

**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](mailto:materials@oilindia.in) ; [erp\\_mm@oilindia.in](mailto:erp_mm@oilindia.in); mmfd1@oilindia.in

**Tender No. & Date : SDG7359P16/09**

Tender Fee : INR 4,500.00 OR USD 100.00

Bid Security Amount : Applicable

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

Bid Closing on : 19.08.2015 ( at 11.00 Hrs. IST )

Bid Opening on : 19.08.2015 ( at 14.00 Hrs. IST)

Performance Guarantee : Applicable

**OIL INDIA LIMITED** invites Global Tenders for items detailed below:

<b>Item No./Mat. Code</b>	<b>Material Description</b>	<b>QTY.</b>	<b>UOM</b>
<u>10</u>	SUPPLY, INSTALLATION & COMMISSIONING OF CHEMICAL INJECTION SYSTEM 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	4	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) including Amendments & Addendum to “General Terms & Conditions” for e-Procurement.

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

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

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

- a) Original Bid Security along with 2 set of photocopy.
- b) Details Catalogue and any other document which have been specified to be submitted in original.

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

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

**A screen shot in this regard is given below.**

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

**Display RFx Response:**

Edit | Print Preview | **Technical RFx Response** | Close

RFx Response Number 60006452 RFx Number TEST2 Status  
RFx Owner WIPRO\_TEST1 Total Value 0.00 INR RFx R

RFx Information | Items | **Notes and Attachments** | Comments

Basic Data | Questions

Event Parameters

Currency: Indian Rupee

Detailed Price Information: Price with Conditions

Terms of Payment: 9010 90% against despatch+10% after rec

Service and Delive  
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Status and Statist  
Created C  
Created B  
Last Processed C  
Last Processed B

▼ Partners and Delivery Information

Details Send E-Mail Call Clear

Function	Number	Name	Valid fr
The table does not contain any data			

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

**Note :**

- \* The “Techno-Commercial Unpriced Bid” shall contain all techno-commercial details **except the prices**.
- \*\* The “Price bid” must contain the price schedule and the bidder’s commercial terms and conditions. For uploading Price Bid, first click on Sign Attachment, a browser window will open, select the file from the PC and click on Sign to sign the Sign. On Signing a new file with extension .SSIG will be created. Close that window. Next click on Add 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 clock on OK to save the File.

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

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

8.0 The Integrity Pact is applicable against this tender .OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide Annexure XII of the tender document. This Integrity Pact proforma has been duly signed digitally by OIL’s competent signatory. The proforma has to be returned by the bidder (along with the technical bid) duly signed (digitally) by the same signatory

who signed the bid, i.e., who is duly authorized to sign the bid. Uploading the Integrity Pact with digital signature will be construed that all pages of the Integrity Pact has been signed by the bidder's authorized signatory who sign the Bid. **If any bidder refuses to sign Integrity Pact or declines to submit Integrity Pact with the offer, their bid shall be rejected straightway.**

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

- 1. SHRI RAGHAW SHARAN PANDEY, IAS(Retd.),**  
e-Mail ID : [rspandey\\_99@yahoo.com](mailto:rspandey_99@yahoo.com)
- 2. SHRI RAJIV MATHUR, IPS(Retd.),**  
e-Mail ID : [rajivmathur23@gmail.com](mailto:rajivmathur23@gmail.com)

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**SCOPE OF SUPPLY : SUPPLY, INSTALLATION & COMMISSIONING OF  
CHEMICAL INJECTION SYSTEM.**

**QUANTITY : 4 Nos.**

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**1.0 CHEMICAL INJECTION SYSTEM :**

Each set of chemical injection system shall be comprising of the following components -

**A) Chemical Injection Mandrel – 01 No.**

Chemical Injection mandrel, for outside mounting valves, 73 mm (2.7/8") OD EUE, 62 mm (2.441") ID, 1.22 meter (4ft) long, L-80 Grade with ends 73 mm (2.7/8") OD EUE 8RD API tubing threaded box up and pin down.

The mandrel shall be having an exterior ported lug with 12.7 mm (1/2") NPT socket connection, suitable for mounting 25.4 mm (1") OD chemical injection valves and check valve assemblies. There shall also be having suitable guard plates to protect the chemical injection valve during tubing running & pulling out operation.

The maximum O.D of the mandrel should not be more than 4.5" .

**B) Chemical Injection Valve & reverse flow check valve – 1 set**

Chemical Injection valve, 25.4 mm (1") OD size, with 3/8" Inlet, 1/2 NPT Male Outlet, Port size : 1/4", compatible to install in the chemical injection Mandrel as mentioned above.

The valve shall be having spring-loaded operation & setting tool allowing easy adjustment of valve injection pressure. The chemical injection valve shall be having integral reverse flow check valve or fitted with reverse flow check valves. The material of valve shall be SS 316 for body, Inconel for power spring, and Tungsten Carbide for ball & seat.

The valve shall be suitable for downhole injection of corrosion inhibitors and various chemicals to treat, intermittently or continuously, harmful deposits, wax/asphaltene and corrosion in the tubing or around downhole tools. This valve shall be useful for both annular and injection control-line applications.

The chemical injection valve shall be provided with 01 set of compete redress kit.

**C) Control Line with accessories - 01 set**

Control line, seamless and continuous, SS 316 annealed, 3/8" OD x 0.049" WT x 3000 m long, 4500 psi WP, 250OF operating temperature, wrapped in a wooden/plastic drum, with the following accessories

a) Strip, for clamping control line, SS 316, 3/8" width, 0.025" thick, in 100 ft rolls for clamping control line to tubing. Qty – 35 rolls

- b) Buckles, suitable for 3/8" strip, SS 316, in boxes of 100 nos. Qty – 35 boxes
- c) Strip bending tool, suitable for 3/8" strip, Make Bandit or equivalent. Qty – 01 no
- d) Tubing cutter, suitable for cutting up to 1" OD tube, Make Ridgid No 105 or equivalent, with 01 no spare cutting wheel. Qty – 01 no
- e) Various tube fitting, SS 316, WP 5000 psi, Make Parker/ Swagelook / Hoke / Gyrolock or equivalent.

- I. Male connector, 3/8" tube x 1/4" NPT pin. Qty - 02 nos
- II. Male connector, 3/8" tube x 3/8" NPT pin. Qty - 02 nos.
- III. Male connector, 3/8" tube x 1/2" NPT pin. Qty - 02 nos
- IV. Male connector, 3/8" tube x 3/4" NPT pin. Qty - 04 nos.
- V. Tube plug, for capping tube end, pin type, 3/8". Qty – 02 nos.
- VI. Tube plug, for capping tube, plug type, 3/8". Qty – 02 nos.
- VII. Union, 3/8" tube x 3/8" tube. Qty – 04 nos.
- VIII. Ferrule / Ferrule lock for 3/8" tube. Qty – 10 nos.
- IX. Nipple, 3/8" NPT pin x 3/8" NPT pin, 4" long. Qty – 02 nos.
- X. Nipple, 1/2" NPT pin x 1/2" NPT pin, 4" long. Qty – 02 nos.
- XI. Nipple, 3/4" NPT pin x 3/4" NPT pin, 4" long. Qty – 02 nos
- XII. Needle valve, 1/2" NPT Box x 1/2" NPT Box. Qty – 02 nos.
- XIII. Needle valve, 3/4" NPT Box x 3/4" NPT Box. Qty – 02 nos.
- XIV. Tee, 3/8" NPT Box x 3/8" NPT Box x 3/8" NPT Box. Qty – 02 nos.
- XV. Tee, 3/4" NPT Box x 3/4" NPT Box x 3/4" NPT Box. Qty – 02 nos.

#### **D) Wellhead Adapter Spool – 01 no.**

Wellhead Adapter Spool, for chemical dosing system, conforming to API 6A standard,

Generally conforming to drawing no OIL/PDNO/P&D/020/A-1/1.

- a) Materials : Minimum API 60 K, PSL1, U, AA, PR1, Cast/Forged Alloy steel.
- b) Top connection: Flanged, 3 1/8" x 5000 psi WP, RX 35 ring grooved, with internal 2 7/8" OD EUE API 8 TPI RD Tubing Thread for pick up.
- c) Bottom connection: Flanged, 7 1/16" x 5000 psi WP, RX 46 ring grooved, with internal 2 7/8" OD EUE 8 TPI RD Tubing Thread for hanging tubing (4000 m X 6.5 ppf).
- d) Minimum bore : 2.347" (Drift diameter).
- e) Chemical Injection port : Suitable provision for installing 3/8" control line for chemical injection system, with 3/4" port and 3/4" NPT thread at top & bottom.
- f) Accessories : The following accessories shall be provided along with the spool
  - I. Ring joint gasket, RX 35 – 01 no for each spool.
  - II. Ring joint gasket, RX 46 – 01 no for each spool.
  - III. Studs & nuts, 1 1/8" x 6 1/4" – 08 sets for each spool.
  - IV. Studs & nuts, 1 3/8" x 11 1/4" – 12 sets for each spool.

#### **E) Chemical Pumping package-01 set**

Skid mounted chemical pumping system complete with the followings

- a) Electric motor driven Reciprocating Plunger type chemical dosing pump, 3 phase motor with starter panel. Pumping capacity 0-200 Ltr/hr & WP 4000 psig. If required pumping capacity may be achieved by engaging two pumps simultaneously. Equal no. Of additional pumps will be required as standby. The Pump shall be suitable for continuous duty handling flow improver of viscosity 85

cP @ 40°C. Pump suitable for operating temperature of 40 - 60°C. The pump shall have manual adjustment facility for discharge rate, and suitable check valves at suction and delivery along with a strainer at suction side. The Pump shall have spring loaded safety valves to protect it from any abnormal pressure rise in delivery. Liquid - Fluid end (wetted parts) of pump suction & discharge end, and plunger shall be of SS 304, and Gland packing shall be of PTFE.

b) The motor shall be 3 phase, squirrel cage, AC Induction motor Motor shall be suitable for  $415 \pm 6\%$  volts, 3 Phase,  $50 \text{ Hz} \pm 3\%$  Frequency, AC supply and should withstand high voltage fluctuation. The motor shall be Direct Coupled with bi-directional fan at NDE. The motor shall bear name plate with name of manufacturer, frame size, rated voltage, rated output, current, frequency, type of duty, class of insulation, no. of phases, speed in rpm at rated output, degree of protection, winding connections, amb temp, bearing sizes, and year of manufacture. Two nos of earthing studs to be provided on both sides of the motor. The motors shall be provided with necessary DOL starters. All starters shall be suitably mounted on a frame welded and supported on the master skid of the unit, with proper earthing. There shall be one Junction Box mounted on skid for all the incoming cables of the starters. OIL shall supply and terminate one incoming cable in the junction box for supplying power to the pumps of one skid.

c) The dosing pump system shall also have flow meter, various isolation valves, instrumentation & tubings /pipe for pump suction & delivery, and any other equipment as required for operation and safety of the equipments.

d) Dosing package shall be mounted on a common skid, though Tank may provided with individual skid interconnected with suitable piping, Skid Frame shall be robust with suitable cross members for rigidity and painted with Anti Acid Alkali Epoxy paint. All pumps, tanks and system piping shall be rigidly supported to the skid frame for vibration free stand alone operation. The skid shall have suitable lifting lugs for lifting with crane & slings .

e) The dosing system shall be provided with high pressure delivery connection line from pump to Wellhead (1", 5000 psig WP, 40 m long), with suitable fitting for connection with control line at well head adaptor spool.

## **2.0 GENERAL NOTES FOR BIDDERS :**

1) The bidder shall confirm that the goods, materials to be supplied shall be new, of recent make, of the best quality & workmanship.

2) The bidder shall confirm that the materials (all the 4 nos.) shall be guaranteed for a period of 12 months from the date of successful commissioning of 2 nos. Chemical Injection System, against defects arising from faulty materials, workmanship or design. Defective goods / materials or parts notified by OIL to the Seller shall be replaced immediately by the Seller on FOR 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.

3) For reason of compatibility of equipment and better coordination during installation, all the items shall be procured from same source.

#### **A) Item note for chemical injection mandrel**

1) The Bidder shall submit the relevant drawing, literature etc along with technical bid as detailed below

a) Cross Sectional Drawing showing major dimension.

2) Chemical Injection Mandrels shall be manufactured conforming to API Spec. 5CT. Mandrels shall be seamless, threaded and fitted with couplings as per API Spec. 5CT. Copy of valid API Spec 5CT certificate as on BCD of this tender, from the manufacturer shall be submitted along with the offer.

3) Chemical Injection Mandrels shall be painted/Coated as per API Spec. 5CT to protect the materials from rusting while in transit/storage.

4) PHYSICAL/CHEMICAL TESTS:

Following tests shall be carried out on each heat of steel from which the mandrels are manufactured as per API spec. 5CT and test results thereof shall be submitted to OIL.

a) Heat Analysis.

b) Product Analysis.

c) Recheck Analysis.

d) Mill-Control Check Analysis.

e) Tensile tests.

f) Yield strength tests.

g) Mill control tests.

h) Dimension and weight tests including drift and straightness.

5) If any materials fails while conducting the above tests on Chemical Injection Mandrels, re-test of the same shall be carried out as per API Spec. 5CT.

6) Hydraulic Test: The bidder shall confirm to carry out hydraulic testing of Chemical injection mandrel at 1.5 times of working pressure, and test certificate shall be forwarded along with the material.

7) Non-Destructive Tests: Non-destructive tests shall be carried out as specified in API Spec 5CT for the chemical injection mandrels.

8) End threading, gauging and thread inspection: Threading, gauging and thread inspection of the chemical injection mandrels shall be done as per API Spec. 5B.

9) Identification marking: Each chemical injection mandrel shall bear the markings for manufacturer's logo/name, size, length, weight, grade, thread details, working pressure. Additionally, OIL's purchase order number shall be marked suitably for permanent retention.

10) Third party inspection: The chemical injection mandrel shall be inspected by any of OIL's approved TPI agency (viz., M/s Lloyds, M/s RITES, M/s IRS, M/s DNV, M/s Bureau Veritas & M/s. Tuboscope Vetco), and all inclusive charges for Third Party Inspection to be indicated separately.

11) The scope of third party inspection for chemical injection mandrel shall be as follows



- a) Raw material identification/verification.
- b) Random stage inspection during manufacturing.
- c) Audit and endorsement of all chemical analysis and physical test reports.
- d) Witness dimensional checks.
- e) Witness hydrostatic tests.
- f) Visual inspection for imperfections.
- g) Wall thickness measurement.
- h) End area defect identification.
- i) Thread inspection 5B.
- j) Any other test(s), if desired by the TPI agency that has not been spelt above.
- k) Issue of inspection certificate for above and material release note.

12) Inspection by OIL : OIL reserves the right to witness/inspect the material at various stages starting from raw materials to finished product and supplier has to organize for the same. Hence, the supplier shall intimate OIL for the above joint inspection minimum 10 days ahead of scheduled date of inspection. However, witnessing/inspecting of the above will be at OIL's discretion.

### **B) Item note for chemical injection valve**

- 1) The Bidder shall submit the relevant drawing and literature, along with technical bid.
  - a) Detailed catalogue, literature, drawing etc showing major dimension for Chemical injection valve.
  - b) Valve assembly and disassembly procedure.
  - c) Valve setting procedure.
  - d) Spares parts list with part numbers.
- 2) The chemical injection valves should be as per API specification 19G2 (latest edition). The bidder must submit valid API certificate along with their Quotation.
- 3) The bidder shall confirm that material certification of the raw material used in manufacturing of the chemical injection valves shall meet the standard service requirement as per environment service class E4 of API 19G2 specification, and certificate of conformance shall be submitted along with the material supplied.
- 4) The bidder shall confirm that Probe or travel, Load rate, Back-check, Open, Close, Shelf & Port/seat leakage rate tests shall be carried out for the chemical injection valves as per product functional testing grade F2 of API 19G2 specification, and certificate of conformance shall be submitted along with the material supplied.
- 5) The bidder shall confirm that the valves shall be manufactured as per Quality Control Grade Q1 of API 19G2 specification and certificate of conformance shall be submitted along with material supplied.
- 6) The reverse flow check valves shall have to be factory fitted on the chemical injection valves supplied, or shall be integral check valves .
- 7) Marking : Each chemical injection valve shall have unique identification number permanently engraved on it. The identification number should not be washed during working life of the gas lift valve.

8) Third party inspection : The chemical injection valves shall be inspected by any of OIL's approved TPI agency (viz., M/s Lloyds, M/s RITES, M/s IRS, M/s DNV, M/s Burea Veritas & M/s. Tuboscope Vetco) for fulfilling the following requirements, and all inclusive charges for Third Party Inspection to be indicated separately.

- a) Material identification as per supply order.
- b) Dimensional check as per the manufacturer's drawing.
- c) Tests on Chemical injection valves as per API 12G2.

9) Inspection by OIL : OIL reserves the right to witness/inspect the material at various stages starting from raw materials to finished product and supplier has to organize for the same. Hence, the supplier shall intimate OIL for the above joint inspection minimum 10 days ahead of scheduled date of inspection. However, witnessing/inspecting of the above will be at OIL's discretion.

### **C) Item note for control line**

- 1) The control line shall be clean of any debris etc, in inside which may block the passage.
- 2) The control line shall be wound on a wooden/ plastic drum and covered suitably to prevent any damage during transportation and installation.
- 3) Any clamps required near top connecting point shall be provided as per recommendation of the OEM.
- 4) The control line shall be hydraulically tested at 7500 psig and hydraulic test certificate is to be provided along with material supply.
- 5) Third party inspection : The control lines shall be inspected by any of OIL's approved TPI agency (viz., M/s Lloyds, M/s RITES, M/s IRS, M/s DNV, M/s Burea Veritas & M/s. Tuboscope Vetco) for fulfilling the following requirements, and all inclusive charges for Third Party Inspection to be indicated separately.

- a) Material identification as per supply order.
- b) Dimensional check as per the manufacturer's drawing.

### **D) Item note for well head adapter spool**

1) The Bidder shall be an API6A licensee manufacturer of well-head fittings and copy of valid API6A certificate shall be submitted along with technical bid. OR, the bidder may be an authorized dealer of an API6A licensee well head fitting manufacturer (the principal). In case of authorized dealer, valid authorization / dealership certificate issued by the principal and valid API6A certificate of the principal shall be submitted along with the technical bid.

- 2) The bidder shall submit the relevant drawing and literature, along with technical bid.
  - a) Detailed bill of material & cross sectional drawing showing major dimension of the adapter spool.
  - b) Quality assurance plan (QAP) with critical stages of inspections for manufacturing of adapter spool.

3) The design of the spool shall be generally conforming to drawing no OIL/PDNO/P&D/020/A-1/1. However, in case of any change in design suggested

by the bidder while fulfilling the technical specifications, the drawing shall be submitted along with the technical bid for necessary approval.

4) Identification marking: Each adapter spool shall bear the markings for manufacturer's logo/name, flange sizes, Ring sizes, grade, and working pressure. Additionally, OIL's purchase order number shall be marked suitably for permanent retention.

5) In case of placement of order, the bidder (supplier) shall submit test certificates along with the supply for the raw material used (viz., chemical composition, physical properties etc.), final dimensional check and any other test conducted as per the QAP.

6) Third party inspection: The wellhead adapter spool shall be inspected by any of OIL's approved TPI agency (viz., M/s Lloyds, M/s RITES, M/s IRS, M/s DNV, M/s Burea Veritas & M/s. Tuboscope Vetco), and all inclusive charges for Third Party Inspection to be indicated separately.

7) The scope of third party inspection for chemical injection mandrel shall be as follows

- a) Raw material identification/verification.
- b) Chemical analysis and physical test reports.
- d) Dimensional checks against approved drawing.
- e) Hydrostatic tests.
- f) Visual inspection for imperfections.
- g) Equipment marking.
- j) Any other test(s), if desired by the TPI agency that has not been spelt above.
- k) Issue of inspection certificate for above and material release note.

8) Inspection by OIL : OIL reserves the right to witness/inspect the material at various stages starting from raw materials to finished product and supplier has to organize for the same. Hence, the supplier shall intimate OIL for the above joint inspection minimum 10 days ahead of scheduled date of inspection. However, witnessing/inspecting of the above will be at OIL's discretion.

#### **E) Item Note for pumping package**

1) Pump and motor shall be unitized on a common MS skid base having coupling guard and foundation bolts.

2) Motor/starter shall be guaranteed for one year after date of commissioning and tested for routine tests at factory. Guarantee certificate & the factory test report of the motor should be submitted with the pump unit.

3) Packing should be suitable for transit damage & protection against tropical rains.

4) The bidder has to submit the following documents along with their technical offer.

- I. Detail technical literature for all equipment
- II. Detailed layout drawing.
- II. Detailed Electrical Line Diagram.
- III. Frame size & make of the offered motor.

- 5) The bidder has to submit the following documents along with material supply
- I. Operation & Maintenance (O & M) Manual.
  - II. Guarantee Certificate.
- 6) The bidder shall quote for recommended spares along with price, part nos. of individual items for two years trouble free operation of the dozing unit. While quoting for these spares, the bidder shall take into account the consumption pattern as deemed fit. These two year spares shall also be considered for evaluation. However, procurement of the whole lot of spares or part thereof shall be at the discretion of OIL.
- 7) The bidders shall also confirm availability of all the spares quoted, for a period of 5 (Five) years from the date of supply of the dozing unit.
- 8) The tank should be tested for leakage by filling with water, and test report shall be submitted along with material supply.

#### **F) Item note for Installation & Commissioning**

Installation & commissioning shall be for 02 sets of Chemical Injection System.

Installation & Commissioning shall include providing necessary manpower service, commissioning engineer, tools & tackles and other equipments required for running in downhole equipments, installation of wellhead, hydraulic testing of all equipments as applicable and functional performance testing for 72 hours as per specification while OIL or its nominated agency shall provide and operate the rig.

Installation & Commissioning shall also include providing necessary manpower service, commissioning engineer, tools & tackles and other equipments required for completing the surface connections of the pumping units, hydraulic testing of all equipments & piping as applicable and functional performance testing of pumping unit for 72 hours as per specification.

The commissioning engineer shall be fully responsible and shall take complete control of supervising the installation and commissioning activities of the system at the well site.

It will be the responsibility of the commissioning engineer to bring all necessary tools & tackles, as well as any other necessary equipments, which are not included in the specification but shall be required by the commissioning engineer for installation & commissioning of the downhole equipment, while hydraulic hand pump shall be provided by OIL.

#### **4.0 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, Corporate Tax etc. 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.

**5.0 Payment : Payment shall be released as follows:**

- i) 80 % of the supply value shall be released on supply of the goods against proof of despatch/shipment of the goods.
- ii) Remaining 20 % of the supply value (for all 4 Nos.) along with installation, commissioning charges shall be paid after successful commissioning, testing and acceptance of 2 nos. CIS at site.

OIL may consider making 100 % payment of the Unit value towards supply of the Unit against proof of dispatch/shipment provided bidders agree to pay interest @ 1% above prevailing Bank Rate (CC rate) of State Bank of India for 20 % of the Unit value and also submit Bank Guarantee for the equivalent amount plus interest valid till successful commissioning of Units 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.

6.0 The items covered by this enquiry shall be entitled for customs duty as well as excise duty exemption under Notification Nos. 24/2007-Customs and 16/2007-Central Excise dated 01.03.2007 respectively as amended from time to time under the scope of 'Certificate of Registration' of OIL with Ministry of Science and Technology, Govt. of India. GM (R&D) will issue essentiality certificate for custom/ excise duty exemption for research equipment.

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

**I. BID REJECTION CRITERIA (BRC)**

The bids shall conform generally to the specifications, terms and conditions given in the tender. Bids shall be rejected in case the items offered do not confirm 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 & conditions, the following requirements will have to be particularly met by the bids, without which the offer will be considered as non-respective and rejected.

**A) TECHNICAL:**

**1.0 Bidder's Qualification**

1.1 The bidder shall be an original equipment manufacturer (OEM) of the chemical injection valves & chemical injection mandrel.

OR

1.2 The bidder shall be an authorized dealer / authorized distributor of the chemical injection valves & chemical injection mandrel manufactured by an Original Equipment Manufacturer (OEM).

1.3 In case the bidder is an authorized dealer / authorized distributor, a valid copy of authorization letter / dealership certificate with proper guarantee/warranty back up on the supplied products from the OEM (the principal) shall be submitted along with technical bid.

**2.0 Bidder's Experience**

2.1 In case the bidder is an Original Equipment Manufacturer (OEM),

2.1.1 The bidder (OEM) shall have credential of successful execution of order(s),  
(a) for minimum 01 no. of chemical injection valve & 01 no of chemical injection mandrel

(b) in last 03 years from the original bid closing date of the tender

(c) to any Oil & Gas Industry.

2.2 In case the bidder is an authorized dealer / distributor of OEM,

2.2.1 The principal (OEM) shall have credential of successful execution of order(s),

(a) for minimum 01 no. of chemical injection valve & 01 no of chemical injection mandrel

(b) in last 03 years from the original bid closing date of the tender

(c) to any Oil & Gas Industry.

2.2.2 The bidder (authorized dealer/ distributor) shall have credential of successful execution of order(s) for tender item(s),

- (a) for minimum 01 no. of chemical injection valve & 01 no of chemical injection mandrel
- (b) in last 03 years from the original bid closing date of the tender
- (c) to any Oil & Gas Industry.

2.3 The bidder shall submit details of previous supply of the bidder and the principal, as and where applicable vide para 2.1.1, 2.2.1 and 2.2.2 above, in a tabular format as shown below

COLUMN A) SL NO

COLUMN B) Client / Customer Name and Address/ E-mail address

COLUMN C) Order No / Contract No.

COLUMN D) Date of order

COLUMN E) Technical specifications

COLUMN F) quantity supplied

COLUMN G) Completion date

COLUMN H) Supporting document (to be enclosed).\*

\* The supporting documents to be enclosed in support of the supply experience are as follows,

- (a) Copy(is) of Purchase Order(s) / Contract document(s), and
- (b) Any of the following documents that confirms the successful execution of the order(s)-
  - Performance report from the clients,
  - Bill of lading,
  - Consignee received delivery challan / invoice etc.
  - any other documentary evidence that can substantiate the successful execution of each of the Purchase Orders cited above.

## **(B) COMMERCIAL :**

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

2.0 Bid security of US \$ 15,000.00 or Rs. 9,68,000.00 shall be furnished as a part of the TECHNICAL BID (refer Clause Nos.9.0 & 12.0 (Section A) of “General Terms & Conditions” for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders)). Any bid not accompanied by a proper bid security in ORIGINAL will be rejected without any further consideration. A bid shall be rejected straightway if Original Bid Security is not received within the stipulated date & time mentioned in the Tender and/or if the Bid Security validity is shorter than the validity indicated in Tender and/or if the Bid Security amount is lesser than the amount indicated in the Tender.

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

2.2 The Bid Security shall be valid for one year from the date of tender opening i.e, valid upto 18.08.2016.

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

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

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

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

7.0 Bids containing incorrect statement will be rejected.

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

9.0 Bidders must confirm that Goods, materials or plant(s) to be supplied shall be new of recent make and of the best quality and workmanship and shall be guaranteed for a period of 12(twelve) months from the date of successful commissioning against any defects arising from faulty materials, workmanship or design. Defective goods/materials or parts rejected by OIL shall be replaced immediately by the supplier at the supplier's expenses and no extra cost to OIL.

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

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

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

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

- (A) Total material cost for 4 nos. Chemical Injection System.
- (B) Total cost of 2 years maintenance spares of Pumping Package[ref.2.0 E(6)]
- (C) Grand Total Material Cost (A+B)
- (D) Packing & FOB Charges



- (E) Third Party Inspection Charges
- (F) Total FOB Port of Shipment value, ( C+D+E ) above
- (G) Ocean Freight Charges upto Kolkata, India
- (H) Insurance Charges
- (I) Total CIF Kolkata value, ( F+G+H )
- (J) Pre-shipment Inspection charges (by OIL), if any
- (K) Installation & Commissioning charges for 2 Nos. Chemical Injection System
- (L) Total Value, ( I+J+K ) above
- (M) Total value in words :
- (N) Gross Weight :
- (O) Gross Volume

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

- (A) Total material cost for 4 nos. Chemical Injection System.
- (B) Total cost of 2 years maintenance spares of Pumping Package[ref.2.0 E(6)]
- (C) Grand Total Material Cost (A+B)
- (D) Packing and Forwarding Charges
- (E) Third Party Inspection Charges
- (F) Total Ex-works value ( C+D+E )
- (G) Excise Duty, (Please indicate applicable rate of excise duty)
- (H) Sales Tax, (Please indicate applicable rate of Tax)
- (I) Total FOR Despatching station price, ( F+G+H )
- (J) Road Transportation charges to Duliajan
- (K) Insurance Charges
- (L) Total FOR Duliajan value, ( I+J+K )
- (M) Pre-shipment Inspection charges (by OIL), if any
- (N) Installation & Commissioning charges for 2 Nos. Chemical Injection System
- (O) Total Value, ( L+M+N ) above
- (P) Total value in words :
- (Q) Gross Weight :
- (R) Gross Volume :

NOTE : Cost of individual items must be quoted separately.

13.0 Installation/Commissioning charges must be quoted separately on lumpsum basis which shall be considered for evaluation of the offers. These charges should include amongst others to and fro fares, boarding/lodging, local transport at Duliajan and other expenses of supplier's commissioning 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 Technical Bid.

13.1 The bidder shall have to offer the material for Pre-despatch/shipment Inspection by OIL. Pre-despatch/Shipment Inspection charges, if any, must be quoted separately on lumpsum basis which shall be considered for evaluation of the offer. The to and fro fares, boarding/lodging and other enroute expenses of OIL's personnel shall be borne by OIL.

13.2 Bidders must categorically indicate the Installation / Commissioning, Pre-despatch/Shipment Inspection (if any) charges in their offer and must confirm about providing the same in their Technical bid.

**(II) BID EVALUATION CRITERIA (BEC) :**

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

**A. COMMERCIAL :**

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

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

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

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

4.1 When only foreign bidders are involved :

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

- (A) Total material cost for 4 nos. Chemical Injection System.
- (B) Total cost of 2 years maintenance spares of Pumping Package[ref.2.0 E(6)]
- (C) Grand Total Material Cost (A+B)
- (D) Packing & FOB Charges
- (E) Third Party Inspection Charges
- (F) Total FOB Port of Shipment value, ( C+D+E ) above
- (G) Ocean Freight Charges upto Kolkata, India
- (H) Insurance Charges @ 1% of Total FOB Value vide ( F ) above
- (I) Banking Charges @ 0.5% of Total FOB Value vide ( F ) 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 )
- (J) Total CIF Kolkata Value, ( F+G+H+I ) above
- (K) Pre-shipment Inspection charges (by OIL), if any
- (L) Installation & Commissioning charges for 2 Nos. Chemical Injection System
- (M) Total Value, ( J+K+L ) above
- (N) Total value in words :

NOTE : Banking charge in the country of the foreign bidder shall be borne by  
SDG7359P16/09

the bidder.

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

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

- (A) Total material cost for 4 nos. Chemical Injection System.
- (B) Total cost of 2 years maintenance spares of Pumping Package[ref.2.0 E(6)]
- (C) Grand Total Material Cost (A+B)
- (D) Packing and Forwarding Charges
- (E) Third Party Inspection Charges
- (F) Total Ex-works value ( C+D+E )
- (G) Excise Duty, (Please indicate applicable rate of excise duty)
- (H) Sales Tax, (Please indicate applicable rate of Tax)
- (I) Total FOR Despatching station price, ( F+G+H )
- (J) Road Transportation charges to Duliajan
- (K) Insurance Charges @0.5% of Total FOR Despatching Station Value (F) above
- (L) Total FOR Duliajan value, ( I+ J+K )
- (M) Assam Entry Tax, (Please indicate applicable rate )
- (N) Pre-shipment Inspection charges (by OIL), if any
- (O) Installation & Commissioning charges for 2 Nos. Chemical Injection System
- (P) Total Value, ( L+M+N+O ) above
- (Q) Total value in words :

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

4.3 When both foreign and domestic bidders are involved :

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

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

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

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**CHECK LIST****( A ) TECHNICAL 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 “Complied” OR “Not Complied” TO THE FOLLOWING POINTS, IN THE RIGHT HAND COLUMN.

S N	Parameters / Requirements	Complied / Not Complied	Bidder's Remark, if any
A)	CHEMICAL INJECTION SYSTEM Each set of chemical injection system shall be comprising of the following components -		
1	12) Chemical Injection Mandrel – 01 No  Chemical Injection mandrel, for outside mounting valves, 73 mm (2.7/8”) OD EUE, 62 mm (2.441”) ID, 1.22 meter (4ft) long, L-80 Grade with ends 73 mm (2.7/8”) OD EUE 8RD API tubing threaded box up and pin down.  The mandrel shall be having an exterior ported lug with 12.7 mm (1/2”) NPT socket connection, suitable for mounting 25.4 mm (1”) OD chemical injection valves and check valve assemblies. There shall also be having suitable guard plates to protect the chemical injection valve during tubing running & pulling out operation.  The maximum O.D of the mandrel should not be more than 4.5”.		
2	12) Chemical Injection Valve & reverse flow check valve – 1 set  Chemical Injection valve, 25.4 mm (1”) OD size, with 3/8” Inlet, 1/2 NPT Male Outlet, Port size : 1/4”, compatible to install in the chemical injection Mandrel as mentioned above.  The valve shall be having spring-loaded operation & setting tool allowing easy adjustment of valve injection pressure. The chemical injection valve shall be having integral reverse flow check valve or fitted with reverse flow check valves. The material of valve		

	<p>shall be SS 316 for body, Inconel for power spring, and Tungsten Carbide for ball &amp; seat.</p> <p>The valve shall be suitable for downhole injection of corrosion inhibitors and various chemicals to treat, intermittently or continuously, harmful deposits, wax/asphaltene and corrosion in the tubing or around downhole tools. This valve shall be useful for both annular and injection control-line applications.</p> <p>The chemical injection valve shall be provided with 01 set of complete redress kit.</p>		
3	<p>12) Control Line with accessories – 01 set</p> <p>Control line, seamless and continuous, SS 316 annealed, 3/8" OD x 0.049" WT x 3000 m long, 4500 psi WP, 250OF operating temperature, wrapped in a wooden/plastic drum, with the following accessories-</p> <p>a) Strip, for clamping control line, SS 316, 3/8" width, 0.025" thick, in 100 ft rolls for clamping control line to tubing. Qty – 35 rolls  b) Buckles, suitable for 3/8" strip, SS 316, in boxes of 100 nos. Qty – 35 boxes  c) Strip bending tool, suitable for 3/8" strip, Make Bandit or equivalent. Qty – 01 no  d) Tubing cutter, suitable for cutting up to 1" OD tube, Make Ridgid No 105 or equivalent, with 01 no spare cutting wheel. Qty – 01 no  e) Various tube fitting, SS 316, WP 5000 psi, Make Parker/ Swagelook / Hoke / Gyrolock or equivalent.</p> <p>12. Male connector, 3/8" tube x 1/4" NPT pin. Qty – 02 nos  II. Male connector, 3/8" tube x 3/8" NPT pin. Qty – 02 nos.  12. Male connector, 3/8" tube x 1/2" NPT pin. Qty – 02 nos  IV. Male connector, 3/8" tube x 3/4" NPT pin. Qty – 04 nos.  V. Tube plug, for capping tube end, pin type, 3/8". Qty – 02 nos.  VI. Tube plug, for capping tube, plug type, 3/8". Qty – 02 nos.  VII. Union, 3/8" tube x 3/8" tube. Qty – 04 nos.  VIII. Ferrule / Ferrule lock for 3/8" tube. Qty – 10 nos.</p>		

	<p>IX. Nipple, 3/8" NPT pin x 3/8" NPT pin, 4" long. Qty – 02 nos.</p> <p>X. Nipple, 1/2" NPT pin x 1/2" NPT pin, 4" long. Qty – 02 nos.</p> <p>XI. Nipple, 3/4" NPT pin x 3/4" NPT pin, 4" long. Qty – 02 nos</p> <p>XII. Needle valve, 1/2" NPT Box x 1/2" NPT Box. Qty – 02 nos.</p> <p>XIII. Needle valve, 3/4" NPT Box x 3/4" NPT Box. Qty – 02 nos.</p> <p>XIV. Tee, 3/8" NPT Box x 3/8" NPT Box x 3/8" NPT Box. Qty – 02 nos.</p> <p>XV. Tee, 3/4" NPT Box x 3/4" NPT Box x 3/4" NPT Box. Qty – 02 nos.</p>		
4	<p>D) Wellhead Adapter Spool – 01 no</p> <p>Wellhead Adapter Spool, for chemical dosing system, conforming to API 6A standard, Generally conforming to drawing no OIL/PDNO/P&amp;D/020/A-1/1.</p> <p>a) Materials : Minimum API 60 K, PSL1, U, AA, PR1, Cast/Forged Alloy steel.</p> <p>b) Top connection: Flanged, 3 1/8" x 5000 psi WP, RX 35 ring grooved, with internal 2 7/8" OD EUE API 8 TPI RD Tubing Thread for pick up.</p> <p>c) Bottom connection: Flanged, 7 1/16" x 5000 psi WP, RX 46 ring grooved, with internal 2 7/8" OD EUE 8 TPI RD Tubing Thread for hanging tubing (4000 m X 6.5 ppf).</p> <p>d) Minimum bore : 2.347" (Drift diameter).</p> <p>e) Chemical Injection port : Suitable provision for installing 3/8" control line for chemical injection system, with 3/4" port and 3/4" NPT thread at top &amp; bottom.</p> <p>f) Accessories :The following accessories shall be provided along with the spool</p> <p>I. Ring joint gasket, RX 35 – 01 no for each spool.</p> <p>II. Ring joint gasket, RX 46 – 01 no for each spool.</p> <p>12. Studs &amp; nuts, 1 1/8" x 6 1/4" – 08 sets for each spool.</p> <p>IV. Studs &amp; nuts, 1 3/8" x 11 1/4" – 12 sets for each spool.</p>		
5	<p>E) Chemical Pumping package-01 set</p> <p>Skid mounted chemical pumping system complete with the followings</p> <p>a) Electric motor driven Reciprocating Plunger type chemical dosing pump, 3 phase motor</p>		

<p>with starter panel. Pumping capacity 0-200 Ltr/hr &amp; WP 4000 psig. If required pumping capacity may be achieved by engaging two pumps simultaneously. Equal no. Of additional pumps will be required as standby. The Pump shall be suitable for continuous duty handling flow improver of viscosity 85 Cp @ 40°C. Pump suitable for operating temperature of 40 – 60°C. The pump shall have manual adjustment facility for discharge rate, and suitable check valves at suction and delivery along with a strainer at suction side. The Pump shall have spring loaded safety valves to protect it from any abnormal pressure rise in delivery. Liquid – Fluid end (wetted parts) of pump suction &amp; discharge end, and plunger shall be of SS 304, and Gland packing shall be of PTFE.</p> <p>b) The motor shall be 3 phase, squirrel cage, AC Induction motor Motor shall be suitable for <math>415 \pm 6\%</math> volts, 3 Phase, <math>50 \text{ Hz} \pm 3\%</math> Frequency, AC supply and should withstand high voltage fluctuation. The motor shall be Direct Coupled with bi-directional fan at NDE. The motor shall bear name plate with name of manufacturer, frame size, rated voltage, rated output, current, frequency, type of duty, class of insulation, no. of phases, speed in rpm at rated output, degree of protection, winding connections, amb temp, bearing sizes, and year of manufacture. Two nos of earthing studs to be provided on both sides of the motor. The motors shall be provided with necessary DOL starters. All starters shall be suitably mounted on a frame welded and supported on the master skid of the unit, with proper earthing. There shall be one Junction Box mounted on skid for all the incoming cables of the starters. OIL shall supply and terminate one incoming cable in the junction box for supplying power to the pumps of one skid.</p> <p>c) The dosing pump system shall also have flow meter, various isolation valves, instrumentation &amp; tubings /pipe for pump suction &amp; delivery, and any other equipment as required for operation and safety of the equipments.</p> <p>d) Dosing package shall be mounted on a common skid, though Tank may provided with individual skid interconnected with suitable piping, Skid Frame shall be robust with suitable cross members for rigidity and</p>		
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	<p>Painted with Anti Acid Alkali Epoxy paint. All pumps, tanks and system piping shall be rigidly supported to the skid frame for vibration free stand alone operation. The skid shall have suitable lifting lugs for lifting with crane &amp; slings .</p> <p>e) The dosing system shall be provided with high pressure delivery connection line from pump to Wellhead (1", 5000 psig WP, 40 m long), with suitable fitting for connection with control line at well head adaptor spool.</p>		
B)	TENDER NOTES		
6	1) The bidder shall confirm that the goods, materials to be supplied shall be new, of recent make, of the best quality & workmanship.		
7	2) The bidder shall confirm that the materials shall be guaranteed for a period of 18 months from the date of despatch or 12 months from the date of receipt at destination, whichever is earlier, against defects arising from faulty materials, workmanship or design. Defective goods / materials or parts notified by OIL to the Seller shall be replaced immediately by the Seller on FOR 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.		
8	3) For reason of compatibility of equipments and better coordination during installation, all the items shall be procured from same source.		
9	<p>12) Item note for chemical injection mandrel</p> <p>1) The Bidder shall submit the relevant drawing, literature etc along with technical bid as detailed below</p> <p>a) Cross Sectional Drawing showing major dimension.</p> <p>2) Chemical Injection Mandrels shall be manufactured conforming to API Spec. 5CT. Mandrels shall be seamless, threaded and fitted with couplings as per API Spec. 5CT. Copy of valid API Spec 5CT certificate as on BCD of this tender, from the manufacturer shall be submitted along with the offer.</p> <p>3) Chemical Injection Mandrels shall be painted/Coated as per API Spec. 5CT to protect the materials from rusting while in transit/storage.</p>		



	<p>4) PHYSICAL/CHEMICAL TESTS: Following tests shall be carried out on each heat of steel from which the mandrels are manufactured as per API spec. 5CT and test results thereof shall be submitted to OIL.</p> <ul style="list-style-type: none"> <li>a) Heat Analysis.</li> <li>b) Product Analysis.</li> <li>c) Recheck Analysis.</li> <li>d) Mill-Control Check Analysis.</li> <li>e) Tensile tests.</li> <li>f) Yield strength tests.</li> <li>g) Mill control tests.</li> <li>h) Dimension and weight tests including drift and straightness.</li> </ul> <p>5) If any materials fails while conducting the above tests on Chemical Injection Mandrels, re-test of the same shall be carried out as per API Spec. 5CT.</p> <p>6) Hydraulic Test: The bidder shall confirm to carry out hydraulic testing of Chemical injection mandrel at 1.5 times of working pressure, and test certificate shall be forwarded along with the material.</p> <p>7) Non-Destructive Tests: Non-destructive tests shall be carried out as specified in API Spec 5CT for the chemical injection mandrels.</p> <p>8) End threading, gauging and thread inspection: Threading, gauging and thread inspection of the chemical injection mandrels shall be done as per API Spec. 5B.</p> <p>9) Identification marking: Each chemical injection mandrel shall bear the markings for manufacturer's logo/name, size, length, weight, grade, thread details, working pressure. Additionally, OIL#s purchase order number shall be marked suitably for permanent retention.</p> <p>10) Third party inspection: The chemical injection mandrel shall be inspected by any of OIL's approved TPI agency (viz., M/s Lloyds, M/s RITES, M/s IRS, M/s DNV, M/s Burea Veritas &amp; Tuboscope Vetco), and all inclusive charges for Third Party Inspection to be indicated separately.</p>		
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	<p>11) The scope of third party inspection for chemical injection mandrel shall be as follows</p> <ul style="list-style-type: none"> <li>a) Raw material identification/verification.</li> <li>b) Random stage inspection during manufacturing.</li> <li>c) Audit and endorsement of all chemical analysis and physical test reports.</li> <li>d) Witness dimensional checks.</li> <li>e) Witness hydrostatic tests.</li> <li>f) Visual inspection for imperfections.</li> <li>g) Wall thickness measurement.</li> <li>h) End area defect identification.</li> <li>i) Thread inspection 5B.</li> <li>j) Any other test(s), if desired by the TPI agency that has not been spelt above.</li> <li>k) Issue of inspection certificate for above and material release note.</li> </ul> <p>12) Inspection by OIL : OIL reserves the right to witness/inspect the material at various stages starting from raw materials to finished product and supplier has to organize for the same. Hence, the supplier shall intimate OIL for the above joint inspection minimum 10 days ahead of scheduled date of inspection. However, witnessing/inspecting of the above will be at OIL#s discretion.</p>		
10	<p>12) Item note for chemical injection valve</p> <p>1) The Bidder shall submit the relevant drawing and literature, along with technical bid.</p> <ul style="list-style-type: none"> <li>a) Detailed catalogue, literature, drawing etc showing major dimension for Chemical injection valve.</li> <li>b) Valve assembly and disassembly procedure.</li> <li>c) Valve setting procedure.</li> <li>d) Spares parts list with part numbers.</li> </ul> <p>2) The chemical injection valves should be as per API specification 19G2 (latest edition). The bidder must submit valid API certificate along with their Quotation.</p> <p>3) The bidder shall confirm that material certification of the raw material used in manufacturing of the chemical injection valves shall meet the standard service requirement as per environment service class E4 of API 19G2 specification, and certificate of conformance</p>		

<p>shall be submitted along with the material supplied.</p> <p>4) The bidder shall confirm that Probe or travel, Load rate, Back-check, Open, Close, Shelf &amp; Port/seat leakage rate tests shall be carried out for the chemical injection valves as per product functional testing grade F2 of API 19G2 specification, and certificate of conformance shall be submitted along with the material supplied.</p> <p>5) The bidder shall confirm that the valves shall be manufactured as per Quality Control Grade Q1 of API 19G2 specification and certificate of conformance shall be submitted along with material supplied.</p> <p>6) The reverse flow check valves shall have to be factory fitted on the chemical injection valves supplied, or shall be integral check valves .</p> <p>7) Marking : Each chemical injection valve shall have unique identification number permanently engraved on it. The identification number should not be washed during working life of the gas lift valve.</p> <p>8) Third party inspection : The chemical injection valves shall be inspected by any of OIL's approved TPI agency (viz., M/s Lloyds, M/s RITES, M/s IRS, M/s DNV &amp; M/s Burea Veritas) for fulfilling the following requirements, and all inclusive charges for Third Party Inspection to be indicated separately.</p> <p>a) Material identification as per supply order.</p> <p>b) Dimensional check as per the manufacturer's drawing.</p> <p>c) Tests on Chemical injection valves as per API 12G2.</p> <p>9) Inspection by OIL : OIL reserves the right to witness/inspect the material at various stages starting from raw materials to finished product and supplier has to organize for the same. Hence, the supplier shall intimate OIL for the above joint inspection minimum 10 days ahead of scheduled date of inspection. However, witnessing/inspecting of the above will be at OIL's discretion.</p>		
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11	<p>12) Item note for control line</p> <p>1) The control line shall be clean of any debris etc, in inside which may block the passage.</p> <p>2) The control line shall be wound on a wooden/ plastic drum and covered suitably to prevent any damage during transportation and installation.</p> <p>3) Any clamps required near top connecting point shall be provided as per recommendation of the OEM.</p> <p>4) The control line shall be hydraulically tested at 7500 psig and hydraulic test certificate is to be provided along with material supply.</p> <p>5) Third party inspection : The control lines shall be inspected by any of OIL's approved TPI agency (viz., M/s Lloyds, M/s RITES, M/s IRS, M/s DNV, M/s Burea Veritas &amp; M/s. Tuboscope Vetco) for fulfilling the following requirements, and all inclusive charges for Third Party Inspection to be indicated separately.</p> <p>a) Material identification as per supply order.</p> <p>b) Dimensional check as per the manufacturer's drawing.</p>		
12	<p>D) Item note for well head adapter spool</p> <p>12) The Bidder shall be an API6A licensee manufacturer of well-head fittings and copy of valid API6A certificate shall be submitted along with technical bid. OR, the bidder may be an authorized dealer of an API6A licensee well head fitting manufacturer (the principal). In case of authorized dealer, valid authorization / dealership certificate issued by the principal and valid API6A certificate of the principal shall be submitted along with the technical bid.</p> <p>2) The bidder shall submit the relevant drawing and literature, along with technical bid.</p> <p>a) Detailed bill of material &amp; cross sectional drawing showing major dimension of the adapter spool.</p> <p>b) Quality assurance plan (QAP) with critical stages of inspections for manufacturing of adapter spool.</p>		

<p>3) The design of the spool shall be generally conforming to drawing no OIL/PDNO/P&amp;D/020/A-1/1. However, in case of any change in design suggested by the bidder while fulfilling the technical specifications, the drawing shall be submitted along with the technical bid for necessary approval.</p> <p>4) Identification marking: Each adapter spool shall bear the markings for manufacturer's logo/name, flange sizes, Ring sizes, grade, and working pressure. Additionally, OIL's purchase order number shall be marked suitably for permanent retention.</p> <p>5) In case of placement of order, the bidder (supplier) shall submit test certificates along with the supply for the raw material used (viz., chemical composition, physical properties etc.), final dimensional check and any other test conducted as per the QAP.</p> <p>6) Third party inspection: The wellhead adapter spool shall be inspected by any of OIL's approved TPI agency (viz., M/s Lloyds, M/s RITES, M/s IRS, M/s DNV &amp; M/s Bureau Veritas), and all inclusive charges for Third Party Inspection to be indicated separately.</p> <p>7) The scope of third party inspection for chemical injection mandrel shall be as follows</p> <ol style="list-style-type: none"> <li>Raw material identification/verification.</li> <li>Chemical analysis and physical test reports.</li> <li>Dimensional checks against approved drawing.</li> <li>Hydrostatic tests.</li> <li>Visual inspection for imperfections.</li> <li>Equipment marking.</li> <li>Any other test(s), if desired by the TPI agency that has not been spelt above.</li> <li>Issue of inspection certificate for above and material release note.</li> </ol> <p>8) Inspection by OIL : OIL reserves the right to witness/inspect the material at various stages starting from raw materials to finished product and supplier has to organize for the same. Hence, the supplier shall intimate OIL for the above joint inspection minimum 10 days ahead of scheduled date of inspection. However, witnessing/inspecting of the above</p>		
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	will be at OIL's discretion.		
13	<p>E) Item Note for pumping package</p> <p>12) Pump and motor shall be unitized on a common MS skid base having coupling guard and foundation bolts.</p> <p>2) Motor/starter shall be guaranteed for one year after date of commissioning and tested for routine tests at factory. Guarantee certificate &amp; the factory test report of the motor should be submitted with the pump unit.</p> <p>3) Packing should be suitable for transit damage &amp; protection against tropical rains.</p> <p>4) The bidder has to submit the following documents along with their technical offer.</p> <p>I. Detail technical literature for all equipment</p> <p>II. Detailed layout drawing.</p> <p>12. Detailed Electrical Line Diagram.</p> <p>12. Frame size &amp; make of the offered motor.</p> <p>5) The bidder has to submit the following documents along with material supply</p> <p>I. Operation &amp; Maintenance (O &amp; M) Manual.</p> <p>II. Guarantee Certificate.</p> <p>6) The bidder shall quote for recommended spares along with price, part nos. of individual items for two years trouble free operation of the dozing unit. While quoting for these spares, the bidder shall take into account the consumption pattern as deemed fit. These two year spares shall also be considered for evaluation. However, procurement of the whole lot of spares or part thereof shall be at the discretion of OIL.</p> <p>7) The bidders shall also confirm availability of all the spares quoted, for a period of 5 (Five) years from the date of supply of the dozing unit.</p> <p>8) The tank should be tested for leakage by filling with water, and test report shall be submitted along with material supply.</p>		
14	<p>F) Item note for Installation &amp; Commissioning</p> <p>Installation &amp; commissioning shall be for 02 sets of chemical injection system.</p>		

	<p>Installation &amp; Commissioning shall include providing necessary manpower service, commissioning engineer, tools &amp; tackles and other equipments required for running in downhole equipments, installation of wellhead, hydraulic testing of all equipments as applicable and functional performance testing for 72 hours as per specification while OIL or its nominated agency shall provide and operate the rig.</p> <p>Installation &amp; Commissioning shall also include providing necessary manpower service, commissioning engineer, tools &amp; tackles and other equipments required for completing the surface connections of the pumping units, hydraulic testing of all equipments &amp; piping as applicable and functional performance testing of pumping unit for 72 hours as per specification.</p> <p>The commissioning engineer shall be fully responsible and shall take complete control of supervising the installation and commissioning activities of the system at the well site.</p> <p>It will be the responsibility of the commissioning engineer to bring all necessary tools &amp; tackles, as well as any other necessary equipments, which are not included in the specification but shall be required by the commissioning engineer for installation &amp; commissioning of the downhole equipment, while hydraulic hand pump shall be provided by OIL.</p>		
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**( B ) COMMERCIAL CHECK LIST :**

**ANNEXURE III**

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

Sl#	REQUIREMENT	COMPLIANCE
1.0	Whether bid submitted under Single Stage Two Bid System?	Yes / No

2.0	Whether quoted as manufacturer?	Yes / No
2.1	Whether quoted as OEM Dealer/Distributor. To Specify-	Yes / No
2.2	If quoted as OEM Dealer / Distributor, (a) Whether submitted valid and proper authorization letter from manufacturer confirming that bidder is their authorized Dealer / Distributor for the product offered ?	Yes / No
3.0	(b) Whether manufacturer's back-up Warranty/Guarantee certificate submitted?	
	Whether ORIGINAL Bid Bond (not copy of Bid Bond) as per Revised Format(Annexure VII Revised) Sent separately? If YES, provide details	
	(a) Amount :	
	(b) Name of issuing Bank :	
	© Validity of Bid Bond :	
4.0	Whether offered firm prices ?	Yes / No
4.1	Whether quoted offer validity of 180 days from the date of closing of tender?	Yes / No
4.2	Whether quoted a firm delivery period?	Yes / No
4.3	Whether agreed to the NIT Warranty clause?	Yes / No
4.4	Whether confirmed acceptance of tender Payment Terms?	Yes / No
5.0	Whether confirmed to submit PBG as asked for in NIT?	Yes / No
5.1	Whether agreed to submit PBG within 30 days of placement of order?	Yes / No
6.0	Whether Price submitted as per Price Schedule (refer Para 12.0 of BRC vide Annexure – II)?	Yes / No
7.0	Whether list of Recommended Spares for 2 years of operations with part No., quantity & unit rate quoted for Pumping Package?	Yes / No
7.1	Whether confirmed that all spares & consumables will be supplied for a minimum period of 10 years ?	Yes / No
8.0	Whether quoted as per NIT (without any deviations)?	Yes / No
8.1	Whether quoted any deviation?	Yes / No
8.2	Whether deviation separately highlighted?	Yes / No
8.3	Whether indicated the country of origin for the items quoted?	Yes / No
8.4	Whether technical literature / catalogue enclosed?	Yes / No
8.5	Whether weight & volume of items offered indicated?	Yes / No
9.0	For Foreign Bidders – Whether offered FOB / FCA port of despatch including sea / air worthy packing & forwarding?	Yes / No
9.1	For Foreign Bidders – Whether port of shipment indicated. To specify:	Yes / No
9.2	For Foreign Bidders only – Whether indicated ocean freight up to Kolkata port (Excluding marine insurance ) ?	Yes / No
9.3	Whether Indian Agent applicable ?	Yes / No
	If YES, whether following details of Indian Agent provided?	
	(a) Name & address of the agent in India – To indicate	
	(b) Amount of agency commission – To indicate	
	© Whether agency commission included in quoted material value?	



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

Signature \_\_\_\_\_  
Name \_\_\_\_\_  
Designation \_\_\_\_\_

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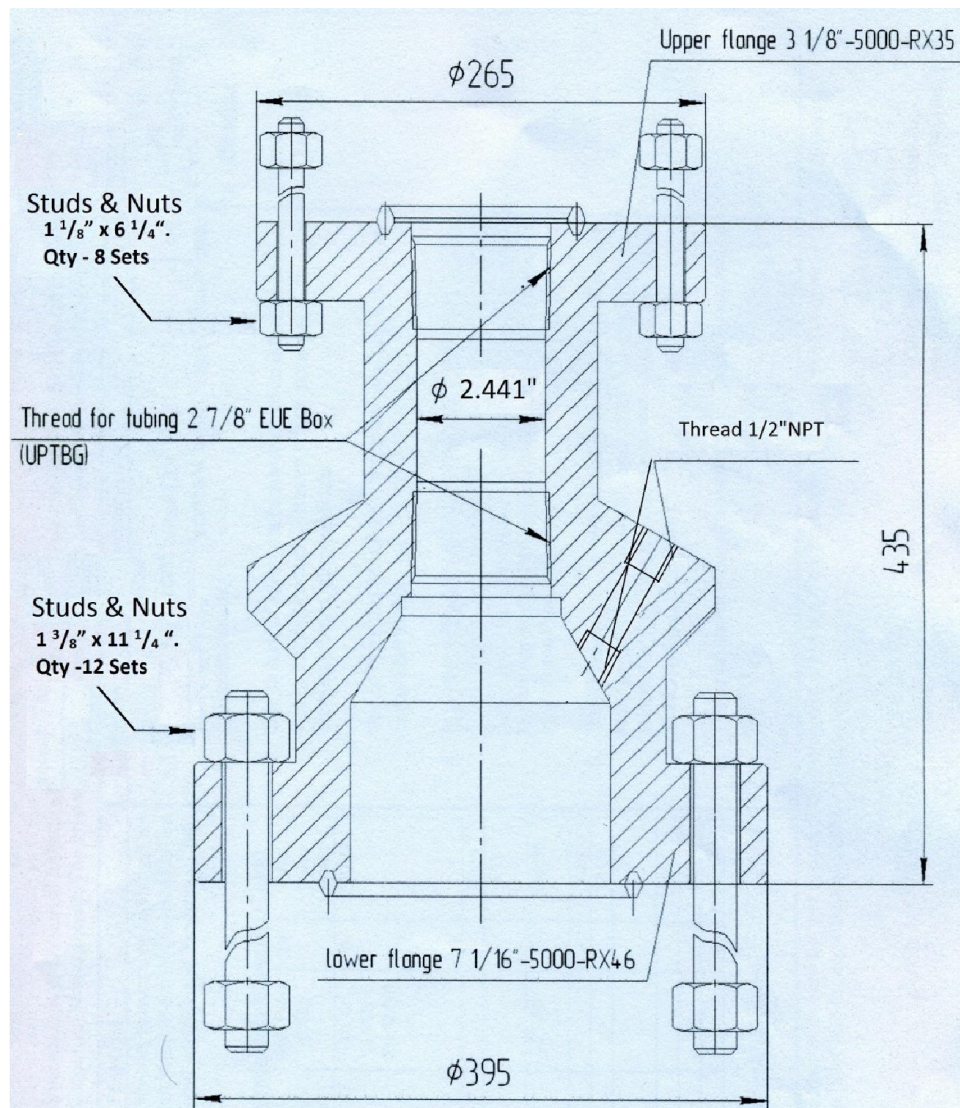
**WELL HEAD ADAPTER SPOOL FOR CHEMICAL DOSING,  
3 1/8"x 7 1/16"x5M**

Material code :

SPECIFICATION : AS PER API 6A  
 WORKING PRESSURE : 5000 PSI  
 MATERIAL : MINIMUM API 60K CAST/FORGED ALLOY STEEL  
 PRODUCT SPECIFICATION LEVEL : PSL 1  
 PERFORMANCE RATING : PR 1  
 MATERIAL CLASS : AA  
 TEMPERATURE RTING : U

TOP END CONNECTION : FLANGED, 3 1/8" X 5M, RX 35  
 BOTTOM END CONNECTION : FLANGED, 7 1/16"X 5M, RX 46

STUDS : ALLOY STEEL, ASTM A 193, GR B7 OR EN 19, THREAD DESIGN 1"-8UNC-2A  
 NUTS : ALLOY STEEL, ASTM A 194, GR 2H OR EN 19, THREAD DESIGN 1"-8UNC-2B



OIL INDIA LIMITED PROD(O) DEPTT DULIAJAN 786602	WELL HEAD ADAPTER SPOOL FOR CHEMICAL DOSING: 3 1/8" x 7 1/16" X 5M	DR NO	OIL/PDNO/P&D/020/A-1/1
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