6 months (180 days). Bids with lesser validity will be rejected.

4.0 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 eighteen months from the date of shipment/dispatch or twelve months from the date of commissioning whichever is earlier 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 at no extra cost to OIL.

5.0 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 receipt/acceptance of goods or 18 months from the date of shipment whichever is earlier. Bidder must confirm the same in their Technical Bid. Offers not complying with this clause will be rejected.

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

(i) Commercial Bid Format (SUMMARY) for Foreign Bidders:

(A) Total Material value of the unit including commissioning spares

(B) Operationally Critical Spares as per Clause 7.2 of Annexure – I
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(C) Third Party Inspection Charge
(D) Pre-Despatch Inspection, Testing and Training charges, if any
(E) Grand Total Material Value including above Charges
(F) Packing & FOB Charges
(G) Total FOB Port of Shipment value
(H) Ocean Freight upto Kolkata port, India
(I) Insurance Charges
(J) Total CIF Kolkata value, (G + H + I)
(K) Installation / Commissioning & Testing charges
(L) Training charges
(M) Total Value, (J + K + L) above
(N) Total value in words:
(O) Gross Weight:
(P) Gross Volume:

(ii) **Commercial Bid Format (SUMMARY) for Indigenous Bidders:**

(A) Total Material value of the unit including commissioning spares
(B) Operationally Critical Spares as per Clause 7.2 of Annexure – I
(C) Third Party Inspection Charge
(D) Pre-Despatch Inspection, Testing and Training charges, if any
(E) Grand Total Material Value including above Charges
(F) Packing and Forwarding Charges
(G) Total Ex-works value, (E + F) above
(H) Excise Duty with Education Cess, (Please indicate applicable rate of Duty)
(I) Sales Tax, (Please indicate applicable rate of Tax)
(J) Total FOR Despatching station price, (G + H + I) above
(K) Road Transportation charges to Duliajan
(L) Insurance Charges
(M) Assam Entry Tax
(N) Total FOR Duliajan value, (J + K + L + M) above
(O) Installation / Commissioning & Testing charges
(P) Training charges
(Q) Total Value, (N + O + P) above
(R) Total value in words:
(S) Gross Weight:
(T) Gross Volume:

**NOTE:**
1. Cost of individual items must be quoted separately.
2. The Commissioning Spares and Operationally Critical Spares should also be quoted separately indicating the unit price and quantity quoted.
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.

7.0 Pre-Despatch / Shipment Inspection & Testing 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.
Installation/Commissioning and Training 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. **TECHNICAL**:

All materials as indicated in the material description of the enquiry should be offered. If any of the items are not offered by the bidders, the offer will not be considered for evaluation.

B. **COMMERCIAL**:

1.0 The evaluation of bids will be done as per the Price Schedule (SUMMARY) detailed vide Para 6.0 of BRC (Commercial).

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 bids are involved**:

Comparison of bids will be done on the basis of “Total Value” which is estimated as under:

(A) Total Material value of the unit including commissioning spares
(B) Operationally Critical Spares as per Clause 7.2 of Annexure – I
(C) Third Party Inspection Charge
(D) Pre-Despatch Inspection, Testing and Training charges, if any
(E) Grand Total Material Value including above Charges, (A + B + C + D )
(F) Packing & FOB Charges
(G) Total FOB Port of Shipment value, (E+F ) above
(H) Ocean Freight upto Kolkata port, India
(I) Insurance Charges @ 1% of Total FOB Value, (G) above
4.2 When only domestic bids are involved:

Comparison of bids will be done on the basis of “Total Value” which is estimated as under:

(A) Total Material value of the unit including commissioning spares
(B) Operationally Critical Spares as per Clause 7.2 of Annexure – I
(C) Third Party Inspection Charge
(D) Pre-Despatch Inspection, Testing and Training charges, if any
(E) Grand Total Material Value including above Charges
(F) Packing and Forwarding Charges
(G) Total Ex-works value, (E + F) above
(H) Sales Tax, as applicable on (G) above
(I) Total FOR Despatching station price, (G + H) above
(J) Road Transportation charges to Duliajan as per quote
(K) Insurance Charges @0.5% of Total FOR Despt Station Value, (I) above
(L) Total FOR Duliajan value, (I + J + K) above
(M) Installation / Commissioning & Testing charges
(N) Training Charges
(O) Total Value, (L + M + N) above
(P) Total value in words:

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

4.3 When both Foreign and Domestic bids 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 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 excluding inland transportation to destination 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 actual, whichever is less subject to 30% local content norms as stipulated for World Bank Funded projects 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.

5.0 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). 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.
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 TICK MARK ‘YES’ OR ‘NO’ TO THE FOLLOWING QUESTIONS, IN THE RIGHT HAND COLUMN.

(A) TECHNICAL CHECK LIST

Part A  TECHNICAL

A1.1 TRUCK

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>PARAMETERS / REQUIREMENTS</th>
<th>BIDDER’S OFFER (To indicate details or yes/no, as applicable)</th>
<th>REMARKS, IF ANY</th>
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<tbody>
<tr>
<td>1</td>
<td>Make &amp; Model of Chassis</td>
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<td>2</td>
<td>Max. Permissible Gross Vehicle Weight (GVWR)</td>
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<td>3</td>
<td>Drive</td>
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<td>4</td>
<td>Wheelbase</td>
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<tr>
<td>5</td>
<td>Overall Dimensions (Width, Height &amp; Length) of complete unit</td>
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<td>6</td>
<td>Ground Clearance</td>
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<td>7</td>
<td>Laden Weight (Total weight of the unit)</td>
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<td>8</td>
<td>Engine</td>
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<td>9</td>
<td>Transmission (Main)</td>
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<td>10</td>
<td>Make, Model &amp; Type of Transmission Shifter</td>
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<td>11</td>
<td>Make &amp; Model of Transfer Case, if any</td>
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<td>Total number of PTOs in operation</td>
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<td>Make &amp; Model of PTOs</td>
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<td>Make, Model &amp; Type of Steering System</td>
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<td>a Front</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>b Rear</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Axle Loading (actual loading)</td>
<td>a Front</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>b Rear</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Axle Loading within 85% of capacity.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Type, Size of Wheel &amp; Tyre</td>
<td>a Front</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>b Rear</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Type of Service Brake (S-cam or not)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sl. No.</td>
<td>PARAMETERS / REQUIREMENTS</td>
<td>BIDDER’S OFFER (To indicate details or yes/no, as applicable)</td>
<td>REMARKS, IF ANY</td>
</tr>
<tr>
<td>--------</td>
<td>--------------------------</td>
<td>-------------------------------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>1</td>
<td>Make &amp; model of pump, Maximum Working Pressure against clause no. 2.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Maximum discharge pressure, delivery rate, working temperature against clause no. 2.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Suction and Discharge manifold against clause no. 2.1 and 2.2</td>
<td></td>
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</tr>
<tr>
<td>4</td>
<td>Booster Pump / Feed Pump against clause no. 2.3</td>
<td></td>
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<tr>
<td>5</td>
<td>Loading &amp; Unloading Pump against clause no. 2.4</td>
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<tr>
<td>6</td>
<td>Fluid Tank against clause no. 2.5</td>
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<td>7</td>
<td>Fuel Pump against clause no. 2.6</td>
<td></td>
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</tr>
<tr>
<td>8</td>
<td>Burner/Heating system against clause no. 2.7</td>
<td>Out let fluid temperature</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Burner rated capacity</td>
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<tr>
<td></td>
<td></td>
<td>CO2 fire protection system</td>
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</tr>
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<td>9</td>
<td><strong>Hydraulic System</strong></td>
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<tr>
<td></td>
<td></td>
<td>Hydraulic system</td>
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<td></td>
<td></td>
<td>Hydraulic control valve direction</td>
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<tr>
<td></td>
<td></td>
<td>Make</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Maximum design temperature for hydraulic oil cooler</td>
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</tr>
<tr>
<td>10</td>
<td>Control Panel and Instrumentation system as per clause no. 3.0 and 3.1</td>
<td>Control system</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Type of Different gauges</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Anti vibration pad with control panel</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Control parameters installed</td>
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</tr>
<tr>
<td>11</td>
<td>Illumination as per clause no 4.0</td>
<td></td>
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</tr>
<tr>
<td>12</td>
<td>Treating iron as per clause no 5.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Tools as per clause no 6.0</td>
<td></td>
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</table>
Tender SDG3249P10/09

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>DESCRIPTIONS</th>
<th>DOCUMENT ENCLOSED (Yes or No)</th>
<th>REMARKS, IF ANY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Technical leaflets with detailed specifications, Make &amp; Model of chassis, engine, transmission, transfer case (if any), PTOs, suspension, axle, steering, wheel &amp; rim, brake, etc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Detailed dimensional layout drawing illustrating Driver’s Cabin and all major items / components.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>List of items that shall be supplied under Engine Fault Diagnostic &amp; Repair Tool (both Software as well as complete Hardware).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>List of items that shall be supplied under ABS Fault Diagnostic &amp; Repair Tool (both Software as well as complete Hardware).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Technical literature with detailed specifications of Gardner Denver pumps, safety relief valves and pressure gauge</td>
<td></td>
<td></td>
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<tr>
<td>6</td>
<td>Technical literature with detailed specifications of booster pump, drive mechanism</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Technical literature with detailed specifications for loading and unloading pumps</td>
<td></td>
<td></td>
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<tr>
<td>8</td>
<td>Technical literature with detailed specifications, layout drawing, design data sheet for burner / heating system.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Technical literature with detailed specifications and hydraulic circuit drawing illustrating pumps, control valves and actuators of hydraulic pumps, hydraulic motors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>List of tools that shall be supplied under Standard Tool Kit for general maintenance of the truck.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Specific description, Part Nos., Make, etc. and Unit Price of each and every spares as detailed in the Operational critical Spare Parts List.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>List of any additional spares with details as felt necessary for 2 (two) years trouble free operation and maintenance but not covered in this list of Operational Critical Spares for future reference/ procurement- NOT FOR BID EVALUATION.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Relevant test and quality control certificates of the manufacturing and testing of all unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Specific description, Part Nos., Make, etc. and Unit Price of each and every spares for pumps, control panel etc.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Signature: _______________________
Name: _______________________
Designation: ___________________
This is a sample copy similar to FORM 21 of Indian Motor Vehicle Act only. The certificate to be issued by supplier shall contain following minimum information.

SALE CERTIFICATE

Certified that …………………………………………………. (brand name of the vehicle) has been delivered by us to …………….……….. on ………………… (date).

Name of the buyer………………………………………………………….
Address……………………………………………………………………

The details of the vehicles are as under :-

1. Class of vehicle…………………………………………………………
2. Maker’s name & address………………………………………………
3. Chassis No.………………………………………………………………
4. Engine No.………………………………………………………………
5. Horse power or cubic capacity…………………………………………
6. Fuel used………………………………………………………………
7. Number of cylinders……………………………………………………
8. Month and year of manufacturing……………………………………
9. Seating capacity (including driver)……………………………………
10. Unladen weight………………………………………………………
11. Maximum axle weight, number and description of tyres –
   (a) Front axle…………………………………………………………
   (b) Rear axle/axles…………………………………………………..
   (c) Any other axle…………………………………………………..
12. Colour(s) of the body…………………………………………………
13. Gross vehicle weight…………………………………………………
14. Type of body…………………………………………………………

Date: …………………Signature of the manufacturer / dealer
This is a sample copy similar to FORM 22(A) of Indian Motor Vehicle Act only. The certificate to be issued by supplier shall contain following minimum information.

CERTIFICATE OF COMPLIANCE WITH POLLUTION STANDARDS /
SAFETY STANDARDS OF COMPONENTS AND ROAD WORTHINESS

Certified that ……………………………………………… (brand name of the vehicle) bearing Chassis number ………………… and Engine number ……………………….. complies with the ……………………. (name of Emission Standard – Euro III, etc.) Emission standard as well as other Safety & Road Worthiness Standards as per provisions of the ……………………………………………….. (name of Motor Vehicles Act of country of origin).

It is also certified that body of the above vehicle has been fabricated by us and the same complies with the provisions of the ……………………………………………….. (name of Motor Vehicles Act of country of origin).

Signatures of Manufacturer / Body Builder
# 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.

<table>
<thead>
<tr>
<th>Sl#</th>
<th>REQUIREMENT</th>
<th>COMPLIANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>Whether bid submitted under Single Stage Two Bid System?</td>
<td>Yes / No</td>
</tr>
<tr>
<td>2.0</td>
<td>Whether quoted as manufacturer?</td>
<td>Yes / No</td>
</tr>
<tr>
<td>2.1</td>
<td>Whether quoted as Supply House / Distributor. To Specify-</td>
<td>Yes / No</td>
</tr>
<tr>
<td>2.2</td>
<td>If quoted as Supply House / Distributor,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(a) Whether submitted valid and proper authorization letter from manufacturer confirming that bidder is their authorized Supply House for the product offered?</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(b) Whether manufacturer’s back-up Warranty/Guarantee certificate submitted?</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>Whether ORIGINAL Bid Bond (not copy of Bid Bond) Sent separately? If YES, provide details</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(a) Amount :</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(b) Name of issuing Bank :</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(c) Validity of Bid Bond :</td>
<td></td>
</tr>
<tr>
<td>3.1</td>
<td>Whether offered firm prices?</td>
<td>Yes / No</td>
</tr>
<tr>
<td>3.2</td>
<td>Whether quoted offer validity of Six months from the date of closing of tender?</td>
<td>Yes / No</td>
</tr>
<tr>
<td>3.3</td>
<td>Whether quoted a firm delivery period?</td>
<td>Yes / No</td>
</tr>
<tr>
<td>3.4</td>
<td>Whether agreed to the NIT Warranty clause?</td>
<td>Yes / No</td>
</tr>
<tr>
<td>3.5</td>
<td>Whether confirmed acceptance of tender Payment Terms of 80% against shipment/dispatch documents and balance 20% after successful commissioning along with commissioning charges?</td>
<td>Yes / No</td>
</tr>
<tr>
<td></td>
<td>Whether confirmed to submit PBG as asked for in NIT?</td>
<td>Yes / No</td>
</tr>
<tr>
<td>3.61</td>
<td>Whether agreed to submit PBG within 30 days of placement of order?</td>
<td>Yes / No</td>
</tr>
<tr>
<td>3.7</td>
<td>Whether Price submitted as per Price Schedule (refer Para 6.0 of BRC vide Annexure – II)?</td>
<td>Yes / No</td>
</tr>
<tr>
<td>3.71</td>
<td>Whether the quoted price is inclusive of TEG, Commissioning &amp; operationally critical spares?</td>
<td>Yes / No</td>
</tr>
<tr>
<td>3.72</td>
<td>Whether all the items of tender quoted?</td>
<td>Yes / No</td>
</tr>
<tr>
<td>3.73</td>
<td>Whether confirmed that all spares &amp; consumables will be supplied for a minimum period of 10 years?</td>
<td>Yes / No</td>
</tr>
<tr>
<td>3.74</td>
<td>Whether cost of Recommended Spares for 2 years of operations quoted?</td>
<td>Yes / No</td>
</tr>
<tr>
<td>3.8</td>
<td>Whether quoted as per NiT (without any deviations)?</td>
<td>Yes / No</td>
</tr>
<tr>
<td>3.81</td>
<td>Whether quoted any deviation?</td>
<td>Yes / No</td>
</tr>
<tr>
<td>3.82</td>
<td>Whether deviation separately highlighted?</td>
<td>Yes / No</td>
</tr>
<tr>
<td>3.9</td>
<td>Whether indicated the country of origin for the items quoted?</td>
<td>Yes / No</td>
</tr>
<tr>
<td>3.91</td>
<td>Whether technical literature / catalogue enclosed?</td>
<td>Yes / No</td>
</tr>
<tr>
<td>3.92</td>
<td>Whether weight &amp; volume of items offered indicated?</td>
<td>Yes / No</td>
</tr>
<tr>
<td>Section</td>
<td>Question</td>
<td>Yes / No</td>
</tr>
<tr>
<td>---------</td>
<td>---------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>4.0</td>
<td>For Foreign Bidders - Whether offered FOB / FCA port of despatch including sea / air worthy packing &amp; forwarding?</td>
<td></td>
</tr>
<tr>
<td>4.1</td>
<td>For Foreign Bidders – Whether port of shipment indicated. To specify:</td>
<td></td>
</tr>
<tr>
<td>4.2</td>
<td>For Foreign Bidders only - Whether indicated ocean freight up to Kolkata port (Excluding marine insurance)?</td>
<td></td>
</tr>
<tr>
<td>4.3</td>
<td>Whether Indian Agent applicable?</td>
<td></td>
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<td></td>
<td>If YES, whether following details of Indian Agent provided?</td>
<td></td>
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<tr>
<td></td>
<td>(a) Name &amp; address of the agent in India – To indicate</td>
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<td></td>
<td>(b) Amount of agency commission – To indicate</td>
<td></td>
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<tr>
<td></td>
<td>(c) Whether agency commission included in quoted material value?</td>
<td></td>
</tr>
<tr>
<td>5.0</td>
<td>For Indian Bidders – Whether indicated the place from where the goods will be dispatched. To specify:</td>
<td></td>
</tr>
<tr>
<td>5.1</td>
<td>For Indian Bidders – Whether road transportation charges up to Duliajan quoted?</td>
<td></td>
</tr>
<tr>
<td>5.2</td>
<td>For Indian Bidders only - Whether offered Ex-works price including packing/forwarding charges?</td>
<td></td>
</tr>
<tr>
<td>5.3</td>
<td>For Indian Bidders only - Whether indicated import content in the offer?</td>
<td></td>
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<tr>
<td>5.4</td>
<td>For Indian Bidders only - Whether offered Deemed Export prices?</td>
<td></td>
</tr>
<tr>
<td>5.5</td>
<td>For Indian Bidders only – Whether all applicable Taxes &amp; Duties have been quoted?</td>
<td></td>
</tr>
<tr>
<td>6.0</td>
<td>Whether all BRC/BEC clauses accepted?</td>
<td></td>
</tr>
<tr>
<td>7.0</td>
<td>Whether confirmed to offer the equipment for Pre-despatch/shipment Inspection &amp; testing?</td>
<td></td>
</tr>
<tr>
<td>7.1</td>
<td>Whether Pre-despatch/shipment inspection &amp; testing charges applicable?</td>
<td></td>
</tr>
<tr>
<td>7.2</td>
<td>If Pre-despatch/shipment inspection &amp; testing charges applicable, whether quoted separately on lumpsum basis?</td>
<td></td>
</tr>
<tr>
<td>7.3</td>
<td>Whether confirmed to carry out Installation &amp; Commissioning of the equipment at Duliajan(Assam)?</td>
<td></td>
</tr>
<tr>
<td>7.4</td>
<td>Whether Installation &amp; Commissioning charge applicable?</td>
<td></td>
</tr>
<tr>
<td>7.5</td>
<td>If Installation/ Commissioning and Training charges applicable, whether separately quoted on lumpsum basis?</td>
<td></td>
</tr>
<tr>
<td>7.6</td>
<td>Whether to &amp; fro air fares, boarding/lodging of the commissioning personnel at Duliajan, Assam(India) included in the quoted charges?</td>
<td></td>
</tr>
<tr>
<td>7.7</td>
<td>Whether confirmed that all Service, Income, Corporate tax etc. applicable under Installation/ Commissioning &amp; Training are included in the prices quoted?</td>
<td></td>
</tr>
</tbody>
</table>

Signature: _______________________
Name: _______________________
Designation: _______________________
