



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

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Tender No. : **SDG5418P15/06 of 17.11.2014**

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

Bid Closing on : As mentioned in the Basic Data of e-portal

Bid Opening on : -do-

Tender Fee : INR 4,500.00 OR USD 100.00

Bid Security Amount : INR 52,800.00 OR USD 1174.00
(or equivalent amount in any currency)

Performance Guarantee : Not Applicable

OIL INDIA LIMITED invites Global Tenders for items detailed below:

Item No.	MATERIAL DESCRIPTION	QTY.	UOM
<u>10</u>	<p>Corrosion Monitoring System for Water Injection Station and associated wellheads</p> <p>Corrosion Monitoring System</p> <p>A. General:</p> <p>The Corrosion monitoring system is required to measure general corrosion rate and localized corrosion (pitting) for application at two Water Injection Stations (WIS). For each WIS, the corrosion measurement to be made at one 10" N.B. pipeline inside the station and two 4" N.B. pipeline at wellheads located outside the WIS, within the perimeter of 5km radius from the WIS.</p> <p>The system should be designed to directly monitor Corrosion rate and Pitting. The system for each WIS shall consist of a) Three numbers of suitable probes (one for 10"NB pipeline and two numbers for 4" NB pipeline at wellheads) along with mounting assemblies and b) One field mounted data logger for continuous and automatic recording of data to be done at 10"NB pipeline inside the WIS and c) one hand held portable data logger for periodic monitoring of data at both the 4"NB</p>	2	Sets.

	<p>wellhead lines under each WIS. All the data loggers should have data retrieval / transfer facility with PC. The PC should be pre-loaded with necessary Corrosion Software.</p> <p>B. Process parameters:</p> <ol style="list-style-type: none"> 1. Process fluid : Water 2. Fluid Flow rate:(a)1800 -2000 KLPD at discharge manifold(10" NB) (b) 100-225 KLPD at well head flow line(4"NB) 3. Process temperature : Ambient 4. Process pressure : 1700 Psi (Max.) 5. Material of construction of pipeline: (a) API Std. 5L, Grade B Bevel end at discharge manifold(10") (b) API 5L/Gr-X46 Steel line pipe at well head (4") 6. Pipe thickness : 7.10 – 7.14 mm <p>C. Measurement Principle:</p> <ol style="list-style-type: none"> 1. General corrosion rate: using Linear Polarization Resistance (LPR) principle. 2. Imbalance/localized corrosion: using Electrochemical Noise (ECN) or Zero Resistance Ammetry (ZRA). <p>D. Detailed Specifications of corrosion probe, data logger and accessories (All items from D1 to D4 should be quoted in duplicate for two WIS and associated wellheads): The corrosion monitoring system for one WIS and associated wellheads should have the following:</p> <p>D1. Corrosion Probes for One WIS:</p> <ol style="list-style-type: none"> 1. Mountable probe assembly suitable for 10" NB pipeline – 1 No. 2. Mountable probe assembly suitable for 4" NB pipeline – 2 Nos 3. Process rating for the above probes: As specified in process parameters point no. B 4. Temperature range: 0°C to +150°C 5. Element type: Pipe Grade Carbon Steel as per UNS K03005 grade, 10 mil useful life. 6. Element Seal Material — Glass/Viton O-Ring 7. Fill Material — Epoxy 8. Probe Body Material — 316L S.S. 9. Mounting of probe assembly in the scope of supplier. <p>D2. Field Mounted Data Logger for 10" NB pipeline for One WIS: - 1 No. Multiple parameters measurements: general corrosion rate, localized corrosion (pitting).The data collector/logger should be capable of measuring both corrosion rate and pitting index</p> <ol style="list-style-type: none"> 1. Corrosion Data Collection: Automatic 2. Power option: Intrinsically Safe 		
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	<p>3. Power source: Two nos.of rechargeable Heavy duty Battery(14 Amp-hour).</p> <p>4. Typical Battery Life: 91 days@ 1 reading per hour.</p> <p>5. Operating Temperature: 0°C to +50°C</p> <p>6. Data Storage: Maximum 1024 measurements(most recent readings/measurements)</p> <p>7. Probe Channel Cable: Ten foot probe cable for probe on 10" NB pipeline</p> <p>8. Corrosion Rate Ranges: 0.01 to 20 MPY or more.</p> <p>9. Pitting Index: 0.01-1.0 or better</p> <p>10. Cycle Time Range: Automatic or manually adjustable 5 to 30 minutes.</p> <p>11. Enclosure protection: NEMA 4X or equivalent</p> <p>12. Data transfer: Should have RS-232 communication port for transfer of data to PC. The party should supply necessary communication cable/adaptor for data transfer from data collector/logger to the programming PC (Laptop).</p> <p>13. Mounting of the data collector/logger within the scope of supplier.</p> <p>D3 Handheld portable data-logger for 4" NB pipeline (for periodic recording of data at two wellheads associated with one WIS) : - 1 No</p> <p>1. Multiple parameters measurements: general corrosion rate, localized corrosion (pitting) The data collector/logger should be capable of measuring both corrosion rate and pitting index.</p> <p>2. Corrosion Data Collection: Automatic</p> <p>3. Display: Numerical</p> <p>4. Power option: Intrinsically Safe</p> <p>5. Power source: 6 AA alkaline cells</p> <p>6. Typical Battery Life: Typically 10hrs of continuous operation.</p> <p>7. Operating Temperature: 0°C to +50°C</p> <p>8. Data Storage: Maximum 1024 readings</p> <p>9. Data collection frequency: Minimum 5 minutes per reading.</p> <p>10. Probe Channel Cable: 16 probe cable for probe on 4"NB pipeline</p> <p>11. Corrosion Rate Ranges: 0.01 to 20 MPY or more.</p> <p>11 Pitting Index: 0.01-1.0 or better.</p> <p>12 Data transfer: Should have RS-232 communication port for transfer of data to PC. The party should supply necessary communication cable/adaptor for data transfer from data collector/logger to the programming PC (Laptop).</p> <p>D4. Accessories for One Corrosion Monitoring System:</p> <p>1. Probe to data collector/logger cable assembly(for one10" NB pipeline and two 4"NB pipeline (10 ft/3.3 m for field mounted data logger and 16" for portable handheld data collector)</p> <p>2. Data collector/logger to PC communication cable/adaptor assembly(for one 10"NB pipeline and two 4"NB pipeline) – 2 Nos.</p> <p>3. Mounting assembly for 10" NB pipeline data collector/logger – 1 Set</p>		
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	<p>4. Mounting assembly for probes on 4" pipeline – 2 Sets 5. Mounting assembly for probes on 10" pipeline – 1 Set 6. Pipe Grade Carbon Steel Electrodes (pack of 2) – 8 Nos. 7. Additional heavy duty battery packs – 1 Set.</p> <p>E. Specification of Corrosion software: - 1 No. for the entire lot. 1. A Windows based data acquisition & processing software for corrosion data collection and analysis having the following specifications: 2. 32-Bit application for Windows® XP /Windows 7 3. Corrosion data management. 4. Multiple parameter graphing. 5. Software should be capable of analysis of both corrosion rate and pitting index. 6. Compatible with supplied data collector/logger and associated probes. 7. Records and displays corrosion rates. 8. Imports and exports data, multiple printed reports.</p> <p>F. Specifications of Programming terminal (Laptop): 1 No. for the entire lot. Laptop PC (branded laptop Dell/HP/Sony/Toshiba) required for corrosion data collection and analysis. The corrosion software should be pre-installed on the computer to be supplied along with the instrument. The minimum specifications are: 1. Laptop make: Dell/HP/Sony/Toshiba. 2. Min. 320 GB HDD, 3. 4GB RAM, DVD R/W, 4. 14 inch TFT Monitor, 5. Intel core processor i5 or i7, 6. Preloaded with genuine 32-bit Windows XP/Windows 7 operating system. 7. Ports and Connectors: One(01) RJ-45 (Ethernet), Two (02) USB ports, One(01) RS 232 ports.</p>		
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(A) General Notes for e-tender :

1. 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 Amendment and Addendum.
2. The general details of tender can be viewed by opening the RFx [Tender] under RFx and Auctions. The details of items tendered can be found in the Item Data and details uploaded under Technical RFX.
3. Bid must be submitted electronically only through OIL’s e-procurement portal. Bid submitted in any other form will be rejected.

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

a) Original Bid Security.

b) Details Catalogue 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 authorized signatory of the bidder and to be submitted in triplicate.

5. Bidders must ensure that their bid is uploaded in the system before the tender closing date and time. Also, they must ensure that above documents which are to be submitted in a sealed envelope are also submitted at the above mentioned address before the bid closing date and time failing which the offer shall be rejected.
6. 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. All the Bids must be Digitally Signed using "Class 3" digital certificate (*e-commerce application*) with organisation name as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India.
8. Please do refer the User Manual provided on the portal on the procedure How to create Response for submitting offer.

(B) GENERAL NOTES FOR BIDDERS:

Special terms & conditions:

1. The offer should be from Original Equipment Manufacturer (OEM) or its Authorized dealer /agent in India. The bidder should submit an authorization certificate with confirmation of warranty backup, availability of spares for the next ten years from their OEM. The undertaking from OEM should also include that, if in future, OEM does not have any Indian agency, the service during the warranty period will be provided directly by the service engineer of the OEM or its present Authorised dealer/agent in India without any extra charge.
2. The bidder should provide sufficient technical literature, brochure, catalogues and documentary evidence in support of their offer, failing which the offer shall be treated as incomplete.

3. The bidder should ensure in their offer that one set of operation & maintenance manuals (both hard and soft copies) for the entire lot shall be provided along with the supply.

4. The Bidder should ensure in their offer that any defective parts found during installation & commissioning or warranty period shall be replaced free of cost within one month.

5. **Installation & Commissioning:**

a) The complete installation & commissioning of the corrosion monitoring system at site (OIL's field installations) shall be in the scope of the successful bidder. The scope shall include connection of probe assembly to the data collector, mounting & installation of the data collector, demonstration/validation of the system including system operation and data transfer to the supplied laptop PC.

b) Drilling/cutting of hole in the pipeline by hot tapping and any welding job required for access fitting on the pipeline will be done by certified contractors of Oil India Limited under supervision of competent engineer(s) /personnel(s) of the bidder. The concerned engineer also shall demonstrate the entire capability of the system including different aspect/functionality of the corrosion software. All spares, fittings, accessories, etc. required for successful commissioning of the whole corrosion monitoring system shall be in the scope of the supplier. The bidder should ensure all the above in their offer.

c) While quoting Installation/Commissioning charges above, bidder shall 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.

6. **Annual Maintenance Contract:**

a) Non-comprehensive AMC rate for three years, after the warranty period is over, should be quoted with year-wise breakup, which shall be considered for evaluation of bids. The scope of AMC will include replacement of probe electrodes on depressurised pipeline and minor maintenance of probes, transmitter and data logger, if required.

b) While quoting for AMC, the bidder should take into account one preventive maintenance visit per year and breakdown visits as and when required.
In case of breakdown visit(s), the bidder must come to attend the equipment to make it operational within 15(fifteen) days after receiving the intimation.

c) It should be noted that , during AMC period, the bidder should be responsible for supplying the required spares and OIL shall reimburse the amount as per the actual price.

(C) **SPECIAL NOTES :**

1. The items shall be brand new, unused & of prime quality. Bidder shall warrant (in the event of an order) that the product supplied will be free from all defects & fault in material, workmanship & manufacture and shall be in full conformity with ordered specifications. This clause shall be valid for 18 months from date of despatch/shipment or 12 months from date of

successful commissioning of the item at site which ever is earlier. In case of breakdown during the warranty period, a competent service engineer of the supplier shall make as many visits as shall be necessary to rectify the system. The supplier shall provide all spares required for making the system operational. Bidders must confirm the same while quoting.

2. The minimum FOB/FCA charges in case of partial order for reduced quantity/ items shall have to be indicated by the bidder. In case this is not indicated specifically, the charges quoted would be prorata calculated and the same will be binding on the bidder.
3. Validity of the offers should be 120 days from the date of bid opening. Bids with lesser validity shall be summarily rejected.
4. The items covered by this tender 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/01/2005 enclosed.
5. Check-List vide **Annexure- B** shall be filled-up and submitted along with the offer.
6. To ascertain the substantial responsiveness of the bid OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in to must be received on or before the deadline given by the company, failing which the offer will be summarily rejected.
7. Other terms and conditions of the tender shall be as per “General Terms & Conditions” for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders). However, if any of the Clauses of the Bid Rejection Criteria (BRC) / Bid Evaluation Criteria (BEC) mentioned here contradict the Clauses in the “General Terms & Conditions” for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders) of the tender and/or elsewhere, those mentioned in this BEC / BRC shall prevail.

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ANNEXURE- A

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

COMMERCIAL:

- i) Bids are invited under **Single Stage Composite Bid System**. Bidders shall quote accordingly under Single Stage Composite Bid System.
- ii) **Bid security of US \$ 1,174.00 or Rs. 52,800.00** 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)). 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). **Bank Guarantee towards Bid Security shall remain valid till 31.01.2016. Bid security submitted with validity shorter than the validity indicated in the tender and for bid security amount lesser than the amount indicated in the tender will be summarily rejected.**
- iii) Validity of the bid shall be minimum 120 days from the date of Bid Closing Date. Bids with lesser validity will be summarily rejected.
- iv) 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 18 months from the date of shipment/dispatch or twelve(12) months from the date of successful commissioning of the items at site, 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.
- v) Bidders are required to submit the summary of the prices in their price bids as per bid format (Summary), given below :

1) Price Bid Format (SUMMARY) for Foreign Bidders :

- (A) **Total Material Value :**
- (B) **Packing & FOB Charges :**
- (C) **Total FOB Port of Shipment value, (A + B) above :**
- (D) **Overseas Freight Charges upto Kolkata, India :**
- (E) **Insurance Charges :**
- (F) **Total CIF Kolkata value, (C + D + E) :**
- (G) **Installation/Commissioning Charges :**
- (H) **Total Value,(F + G) :**
- (I) **AMC Charges for 03(three) years after warranty :**
- (J) **Total Value including above (H+I) :**
- (K) **Total Value in words :**

- (L) Gross Weight :
- (M) Gross Volume :

2) Price Bid Format (SUMMARY) for Indigenous Bidders:

- (A) Total Material Value :
- (B) Packing and Forwarding Charges:
- (C) Total Ex-works value, (A + B) above :
- (D) Sales Tax, (Please indicate applicable rate of Tax)
- (E) Total FOR Despatching station price, (C + D) above
- (F) Road Transportation charges to Duliajan
- (G) Insurance Charges
- (H) Assam Entry Tax
- (I) Total FOR Duliajan value, (E + F + G + H) above
- (J) Installation/Commissioning Charges :
- (K) Total value, (I+J) above :
- (L) AMC Charges for 03(three) years after warranty :
- (M) Total Value including (K+L)above :
- (N) Total Value in words :
- (O) Gross Weight :
- (P) Gross Volume :

NOTE:

1. The items covered under this enquiry shall be used by OIL in the PEL/ML areas issued/renewed after 01/04/99 and hence, applicable Customs Duty for import of goods shall be ZERO .Indigenous bidders must quote Deemed Export prices. Excise Duty under Deemed Export exempted.
 2. Banking charges in the country of the foreign bidder shall be borne by the bidder
- vi) 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.
 - vii) 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.
 - viii) Bids containing incorrect statement will be rejected.

(II) BID EVALUATION CRITERIA (BEC) :

Bid Evaluation Criteria (BEC) shall be as per General Terms and Conditions for Global Tender.

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ANNEXURE-B**COMMERCIAL CHECK-LIST**

Sl. No.	PARAMETERS/REQUIREMENTS	BIDDER RESPONSE	REMARKS IF ANY
1.	Whether Original Signed quotation submitted?	YES/NO	
2.	Whether quoted as manufacturer?	YES/NO	
3.	Whether quoted as authorized dealer? [To Specify]	YES/NO	
4.	If quoted as authorized dealer,		
5.	(a) Whether submitted valid and proper authorization letter from manufacturer IN ORIGINAL confirming that bidder is their authorized dealer for the product offered?	YES/NO	
6.	(b) Whether manufacturer's back-up Warranty/Guarantee certificate submitted?	YES/NO	
7.	Whether ORIGINAL Bid Bond (not copy of Bid Bond) enclosed with the offer? If YES, provide details	YES/NO	
	(a) Amount :		
	(b) Name of issuing Bank :		
	(c) Validity of Bid Bond :		
8.	Whether offered firm prices?	YES/NO	
9.	Whether quoted offer validity of 120 days from the date of closing of tender?	YES/NO	
10.	Whether quoted a firm delivery period?	YES/NO	
11.	Whether quoted as per NIT (without any deviations)?	YES/NO	
12.	Whether any deviation is there in the offer?	YES/NO	
13.	Whether deviation separately highlighted?	YES/NO	
14.	Whether agreed to the NIT Warranty clause?	YES/NO	
15.	Whether Price Bid submitted as per Price Schedule?	YES/NO	
16.	Whether indicated the country of origin for the items quoted?	YES/NO	
17.	Whether all the items of tender quoted?	YES/NO	
18.	Whether technical literature/catalogue/drawings enclosed?	YES/NO	
19.	For Foreign Bidders - Whether offered FOB/FCA port of dispatch including sea/air worthy packing & forwarding?	YES/NO	
20.	For Foreign Bidders – Whether port of shipment indicated? [To specify]	YES/NO	
21.	For Foreign Bidders only - Whether indicated ocean freight up to C&F Kolkata port (Excluding marine insurance)?	YES/NO	
22.	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?	YES/NO	
23.	Whether weight & volume of items offered indicated?	YES/NO	
24.	For Indian bidders – Whether place of dispatch indicated in the offer? [To specify]	YES/NO	
25.	For Indian bidders – Whether road transportation charges up to Duliajan quoted?	YES/NO	
26.	For Indian Bidders only - Whether offered Ex-works price including packing/forwarding charges?	YES/NO	
27.	For Indian Bidders only - Whether offered Deemed Export prices?	YES/NO	
28.	Whether quoted prices are exclusive of Excise duty?	YES/NO	
29.	For Indian bidders only – whether import content indicated in the offer?	YES/NO	
30.	For Indian Bidders only - whether all Taxes have been indicated categorically?	YES/NO	
31.	Whether all BRC/BEC clauses accepted?	YES/NO	

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