



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

Telephone No. (91-374) 2800491

Fax No: (91-374) 2800533

Email: materials@oilindia.in ; erp_mm@oilindia.in; mmfd1@oilindia.in

Tender No. : SDG3607P15/09

Tender Fee : INR 4,500.00 OR USD 100.00

Bid Security : Applicable

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:

Item No. / Mat. Code	Material Description	QTY.	UO M
10	HIGH SPEED LINEAR MOTION SHALE SHAKERS (LMSS) & LINEAR MOTION MUD CLEANER (LMMC) PACKAGE. EACH SET CONSISTING OF 2 (TWO) UNITS OF LMSS, 1(ONE) UNIT OF LMMC & 1 (ONE) SUITABLE TWO WAY FLOW DIVIDER 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	6 (SIX)	SET

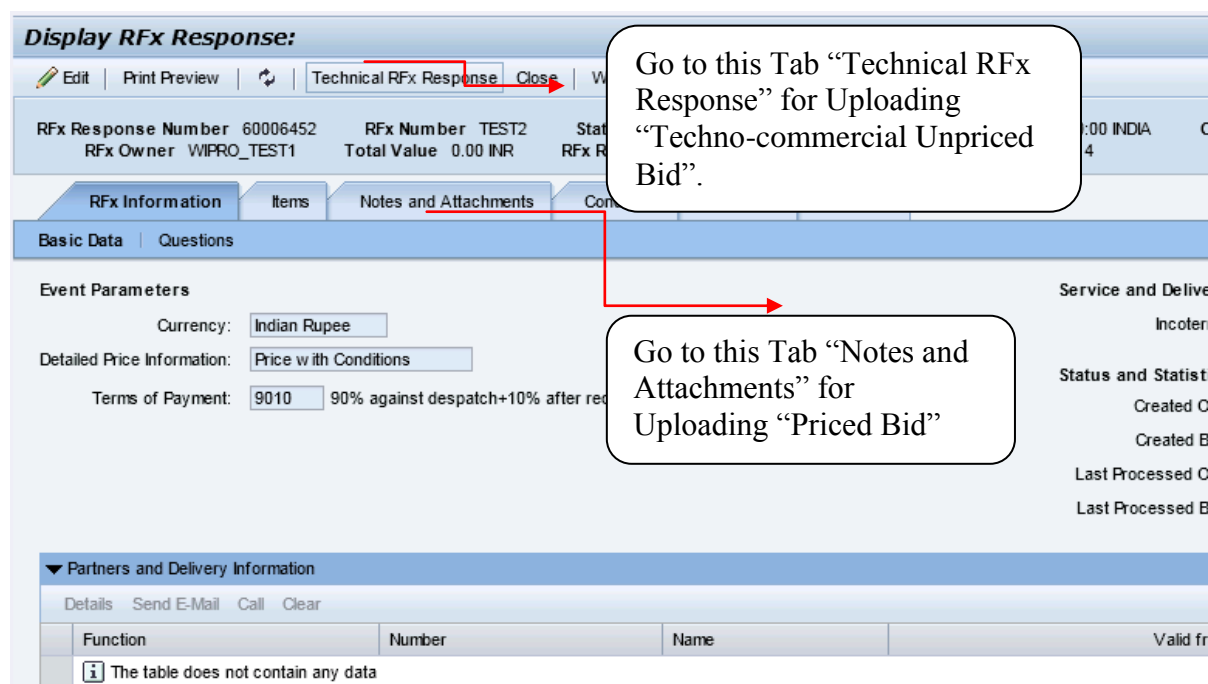
Special Notes :

- 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”.

Tender No. SDG3607P15/09

- 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.
- Original Bid Security (As per Annexure VII Revised format).
 - Details Catalogue and any other document which have been specified to be submitted in original.
- 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:

Edit RFX Response:

Submit | Read Only | Print Preview | Check | Technical RFX Response | Close | Save

Bid on "EDIT" Mode

RFX Response Number 60006452 RFX Number TEST2 Status Withdrawn Submission Deadline 13.04.2013 11:00:00 INDIA
RFX Owner WIPRO_TEST1 Total Value 0.00 INR RFX Response Version Number 2 RFX Version Number 5

RFX Information | Items | **Notes and Attachments** | Conditions

Area for uploading Techno-Commercial Unpriced Bid*

▼ Notes

Add ▾ Clear

Assigned To	Category	Text Preview

▼ Attachments

Sign Attachment | Add Attachment | Edit Description | Versioning ▾ | Delete | Create Qual

Assigned To	Category	Description	File Name	Version	Processor	Checked
The table does not contain any data						

Area for uploading Priced Bid**

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 Attachment, a browser window will open, select the .SSIG signed file from the PC and name the file under Description, Assigned to General Data and click 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 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. Any bid not accompanied by Integrity Pact Proforma duly signed (digitally) by the bidder shall be rejected straightway. 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.

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

**(I) SHRI N. GOPALASWAMI, I.A.S (Retd) ,
Former Chief Election Commissioner of India
E-mail Id : gopalswamin@gmail.com**

**(II) SHRI RAMESH CHANDRA AGARWAL , IPS(Retd)
Former Director General of Police
E-mail Id : rcagarwal@rediffmail.com**

HIGH SPEED LINEAR MOTION SHALE SHAKERS (LMSS) & LINEAR MOTION MUD CLEANER (LMMC). EACH SET CONSISTING OF 2 (TWO) UNITS OF LMSS, 1(ONE) UNIT OF LMMC & 1 (ONE) SUITABLE TWO WAY FLOW DIVIDER.

QUANTITY : 6 (SIX) SETS

ITEM DESCRIPTION:

SET OF HIGH SPEED LINEAR MOTION SHALE SHAKERS (LMSS) & LINEAR MOTION MUD CLEANER (LMMC) PACKAGE.

ONE SET CONSISTING OF 2 (TWO) UNITS OF LMSS, 1(ONE) UNIT OF LMMC & 1 (ONE) SUITABLE TWO WAY FLOW DIVIDER. DETAILED SPECIFICATION IS AS UNDER:

1.0 SPECIFICATION FOR LINEAR MOTION SHALE SHAKER (LMSS)

1.1 SCOPE:

Supply, installation and commissioning of Linear Motion Shale Shakers as per under noted specification & details:

1.2 APPLICATION:

LMSS will be used as a solid control equipment to sieve off larger cuttings / gumbo as well as fine particles from the drilling mud on an oil well drilling rig operating continuously with the specified rated conditions & parameters.

1.3 GENERAL FEATURES / NOTES

1.3.1 LMSS shall be suitable for operation in oilfield conditions having operating fluid temperature up to 90 degree centigrade.

1.3.2 Packages shall be suitable for onshore application & for use with all types of water or oil based drilling fluids such as XC-Polymer-PAC; Resinex-Sulphonate Asphalt Mud System, KCL-PHPA Polymer mud system, Low solid non-dispersant mud system, etc.

1.3.3 Package shall be new, unused and free from all defects and of recent manufacture.

1.3.4 Packages should be supplied fitted with the screens, complete in all respect & should be in ready to use condition. Bidder should confirm while quoting.

1.3.5 Bidder to confirm regarding the product /service support along with un-interrupted and timely supply of spare parts for at least 10 years for the offered model. Moreover, bidder to forward a list of spares required for 2 year operation, indicating the item, part no., quantity & price (price to be furnished in Priced bid only) and should confirm that the spares price will remain valid for a period of 2 years from Bid opening date. This will not be considered for evaluation however. OIL may place order for purchase of these operational and maintenance spares at its own discretion.

1.3.6 **Markings:** Following information shall be engraved / embossed:

On main body of LMSS:

Manufacturer's name & address, Model, Serial No. & Year of manufacture, Motor HP / RPM / Volts / Hz, Full load ampere, overall dimensions, Weight & OIL's purchase order no. (in the event of an order).

On Screen:

Identification tag with manufacturer's name, part no, cut point in microns, conductance in millidarcies and screen area in square feet.

1.3.7 Bidder to forward the following along with the quotation:

- a) Operational, maintenance and service manuals with exploded views, spare parts manual/catalogue indicating all parts with quantity & part nos.,
- b) General and sectional arrangement drawing of complete package indicating area, height and clearances required by the equipment,
- c) For motor, detailed dimensional drawing including terminal box connections and drawing of wiring. One such set to be submitted with Techno-Commercial Unpriced Bid & additional 2 sets (+ 1 set in CD version) along with the supply.

1.4 TECHNICAL SPECIFICATION & FEATURES

1.4.1 Type of LMSS : Single type; 2 (two) nos of single units placed side by side or in tandem on a common rugged oilfield type skid.

Flow rate capacity: Each unit should be capable of handling minimum 500 GPM (1893 LPM) with 68 lbs/cu.ft. (1.09 Sp. Gr.) Water based mud at Screen no API 170 as per API RP 13C. The combined fluid handling capacity with twin shale shakers units operated simultaneously under above condition should not be less than 1000 GPM (US).

1.4.2 Tentative mud properties to be able to handle by the LMSS:

Density of mud (Drilling fluid): 65 to 156 lbs /cu.ft. (1.04 to 2.5 sp.gr.)

Viscosity of mud (Drilling fluid): 35 - 70 centi-poise.

1.4.3 Other requirements:

Vibratory pattern: Linear Motion

Centrifugal `G' force: 7 G or higher

Number of deck per unit: Single.

Deck angle adjustment range: (-)3 degree to (+)3 degree downhill and uphill respectively or as per the design of the manufacturer.

Deck angle adjustment type: Manual with locking arrangement to maintain desired angle.

Screen tensioning: Through quick release device - Positive Lock/Wedge system.

Screen type & construction: Refer clause 1.7 below for screen system.

Screen mounting / support: Over slung design.

Flow line Connections: 25.4 mm (10") OD. Raised face flange type

Vibratory drive : Direct electric motor driven with eccentric weights

Electrical features: Explosion proof AC motor & starter suitable for 3 phase, 3-wire (no neutral), power Supply 415 Volts AC, 50 Hz.

Safety Guards : On all rotating / moving parts & assemblies

1.5 VIBRATORY DRIVE SYSTEM

Vibratory assembly shall be easily detachable from the unit for simple & quick field replacement.

LMSS shall incorporate two integral vibrator motors with eccentric counterweights for attaining required `G' force & delivering high - speed centrifugal force to the screen frame.

- 1.5.1. Motion of particle shall be such that the screen angle is adjusted to a positive angle (uphill) for obtaining drier particles & reducing fluid losses.
- 1.5.2. Locking mechanism / arrangement shall be provided for maintaining desired screen angle.
- 1.5.3. Vibratory drive shall be incorporated with self - contained lubrication system for lubrication of essential parts including integral vibrator bearings.
- 1.5.4 Vibratory shaft shall be integral without any joint & provided with independent safety guard.
- 1.5.5. No separate pump should be used for any lubrication.

1.6 BASKET SYSTEM

- 1.6.1. LMSS shall comprise of suitable deck as per manufacturer's design to meet the flow rate requirement as indicated in technical specification & features.
- 1.6.2. For variable screen angle adjustment: - Deck shall incorporate variable deck angle adjustment during drilling operation either with synchronized jack system or independent jack system. Suitable provision shall be provided for avoiding by-pass of drilling fluid. Movable bracket shall be provided with locking arrangement to avoid side jerking.
- 1.6.3. Deck shall be supported / mounted by vibration isolation members (Made up of natural rubber / rubber compound / coil spring isolators) connected to the bed for eliminating excessive vibration to avoid structural member breakage.

1.7 SCREEN SYSTEM

- 1.7.1. Screen shall be easily replaceable type & designed to provide highest fluid throughout (Conductance) & dryness of drilled solid with maximum screen life.
- 1.7.2. LMSS should efficiently operate with up to API 325 Screen [As per API RP 13C] sizes & interchangeable to meet varied flow rate conditions (GPM). Screen openings in terms of mesh & microns with required mud handling capacity against different hole section are given below:

For 17.1/2" Hole

Mud Parameters

Density- 68 lbs/ cft (1.09 Sp.gr.)

PV - 8-15 cp

YP - 15-30 lbs/100sq.ft.

ROP (max.) - 120 m/hr

Formation - Alluvium / Pebble/ Clay

Minimum Processing rate with one unit of LMSS using API 50 screens - 500 GPM (US)

Minimum Processing rate with two units of LMSS using API 50 screens- 1000 GPM (US)

For 12.1/4" Hole

Mud Parameters

Density- 70-80 lbs/cft (1.12-1.28 Sp.gr.)

PV - 10-20 cp

YP - 15-25 lbs/100sq.ft.

ROP (max.) - 120 m/hr

Formation - Sand / Sand Stone / shale / Mud Stone / Coal.

Minimum Processing rate with one unit of LMSS using API 80 screens- 450 GPM (US)

Minimum Processing rate with two units of LMSS using API 80 screens- 900 GPM (US)

For 8.1/2" Hole

Mud Parameters

Density- 80-100 lbs/cft (1.28-1.6 Sp.gr.)

PV - 12-30 cp

YP - 12-25 lbs/100sq.ft.

ROP (max.) - 50 m/hr

Formation - Sand / Sand Stone / shale / Mud Stone.

Minimum Processing rate with one unit of LMSS using API 140 screens - 350 GPM (US)

Minimum Processing rate with two units of LMSS using API 140 screens - 700 GPM (US)

- 1.7.3. Deck screen system shall be suitable for the installation of Pyramid / corrugated / pre-tension screen.
- 1.7.4. Screen shall be easily repairable through flexible polyurethane plugs.
- 1.7.5. SCREEN TENSIONING SYSTEM shall be simple in design allowing quick engagement / dis-engagement of screens.
- 1.7.6. All screens shall be indelibly stamped /engraved with mesh count, wire diameter & manufacturer name as per API RP 13C designation.

1.8 SUPPLY & DISCHARGE LINES

- 1.8.1. **Flow line:** - Flow line pipe shall be 10 inch diameter raised face flange suitable for two-way flow diverter.
- 1.8.2. **Fluid discharge** :- (Underflow) shall be made from both sides & discharge directly into the sand traps or bypass directly into degasser / mud cleaner pit.
- 1.8.3. Special arrangement shall be made to throw the cutting a little away from the unit by providing a plate just below the screen outlet.

1.9 ELECTRICAL FEATURES

- 1.9.1. Vibratory drive system of LMSS should be powered by explosion-proof, pre-wired & suitably matched motor.
- 1.9.2. Motor shall be explosion proof, Induction type, Squirrel cage, with sealed bearings & suitable for 415 V AC, 50 Hz, 3 - phase power supply at 40 degree centigrade ambient & 90% relative humidity. Motor should not be loaded above 90% of its continuous rating when the unit is running at its maximum output. Motor shall be temperature class T3.
- 1.9.3. Motor shall be operated through separate suitable rating, manual, explosion proof, flame proof, water & weather proof starter fixed to the unit with two positioned push button switch (ON / OFF & O/L RESET).
- 1.9.4 **Motor installation:** Motor shall be suitably located on LMSS & starter installed in a water & weatherproof box to avoid mud splashes. Motor foundation bolts shall be of such designed & made up of material to avoid shearing off / breakage during normal operation.
- 1.9.5. Explosion proof motor & starter should be provided with suitable FLP double compression cable glands.
- 1.9.6. Vibrator maintenance schedule (both routine & overhauling) and procedure is to be submitted with bid:
 - 1.9.6.1. Vibrator routine maintenance such as bearing greasing (if required at all) should be simple (through easily accessible external grease nipple) and should not require removal / adjustment of counterweights and / or any similar extensive procedure.
 - 1.9.6.2. It must be possible to carry out such routine maintenance at site by non-OEM personnel. It must be confirmed in routine maintenance schedule and procedure to be submitted by the bidder along with Techno-Commercial Unpriced bid .
 - 1.9.6.3. Bidder should clearly indicate vibrator overhauling schedule, procedure, tools, consumables, expertise & infrastructure requirement. Bidder to indicate what support service can be provided from their end.
- 1.9.7. Bidder to mention vibration level `G' at base of vibrators / vibrator mounting plate and specify if it is same as that of screen.

- 1.9.8. Bidder to indicate rating of high pressure jet cleaner and to indicate power supply requirement (in case electric driven jet cleaner HP, Volts etc and for pneumatic, minimum supply air pressure requirement).
- 1.9.9 The electrical/ electronic component of the offered equipment shall be CIMFR (Central Institute of Mining & Fuel Research, Dhandbad, Jharkhand, India) (or Equivalent) Certified and DGMS approved for use in Zone 1, Gas Group IIA & IIB hazardous areas of oil mines. The CIMFR Certificate No. and DGMS approval No. shall be affixed or embossed on each piece of equipment.
- 1.9.10 In case DGMS approved electrical/electronic equipment is not available, the same shall be supplied with DGMS field trial permission certification. (Details of obtaining DGMS field trial permission are available at the web site of DGMS). The field trial may be carried out in any of the E & P Companies operating in India or during the commissioning of the project for which it is procured.
- 1.9.11 Oil India shall supply 415 VAC, 50 Hz, 3 Phase 3 Wire (No neutral), power through appropriately rated cable from source of power to the starter of the LMSS/LMMC. All other cables, cable glands, cable trays / conduits; and connections (including control connections and wiring) required to run the devices are in the scope of the bidder.
- 1.9.12 Provision of earthing – Appropriate provision for connecting the frames to earth should be provided in all non-current carrying parts of electrical devices, including the skids.
- 1.9.13 Bidder shall specify the make and model, Power Rating, and Cable Size required for power connections of motor offered. Bidder shall submit a schematic diagram of the electrical power and control connections (for both LMSS & LMMC).

1.10 MOUNTING SKID

- 1.10.1. Both LMSS together with associated accessories shall be mounted on a single heavy duty, rigid steel oilfield type skid for placement over the mud tank.
- 1.10.2. Unit shall be equipped with four lifting points looking the C.G. of unit and located at each corner of the base frame.
- 1.10.3. The dimensions (L x W) of skid for proper installation of the units should not exceed the following:-
Length = 3650 mm (minimum) to 5334 mm (maximum)- Measured perpendicular to the direction of mud flow over the screens.
Width = 2300 mm (minimum) to 2930 (maximum) - Measured along the direction of mud flow over the screens.
- 1.10.4 The units of LMSS should not be permanently fixed but should be detachable for transportation purpose. The process of assembling & disassembling of LMSS units on to the skid should be simple & should not consume much time. Accordingly the combined / coupled overall dimensions (L x W) of two units of LMSS should not exceed Length 5334 mm x Width 2930 mm and Height 1768 mm.

1.11 PAINTING

The complete LMSS units & skid should be grit / sand blasted to bare white metal, covered with 2-5 mils coat of zinc rich epoxy primer containing anti-corrosive pigments. Intermediate coat of epoxy polyamide primer & aliphatic acrylic polyurethane top 3-4 mils coat to withstand tropical conditions.

1.12 MATERIAL

- 1.12.1. All components of wetted area including basket shall be made up of stainless steel 304 or higher grade steel.

- 1.12.2. **Vibration isolators** : Neoprene / Rubber compound / coil spring
- 1.12.3. **Skid** : Structural Carbon steel
- 1.12.4. **Cross & side support assembly**: Fiber glass / Polyurethane / stainless steel
- 1.12.5. **O-rings** : Teflon
- 1.12.6. **Guard** : Non-Sparking material

1.13 INSTALLATION & COMMISSIONING

LMSS along with associated accessories / assemblies shall be satisfactorily installed & commissioned at site by supplier. Bidder shall provide complete dimensional details of twin units of LMSS with skid.

1.14 TOOLS & SPARES

(TO BE QUOTED BY THE BIDDERS FOR EVALUATION):

- 1.14.1. Bidder should also quote a set of handling & special tools for each LMSS unit including two torque wrenches & one digital accelerometer (vibration meter) for operation, maintenance & repair purpose including tools for screen replacement & vibrator replacement, deck, basket angle adjustment which will be procured along with the mother item. Bidder must forward a list of all tools quoted by them indicating the make & model. Price of these should be indicated in Priced bid & will be considered for evaluation purpose.
 - 1.14.2. Bidder to quote for the following screens, to be procured along with each set of LMSSs in addition to one set of approx. API 60 screens fitted to LMSS units. Bidder to quote for screens of following nearby mesh sizes as per API RP 13C. Price of these should be indicated in Priced bid & will be considered for evaluation purpose.
 - (a) API 40 screens or nearby - 20 nos per set.
 - (b) API 60 screens or nearby - 20 nos per set.
 - (c) API 80 screens or nearby - 20 nos per set.
 - (d) API 100 screens or nearby - 20 nos per set.
 - (e) API 120 screens or nearby - 20 nos per set.
 - (f) API 140 screens or nearby - 20 nos per set.
 - (g) API 170 screens or nearby - 20 nos per set.
 - 1.14.3. Bidders to quote for 1 (one) nos. of High Pressure-Low Volume suitable water jet cleaner for each unit (electrically or pneumatically driven), for cleaning the screens with all required accessories including but not limited to jetting gun with nozzles, high pressure hose, pressure gauge, bypass valve, safety valve, etc which will be procured along with the mother item.
 - 1.14.3.1 Bidder should indicate the complete specifications of jet cleaner together with its accessories in Techno-Commercial Unpriced bid and price in Priced bid. This will be considered for evaluation purpose.
 - 1.14.4. Bidders to quote for an extra set of Vibrator Motor & Starter for each unit (**Qty. will be indicated during placement of order**). Bidder to indicate the same in Techno-Commercial Unpriced bid & should quote the price separately for motor & starter in Priced bid & will be considered for evaluation purpose.
- 1.15 The Bidder must quote for all the items mentioned above. The bid shall be rejected if any of the items is not been quoted by the bidder.

2.0 SPECIFICATION FOR LINEAR MOTION MUD CLEANER (LMMC)

2.1 SCOPE:

Supply installation and commissioning of Linear Motion Mud Cleaner as per specification contained in and details as under:-

2.2 APPLICATION

Linear motion mud cleaner (LMMC) is intended to be used as solid control equipment in oil well drilling operation for removal of fine solids or silt from the drilling mud. LMMC shall use two stage mechanical processes for solid control. First stage shall remove fine solids through DESANDER & DESILTER (Hydro cyclones) & in the second stage the under flow from De-sander and De-silter shall discharge on fine mesh screens of linear motion vibrating shale shaker. The unit shall work on LINEAR MOTION principle operating continuously, at specified rated conditions.

2.3 SCOPE OF SUPPLY

- 2.3.1 The LMMC shall be shipped under assembled and in ready to start condition.
- 2.3.2. The unit should have a combination of 2 nos. of 12 inch Hydro-cyclone as De-sander each having capacity of minimum 500 GPM (US) & maximum of 4 inch 20 nos. of hydro cyclones as Desilter arranged either in twin parallel rows of 10 cones each or in circular design. Both De-sander & Desilter shall be capable of handling a minimum of 1000 GPM (US). (No. of Desilter hydro-cyclone may vary as per the design of the manufacture but total capacity must not be less than 1000 GPM (US).
- 2.3.3. Under flow from De-sander & Desilter shall discharge on fine mesh screens of linear motion vibrating shale shaker with fine mesh screen that works on linear motion principle.
- 2.3.4. The LMMC assembly shall be mounted on standard rugged oil field type skid suitable for easy movement and installation unit shall be equipped with four lifting points located at each corner of the case frame. Unit shall have gates at each side for direct discharge in to mud tank.
- 2.3.5. LMMC shall be incorporated with integral vibrator motor(s) for imparting energy to the shaker basket (to provide linear motion). Vibratory system shall be directly coupled to self-contained lubricating system suitably matched with the specified operating conditions located on shaker skid to avoid being damaged by spilling mud. Motor shall be designed for 415V, 50Hz, 3 –PHASE & CLASS-F insulation for top terminal box, sealed and pre-greased bearings designed for continuous service.
- 2.3.6. The electrical features for motor & starter should be same as indicated against clause 1.9 (i.e. for LMSS).
- 2.3.7. LMMC assembly shall be complete with Pressure gauge in both De-sander & Desilter feed line (feed gauge to read feed pressure of various mud weights), Feed and over flow headers, Victaulic clamps/couplings over flow header vent, Rubber bushing shall all be included and mounted on the LMMC skid. The offered LMMC should be complete with screens API 200 or nearby fitted on each unit.
- 2.3.8. Any other item i.e. not mentioned here but is normally supplied with the standard package, should be indicated in the Techno-Commercial Unpriced bid & to be supplied along with equipment.

2.4 TECHNICAL REQUIREMENT

The LMMC must confirm strictly to the following technical requirement:

- 2.4.1 Shaker of LMMC should work on Linear Motion Principle with manually adjustable deck angle setting ranging between (-)3 degree to (+)3 degree downhill and uphill respectively or as per design of the manufacturer.
- 2.4.2 Rated capacity should not be less than 1000 GPM (US) and should be suitable for separating cuttings from the mud of specific gravity 1.05 to 2.50 and viscosity 40 to 70 cps.
- 2.4.3 LMMC should be suitable for all types of mud including weighted or non weighted oil based or water based or PHPA
- 2.4.4 Centrifugal 'G' force - 7.0 or higher
- 2.4.5 Minimum operating pressure should be 2.25 kg/sq.cm. (32 PSI) with mud specific gravity of 1.05 & maximum operating pressure of 5.5 kg/sq.cm. (78 PSI) with mud specific gravity of 2.50.
- 2.4.6 Micron cut of De-sander cones should be of **74-40** microns. De-sander Hydro-cyclones should be 12 inch size made of polyurethane material, ceramic insert molded to withstand high abrasion, temperature and pressure. Cones should be slant mounted, light weighted and having high abrasion resistance with robust support. The discharge apex of the cone should be of easily removable type for clearing and replacement. Blanking facilities or butterfly valves should be provided with the cones for isolation of the cones.
- 2.4.7 Micron cut of Desilter cones should be of **20-25** microns. Desilter Hydro-cyclones should be 4 inch 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 of easily removable type for clearing and replacement. Blanking facilities or butterfly valves should be provided with all the cones for using lesser number of cones and for isolating each cone.
- 2.4.7 Feed line should have such a design to provide adequate pressure to each cone.
- 2.4.8 The De-sander feed manifold shall preferably be of 8-inch. (203.2-mm) in diameter and Discharge manifold shall preferably be of 10-inch (254-mm) in diameter. Header line to the cone should be provided with Victaulic Couplings on weld nipple. The De-sander should include a solids discharge trough to distribute the hydro-clone underflow evenly onto the screening surface.
- 2.4.9 The Desilter feed manifold shall preferably be of 6-inch. (152.4-mm) in diameter and Discharge manifold shall preferably be of 8-inch (203.2-mm) in diameter. Header line to the cone should be provided with Victaulic Couplings on weld nipple. A discharge trough to distribute the hydro-cyclone underflow evenly onto the screening surface should be provided.
- 2.4.10 Pressure gauge of suitable size and rating (minimum 100 PSI) should be provided on inlet line of De-sander & Desilter.
- 2.4.11 LMMC should be suitable for continuous operations in oil field condition having operating fluid (MUD) temperature up to 90 degree centigrade.
- 2.4.12 LMMC should operate efficiently with screen of API 100 to 325 mesh size. Screen should be designed to provide highest throughput (conductance) and dryness of drilled particles with maximum screen life.
- 2.4.13 Safety guards should be fitted to all rotating / moving parts or assemblies (non- sparking material)
- 2.4.14 Easily accessible grease Fittings to be provided.
- 2.4.15 The equipment should be designed for minimum maintenance
- 2.4.16 The complete LMMC units & skid should be grit / sand blasted to bare white metal, covered with 2-5 mils coat of zinc rich epoxy primer containing anti-corrosive pigments.

Intermediate coat of epoxy polyamide primer & aliphatic acrylic polyurethane top 3-4 mils coat to withstand tropical conditions.

2.4.17 All connections should be leak proof.

2.4.18 LMMC together with skid should not exceed the following overall dimension:

Length = 2000 mm (minimum) to 2500 mm (maximum) - Measured perpendicular to the direction of mud flow over the screens.

Width = 2800 (minimum) to 3250 mm (maximum) - Measured along the direction of mud flow over the screens.

Height = 2200 mm (minimum) to 2770 (maximum) with Desilter mounted

2.4.19 Screen should be of standard size as per API RP 13C.

2.4.20 Screen mounting and tensioning system should be simple in design allowing quick and easy engagement / disengagement of screen. The screen mounting mechanism should ensure trouble free long life of the screen.

2.4.20 Provision should be made for collection of discharge (coming out from hydro cyclone) either over linear motion shaker of LMMC or directly to discharge pit.

2.5 TOOLS & SPARES

(TO BE QUOTED BY THE BIDDERS **FOR EVALUATION**):

2.5.1 Bidder to provide following screen and cones along with each unit in addition to one set of screen API 200 screens or nearby screen as per API 13C fitted with each unit. Price of these should be indicated in Priced bid & will be considered for price evaluation.

- | | |
|---|-----------------|
| (a) API 170 or nearby screen as per API RP 13 C | 10 nos per set. |
| (b) API 200 or nearby screen as per API RP 13 C | 10 nos per set. |
| (c) Cones , De-sander, complete assembly | 2 nos per set |
| (d) Victaulic clamps with seals for cones | 2 nos per set |
| (e) Cones, desilter, complete assembly | 10 nos per set. |
| (f) Victaulic clamps with seals for cones | 10 nos per set. |

2.5.2. Bidder to quote for and provide one set of handling and special tools (indicating the items & qty.) required during operation, maintenance / repair of the unit including any special tools for screen & vibrator replacement, deck/ basket angle adjustment along with each unit (total 6 units) which will be procured along with the mother item.

2.5.3 Bidders to quote for 1 (one) nos. of High Pressure-Low Volume suitable water jet cleaner for each unit (electrically or pneumatically driven), for cleaning the screens with all required accessories including but not limited to jetting gun with nozzles, high pressure hose, pressure gauge, bypass valve, safety valve, etc which will be procured along with the mother item.

2.5.4 Bidder to quote for an extra set of Vibrator Motor & Starter for each unit. (Qty. will be indicated during placement of order). Bidder to indicate the same in Techno-Commercial Unpriced bid & should quote the price separately for motor & starter in Priced bid which will be considered for price evaluation.

2.6 The Bidder must quote for all the items mentioned above. The bid shall be rejected if any of the items is not been quoted by the bidder.

2.7 GENERAL FEATURES / NOTES

- 2.7.1 Units shall be suitable for onshore application & for use with all types of water or oil based drilling fluids such as XC-Polymer-PAC; Resinex-Sulphonate Asphalt Mud System, KCL-PHPA Polymer mud system, Low solid non-dispersant mud system, etc.
- 2.7.2 Unit shall be new, unused and free from all defects and of recent manufacture.
- 2.7.3 Unit shall be supplied fitted with the screens, complete in all respect & should be in ready to use condition.
- 2.7.4 Bidder to confirm regarding the product /service support along with un-interrupted and timely supply of spare parts for at least 10 years for the offered model. Moreover, bidder to forward a list of spares required for 2 year operation, indicating the item, part no., quantity & price (price to be furnished in Priced bid only) and should confirm that the spares price will remain valid for a period of 2 years from Bid opening date. This will not be considered for evaluation however OIL may place order for purchase of these operational and maintenance spares at its own discretion.
- 2.7.5 **Markings:** Following information shall be engraved / embossed.
On the body of LMMC - Manufacturer's name & address, Model, Serial No. & Year of manufacture, Motor HP / RPM / Volts / Hz, Full load ampere, overall dimensions, Weight & OIL's purchase order no.
On Screen - Identification tag with manufacturer's name, manufacturer's designation, cut point in microns, conductance in milli-darcies , screen area in square feet, API no .
- 2.7.6 Bidder to forward the following along with the quotation:
Operational, maintenance and service manuals with exploded views, spare parts manual/catalogue indicating all parts with quantity & part nos., General and sectional arrangement drawing of complete package indicating area, height and clearances required by the equipment, with certificates and for motor detailed dimensional drawing including terminal box connections and wiring drawing. One such set to be forwarded with Techno-Commercial Unpriced bid & additional 2 sets (+ 1 set in CD version) along with the supply.
- 2.7.7 A pre-dispatch inspection may have to be arrange if the company so desire at the time manufacturing/supplying of the units. However the supplier must provide minimum of 75 days duration to the company for schedule of the inspection with a request for inspection prior to the dispatch of the units. The company shall bear all expenses of travel, lodging and fooding, however the supplier should provide all assistance in successful conducting of the inspection. The company under its discretion shall decide the number of representatives & schedule of the inspection once the request is received from the supplier for the job which will be intimated to the party in due time.

3.0 TWO WAY FLOW DIVIDER FOR LINEAR MOTION SHALE SHAKERS

3.1 The two way flow diverter should have 10 inch diameter raised face flange suitable for connection to twin shale shaker unit. The inlet of flow divider should be suitably designed having at least 12 inch diameter raised face flange complete with blind flange (for OIL's open mud channel). The two way flow divider should have non-adjustable sliding type gates for diverting the inlet to either of the LMSS units or to the mud tank through a suitably 10 inch diameter raised face flange by-pass. The divider should be provided with a by-pass opening. The by-pass opening of the divider should be covered with blind flange. The flow divider should meet the followings:

Material: Structural Carbon Steel.

Painting: Same as indicated in clause 1.11 above.

3.2. Three way design flow divider from the bidder is also acceptable subject to all other specifications remaining the same.

3.3. An alternate design of "POSSUM BELLY" by any manufacturer substituting Flow divider is also acceptable subject to all other specifications remaining the same.

Special notes for the Bidder

1.0 The Packages (LMSS & LMMC) shall have to be installed and commissioned successfully at OIL's Drilling Rigs at Duliajan, Assam (India) by bidder's competent technical personnel and satisfactory performance should be demonstrated to OIL's field personnel under operating conditions. The basic facilities required for installation of the supplied Packages such as to & fro transportation to site, electric power, water supply, pressurized air and welding & cutting set shall be provided by OIL. Bidder must quote lump sum price for Installation and commissioning charges separately which amongst others must include to and fro air fares of the commissioning team including boarding & lodging at Duliajan, etc. The successful bidder will also impart training to OIL's personnel while commissioning the equipment. The installation, commissioning & training charges will be considered for evaluation of the offer. Thus, bidder must forward an action plan towards installation, commissioning & imparting training (on installation, operation, troubleshooting & maintenance with training duration) to OIL's personnel indicating the time frame. Necessary training material / handout should be provided by the bidder during the training program.

It is estimated that 12 working days will be required to commission all the six (6) sets of LMSS & LMMC at OIL's Rigs (actual number of sets that will be commissioned will depend upon the number of Rigs available at that point of time) and training to OIL's personnel in the field on installation, use and maintenance. Additionally 6 working days for second trip is considered to finish any leftover job & to carry out any running adjustments, servicing, etc. during actual drilling process. Thus, the bidders are required to quote commissioning charges (lump sum) taking into account the requirement of their personnel for at least 18 (eighteen) days in two trips.

Note : The system will be considered as successfully commissioned only after obtaining valid DGMS approval for all the constituent equipment/instruments of the system.

2.0 Supplier's competent technical personnel should be available on call basis from nearest base to sort out any problem with the Packages during actual drilling operation, if required and should repair and replace any parts/problem at their own cost during warranty period. Bidders should confirm the same while quoting.

3.0 The Packages (LMSS & LMMC) should be under warranty for any manufacturing defects for a period of one year after commissioning or 18 months from the date of dispatch / shipment whichever is earlier.

4.0 The dimensions of mud tanks over which Twin Skid mounted unit of LMSSs & unit of LMMC need to be installed is **9900 mm (Length) x 2285mm (Breadth) x 2550 mm (Height)**.

5.0 Each Package of LMSS & LMMC should be tested its performance at manufacturer's site & dispatch shall be made only on successful testing and compliance with OIL's purchase order.

5.1 Detailed testing & inspection procedure of OEM shall be submitted along with the Techno-Commercial Unpriced Bid.

5.2 Bidder to forward test report along with supply & shall confirm the same in Techno-Commercial Unpriced Bid. The test report shall include the following measurements:

- a) Vibrator current at 415V, 50 Hz.
- b) Vibration level at screen, at base of vibrator & starter.

- 6.0 Bidder should confirm to General features / Notes as specified in clause nos. 1.3 & 2.6 respectively indicating deviations if any.
- 7.0 Bidder shall clearly indicate the name of manufacturer & country of origin of goods in their quotation. Supply houses / agents quoting for the item should forward a letter of Authorization together with warranty back-up in original from the manufacturer along with the Techno-Commercial Unpriced Bid.
- 8.0 Bidder must forward completely filled up & duly signed Data Sheets for LMSS & LMMC and Technical checklist which are enclosed in the tender.

DATA SHEET for LMSS

To be filled in by Bidder & submitted with Techno-Commercial Unpriced bid

1. Manufacturer's name & Model of LMSS offered
2. Flow rate / capacity (GPM-US) individual
3. Total handling capacity (GPM-US) in twin mode
4. Type of vibratory motion
5. `G' force
6. No. deck per basket
7. Screens/panel per deck
8. Nominal Motor speed (RPM)
9. Deck angle adjustment - range (Degree)
10. Deck angle adjustment type
11. Details of motor & starter
12. Motor, starter & cable suitable for specified hazardous location. Electrical components i.e. motor, starter, etc shall have to be approved by DGMS, India for use in hazardous areas.
13. Screen/panel details:
 - a) Screen size, type - square / oblong
 - b) Equivalent mesh size as per API RP13C
 - c) Total area of screen surface in the complete unit
 - d) Screen dimensions (L X W)
 - e) Screen cloth type
 - f) Screen tensioning device type
14. Material of major components including deck basket, skid, frame, screen, support, etc
15. Painting details
16. Recommended lubricant with quantity for the lubrication system
17. Dimensions & weight of each LMSS, Overall Dimensions & weight of units with skid.
18. Vibration & Noise level

Name, Signature & Stamp of authorized person responsible for submitting the tender

DATA SHEET for LMMC

To be filled in by Bidder & submitted with Techno-Commercial Unpriced bid

1. Manufacturer's name & Model of LMMC offered
2. Flow rate / capacity of each hydro-cyclones & no. of hydro-cyclones
3. Total handling capacity (GPM-US)
4. Type of Isolation / Blanking facility provided with hydro-cyclones
5. Type of vibratory motion of shaker.
6. `G' force
7. Screen/panel per deck
8. Nominal Motor speed (RPM)

9. Deck angle adjustment - range (Degree)
10. Deck angle adjustment type
11. Details of motor & starter
12. Motor, starter & cable suitable for specified hazardous location. Electrical components i.e. motor, starter, etc shall have to be approved by DGMS, India for use in hazardous areas.
13. Screen/panel details:
 - a) Screen size, type - square / oblong
 - b) Equivalent mesh size as per API RP13C
 - c) Total area of screen surface in the complete unit
 - d) Screen dimensions (L x W)
 - e) Screen cloth type
 - f) Screen tensioning device type
14. Material of major components including deck basket, skid, frame, screen, support, etc
15. Painting details
16. Recommended lubricant with quantity for the lubrication system
17. Overall Dimensions of unit with skid and weight
18. Vibration & Noise level

Name, Signature & Stamp of authorized person responsible for submitting the tender

9.0 Recommended spares:

The bidder should provide a list of recommended spares for two (2) years trouble free operation and maintenance of the equipment & other accessories indicating item description, part number, quantity and price in the Priced Bid and a copy of the same (without price) be provided in Techno-Commercial Unpriced Bid. The Prices of such spares should not change for next 2 years from the Bid opening date. However, the cost of these spares **will not be** considered for bid evaluation purpose.

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.
 - 1.2 The price of each electronic /electrical equipment to be quoted separately in the Priced Bid.
- 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 Package. 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 Installation & Commissioning :

- 4.1 The successful bidder will be required to install and commission the LMSS & LMCC Packages as indicated vide Para 1.0 (Special notes for the Bidder) above by their competent service engineer.
- 4.2 Installation/ Commissioning charges must be quoted separately (and should not be clubbed together with main equipment) 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.
- 4.3 While quoting Installation/Commissioning 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.
- 5.0 **Pre-despatch Inspection:**
- 5.1 OIL may depute representatives for inspection and testing prior to despatch at Ex-works for which a minimum of 75 days prior intimation has to be given by the supplier.
- 5.3 Pre-despatch inspection charges, if any, shall be quoted separately which shall be considered for evaluation of the offers. To and fro fares, boarding/ lodging and other en-route expenses of OIL's Inspection team for carrying out inspection shall be borne by OIL.
- 6.0 **Training to OIL Personnel**
- 6.1 Supplier to arrange for training to OIL personnel at site during installation & commissioning as indicated vide Para 1.0 (Special notes for the Bidder) above by their competent service engineer.
- 6.3 Training charges, if any, shall be quoted separately which shall be considered for evaluation of the offers. To and fro fares, boarding/ lodging and other en-route expenses of OIL's Inspection team for carrying out inspection shall be borne by OIL.
- 6.4 While quoting training 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.
- 7.0 Bidders are advised to submit details of previous supply record in tabular format as shown below:

SL NO	Client / Customer Name and Address with contact e-mail id	Order No / Contract No.	Date of order	Linear Motion Shale Shakers (LMSS) & Linear Motion Mud Cleaner (LMMC) specification (Make, Model) & Quantity supplied	Completion date	Reference of supporting document enclosed

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

9.0 Payment : Payment shall be released as follows:

- a) Goods supplied with valid DGMS Approval:
 - i) 80 % of the supply (LMSS & LMCC package) value shall be released on supply of LMSS & LMCC package against proof of despatch/shipment of the goods and submission of valid DGMS certificate.
 - ii) Remaining 20 % of the supply (LMSS & LMCC package) value along with installation & commissioning charges shall be paid after successful commissioning and acceptance of the LMSS & LMCC package by OIL at site.
- b) Goods supplied without DGMS approval, but with Field Trial Permissions only:
 - i) 50 % of the supply (LMSS & LMCC package) value shall be released on supply of LMSS & LMCC package against proof of despatch/shipment of the goods and submission of valid DGMS field trial permission certificate.
 - ii) 30% of the LMSS & LMCC package value shall be released on receipt of valid DGMS certificate.
 - iii) Remaining 20 % of the LMSS & LMCC package value along with installation & commissioning charges shall be paid after successful commissioning and acceptance of the LMSS & LMCC package by OIL at site.

The 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 LMSS & LMCC package value towards supply of the LMSS & LMCC package against proof of dispatch/shipment and submission of necessary DGMS certificate provided bidders agree to pay interest @ 1% above prevailing Bank Rate (CC rate) of State Bank of India for 20 % of the LMSS & LMCC package value and also submit Bank Guarantee for the equivalent amount plus interest valid till successful commissioning of LMSS & LMCC package 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 the duration of commissioning time indicated in the tender plus transit time (3 months) for evaluation purpose.

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

10.1 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.

Bid Rejection Criteria (BRC) & Bid Evaluation Criteria (BEC)

(I) BID REJECTION CRITERIA (BRC)

The bids must conform to the specifications, terms, and conditions given in the NIT. Bids shall be rejected in case the items 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 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 shall be an Original Equipment Manufacturer (OEM) of LMSS & LMMC Package of same or higher capacity.

OR

1.2 The bidder shall be an authorized dealer of OEM of LMSS & LMMC Package of same or higher capacity.

2.0 Bidder's Experience:

2.1 In case, the bidder is an Original Equipment Manufacturer (OEM) of the offered Package, the following criteria shall be met by the bidder:

2.1.1 The bidder shall be in the business of manufacturing LMSS & LMMC Package and shall have the experience of successful execution of supply, installation & commissioning of at least **3 (three)** nos. of LMSS & LMMC Package of same or higher capacity in the last **5 (five)** years preceding the Bid Closing date of this tender to any internationally reputed drilling Oil companies.

Supporting documentary evidence in respect of the above must be submitted along with Techno-Commercial Unpriced Bid in the form of copies of relevant Purchase Orders together with copies of Tax Invoice, Bill of Lading (or Consignment Note) and successful Commissioning report in respect of satisfactory execution of each of those Purchase Orders.

2.1.2 The bidder must confirm guarantee of uninterrupted supply of spares and availability of service for at least 10 years from the certified date of completion / successful field commissioning of the Package.

2.2 **In case the Bidder is an** authorized dealer of OEM of LMSS & LMMC Package, the following criteria shall be met by the Bidder:

2.2.1 The bidder shall confirm supply of LMSS & LMMC Package from LMSS & LMMC Package manufacturer (**OEM**) who meets the experience requirements stipulated under clauses 2.1.1 above.

2.2.2 Additionally, the Bidder himself should have the experience of supplying at least **3 (three)** nos. of such Package of LMSS & LMMC of same or higher capacity in the last **5 (five)** years preceding the bid closing date of this tender to any internationally reputed drilling Oil companies.

- 2.2.3 Supporting documentary evidence in respect of the above Para 2.2.1 must be submitted along with Techno-Commercial Unpriced Bid in the form of copies of relevant Purchase Orders together with copies of Tax Invoice, Bill of Lading (or Consignment Note) and successful Commissioning report in respect of satisfactory execution of each of those Purchase Orders.
- 2.2.4 Bidder shall enclose a Certificate in support of authorization of dealership with **back up Warranty & Guarantee** from the LMSS & LMMC Package Manufacturer (**OEM**) to quote for this tender.
- 2.2.5 The Bidder must furnish an undertaking from the OEM of LMSS & LMMC Package that the OEM shall guarantee uninterrupted supply of spares and availability of service for at least 10 years from the certified date of completion / successful field commissioning of the Package.
- 2.2.6 The bid shall be rejected in case of any change of the proposed **OEM** after submission of the bid. The bidder has to confirm in writing that there shall be no change of OEM after submission of bid and without this confirmation the bid shall be rejected.
- 3.0 Statutory Approval Requirement:**
- 3.0 DGMS Certification on equipment and Product:
- 3.1 The electrical/ electronic component of the offered equipment shall be CIMFR (Central Institute of Mining & Fuel Research, Dhandbad, Jharkhand, India) (or Equivalent) Certified and DGMS approved for use in Zone 1, Gas Group IIA & IIB hazardous areas of oil mines. The CIMFR Certificate No. and DGMS approval No. shall be affixed or embossed on each piece of equipment.
- 3.2 In case DGMS approved electrical/electronic equipment is not available, the same shall be supplied with DGMS field trial permission certification. (Details of obtaining DGMS field trial permission are available at the web site of DGMS). The field trial may be carried out in any of the E & P Companies operating in India or during the commissioning of the project for which it is procured.
- 3.3 The list of price of each electrical / electronic equipment requiring DGMS certificate shall also be quoted separately as PROFORMA `B' in the **Priced Bid**. A copy of the same (**without price**) should be provided in Techno-Commercial Unpriced Bid.
- 3.4 Bidder should confirm that all electrical components of the equipment should be suitable for operation on 3 phase, 415 Volts and 50 Hz power supply at 40 degree centigrade ambient temperature & 90% relative humidity.
- 4.0** Bidders should confirm that their competent person would install commission and train OIL's field personnel and would demonstrate successful operation of the equipment in OIL's rigs to the satisfaction of OIL's personnel.
- 5.0** Bidders should confirm that they would carry out after sale service on call basis as and when required by the company (OIL) during the warranty period.
- 6.0** Bidder must quote for all the items. All the items shall be procured from same source for technical compatibility and to achieve best field performance. If any of the items is not offered by the bidder, the offer will be treated as incomplete offer and will be rejected.

(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 Techno-Commercial 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 summarily rejected.
- 2.0 Bid security of **US \$ 37,065.00 or Rs. 16,68,000.00** shall be furnished as a part of the **Techno-Commercial Unpriced 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 & Conditions” for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders). The Bid Security shall be valid for **one year** from the date of bid opening **i.e, upto 06.08.2015.**
- 3.0 Validity of the bid shall be minimum 6 months (180 days) from the bid closing date. 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 Techno-Commercial Unpriced Bid. Offers not complying with this clause will be rejected.
- 6.0 **Bidders are required to submit the summary of the prices in their Priced Bid as per bid format (Summary), given below:**
- (i) **Price Bid Format (SUMMARY) for Foreign Bidders :**
- (A) Total Material value of all the Packages excluding commissioning spares as per Price Schedule for the bidder - PROFORMA `A`
 - (B) Total Cost of commissioning spares, if any
 - (C) Grand Total Material Value including above
 - (D) Total Packing & FOB Charges
 - (E) Total FOB Port of Shipment value
 - (F) Ocean Freight upto Kolkata port, India
 - (G) Insurance Charges
 - (H) Total CIF Kolkata value, (E + F + G)
 - (I) Pre- shipment/ dispatch inspection charges, if any
 - (J) Installation / Commissioning charges
 - (K) Training charges (at site), if any
 - (L) Total Value, (H + I + J + K) above
 - (M) Total value in words :
 - (N) Gross Weight :
 - (O) Gross Volume :

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

- (A) Total Material value of all the Packages excluding commissioning spares as per Price Schedule for the bidder - PROFORMA `A`
- (B) Total Cost of commissioning spares, if any
- (C) Grand Total Material Value including above
- (D) Total Packing and Forwarding Charges
- (E) Total Ex-works duly packed value, (C + D) above
- (F) Sales Tax, (Please indicate applicable rate of Tax)
- (G) Total FOR Despatching station value, (E + F) above
- (H) Road Transportation charges to Duliajan
- (I) Insurance Charges
- (J) Assam Entry Tax
- (K) Total FOR Duliajan value, (G + H + I + J) above
- (L) Pre- shipment/ dispatch inspection charges, if any
- (M) Installation / Commissioning charges
- (N) Training charges (at site), if any
- (O) Total Value, (K + L + M + N) above
- (P) Total value in words :
- (Q) Gross Weight :
- (R) Gross Volume :

NOTE :

1. Bidder should indicate the list of electronic /electrical equipment requiring DGMS certification along with quantity against each. The cost of these items should be included in the total material value in Price Schedule. However, the price of these items should also be indicated separately for information (Ref. PROFORMA `B`).
2. The Commissioning Spares (if any) should be indicated 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, applicable Customs Duty for import of goods shall be ZERO. Indigenous bidders shall be eligible for Deemed Export and should quote Deemed Export prices. Excise Duty under Deemed Export exempted.
4. Banking charges in the country of the foreign bidder shall be borne by the bidder.
5. 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 personnel during their stay at Duliajan, Assam(India). All Income, Service, Corporate Taxes etc. towards the services provided under installation / commissioning shall be borne by the supplier and will be deducted at source at the time of releasing the payment.
Bidder should also confirm about providing all these services in the Techno-Commercial Unpriced Bid.
6. Training charges, if any must be quoted separately on lumpsum basis which shall be considered for evaluation of the offers. Training charges at OIL's premises should include amongst others to and fro fares, boarding/lodging, local transport at Duliajan and other expenses of supplier's training personnel during their stay at Duliajan, Assam(India). Bidder should also confirm about providing the service in the Techno-Commercial Unpriced Bid. In case of training at Bidder's premises, to and fro fares, boarding/lodging and other enroute expenses of OIL's personnel shall be borne by OIL.

7. Successful bidder shall offer the LMSS & LMMC Package for Pre-despatch/shipment Inspection by OIL's team of technical/commercial executives. Pre-despatch/shipment Inspection charges, if any, must be quoted separately on lumpsum basis which shall be considered for evaluation of the offers. The to and fro fares, boarding/lodging and other enroute expenses of OIL's Engineers shall be borne by OIL. Bidders must categorically indicate the Installation / Commissioning, Pre-despatch/shipment Inspection and Training charges in their offers and must confirm about providing the same in their Techno-Commercial Unpriced Bid.
8. All Income, Service, Corporate Taxes etc. towards the services provided under installation / Commissioning and Training shall be borne by the supplier and will be deducted at source at the time of releasing the payment.

7.0 **Offers received without Integrity Pact duly signed by the authorised signatory of the bidder will be rejected.**

8.0 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.

9.0 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.

10.0 Bids containing incorrect statement will be rejected.

(II) BID EVALUATION CRITERIA (BEC) :

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

A. TECHNICAL:

All materials as indicated in the material description of the tender should be offered. If any of the items are not offered by the bidder, 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 Offers not complying with the payment terms indicated in the tender shall be loaded with one percent above the prevailing Bank rate (CC rate) of State Bank of India for the duration of commissioning time indicated in the tender plus transit time (3 months) for evaluation purpose.

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

5.1 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 all the Packages excluding commissioning spares as per Price Schedule for the bidder - PROFORMA `A`
- (B) Total Cost of commissioning spares, if any
- (C) Grand total Material Value including above, (A + B)
- (D) Total Packing & FOB Charges
- (E) Total FOB Port of Shipment value, (C + D)
- (F) Ocean Freight upto Kolkata port, 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)
- (J) Pre-shipment/ dispatch inspection charges
- (K) Installation / Commissioning charges
- (L) Training charges (at site)
- (M) Total Value, (I + J + K + L) above

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

5.2 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 all the Packages excluding commissioning spares as per Price Schedule for the bidder - PROFORMA `A`
- (B) Total Cost of commissioning spares, if any
- (C) Grand Total Material Value including above, (A + B)
- (D) Total Packing and Forwarding Charges
- (E) Total Ex-works duly packed value, (C + D)
- (F) Sales Tax
- (G) Total FOR Despatching station value,(E + F), above
- (H) Road Transportation charges to Duliajan
- (I) Insurance Charges @0.5% on total FOR Despatching station value (G) above
- (J) Assam Entry Tax
- (K) Total FOR Duliajan value, (G + H + I + J) above
- (L) Pre- shipment/ dispatch inspection charges
- (M) Installation / Commissioning charges
- (N) Training charges (at site), if any
- (O) Total Value, (K + L + M + N) above

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

5.3 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

5.2 above and Total Value of the foreign bidder worked out as per Para 5.1 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 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.

- 6.0 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.

Price Schedule for bidder - PROFORMA 'A'

PRICE SCHEDULE FOR 6 SETS OF LMSS & LMMC PACKAGE

Bidders are requested to quote **all the items** as per the format mentioned below:

SI No	Item Description	Quantity	Unit Price	Total Price
1	LMSS (Consists of two units of LMSS and one unit of Two Way Flow Divider)	6 Sets		
2	Handling & Special tools for LMSS – Para 1.14.1	12 Sets		
3	Additional Screens for LMSS – Para 1.14.2			
	(a) API 40 screens or nearby - 20 Nos per set for 6 sets.	120 Nos (20 x 6)		
	(b) API 60 screens or nearby - 20 Nos per set for 6 sets.	120 Nos (20 x 6)		
	(c) API 80 screens or nearby - 20 Nos per set for 6 sets.	120 Nos (20 x 6)		
	(d) API 100 screens or nearby - 20 Nos per set for 6 sets.	120 Nos (20 x 6)		
	(e) API 120 screens or nearby - 20 Nos per set for 6 sets	120 Nos (20 x 6)		
	(f) API 140 screens or nearby - 20 Nos per set for 6 sets.	120 Nos (20 x 6)		
	(g) API 170 screens or nearby - 20 Nos per set for 6 sets.	120 Nos (20 x 6)		
4	High Pressure-Low Volume suitable water jet cleaner with accessories – Para 1.14.3	12 Nos.		
5	Extra set of vibrating motor and starter – Para 1.14.4	3 Set		

6	LMMC		6 Nos.	
7	Additional Screens and Spares for LMMC – Para 2.5.1			
	(a) API 170 or nearby nos. per set -10		60 Nos (10 x 6)	
	(b) API 200 or nearby nos. per set. -10		60 Nos (10 x 6)	
	(c) Cones , De-sander, complete assembly-2 nos. per set		12 Nos (2 x 6)	
	(d) Victaulic clamps with seals for cones-2 nos. per set		12 Nos (2 x 6)	
	(e) Cones, Desilter, complete assembly-10 nos. per set.		60 Nos (10 x 6)	
	(f) Victaulic clamps with seals for cones-10 nos. per set		60 Nos (10 x 6)	
8	Handling & Special tools for LMMC – Para 2.5.2		6 Sets	
9	High Pressure-Low Volume suitable water jet cleaner with accessories – Para 2.5.3		6 Nos.	
10	Extra set of vibrating motor and starter – Para 2.5.4		3 Set	
	Total Material value of all the Packages excluding commissioning spares: (Proforma `A')			

PROFORMA 'B'

LIST OF ELECTRICAL / ELECTRONIC EQUIPMENT REQUIRING DGMS CERTIFICATION FOR 6 SETS OF LMSS & LMMC PACKAGE

COST OF THE FOLLOWING ITEMS IS INCLUDED IN THE PRICE SCHEDULE FOR 6 SETS OF LMSS & LMMC PACKAGE (PROFORMA 'A') ABOVE:

SI No	Item Description of electrical / electronic item requiring DGMS Certification	Quantity for each package	Total Quantity	Unit Price	Total Price

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

<u>Sl#</u>	<u>REQUIREMENT</u>	<u>COMPLIANCE</u>
1.	Have you offered all the items as per tender?	Yes / No
2.	Whether the offered LMSS is as per tender requirement. Have you highlighted the deviations (if any)?	Yes / No
3.	Whether the offered LMMC is as per tender requirement. Have you highlighted the deviations (if any)?	Yes / No
4.	Whether relevant Catalogue, Drawing, Literature & installation, maintenance, operation & service manual (with illustrated drawings & exploded views) along with dimensional details is enclosed?	Yes / No
5.	Whether the list of recommended spares for LMSS & LMMC are enclosed indicating quantity & part no. in Techno-Commercial Unpriced Bid and individual price of each & every item in Priced Bid?	Yes / No
6.	Whether the filled-up data sheets for LMSS & LMMC are enclosed?	Yes / No
7.	Whether the name of manufacturer & country of origin indicated?	
8.	Whether the documentary evidence confirming execution of order of identical units?	Yes / No
9.	Whether the authorization from OEM together with warranty back-up enclosed?	Yes / No
10.	Whether DGMS approval letters for electrical components are enclosed?	Yes / No
11.	Whether submission of DGMS approval prior to installation and commissioning (in the event of order) is categorically confirmed?	Yes / No

(Note: Bidder to state the reason(s) in detail where the answer to any of the above is negative)

Offer Ref Dated

(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 Supply House / Distributor. To Specify-	Yes / No
2.2	If quoted as Supply House / Distributor,	Yes / No
	(a) Whether submitted valid and proper authorization letter from manufacturer confirming that bidder is their authorized Supply House for the product offered ?	Yes / No
	(b) Whether manufacturer's back-up Warranty/Guarantee certificate submitted?	Yes / No
3.0	Whether ORIGINAL Bid Bond (not copy of Bid Bond) Sent separately as per the format vide ANNEXURE – VII (Revised) mentioned in the "General Terms & Conditions" for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement? If YES, provide details.	Yes / No
	(a) Amount :	
	(b) Name of issuing Bank :	
	(c) Validity of Bid Bond :	
3.1	Whether offered firm prices ?	Yes / No
3.2	Whether quoted offer validity of 180 days from the date of closing of tenders ?	Yes / No
3.3	Whether quoted a firm delivery period? Delivery in _____ weeks_____	Yes / No ___Weeks
3.4	Whether agreed to the NIT Warranty clause ?	Yes / No
3.5	Whether confirmed acceptance of tender Payment Terms.	Yes / No
3.6	Whether confirmed to submit PBG as asked for in NIT ?	Yes / No
3.61	Whether agreed to submit PBG within 30 days of placement of order ?	Yes / No
3.7	Whether Price submitted as per Price Schedule (refer Para 6.0 of BRC vide Annexure-II)?	Yes / No
3.71	Whether the quoted price is inclusive of Commissioning spares?	Yes / No
3.72	Whether all the items of tender quoted?	Yes / No
6.73	Whether confirmed that all spares & consumables will be supplied for a minimum period of 10 years ?	Yes / No
3.74	Whether cost of Recommended Spares for 2 years of operations quoted ?	Yes / No
3.8	Whether quoted as per NIT (without any deviations)?	Yes / No
3.81	Whether quoted any deviation?	Yes / No
3.82	Whether deviation separately highlighted?	Yes / No
3.9	Whether indicated the country of origin for the items quoted?	Yes / No

3.91	Whether technical literature / catalogue enclosed?	Yes / No
3.92	Whether weight & volume of items offered indicated?	Yes / No
4.0	For Foreign Bidders - Whether offered FOB / FCA port of despatch including sea / air worthy packing & forwarding ?	Yes / No
4.1	For Foreign Bidders – Whether port of shipment indicated. To specify:	Yes / No
4.2	For Foreign Bidders only - Whether indicated ocean freight up to Kolkata port (Excluding marine insurance) ?	Yes / No
4.3	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?	
5.0	For Indian Bidders – Whether indicated the place from where the goods will be dispatched. To specify :	Yes / No
5.1	For Indian Bidders – Whether road transportation charges up to Duliajan quoted?	Yes / No
5.2	For Indian Bidders only - Whether offered Ex-works price including packing/forwarding charges?	Yes / No
5.3	For Indian Bidders only - Whether indicated import content in the offer ?	Yes / No
5.4	For Indian Bidders only - Whether offered Deemed Export prices?	Yes / No
5.5	For Indian Bidders only – Whether all applicable Taxes & Duties have been quoted ?	Yes / No
6.0	Whether all BRC/BEC clauses accepted ?	Yes / No
7.0	Whether confirmed to offer the equipment for Pre-despatch/shipment Inspection & testing?	Yes / No
7.1	Whether Pre-despatch/shipment inspection & testing charges applicable?	Yes / No
7.2	If Pre-despatch/shipment inspection & testing charges applicable, whether quoted separately on lumpsum basis?	Yes / No
7.3.	Whether confirmed to carry out Installation & Commissioning of the equipment at Duliajan(Assam) ?	Yes / No
7.4	Whether Installation & Commissioning charge applicable?	Yes / No
7.5	If Installation/ Commissioning charges applicable, whether separately quoted on lumpsum basis?	Yes / No
7.6	Whether to & fro air fares, boarding/lodging of the commissioning personnel at Duliajan, Assam(India) included in the quoted charges ?	Yes / No
7.7	Whether confirmed that all Service, Income, Corporate tax etc. applicable under Installation/ Commissioning & Training (as applicable) are included in the prices quoted ?	Yes / No
8.0	Whether Integrity Pact with digital signature uploaded?	Yes / No
9.0	Whether all the clauses in the Integrity Pact has been accepted?	Yes / No

Offer Ref Dated