



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

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Tender No. & Date: SDG5273P15/07 Dated: 04.11.2014

Tender Fee : INR 4,500.00 OR USD 100.00

Bid Security Amount : INR 1,13,020.00 OR USD 2,512.00  
(or equivalent amount in any currency)

Bidding Type : SINGLE STAGE TWO BID SYSTEM

Bid Closing on : As mentioned in the Basic Data of the tender in OIL's e-portal.

Bid Opening on : As mentioned in the Basic Data of the tender in OIL's e-portal.

Performance Guarantee : Applicable

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

| Item No. /<br>Mat. Code | Material Description  | QTY. | UOM  |
|-------------------------|---|------|------|
| 1                       | Supply of Electronic Dead Weight Tester as per the following:<br><br>a) Detailed specification – <b>Annexure - A</b><br><br>b) Bid Rejection Criteria (BRC) and Bid Evaluation Criteria – <b>Annexure-B.</b><br><br>c) Commercial Check list - Annexure - C | 02   | Nos. |

**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 Commercial Check list is furnished vide **Annexure – C**. Please ensure that the check list is properly filled up and uploaded along with Technical bid.
  - 3.0 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.
  - 4.0 Banking charges in the country of the foreign bidder shall be borne by the bidder
  - 5.0 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
- E- Tender No. SDG5273P15/07

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.

6.0 The tender is invited under SINGLE STAGE-TWO BID SYSTEM. The bidder has to submit both the "TECHNO-COMMERCIAL UNPRICED BID" and "PRICED BID" 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" is to be submitted as per Scope of Work & Technical Specification of the tender and "PRICED BID" as per the **Online Priced Bid format**.

7.0 In Technical Bid opening, only Technical Rfx will be opened. Therefore, the bidder should ensure that "TECHNO-COMMERCIAL UNPRICED BID" should contain details as mentioned in the technical specifications as well as BEC/ BRC and upload the same in the Technical RFX Response-> User -> Technical Bid. **No price should be given in above Technical Rfx otherwise the offer will be rejected.** Please go through the help document in details before uploading the document and ensure uploading of technical bid in the Technical RFX Response-> User -> Technical Bid only. The "PRICE BID" must contain the price schedule and the bidder's commercial terms and conditions. Details of prices as per Bid format / Commercial bid can be uploaded as Attachment under the attachment option under "Notes & Attachments"

8.0 PRICED BIDS OF ONLY THOSE BIDDERS WILL BE OPENED WHOSE OFFERS ARE FOUND TO BE TECHNO-COMMERCIALY ACCEPTABLE.

9.0 All the Bids must be Digitally Signed using "Class 3" digital certificate (*e-commerce application*) only 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. The bid signed using other than "Class 3" digital certificate, will be liable for rejection.

10.0 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.

**11.0 The Integrity Pact is applicable against this tender.** OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide Annexure XII of the tender document. This Integrity Pact proforma has been duly signed digitally by OIL's competent signatory. The proforma has to be returned by the bidder (along with the technical bid) duly signed (digitally) by the same signatory who signed the bid, i.e., who is duly authorized to sign the bid. Any bid not accompanied by Integrity Pact Proforma duly signed (digitally) by the bidder shall be rejected straightway. Uploading the Integrity Pact with digital signature will be construed that all pages of the Integrity Pact has been signed by the bidder's authorized signatory who sign the Bid.

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

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

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

## **General Notes to Bidders:-**

1.0 The item shall be brand new, unused and prime quality. Bidder shall warrant that the product supplied will be free from all defect & fault in the material, workmanship & manufacture and shall be in full conformity with ordered specifications. This clause shall be valid for 18 months from date of shipment or 12 months from date of commissioning of the item, whichever is earlier. The defective materials, if any rejected by us shall be replaced by the supplier at their own expense. Bidder must confirm the same in the quotation.

2.0 Quotation must be accompanied with original relevant catalogue / literature and drawing.

3.0 Calibration certificate (traceable to NABL or any other recognized calibration agency) shall be submitted by the supplier at the time of delivery.

4.0 The material supply should be accompanied with test, calibration and warranty / guarantee certificates.

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

## **6.0 Installation and Commissioning:**

(i) The successful bidder will required to install and commission the equipments by their competent service engineer within 15 (fifteen) days from the date of intimation from OIL. The bidder shall have to provide training to OIL personnel during Installation & Commissioning of the units.

(ii) Installation and Commissioning charges, if any, must be quoted separately on lump sum basis which shall be considered for evaluation of the offer. Offers without indicating the Installation/Commissioning shall be treated as incomplete and non-responsive. Bidders shall confirm about the installation, commissioning while quoting. Any, pre-installation requirements are to be clearly indicated in the offer.

(iii) While quoting installation and commissioning charges, bidder should take into account all charges including to and fro fares, boarding/lodging, and other daily expenses of the commissioning personnel. OIL may provide accommodation on chargeable basis subject to availability. Income, Service, Corporate Taxes etc., if any, towards Installation/Commissioning will be to supplier's account and will be deducted at source.

(iv) Offers without indicating the Installation/Commissioning charges shall be loaded with the maximum installation/commissioning charges received against this tender for evaluation purpose.

(v) Moreover, if Income/Service taxes are not categorically mentioned in their offer, then such offers shall be loaded with the applicable rate of taxes for evaluation purpose.

7.0 The bidder must confirm their authorized service center available in India for maintenance /service support against their offered models.

8.0 Items should be packed adequately for protection against transit damage.

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

- i) 80% of the order value shall be paid against proof of dispatch/shipment of the goods.
  - ii) Remaining 20% of the order value along with installation and commissioning charges (if any) shall be paid after successful installation and commissioning and acceptance of the unit by OIL.
  - iii) OIL may also consider making 100 % payment towards supply of the units against proof of dispatch provided bidders agree to pay interest i.e 1% above the prevailing Bank Rate (CC Rate) of State Bank of India for 20% of the order value and also submit Bank Guarantee for the amount equivalent to 20% of the order value plus interest valid till successful commissioning at site.
  - iv) Payment towards Installation/Commissioning/Training (if any) shall be released on successful completion of the Installation/Commissioning/Training
- 10) Bids are invited under Single Stage Two Bid System. Bidders shall quote accordingly under Single Stage Two Bid System. Any offer not complying with the above will be rejected straightway.
- 11) Bid Rejection Criteria (BRC) and Bid Evaluation Criteria (BEC) vide **Annexure-B** shall be applicable to this tender.
- 12) Commercial Check-list vide **Annexure –C** should be filled-up and submitted along with the offer.
- 13) The quotation must be submitted online and accompany detailed specifications of the offered product, forwarding relevant catalogue with drawings & literature with their quotation
- 14) The items covered by this enquiry shall be used by Oil India Limited in the PEL/ML areas which are issued/renewed after 01/04/99 and hence Nil Customs Duty during import will be applicable. Indigenous bidder shall be eligible for Deemed Export Benefit against this purchase. Details of Deemed Export are furnished vide Addendum to MM/GLOBAL/E-01/2005 attached.

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

**(I) Bid Rejection Criteria:**

**(A) TECHNICAL**

The bids must conform to the specifications and terms & conditions given in the enquiry. Bids shall be rejected in case the item(s) offered do not conform to the required minimum / maximum parameters stipulated in the technical specifications. Notwithstanding the general conformity of the bids to the stipulated specifications and terms & conditions, the following requirements shall have to be particularly met by bidders, without which the offer will be considered as non-responsive and rejected.

1.0 Electronic Dead Weight Tester shall conform to OIL's technical specification in all regards.

2.0 Calibration certificate (traceable to NIST or any other recognized calibration agency) shall be submitted by the supplier at the time of delivery. Bidder to confirm the same while quoting.

3.0 Bidder should be Original Equipment Manufacturer (OEM) or his authorized dealer. In case the bidder is an authorized dealer, the bidder has to submit valid authorization certificate along with the offer failing which offer will be rejected.

4.0 The manufacturer should have minimum experience of 3 (three) years preceding from the bid closing date of this tender in manufacturing and supplying such equipments to any E&P Company or Pressure Testing Laboratory. Information to be furnished by the bidder will includes- Client / customer's name and address, Order no. / Contract no., Date of order, Quantity etc. Bidder shall submit documentary proof of the supplies made i.e. valid copies of Purchase Order, Invoice, Delivery Challan / Bill of lading etc.

**(B) COMMERCIAL:**

Commercial Bid Rejection Criteria will be as per Section D of General Terms & Conditions of Global Tender (MM/GLOBAL/E-01/2005) with following Special Bid Rejection Criteria.

- 1) 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 "Price 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) **Bid security of US \$ 2,512.00 or Rs. 1,13,020.00** 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.** 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 **03.03.2016**
- 3) Validity of the bid shall be minimum 180 days from the date of Bid Closing Date. Bids with lesser validity will be rejected.
- 4) Bidders must confirm that Goods, materials or plant(s) to be supplied shall be new of recent make and of the best quality and workmanship and shall be guaranteed for a period of eighteen (18) months from the date of dispatch/shipment or twelve (12) months from the date of

commissioning 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.

- 5) 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 (1) year from the date of successful commissioning of the items. Bidder must confirm the same in their Technical Bid. Offers not complying with this clause will be rejected
- 6) Bidders are required to submit the summary of the prices in their price bids as per bid format (Summary), given below :

**(i) 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 (if any) :
- (H) Total Value, ( F + G ) :
- (I) Total Value in words :
- (J) Gross Weight :
- (K) Gross Volume :

**(ii) 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 (if any) :
- (K) Total value, (I+J) above :
- (L) Total Value in words :
- (M) Gross Weight :
- (N) 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

- 7) Offers received without Integrity Pact duly signed by the authorized signatory of the bidder will be rejected.

- 8) Installation/Commissioning/Training charges should 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 personnel during their stay at Duliajan, Assam (India).

Bidders must categorically indicate the above charges in their Price Bid and must confirm the same in their Technical Bids.

- 9) 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.
- 10) 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.
- 11) Bids containing incorrect statement will be rejected.
- 12) A bid shall be rejected straightway if it does not conform to any one of the following clauses:
  - (a) Validity of bid shorter than the validity indicated in the Tender.
  - (b) Original Bid Security not received within the stipulated date & time mentioned in the Tender.
  - (c) Bid Security with (i) validity shorter than the validity indicated in Tender and/or (ii) Bid Security amount lesser than the amount indicated in the Tender.
  - (d) In case the Party refuses to sign Integrity Pact.

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

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

- 1) The evaluation of bids will be done as per the Priced Schedule (summary) detailed vide para (6) of BRC (Commercial).
- 2) If there is any discrepancy between the unit price and 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) 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) 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 "Grand Total Value" which is estimated as under:**

- (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 @1% of Total FOB Port of Shipment value vide (C) above

- (F) Banking Charges @ 0.5% of Total FOB Value ( C ) 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)
- (G) Total CIF Kolkata value, ( C + D + E + F ) :
- (H) Installation/Commissioning Charges, if any :
- (I) Grand Total Value,( G + H ) :

**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 "Grand Total Value" which is estimated as under :**

- (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, if any :
- (K) Grand Total value, (I+J) above :

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

**4.3) When both foreign and domestic bidders are involved:**

The Grand Total Value of domestic bidder (inclusive of customs duty on imported raw material and components etc, and applicable terminal excise duty on the finished products and Sales Tax) excluding inland transportation to destination and Insurance charges worked out as per Para 4.2 above and Grand Total Value of the foreign bidder worked out as per Para 4.1 above (with customs duty as applicable on the bid closing date) excluding inland transportation to destination will be compared. No price preference will be allowed to indigenous bidders except that for capital goods, the domestic manufacturers would be accorded a price preference to offset CST to the extent of 4 % or actuals, whichever 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 Grand 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) 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.



**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 bid submitted under single stage Two-Bid System?   | YES/NO          |                |
| 8.      | 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 :   |                 |                |
|         | (d) Whether Bid Bond submitted as per Revised Format   | YES/NO          |                |
| 9.      | Whether offered firm prices?   | YES/NO          |                |
| 10.     | Whether quoted offer validity of 180 days from the date of closing of tender?  | YES/NO          |                |
| 11.     | Whether quoted a firm delivery period?   | YES/NO          |                |
| 12.     | Whether quoted as per NIT (without any deviations)?  | YES/NO          |                |
| 13.     | Whether any deviation is there in the offer?   | YES/NO          |                |
| 14.     | Whether deviation separately highlighted?  | YES/NO          |                |
| 15.     | Whether agreed to the NIT Warranty clause?   | YES/NO          |                |
| 16.     | Whether Price Bid submitted as per Price Schedule?   | YES/NO          |                |
| 17.     | Whether indicated the country of origin for the items quoted?  | YES/NO          |                |
| 18.     | Whether all the items of tender quoted?  | YES/NO          |                |
| 19.     | Whether technical literature/catalogue/drawings enclosed?  | YES/NO          |                |
| 20.     | For Foreign Bidders - Whether offered FOB/FCA port of dispatch including sea/air worthy packing & forwarding?  | YES/NO          |                |
| 21.     | For Foreign Bidders - Whether port of shipment indicated? [To specify]   | YES/NO          |                |
| 22.     | For Foreign Bidders only - Whether indicated ocean freight up to C&F Kolkata port (Excluding marine insurance)?  | YES/NO          |                |
| 23.     | 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          |                |
| 24.     | Whether weight & volume of items offered indicated?  | YES/NO          |                |
| 25.     | Whether confirmed to submit PBG as asked for in NIT?   | YES/NO          |                |
| 26.     | Whether agreed to submit PBG within 30 days of placement of order?   | YES/NO          |                |
| 27.     | For Indian bidders - Whether place of dispatch indicated in the offer? [To specify]  | YES/NO          |                |
| 28.     | For Indian bidders - Whether road transportation charges up to Duliajan quoted?  | YES/NO          |                |
| 29.     | For Indian Bidders only - Whether offered Ex-works price including packing/forwarding charges?   | YES/NO          |                |
| 30.     | For Indian Bidders only - Whether offered Deemed Export prices?  | YES/NO          |                |
| 31.     | Whether quoted prices are exclusive of Excise duty?  | YES/NO          |                |
| 32.     | For Indian bidders only - whether import content indicated in the offer?   | YES/NO          |                |
| 33.     | For Indian Bidders only - whether all Taxes have been indicated categorically?   | YES/NO          |                |
| 34.     | Whether all BRC/BEC clauses accepted?  | YES/NO          |                |
| 35.     | Whether duly signed Integrity Pact enclosed?   | YES/NO          |                |

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**A. TECHNICAL SPECIFICATION FOR ELECTRONIC DEAD WEIGHT TESTER ( 02 NOS.)**

The Electronic Dead Weight Tester for measuring pressure and calibration of broad range of pressure measuring instruments including analog gauges, transducers, process calibrators, pressure sensors and transmitters etc. The unit should be a complete hydraulic calibration system that combines the real time precision electronic pressure measurement system with high quality operator controlled pressure generator. The Electronic Dead Weight Tester calibration should not be influenced by the gravitational correction, ambient temperature variation and leveling. The unit should have following minimum specifications:

Specification:

1. Pressure Range: 1,000 to 10,000 psig.  
The system should be in one compact unit. The pressure generation and measurements should be done in a same compact unit.
2. Uncertainty: 0.02% reading from 10% to 100%
3. Precision: 0.01% of readings
4. Stability: 0.0075% of readings
5. Accuracy: +/- 0.01% of reading or better
6. Operating Medium: Sebacate oil / Distilled water
7. Pressure measurement system: High resolution quartz reference pressure transducer
8. Unit of Measure: Directly display of measured pressure in 10 standard unit of Pressure (Psi / ksc / kPa / mPa / Bar / mBar and other standard unit)
9. Resolution: User adjustable to 1 ppm
10. Communication port: The unit should have communication port for data transfer to computer.
11. Material of construction: 300 series Stainless Steel or better.
12. The unit should be automated zeroing when vented.
13. The unit should be automated fluid head correction.
14. The unit should have Ready/ Not ready indication based on user definable pressure stability settings..
15. Warm Up time-Maximum 15min.
16. Auto range function sets the following automatically:
  - a. Minimum and Maximum pressure range
  - b. Measurement Mode
  - c. Display resolution
  - d. Over pressure alarms upper limit
17. Following Features should be available:
  - i) No weight required
  - ii) Auto correction for local gravity & ambient temperature
  - iii) No need to change piston cylinder
  - iv) Not sensitive to level or vibration
  - v) Able to set and read any pressure value
  - vi) Able to operate in any pressure units of measure
  - vii) Auto test calibration routines & data acquisition on board
  - viii) Interface-able with a PC or Laptop to allow for automated data acquisition
  - ix) Easily recalibrated without cross floating
  - x) Automated zeroing
  - xi) Automated fluid head correction
  - xii) Re-settable High/Low pressure lock
  - xiii) User definable pressure stability settings
  - xiv) Auto range function: Minimum & maximum pressure range, Measurement Mode, Display Resolution & Over pressure alarm (upper limit)

18. Pressure value FREEZE function
19. Re-settable high/ low pressure lock
20. Deviation from set point
21. Calibration Certificate- NABL (or any other recognized calibration agency) Traceable Calibration Certificate
22. Power requirement: 220 VAC, 50 Hz and 12 V dc, rechargeable battery.
23. Operating Temperature range: 10 deg C to 40 deg C
24. Operating humidity : 0 to 95% RH
25. Weight: Not more than 20 Kg
26. Test port & supply connection : Equivalent to AE250C
27. Accessories:
  - i) NPT adaptor kit :Adaptors to 1/8,1/4,3/8,1/2 NPTF-1 Set
  - ii) Liquid fill kit -1 Set
  - iii) Fluid: Sebacate oil 5 Litres
  - iv) 12 VDC Battery Pack- 1 Set
  - v) Battery Charger- 1 No
  - vi) Interconnected kit -1 Set
  - vii) Remote foot switch -1 Set
  - viii) Carrying Case: Rugged, wheeled, reusable molded shipping case – 1 No.
  - ix) Power supply cable – 1 No.
  - x) Operating Manual – 2 Sets
  - xi) Any other item that is required to make the quoted system fully functional has to be provided by the bidder.